THE CITY RECORD.

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GEORGE B. McCLELLAN, MAYOR.

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DEPARTMENT OF PUBLIC CHARITIES.

List of Changes in the Service of the Department of Public Charities During Week Ending November 16, 1907.

November 8—Banta, Clara, appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 8.

November 8—Barry, David, appointed Hospital Helper, City Training School, \$300 per annum; certified November 8.

November 9—Behan, Patrick, restored to position of Deckhand, steamboats \$500 per annum. (Temporary Pilot).

November 2—Burk, Etta G., dropped, Hospital Helper, Randall's Island, \$240 per annum; illness

November 11—Byron, Charles, appointed Hospital Helper, General Drug Department, \$600 per annum; certified November 11.

November 13—Clay, Elizabeth L., appointed Hospital Helper, Metropolitan Training School, \$300 per annum; certified November 13.

November 13—Cole, John E., resigned, Hospital Helper, Randall's Island, \$240 per annum.

November 7-Conroy, Mary, resigned, Hospital Helper, Metropolitan Training School, \$300 per annum.

November 12—Evans, Emily, appointed Hospital Helper, New York City Training School, \$360 per annum; certified November 12.

November 13—Evans, Emily, resigned, Hospital Helper, New York City Training

October 31—Feeley, William, dropped, Hospital Helper, Randall's Island, \$180 annum; illness.
November 9—Flanagan, Bernard, resigned, Hospital Helper, Randall's Island, \$240

per annum. November 12-Foster, Edward, promoted Hospital Helper, Storehouse,

\$180 per annum; certified November 12.

November 5—Garstang, Sarah J., restored to roll and promoted, Pupil Nurse, City Training School, \$144 to \$180 per annum.

November 2—Gillespie, Florence, appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 2.

November 14—Greeves, Wm., reappointed Stoker, Randall's Island, \$2 per day.

November 1—Grindrod, Nora, appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 1.

November 12-Haines, Thomas, dismissed, Stoker, Randall's Island, \$2 per day neglect of duty.

November 1-Hanrahan, Michael, promoted Hospital Helper, Randall's Island,

\$300 to \$360 per annum.

November 1—Hennessy, John, promoted Hospital Helper, Storehouse, \$150 to \$180 per annum; certified November 1.

November 11—Hennessy, John, dismissed, Hospital Helper, Storehouse, \$180 per

annum; overstaying pass.
November 1—Hickey, George, salary reduced, Hospital Helper, Randall's Island, \$480 to \$360 per annum. November 6-Holahan, James, dropped one day, Hospital Helper, Randall's Island;

absence without leave; \$300 per annum. November 13—Holahan, James, dismissed, Hospital Helper, Randall's Island, \$300

per annum; disorderly conduct.

November 10—Ing, William, appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 10.

November 2-Jenkinson, Lillian E., appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 2. November 2—Keane, Lena, dismissed, Hospital Helper, Randall's Island, \$240 per

aunum; insubordination.

November 8-Kelly, Charles, resigned, Hospital Helper, City Training School, \$300 per annum.

November 12—Krenrich, Oscar, dismissed, Hospital Helper, Mechanic, City Hospital, \$720 per annum; intoxication.

November 6—Langan, James, dropped from roll four days (November 6, 7, 8 and 9) Laborer, Randall's Island, \$720 per annum; absence without leave.

November 7—Leonard, John, dismissed, Assistant Cook, Metropolitan Hospital,

\$360 per annum; intoxication.

November 8—Lyons, James, appointed Hospital Helper, Bureau Dependent Adults,
\$240 per annum; certified November 8.

November 7—McKenna, Frank, resigned, Hospital Helper, Storehouse, \$240 per

November 11—Mahoney, Agnes P., appointed Assistant Superintendent, New York City Training School for Nurses, Blackwell's Island, \$1,200 per annum; certified

November 11. November 13-Murphy, Timothy, resigned, Hospital Helper, Randall's Island, \$240 per annum.

November 6—Murray, John H., dropped, Hospital Helper, Randall's Island, \$240 per annum; one day; absence without leave.

November 1—Oakenfull, Edith, reappointed Hospital Helper, Randall's Island,

\$240 per annum.

November 8—O'Brien, Stephen, promoted Hospital Helper, City Hospital, \$120 to \$240 per annum; certified November 8.

November 14—O'Connor, Thomas, reappointed Hospital Helper, Randall's Island,

\$240 per annum.

November 11—O'Neill, Mary, appointed Hospital Helper, Metropolitan Training School, \$300 per annum; certified November 11.

November 1—O'Neill, Robert, promoted Hospital Helper, Randall's Island, \$120 to

\$240 per annum; certified November 1.

November 11—Osmer, John G., reappointed Hospital Helper, Bureau Dependent Adults, \$240 per annum; certified November 11.

November 7—Pielow, Mary, promoted Assistant Cook, City Training School, \$360

to \$480 per annum.

November 5—Price, Margaret, appointed Hospital Helper, Randall's Island, \$240 per annum; certified November 5.

November 7—Sachs, Gustave, dropped, Hospital Helper, City Hospital, \$240 per annum; own request.

November 9-Shroski, Anthony, restored to position as Deckhand, from \$500 per

annum, Steamboats, \$360 per annum.

November 7—Smith, Robert, dismissed Hospital Helper, Storehouse, \$180 per annum; intoxication.

November 14—Touhey, Edward, promoted Hospital Helper, Randall's Island, \$120

November 14—1 cultey, Edward, promoted Hospital Helper, Randan's Island, \$120 to \$240 per annum; certified November 14.

November 12—Wilson, Charles, promoted Hospital Helper, City Hospital, \$120 to \$240 per annum; certified November 12.

November 11—Wilson, James, appointed Hospital Helper, City Training School, \$300 per annum; certified November 11.

November 10—Wunderling, Sophia L., leave granted fourteen days without pay; Hospital Helper, Metropolitan Training School, \$300 per annum.

J. McKEE BORDEN, Secretary. The following proposals of November 13, 1907, were accepted on November 18, 1907: Sam S. Strauss, No. 388 Fifth avenue, Brooklyn for-

N		
7	2,080 pounds carcasses of sheep, at 12 cents, Richmond	\$249 60
1 6 14	William Horn, Stapleton, Staten Island, New York City, for— 900 pounds beefsteak, at 14 cents, Richmond	\$126 00 233 86 75 84
		\$435 70
	Aaron Buchshaum Company No. 165 Amsterdam avenue New York Ci	ty for-

1,920 pounds beef chucks, at 8 cents, Richmond. 25 00 90 00 \$268 60

J. McKEE BORDEN, Secretary. Department of Public Charities, Foot of East Twenty-sixth Street, New York, November 12, 1907.

JAMES TREGARTHEN SON & CO., Foot of Seventh Street, East River, City Dear Sirs—Your proposition of November 8, 1907, to make the following additional repairs to boilers of steamer "Thos. S. Brennan" for the sum of six hundred and thirty-five dollars (\$635), as follows: Work subsequently ordered by United States

Inspector

Inspector:

One hard patch, 48-inch by 22-inch, on shell of one boiler.

One hard patch, 24-inch by 16-inch, on the flue head of boiler.

Re-enforce the plates accommodating the two croton cocks with two 14-bolt patches, increase the hole of valves to 34-inch diameter and reconnect valves.

To accomplish this work you will block up the boilers, put two straps on each saddle with holes in them, restore the saddles and put in the needed holes and put boilers back in place; also put new bedding, 9-foot by 9-foot, of fire brick under each ash pan; repair the boiler keelsons under boilers where defective, take up old wood flooring under boilers and renew same with new flooring about 10-foot by 10-foot under each boiler and furnish and put down new air cell asbestos sheets 1-inch thick on top

of wood flooring; all work to be done in good workmanlike manner.

(This is accepted with the understanding that all labor and material are to be charged at regular rates and keep careful account of same.)

—is accepted, as above specified, and you are hereby directed to proceed with the

By direction of the Commissioner.

Respectfully yours,
J. McKEE BORDEN, Secretary.

Department of Public Charities, Foot of East Twenty-sixth Street, New York, November 12, 1907.

Mr. WM. C. MEINCH, Schweickert Building, West Sixth Street, Coney Island: Dear Sir-Your proposition of November 8 to do extra wiring and fixtures ac-

Dear Sir—Your proposition of November 8 to do extra wiring and fixtures according to specification and letter of Department of Water Supply, Gas and Electricity, dated November I, signed by Chief Engineer of Light and Power, C. F. Lacombe, at the Coney Island Reception Hospital Building, for the sum of \$70, with the understanding that Mr. Louis Stauch is to pay half of this amount, is accepted, as above specified, and you are hereby directed to proceed with the work.

By direction of the Commissioner.

Respectfully yours,

J. McKEE BORDEN, Secretary.

	following											
The 80 pound	Fleischma ls of yeast,	nn Comp. at \$0.25	any, per 1	No. 701 pound	Was	hingto	n St	reet, N	lew 	York	City, fo	or— o oo

Department of Public Charities, Foot of East Twenty-sixth Street, New York, November 14, 1907.

Mr. GEORGE V. COOPER, No. 1570 Broadway, City:

Dear Sir—Your proposition of November 12, 1907, to furnish all labor and material necessary to complete repairs at the Morgue building, Twenty-sixth street, East river,

Replace damaged wiring and brackets in dissecting room.

Install new gas and electric globes with holders complete where necessary, approximately seven dozen.

Replace broken porcelain reflectors on chandeliers in dissecting room. Remove old chandelier from dome of building.

All for the sum of sixty-eight dollars and seventy cents (\$68.70).

-is accepted, as above specified, and you are hereby directed to proceed with the work.

By direction of the Commissioner.

Respectfully yours,
J. McKEE BORDEN, Secretary.

No. 256 Willoughby Street, Borough of Brooklyn, November 12, 1907.

Description of unknown man from foot of Forty-fifth street-Age, about 40 years; height, 5 feet 7 inches; weight, about 160 pounds; color, white; eyes, missing; hair, brown; mustache, none; beard, none; teeth, good. Clothing: Black diagonal sack coat, no vest, gray and black striped trousers, blue negligee shirt, gray woolen underwear, blue cotton socks, black laced shoes, size 8. Condition of body, bad. P. Maguire, Superintendent.

Morgue, Foot of East Twenty-sixth Street, New York, November 17, 1907.

Description of unknown man from No. 33 Market street—Age, about 30 years; height, 5 feet 9 inches; weight, about 145 pounds; color, white; eyes, blue; hair, light brown; good teeth. Clothing: Wore a gray sack coat, black stripes, name on tag in pocket (John Sheehan); gray mixed goods vest and one figured fancy vest, black and gray striped pants, white suspenders, purple stripes; light blue shirt, halbriggan underwear, black cotton socks, black laced shoes, black derby hat, maker's name (Decker Bros., Clinton street), white striped shirt in parcel. Condition of body, good. Remarks: First joint of middle finger of left hand missing, old ulcers on right shin. No. 7526. Coroner Acritelli. Geo. W. Meeks, Superintendent.

Morgue, Foot of East Twenty-sixth Street, New York, November 15, 1907.

Description of unknown woman from No. 172 Henry street—Age, about 60 years; height, 5 feet 5 inches; weight, about 130 pounds; color, white; eyes, blue; hair, brown and gray (mixed); all upper front teeth missing. Clothing: Long brown coat, black serge jacket and blue serge jacket, white striped shirt waist, two black skirts and one gray skirt and one gray check skirt, green and white check petticoat, white chemise, blue and white check apron, black belt, black cotton stockings, black laced shoes (men's) (Blyn Bros. make), light brown round cap, white handkerchief, pair of spectacles; address found in pocket of Mr. Ray, No. 256 Madison street. Condition of body, good. Remarks: Old scar on forehead, ulcers on left shin. No. 7524. Coroner Acritelli. Geo. W. Meeks, Superintendent.

Morgue, Foot of East Twenty-sixth Street, New York, November 15, 1907.

Description of unknown man from hallway, No. 2306 Second avenue-Age, about Description of tinknown man from hallway, No. 2306 Second avenue—Age, about 45 years; height, 5 feet 5 inches; weight, about 135 pounds; color, white; eyes, brown; hair, dark brown; mustache, brown and gray (mixed); beard, brown and gray (mixed); good teeth. Clothing: Wore a black cheviot double-breasted sack coat and blue serge sack coat, vest and pants and one pair of dark gray pants, white and black check shirt, no underwear, black socks, black laced shoes, black derby hat, with initials E. F. H. perforated in sweatband of hat. Remarks: Old scar on left side of forehead. No. 7523. Coroner Acritelli. Geo. W. Meeks, Superintendent.

Foot of East Twenty-sixth Street, New York, November 11, 1907.

Description of unknown man from Central Park, opposite One Hundred and Fourth street—Age, about 65 years; height, 5 feet 8½ inches; weight, about 150 pounds; color, white; eyes, blue; hair, gray; mustache, black and gray; part of upper front teeth missing. Clothing: Wore a black cheviot sack coat, tag marked Brill Bros.; black cheviot vest and pants, white shirt, black stripes; white linen turnover collar, gray underwear, brown cotton socks, black laced shoes, black derby hat. Condition of body, good. No. 7520. Coroner Acritelli. Geo. W. Meeks, Superintendent.

DEPARTMENT OF STREET CLEANING.

An abstract of the transactions of the Department of Street Cleaning of The City of New York for the week ending September 29, 1907. (Section 1546, Greater New York Charter.)

BOROUGHS OF MANHATTAN AND THE BRONX. Removal of Incumbrances

(Section 545, Greater New York Charter.)		
Unredeemed incumbrances on hand September 22, 1907	962 74	7.026
Incumbrances redeemed	122 I	1,030
		123

Moneys Transmitted to the City Chamberlain

Incumbrances remaining on hand September 28, 1907...... 913

35 00 270 40 61 00

moneys Transmitted to the City Chamberlain.	
For privilege of trimming scows and at dumps, week ending Septem-	
ber 14 For privilege of trimming scows and at dumps, week ending Septem-	\$200 00
ber 21, 1907 For privilege of trimming scows and at dumps, week ending Septem-	200 00
ber 14, 1907	2,112 79
For privilege of trimming scows and at dumps, week ending September 21, 1907	2,112 70
For certain privileges at Clinton street dump, week ending September 14, 1907	35 00
For certain privileges at Clinton street dump, week ending September	35 00

For redemption of incumbrances, week ending September 14, 1907.... For redemption of incumbrances, week ending September 21, 1907....

Bills and Payrolls Transmitted to the Comptroller.

No.		Amount	
348.	Sundries	\$18,372 43	
349.	Sundries	4,105 77	,
350. 342.	J. H. Timmerman, City Paymaster, wages of employees on	9,893 24	
343.	steam dumpers, week ending September 22	205 24	
	erators, week ending September 22	101 50)
344.	J. H. Timmerman, City Paymaster, salaries of clerical force	4,998 32	2
345.	J. H. Timmerman, City Paymaster, salaries of Auto Enginemen	900 00	,
346.	J. H. Timmerman, City Paymaster, salary of Commissioners	3,020 82	2
347. 352.	J. H. Timmerman, City Paymaster, salary of uniformed force. J. H. Timmerman, City Paymaster, wages of Sweepers, etc.,	17,034 35	-
353.	week ending September 26, 1907	34,591 62	
	Drivers, week ending September 26	18,101 07	

Contracts Executed.

September 26—Fiss, Doerr & Carroll Horse Company, No. 153 East Twenty-fourth street, 100 draught horses, Borough of Brooklyn, at \$325 per horse.

September 26—The Smith-Worthington Company, No. 40 Warren street, 150 sets single cart harness, Manhattan and The Bronx, at \$20.48 per set.

September 26—Chas. Hvass & Co., Nos. 509 and 511 East Eighteenth street, 50 sweeping machines, Manhattan, The Bronx and Brooklyn, \$287.50 each.

September 26—W. P. Youngs & Bros., Thirty-fifth street and First avenue, lumber for Manhattan, The Bronx and Brooklyn, Classes I. and II., \$4,136.96.

Number of loads of material collected during the week September 23 to 20.

Number of loads of material collected during the week September 1907, inclusive:	er 23 to 29,
Ashes	28,4473/4
Rubbish	4,195 ¹ / ₄ 5,058 ¹ / ₄
Garbage	5,0581/4
Total	37,7011/4

BOROUGH OF BROOKLYN.

Moneys Transmitted to the City Chamberlain. For privilege of trimming at incinerator, week ending September 14.. For privilege of trimming at incinerator, week ending September 21.. \$20 00 125 00

Bills and Payrolls Transmitted to the Comptroller.

No.		Amount
221.	Sundries	\$2,757 15
222.		959 80
	month of September	2,054 16
	month of September	100 00
220.	month of September	8,525 71
223.	J. H. Timmerman, City Paymaster, wages of Sweepers, etc., week ending September 26	13,521 71
224.	J. H. Timmerman, City Paymaster, wages of Department Cart Drivers, week ending September 26	10,456 14

Number of loads of material collected during week of September 23 to 29, Ashes
Paper and rubbish
Permit material

W. BENSEL, Commissioner.

BOROUGH OF RICHMOND.

LOCAL BOARD OF THE STATEN ISLAND DISTRICT.

Meeting November 12, 1907, 10.30 a. m. Present—Aldermen Collins, Rendt and Cole, President Cromwell. The minutes of the meeting of October 29, 1907, were approved.

Petition No. 700.

To construct a sewer system in Concord, Ward 4. First hearing. Referred to the Commissioner of Public Works in connection with plan for Sewer District 3.

Petition No. 781.

To construct sanitary sewer in Richmond turnpike, from Louis street to Eddy street, Wards 1 and 2. First hearing. Referred to the Commissioner of Public

Petition No. 782.

To construct sewer in Winant street, Ward 3. First hearing. Referred to the Commissioner of Public Works.

Petition No. 783.

To construct storm water sewer in Green's Field and Henry street, Ward 1. First hearing. Referred to the Commissioner of Public Works.

Petition No. 714.

To construct sewer in First avenue, Ward 1. First hearing. Referred to the Commissioner of Public Works.

Petition No. 785.

To open Highland avenue, from Amboy road to Boulevard, Ward 4. First hearing. Referred to the Commissioner of Public Works.

Petition No. 786.

To pave, gutter and curb Crescent avenue, from Jersey street to Low terrace, Ward r. First hearing. Referred to the Commissioner of Public Works. On motion, the Board adjourned.

MAYBURY FLEMING, Secretary.

DEPARTMENT OF HEALTH.

REPORT FOR THE YEAR ENDING DECEMBER 31, 1906.

Report of the Board of Health to His Honor the Mayor Regarding the Operations of the Department of Health of The City of New York During the Year Ending December 31, 1906.

The Board of Health respectfully submits the following report of the various operations of the Department of Health for the year ending December 31, 1906:

There were 111,722 births reported during the year, as against 103,881 reported in 1905. An increase was also noted in the number of marriages, 48,355 being reported as against 42,675 in 1905.

The death rate has been slightly higher than during the preceding year, 76,203 deaths being reported, an increase of 2,489 over the year 1905. On the whole, however, the death rate of the old City of New York (present boroughs of Manhattan and The Bronx) has shown a decrease of 46.70, as compared with the death rate of the old City of New York in 1866, when the Board of Health was first organized.

There has been a decrease in the death rate from typhoid fever, small pox and the

diarrhoeal diseases of children. Particular attention is called to this last fact, as there was an actual decrease of 126 deaths from this cause, notwithstanding the increase in the total population. The result is undoubtedly due to a great extent to the efforts of the Department of Health in the line of education of the mothers as to proper methods of infant feeding.

There has been an increase in the death rate from broncho-pneumonia. This is

There has been an increase in the death rate from broncho-pneumonia. This is due undoubtedly to the fact that broncho-pneumonia is a common sequellae of measles, and 1906 was a so-called measles year, 40,000 cases being reported against 20,000 during 1905. 8,955 deaths were reported from pulmonary tuberculosis, giving a death rate of 2.16 per 1,000, against 8,335 deaths and a death rate of 2.12 for 1905. Although this increase is a small one, it shows the necessity of persistent attention to this disease by the Board of Health. Not only should the present municipal sanatorium at Otisville be enlarged, but additional sanatoria and hospitals should be erected by the City, affording a means of early diagnosis of the disease, and consequent hope of recovery for those patients unable to pay for medical care.

The death rate from epidemic cerebro-spinal meningitis has materially decreased, showing that the epidemic of the two previous winters has terminated. As a result,

showing that the epidemic of the two previous winters has terminated. As a result, a decrease is shown from the diseases classified under the general term of nervous

Particular attention should be directed to the increase in the death rate from diseases of the heart and kidneys. This increase has not been confined alone to The City of New York, but is general in the large centres of population throughout the country. For the period from 1869 to 1878, the combined average death rate from these diseases in New York City was 17.13 per 10,000, while during 1906 the rate had increased to 27.34. The prevalence of influenza undoubtedly has contributed to this increase, but the most marked contributory causes are those pertaining to the overactivity of city life. activity of city life.

Sanitary Bureau.

The number of inspections and reinspections of the Sanitary Bureau shows a steady increase over the preceding years, as may be seen from the following table: 1904 1,595,244

Twenty-seven thousand seven hundred and seventy-nine orders were issued for the abatement of nuisances. Of the total complaints investigated, 45,911 were received from citizens, the remainder being taken up on the initiative of the Inspectors.

Complaints cared for by the Sanitary Inspectors cover a wide field, including defective drainage and ventilation, lack of water supply, overcrowding of lodging houses and workshops, noises, smoke, and various violations of the labor law. The city is divided into districts, and in addition to investigating individual complaints, the Inspectors are held responsible for the sanitary condition of their districts.

The smoke nuisance from large manufacturing plants and from locomotives enter-

The smoke nuisance from large manufacturing plants and from locomotives entering the Borough of Manhattan has been materially reduced. The completion of the plan for the installation of electric locomotives on the New York Central and New York, New Haven and Hartford Railroads would mean a complete abatement of this nuisance. During the year the Sanitary Code was altered by amending the section relating to the discharge of smoke, making it broader in its scope, so that it may entirely cover the smoke nuisance. cover the smoke nuisance.

During the year there were several explosions caused by the leakage of gasoline into the city sewers from garages where automobiles were stored and repaired. Immediate action was taken in this matter, with the result that since the middle of May there has been no evidence of the escape of gasoline into the public sewers, and the Department has received no complaints regarding it.

Lodging Houses.

The Sanitary Code prescribes that for all lodging houses containing rooms in which there are more than three beds for the use of lodgers, or in which more than six persons are allowed to sleep, a permit from the Board of Health shall be required. There are about 102 lodging houses in the city, and during the past year the total number of lodgings was 17,978.

Although the Charter of The City of New York provides that inspection of lodging houses must be made at least twice a year, it has been found advisable to detail one Inspector solely to this duty, with the result that there have been 2,764 inspections made, an average of 27 to each lodging house. This has resulted in materially improving the sanitary condition of these places.

Child Labor Law.

In the enforcement of this law, an average of 500 inspections have been made each week. Particular care has been taken in guarding against the violation of this law in the large department stores and the telegraph and messenger service, particularly in the weeks immediately preceding the midwinter holidays. Out of 36,590 inspections made of mercantile establishments, violations of this law were found only in 3½ per cent. of the cases. A new feature of this law which went into effect on October 1, 1906, included the provision that "in cities of the first class, no child under the age of sixteen years would be employed, permitted or suffered to work in or in connection with any such establishment after 7 o'clock in the evening of any day." This section of the law has met with almost universal compliance.

Health Squad.

The Health Squad has been maintained at a high standard of efficiency, and has materially assisted in the abatement of nuisances and enforcement of Board orders.

A total of 3,006 arrests were made by this squad during the year for violations of the Sanitary Code.

Food Inspection.

During the year 18,276,385 pounds of fruit, food and fish were condemned and destroyed, a decided increase in amount over the preceding year.

In addition to the working force assigned to the inspection of meat in slaughter houses, the inspection of markets and retail butcher shops has made possible more vigorous enforcement of the law in regard to the sale of putrid and tainted meat. During the year 1906, 1,526,239 pounds of meat were condemned and destroyed, an increase of over 300,000 pounds over the amount condemned during the year 1905.

The inspection of creameries shipping milk to the city has been carried on even more systematically than during the previous year. Unsanitary conditions have been remedied by the proprietors, and practically all of the creameries are now in good sanitary condition. Although the Board of Health has no direct authority to compel the owners of these places to make any change in their equipment or methods of handling milk and cream, it has the power to prevent the sale of milk in the city when

there is reason to believe that it is produced or handled in unsanitary surroundings. The effect of this prohibition has been an incentive for the creameries, farms and dairies to observe the rules and regulations of the Department pertaining to this

Early in 1906 it was decided to extend the inspection work of the Department to cover the sanitary supervision of farms and dairies supplying milk to the creameries. This work has been performed as thoroughly as consistent with the limited number of Inspectors assigned to this duty. At present only fifteen Inspectors are detailed to this work, and it is practically impossible for them to cover the entire territory supplying milk to New York City. This territory includes some portion of six States, and there are over forty thousand of the farms and dairies. This plan is an important advance in the work of safeguarding the milk supply, and the results so far obtained have been most satisfactory. have been most satisfactory.

Although the milk supply of New York City is in a purer and cleaner condition than it has ever been before, in order to make it really effective, the staff of Inspectors

should be materially increased.

During the year 708 creameries and 11,000 farms and dairies were inspected. The system of inspection includes the careful observation of the milk from the time it leaves the farm until it reaches the consumer.

In the city systematic inspection is made of all shops where milk is sold, and the rules and regulations of the Sanitary Code are strictly enforced. During the year 131,150 inspections were made, 138,729 specimens examined, 41,395 quarts of milk destroyed, and 678 arrests made for violations of the Sanitary Code in regard to milk.

Slaughter Houses.

Persistent and continuous oversight of the slaughter houses has been maintained for the purpose of keeping these places in a sanitary condition, and preventing the sale of unfit meat. 432,540 cattle, I,613,385 sheep, 954,141 hogs, 294,921 calves—a grand total of 3,294,987 animals—were slaughtered in the city during the year. On account of the careful inspection and watchfulness maintained by this Department, the bi-products, consisting of fat, blood and offal, were treated and disposed of on the premises without being productive of any nuisance.

Immigration.

During the month of May, 1906, a new form of contract was executed with the United States Government, through the Commissioner of Immigration of the Port of United States Government, through the Commissioner of Immigration of the Port of New York, for the care and treatment of immigrants sick with contagious diseases, and removed to the hospitals of this Department. Compensation at the rate of \$2 a day for each person, and \$14 as the cost of burial of each immigrant who dies, has brought in a total revenue to the Department of \$85,266. The new feature of this contract includes the transportation by the Department of Health of all patients to and from Ellis Island and the Department hospitals. This service is paid for by the government at the rate of \$2 each way for each person transported. This has proven an additional course of revenue to the amount of \$1.214 source of revenue to the amount of \$1,314.

Pension Fund.

The income from searches and transcripts of births, marriages and deaths has amounted to \$21,424.70. This, added to the fines and penalties and interest on money invested, has made a total addition of \$57,222.40 to the pension fund. The total disbursements for the year were \$21,205.24, making the pension fund at the close of the year, \$244,028.97. Four new pensions were granted during the year, and two pensioners who were on the roll died.

BUILDING OPERATIONS.

BOROUGH OF MANHATTAN.

Willard Parker Hospital.

Cold storage building erected. Animal house erected. Temporary boiler house erected. Administration building completed.

Alterations

New Buildings-

Main building entirely remodeled.

Old boiler house remodeled.

Upper part of disinfecting station remodeled into a dormitory for help.

New stalls erected in stable of ambulance station.

Contracts executed for: New dormitory building.

Refrigerating plant.

North Brother Island.

Completed-Two isolation buildings.

Alterations-

Old coal house altered into a waiting room and discharge room for patients. Additional boiler installed in boiler house.

Work in progress increasing area of the island.

Contracts executed for repainting of buildings. Bronx Office.

New office building provided at an annual rental of \$2,000.

Alteration of rooms for use as tuberculosis clinic.

Westchester Property.

Plans accepted in connection with a vaccine station. Laboratory building. Stable. Boiler house.

Dwelling.

BOROUGH OF BROOKLYN.

Kingston Avenue Hospital.

New morgue building being erected. Area walls built around the storehouse and laundry building. Pipe gallery constructed. Addition to stable completed. Two additional boilers installed.

Contracts executed for: Area walls.

Incinerator building. Pipe system. Morgue building. Measles pavilion. Extension to Nurses' Home.

Plans received for: Measles building.

Plans completed for: Extension to Nurses' Home.

Brooklyn Office.

Site obtained and plans drawn for new office building.

Otisville Sanatorium.

New Buildings— Dining pavilion. One-story shack.

Two-story shack.
Six portable houses.
Old building renovated, painted and repaired.

Work in progress on water supply and drainage system.

Contracts executed for:

Cow stable. Dairy.

Storehouses.

The storehouse system having proved practical, a storehouse has been established at the tuberculosis sanatorium at Otisville. Notwithstanding the isolated location of this sanatorium, and the conditions encountered in securing the services of competent help, the storehouse system has been most successful.

Diphtheria Antitoxin.

New grades and prices in antitoxin have been instituted and a method perfected whereby antitoxin is prepared for use in syringe containers.

Steamboat "Riverside."

The steamboat "Riverside" has been delivered to the Department, and is now in commission. This boat, which is used for the transportation of patients ill with contagious diseases, has been built with that purpose in view, and has separate wards

and rooms for convalescents, doctors and nurses.

The launch "Pelham," used for conveying passengers and visitors between the Riverside Hospital and the Department dock, has also been put in commission.

Otisville.

Title to property at Otisville, upon which it had been decided to establish a tuber-culosis sanatorium, was obtained by the city early in the year. An outline and complete topographical map of the property has been made, and the installation of water supply and drainage system has been begun. Plans have been prepared for the alteration of existing buildings to render them suitable for occupancy, for shacks or dormitories for patients, and for a cow stable and dairy building. Contracts have been made for the construction of two shacks, a dining hall, cow stable and dairy building, and for the delivery of trees lumber, cement, pine fittings, drains, wooden tanks and horses. the delivery of trees, lumber, cement, pipe fittings, drains, wooden tanks and horses. A storehouse has been established. The site and buildings have been generally improved, and a working force, including Physicians, Nurses, Orderlies and domestic servants has been organized. The first patients were received on July 15, 1906.

Not only is the opening of the Otisville Sanatorium thoroughly justified, but it undoubtedly will be found inadequate to accommodate the number of patients needing

treatment. Extended facilities should be supplied by the City, so that all indigent cases may be seen and cared for early in the progress of their disease, making recovery possible, and the probability of spreading the disease unlikely.

Riverside Sanatorium.

The capacity of this institution is now 116 beds, an increase of 36 beds since 1905. Even with these enlarged facilities, there is constantly a waiting list of patients ready to enter this institution.

Stereopticon Picture Exhibition.

In order to extend the work of popular education on the subject of tuberculosis, stereopticon exhibitions were given in twenty-three of the public parks of Manhattan during the summer of 1906. Various pictures of general interest were shown, interspersed with pictures relating to tuberculosis, and short pithy sayings in regard to the prevention and care of the disease. These exhibitions have been so successful that it is hoped to extend their scope during the following year.

The work of the clinic for the treatment of communicable pulmonary diseases had steadily broadened and progressed. It has served as a model for similar institutions elsewhere, and has thoroughly justified its establishment.

Similar clinics were established during the year in the Borough of The Bronx and the Borough of Brooklyn.

During the year 21,197 patients were treated, with an average daily attendance

of 70.

The distribution of extra diet in the form of milk and eggs has been continued

and has given satisfactory results.

Since the opening of the sanatorium for tubercular patients at Otisville, all applicants have been examined at the clinic, and a Medical Inspector has been detailed to conduct each party of patients to the sanatorium.

Tuberculosis.

Almost 2,000 fewer cases were reported during 1906 than during 1905, a fact rendered more striking when it is realized that the reporting of these cases is adhered to by physicians more faithfully each year.

Cerebro-Spinal Meningitis.

Less than one-half as many cases of this disease occurred during 1906 as during 1905, the death rate being reduced from 5.03 to 1.94. During the year these cases have been under strict sanitary supervision.

Division of Contagious Diseases.

Fewer cases of small pox, scarlet fever, diphtheria, croup and varicella were reported than during the year 1905. Measles showed a decided increase, it being a so-called measles year.

Medical Inspection and Examination of School Children.

During the year 1906 the regular routine work of excluding from school attendance children ill with contagious diseases has been carried on, with the result that 12,895 children were excluded. This number was nearly 60,000 less than during 1903. This enormous decrease in the number of children excluded is due to the fact that minor contagious ailments are now treated in the schools by the Nurses, and the contagion held in check, thereby making it perfectly safe for children to associate with their schoolmates. This system has been a great aid in the educational advancement of the child, as practically no time is lost from school work, and the personal efforts of the Nurses, in not only treating these children at school, but in visiting at their homes and seeing that the treatment is persistently carried on, has been an invariable aid in promoting hygienic conditions and personal cleanliness.

The Nurses of this division have done much of the routine of the inspection of the school children, formerly a part of the doctor's duty. Medical Inspectors have

the school children, formerly a part of the doctor's duty. Medical Inspectors have devoted this extra time to giving a complete physical examination of the children. During the year 79,203 children were examined, and it was found that 56,259 showed some mental or physical defect. When any abnormality is found to exist, a postal card is sent to the parents of the child, telling them of this fact, and advising them to take the child to a physician or dispensary for treatment. A return postal card is attached, with the request that the attending physician fill this out and mail it to the Department. It is thus possible to keep in touch with the disposition of the case, and the number of these cards received has been most gratifying, as showing a tendency on the part of the parents to care for their children and have their defects remedied as soon as the matter is brought to their attention.

There are at present fifty-three Nurses assigned to duty in the work of medical There are at present hity-three Nurses assigned to duty in the work of medical inspection of school children, and caring for cases of contagious disease. The work has been pursued along the same lines instituted in 1905, and the results have been most satisfactory.

The school Nurses have made particular effort to see that all children with defective eyesight have been supplied with glasses, and this result has often been accomplished only as the result of great personal expenditure of time and effort.

Children with other physical defects have been taken by the Nurses to physicians or dispensaries when it has seemed evident that the parents were too busy to do so themselves.

The work of the Nurses assigned to duty in the care of contagious diseases has undoubtedly resulted in less fear among the more ignorant population as to the effects of having the case reported to the Department of Health. Isolation is more easily maintained, and the patient's chances for recovery heightened, in instances where the Nurses assist in the care of the case.

Ophthalmological Work.

For the treatment of trachoma, the Department of Health has at its disposal a hospital of twenty beds, situated at One Hundred and Eighteenth street and Pleasant avenue, and a dispensary situated at Gouverneur Slip.

The medical staff assigned to this work consists of eight physicians, all of whom are qualified oculists. The number of cases of trachoma treated by operation during 1906 was 1,385, or 3,000 less than during 1903. The number of treatments given, however, were 187,717, an increase of over 40,000 over the number during 1903. These figures show that, although the number of cases of trachoma has not materially decreased, the type of case is much improved, as those requiring operation are few in number, regular treatment curing the type now encountered. number, regular treatment curing the type now encountered.

Sanitary Bureau.

The following is a condensed summary of the amount of work performed by the Sanitary Bureau during the year 1906: Number of inspections and reinspections.

Number of complaints forwarded for orders.

Number of inspections of mercantile establishments. Number of nuisances abated by personal effort by the Sanitary Squad 6,160 Number of specimens of urine examined for typhoid fever reaction, Diazo.. Number of specimens of blood examined for malarial organisms........ 1,220 Number of chemical analyses..... 13,022 Number of milk inspections (year 1905, 104.794)

Number of specimens of milk examined

Number of quarts of adulterated milk destroyed

Number of milk inspections outside City of New York 131,150 138,729 41,395 Amount of fines for violations of milk ordinances......\$13,045 00 Number of Contagious Diseases Reported-Year 1905.
Year 1906.
Number of Communicable Diseases Reported—
Year 1905.
Year 1906. 70,604 Number of Patients Treated at-Reception Hospital
*Willard Parker Hospital
Riverside Hospital
Kingston Avenue Hospital 988

*Hospital closed from June 17, 1905, to March 14, 1906.

3,078

The following is a report of the work performed in the office of the Secretary for the year ending December 31, 1906, as accomplished under the Chief and Auditing Clerk of the Department of Health and the Assistant Chief Clerks assigned to duty in the various boroughs of the City:

Chief Clerk.

Report of the work performed in the office of the Chief Clerk during the year 1906, subdivided into classes established so that proper supervision can be at all times maintained, and thus controlling the organization of this branch of the service:

Finances of the Department.

The following appropriations were approved by the Board of Estimate and Apportionment for the support and maintenance of the Department of Health during the year 1906, as follows:

Statement of Appropriations.

Title.	*	Amount.
Salaries—		
Board of Health and Executive Officers		\$53,557 00
Officers, Clerks, Inspectors and other employees	S	590,815 00
Supplies and Contingencies		44,073 00
Hospital Fund (excluding payments to private hosp	oitals)	170,871 66
Disinfection		68,050 00
Bacteriological Laboratory		63,850 00
Salaries—Medical School Inspection		159,000 00
Abatement of Nuisances		1,600 00
Support of Ambulance Service		28,100 00
Removal of Night Soil, Offal and Dead Animals		69,880 00
Sanitary Police		94,600 00
Total		\$1,344,396 66

Statement of Revenue Bond Funds and Corporate Stock issued during the year for the purposes specified, and to also provide for lack of funds, caused by the insufficiency of appropriations:

	Revenue Bond Funds Issued.		
Jan. 12, 1906.	Supplies, etc., Tuberculosis Sanatorium	\$70,000 00	
Feb. 2, 1906.	Salaries for Nurses	10,000 00	
Mar. 16, 1906.	Salaries for Nurses	45,000 00	
July 6, 1906.	Salaries for Nurses	2,437 50	
Feb. 2, 1906.	Antitoxin	22,000 00	
Feb. 2, 1906.	Drug Laboratory	10,000 00	
Feb. 2, 1906.	Tuberculosis Clinic	10,000 00	
Feb. 2, 1906.	Medical Commission (pneumonia)	10,000 00	
Feb. 2, 1906.	Medical Commission (meningitis)	5,000 00	
Mar. 16, 1906.	Trachoma Hospital	25,000 00	
May 11, 1906.	Salary, Bacteriological Laboratory	20,000 00	
May 11, 1906.	Salary, Officers, Clerks, Inspectors, etc	165,000 00	
July 6, 1906.	Salary, Officers, Clerks, Inspectors, etc	18,900 00	
July 6, 1906.	Salary, Officers, Clerks, Inspectors, etc	7,200 00	
May 11, 1006.	Hospital Fund	20,000 00	
May 11, 1906.	Supplies and Contingencies	40,000 00	
May 11, 1906.	Disinfection	10,000 00	
May 11, 1006.	Summer Corps	31,000 00	
Tuly 6, 1906.	Reindexing, etc	5,000 00	
July 6, 1906.	Salary, Medical School Inspectors	11,000 00	
Nov. 23, 1906.	Salaries	38,720 00	
100000000000000000000000000000000000000		-	

Corporate Stock. Sept. 14, 1906. Sites and Buildings, Tuberculosis Sanatorium...... \$225,000 00

The annual estimate of the amounts required for the maintenance of the Department during 1907 was prepared during July and August, and presented to the Board of Estimate and Apportionment on August 15, 1906, the date requested.

After strict examination by representatives of the Comptroller, and by a Committee of the Citizen's Union, who each made an exhaustive investigation into, and a report upon, the records of this office, the sum of \$1,847.819.66 was allowed and included in the Budget for 1907, as against \$1,344,396.66 allowed in the Budget for 1906, an increase of \$503,423.

The methods of accounting and the condition of the accounts were pronounced to be excellent by the investigators.

Comparative Statement of the Moneys Received Through the Various Financial Resources of the Department of Health During the Period from 1902 to 1906,

Appropriation.	Bond Issue.	Sales of Laboratory Products.	Care and Maintenance of Immigrants.	Total.
\$984,391 .48	\$24,2,662 50	\$32,048 13	\$35,272 00	\$1,294,374 11
1,034,391 48	230,600 00	21,432 91	33,726 00	1,320,150 39
1,109,391 48	429,458 00	28,353 61	24,256 00	1,591,459 09
1,259,391 48	422,397 88	32,368 32	47,546 00	1,761,703 68
1,344,396 66	576,257 50	25,638 08	86,580 00	2,032,872 24
	\$984,391 48 1,034,391 48 1,109,391 48 1,259,391 48	\$984,391 48 \$242,662 50 1,034,391 48 230,600 00 1,109,391 48 429,458 00 1,259,391 48 422,397 88	Appropriation. Bond Issue. Laboratory Products. \$984,391 48 \$242,662 50 \$32,048 13 1,034,391 48 230,600 00 21,432 91 1,109,391 48 429,458 00 28,353 61 1,259,391 48 422,397 88 32,368 32	Appropriation. Bond Issue. Laboratory Products. Maintenance of Immigrants. \$984,391 48 \$242,662 50 \$32,048 13 \$35,272 00 1,034,391 48 230,600 00 21,432 91 33,726 00 1,109,391 48 429,458 00 28,353 61 24,256 00 1,259,391 48 422,397 88 32,368 32 47,546 00

Comparative Statement of All Moneys Expended for Salaries by the Department of Health in All Its Branches.

Year.	Expended	l.	Number of Employees.	mber of
1902	\$1,294,374	11	1,120	325
1903	1,320,150	39	1,196	340
1904	1,591,459	09	1,270	368
1905	1,761,703	68	1,474	380
1906	2,032,872	24	1,710	447

In connection with the payment of carfare bills, telephone calls, and other incidental expenses contracted by the various employees of the Department in the transaction of official business, it was the previous custom of the Chief Clerk of the transaction of official business, it was the previous custom of the Chief Clerk of the Department to deposit checks received from the Department of Finance for vouchers submitted with claims, to the credit of his personal bank account, and to draw checks to individuals in payment against same so that a permanent receipt could be filed in this office. For the purpose of eliminating any opportunity for adverse criticism and the necessity for the drawing of personal checks in the official financial transactions of this office, a bank account was established with the Van Norden Trust Company, corner Fifth avenue and Sixtieth street, New York City, in the name of the Department of Health, City of New York, by James McC. Miller, Chief Clerk, on December 16, 1905, which has proved a more practical way of maintaining a proper official record of such transactions.

During the month of May, 1906, a new form of contract was executed with the United States Government through the Commissioner of Immigration at the Port of New York, for the care and treatment of immigrants sick with contagious diseases, for one year, from July 1, 1906, to June 30, 1907, in the hospitals of the Department, with compensation at the rate of \$2 per day for each patient, and for the burial of such immigrants as may die and are buried by the Department, the sum of \$14 for each and every burial, which was a source of revenue to the amount of \$85,266.

A new feature of this contract was the agreement of this Department to furnish

A new feature of this contract was the agreement of this Department to furnish comfortable and suitable ambulance transportation for such immigrants at the rate of \$2 each way for every person transported to and from the locations designated, which proved an additional source of revenue to the amount of \$1,314, making a grand total of the sum of \$86,580 received for this purpose, which was applied to the Hospital

Fund for the year 1906. During the year 1906 the Board of Health, pursuant to section 1197 of the Greater New York Charter, ordered the Chief Clerk of the Department of Health to execute a contract for work necessary to be done to abate nuisances existing on certain premium the charges therefor a lieu upon said property for the reason that the ises, making the charges therefor a lien upon said property, for the reason that the terms of the orders remained uncomplied with, and no responsible representative could be found in the City from whom to obtain the proper enforcement of said orders.

The premises were:
Nos. 212 and 248 East One Hundred and First street, Manhattan.
Southwest corner of One Hundred and Thirty-fourth street and Park avenue,

Manhattan. Northeast corner of One Hundred and Forty-ninth street and Broadway, Man-

hattan.

Bay and Clinton street, Second Ward, Richmond.

No. 245 East One Hundred and Twenty-seventh street, Manhattan.

A personal inspection was made of each of the above-named premises and the existing nuisances thereat abated without any cost whatsoever to the Department of Health, inasmuch as responsible persons were found who remedied the existing unsanitary condition. Had it been found necessary to enforce the orders of the Board it would have been necessary to expend in the neighborhood of \$1,100 of the appropriation for the abatement of nuisances for the year 1906. This, of course, under the circumstances, can be regarded as a saving to the Department of the amount stated.

Tabulated statement of cash received in the transaction of the business of the Department during 1906, deposited in banks and transmitted to the City Chamberlain or to the Trustees of the Health Department Pension Fund, as follows:

1906.	Care of Immigrants.	Antitox	in.	Vir	us.	To Ci Chamber		Pensi Mone		To Trust of Pensi Fund.	on
January	\$5,844 00	\$1,228	91	\$462	39	\$7,535	30	\$8,891	70	\$8,891	70
February	5,750 00	1,833	07	440	05	8,023	12	3,967	00	3,967	00
March	3,622 00	1,363	25	652	26	5,637	51	3,214	70	3,214	70
April	*******	1,223	35	843	90	2,067	25	3,244	75	3,244	75
May	6,606 00	1,444	27	1,129	54	9,179	81	4,668	91	4,668	91
June	13,478 00	1,457	55	765	29	15,700	84	3,521	50	3,521	50
July	28,520 00	971	63	511	51	30,003	14	5,228	30	5,228	30
August		514	62	462	72	977	34	5,538	24	5,538	24
September	6,206 00	453	82	896	29	7,556	11	2,317	40	2,317	40
October	8,548 00	1,181	29	. 1,065	74	10,795	03	2,295	00	2,295	00
November	4,526 00	3,896	68	712	46	9,135	14	5,963	20	5,963	20
December	3,480 00	1,817	93	309	56	5,607	49	8,371	70	8,371	70
Total	\$86,580 00	\$17,386	37	\$8,251	71	\$112,218	08	\$57,222	40	\$57,222	40

	Sum	mary.	31/10
Received.	-	Disbursed.	- 465
Care of immigrants	\$86,580 00	To Chamberlain	\$112,218 08
Antitoxin	17,386 37	To Trustees of Pension Fund	57,222 40
Virus	8,251 71		
Pension	57,222 40		
Total received	\$169,440 48	Total disbursed	\$169,440 48

All moneys collected by the Department are received in this office. These moneys are derived from the following sources, viz.: The sale of laboratory products; the care, maintenance and transportation of immigrants; and fines and penalties for violations of the Sanitary Code, and transcripts of the records of the Department. The money received for laboratory products and that for the care and maintenance of immigrants is paid over to the City Chamberlain each month, and added to the Department appropriations. The money received for fines and penalties and that from transcripts is added to the Health Department Pension Fund.

Accounts of the Department.

The system of accounting established includes principally the keeping of the following books:

Appropriation Ledger—Showing the various appropriations allowed by the Board of Estimate and Apportionment in the Annual Budget, and such additional sums as may be obtained from the sale of Revenue Bonds and Corporate Stock for the maintenance of the Department; also, liabilities incurred and forwarded to the Department

of Finance for payment.

Liability Books—Showing the estimated and actual expense incurred in each

Liability Books—Showing the estimated and actual expense incurred in each transaction, so that the condition of each account may be determined at any time.

Monthly Balance Book—Showing at the termination of each month the financial condition of all appropriations, Revenue Bond and Corporate Stock accounts.

Payroll Ledgers—One for each borough, recording the name, compensation and time employed of each employee, as indicated by the monthly payroll.

Segregation Ledger—For statistical information, showing amount expended for any class of material or purpose, and the branch of the service incurring the same.

Record of Burial of Deceased Soldiers—Forwarding to Deceased of Finance

Record of Burial of Deceased Soldiers—Forwarding to Department of Finance claims for the burial of deceased honorably discharged veterans.

The above books are not the only accounts kept in this office, but are specified as

those containing a record of the financial transactions of this Department.

Trial balances are made monthly showing the liabilities and assets of the Department, a copy of which is forwarded each month to his Honor the Mayor for his

information.

Systems have been devised and successfully installed in the Stationery Office, the Drug Laboratory and the Storehouse at Otisville, N. Y., which govern the receipt and distribution of supplies in these divisions, and which are now working smoothly and satisfactorily.

A new method of accounting governing the distribution of hydrophobia treatment and laboratory products was put into effect, and many changes in the system controlling the sale of diphtheria antitoxins were made, owing to a change in the style and price of the containers.

The Clerk in charge of the accounting of the distribution of laborary products, Mr. J. W. Stagg, resigned on May 31, his place being taken by Mr. D. A. Mulholland of the general auditing force.

Horse Register.

A horse register was installed, containing a full description of each horse, giving the number, color, age, special marks, where stabled, and work performed, which shows that the Department owns the following horses, distributed as follows:

Antitoxin Stable, Borough of Manhattan	18
Other places, Borough of Manhattan	15
Borough of The Bronx	13
Borough of Brooklyn	24
Borough of Queens	7
Borough of Richmond	2
Tuberculosis Sanatorium, Otisville	25
m-1-1	
Total	104

Typewriter Register.

An inventory was taken of all typewriting machines used in this Department, in the various boroughs, and hereafter a full and complete record of each machine purchased will be kept in this office.

4	Oliver.	Rem- ington.	Under- wood.	Smith Premier.	Royal.	Mon- arch.	Elliott Hatch.
Borough of Manhattan	34	10	15	2	1	1	2
Borough of The Bronx	3	. 4	I		3	1	
Borough of Brooklyn	12	4	1	**	1	1	
Borough of Queens	1.	2					
Borough of Richmond	1	1	1		1		
Otisville	1	1	•••			••	••
Total	52	22	18		6	3	-

Total number of machines used in the Department of Health, 105.

Department Telephones.

The Department telephones are installed in private residences of certain officials and employees to facilitate the transaction of official business of the Department. Those desiring to use the same for personal business are required to pay to the Department the usual rates charged by the telephone company, an account of which is rendered to them each month. It has been found necessary to establish in the various boroughs of the City the following telephones for the transaction of the official tele-

	phonic business of the Department:	
	Borough of Manhattan	45
u	Borough of Brooklyn	
	Borough of The Bronx	15
n	Borough of Queens	. 6
9	Borough of Richmond	5
	m	
	Total telephones installed	99

The bills of the telephone company are rendered monthly, making a charge of the local and foreign calls against each separate telephone. To all persons employed by the Department entitled by reason of the duties of their respective positions to the use of a Department telephone, the following blank is forwarded at the end of each month, and they are required to promptly remit to this office the cost of such bills as were

for personal business and to execute the duplicate affidavits on the reverse side of the blank, enumerating the number of personal calls used during the previous month.

55 B-1906 1707, '06, 5,000 (P)

DEPARTMENT OF HEALTH

CITY OF NEW YORK

OFFICE OF THE CHIEF CLERK

S. W. Corner Fifty-fifth Street and Sixth Avenue Borough of Manhattan

New	York,	190

DEAR SIR:

The telephone company charges the following foreign calls for the month of190.., against the Department telephone..... located at your residence:

TELEPHONE CALLS

AMOUNT

REMARKS

You are requested to promptly remit to this office the cost of such calls as were used for personal business, and to return this letter and the enclosed affidavits properly executed in duplicate, stating the number of personal and official calls used during that

Chief Clerk.

Very respectfully,

STATE OF NEW YORK, CITY OF NEW YORK, COUNTY OF

.....being duly

sworn deposes and says: THAT he holds the position of.....to be used for

THAT he has paid the Department of Health the sum of \$.....cost of the personal calls used by him during the said month of......190...

Subscribed and sworn to before me

the official business of the Department of Health.

this......A. D., 190...

Notary Public......County, or Commissioner of Deeds, New York City.

STATE OF NEW YORK, CITY OF NEW YORK, COUNTY OF.....

.....being duly

sworn deposes and says:

THAT he holds the position of..... the official business of the Department of Health.

THAT during the month of..... 190.. he used said telephone for his own personal business, and that of the total number of calls originating from said telephone......were for personal business, and that the remaining number of calls were for official business of the Department of Health.

THAT he has paid the Department of Health the sum of \$.....cost of the personal calls used by him during the said month of......190..

Subscribed and sworn to before me

............ Notary Public.....County, or Commissioner of Deeds, New York City.

A new record in book form has been installed in which is recorded the name address, telephone number and a record of the local and foreign personal calls paid for monthly by each person using a Department telephone, thus improving the former method of keeping information of this character on sheets of paper which might easily be destroyed or mislaid.

The total amount received from employees for the use of official telephones for private business during the year 1906, was as follows:

	Foreign Calls.	Local Calls.	Total.
Borough of Manhattan	\$191 75	\$475 57	\$667 32
Rorough of The Bronx	47 80	70 28	118 08
Borough of Brooklyn	116 25	72 86	189 11
Borough of Queens	18 60	1 27	19 87
Borough of Richmond	15 80	5 92	21 72
Total	\$390 20	\$625 90	\$1,016 10

Which is periodically deducted from the bills of the telephone company before they are certified to the Comptroller for payment by The City of New York. It will thus be observed that a saving to the Department was effected through this method of the amount above stated.

Auditing of Bills.

Auditing of Bills.

All bills contracted by this Department are rendered in triplicate, stamped with date of receipt by the Division incurring the expense, and certified to the effect that the articles or services enumerated have been received, examined and found correct, and for the exclusive use of this Department, one bill being retained in that office for filing, and two returned to the office of the Chief Clerk, where they are charged against the proper appropriations, one being filed with the requisition, the other forwarded to the Department of Finance for payment, after having been approved by the Board of Health.

Considerable delay in auditing still continues, due to the failure of business concerns to promptly forward the necessary bills which should accompany the delivery of the merchandise. It was the intention to establish during 1906 a new system for the purpose of tracing all bills received and placing the responsibility for any delay which might occur, but owing to the great increase in the work of the office it was not deemed advisable to adopt the system until an additional clerical force is provided.

The number of bills received, audited and forwarded to the Department of Finance for payment during the year 1906 was approximately 35,000.

The duty of auditing claims for the interment of deceased honorably discharged soldiers, sailors and marines, and their wives, finally devolved upon this Department through an opinion of the Corporation Counsel, rendered in February, 1906.

The following claims have been audited and forwarded to the Department of Finance for payment during 1906:

Place of Death.	Year of Death	Nu	mber	Amount of Claims.	Tota	d.
	1901	1		\$35 00		
	1903	1		35 00		
New York County	1904	2		70 00		
	1905	39		1,365 00		
	1906	83		2,905 00		
			126		\$4,410	00
	1902	1		\$35 00		
Kings County	1904	1		35 00		
Kings County	1905	20		700 00		
	1906	31		1,085 00		
			53		1,855	00
	1904	2		\$70 00		
Queens County	1905	5		175 00		
	1906	4		140 00		
			11		385	00
	1905	1		\$35 00		
Richmond County	1 1906	4		140 00		
			5		175	00
Total			195		\$6,825	00

Department Payrolls.

The payrolls of the various boroughs and hospitals of the Department are prepared monthly, recording the name, residence, designation, compensation and time employed, certified by the proper officials, approved by the Board, charged against the appropriate accounts, certified by the Civil Service Commission, and forwarded to the Department of Finance for payment.

Schedule of Total Number of Employees in the Service of the Department of Health in the Various Boroughs on December 31, 1906, with a Statement of Their

	Number.	Amount.
Borough of Manhattan.		
Officers, Clerks and other employees	599	\$671,835 00
Hospital service	209	114,521 00
Total	808	\$786,356 00
Borough of The Bronx.		
Officers, Clerks and other employees	64	\$67,830 00
Hospital service	212	95,114 0
	-	
Total	276	\$162,944 00
Borough of Brooklyn.		
Officers, Clerks and other employees	192	\$213,197 0
Hospital service	194	96,984 0
Total	386	\$310,181 00

	Number.	Amount.
Borough of Queens.		
Officers, Clerks and other employees	43	\$49,482 0
Total	43	\$49,482 0
Borough of Richmond.	_	
Officers, Clerks and other employees	37	\$44,660 0
Total	37	\$44,660 0
Otisville Sanatorium.	-	
Hospital service	160	\$63,955 0
Total	160	\$63,955 0
Summary.		
	Number.	Amount.

Pension Fund.

Grand total

Total, Officers, Clerks, employees, etc.....

Total, Hospital service

The Board of Trustees of the Health Department Pension Fund consists of the members of the Board of Health, one of whom is chosen to be Chairman, and one elected as Secretary, annually. Said Board of Trustees is charged with the duty of receiving, investing and administering all funds derived from fees for searches and transcripts of Department records, and fines and penalties for violations of the Sanitary Code and Health Laws.

Pensions are greated to employee district the contract of the search of

Pensions are granted to employees disabled by reason of performance of duty and to widows or minors of employees who die from disease or injury suffered in the discharge of duties, and for service of a period of twenty years, upon application of such

A report in detail of the condition of said fund is submitted to his Honor the Mayor annually, in the month of January.

Report of the Condition of the Health Department Pension Fund for the Year 1906, Showing Receipts and Disbursements During that Period.

Receipts.

Month.	Attorneys' Cost.	Searches and Transcripts of Births, Marriages and Deaths.	Fines and Penalties.	Interest.	Total.
1906.					
January	\$21 50	\$1,931 20	\$6,939 00	*******	\$8,891 70
February	51 00	1,707 00	2,209 00		3,967 00
March	16 00	2,041 70	1,157 00		3,214 70
April	57 00	1,915 20	1,272 55		3,244 75
May	47 00	1,720 90	2,901 01		4,668 91
June	51 00	1,862 50	1,608 00	\$3,856 09	7,377 59
July	108 00	1,672 30	3,448 00		5,228 30
August	70 00	1,441, 40	570 75	*******	2,082 15
September	28 00	1,686 90	602 50		2,317 40
October	64 00	1,845 00	386 00		2,295 00
November		1,734 20	4,229 00		5,963 20
December	34 00	1,866 40	1,776 00	4,295 30	7,971 70
Total	\$547 50	\$21,424 70	\$27,098 81	\$8,151 39	\$57,222 40

Cash on deposit with Knickerbocker Trust Company, December 31, 1906, drawing interest at 4 per cent., as shown by preceding annual report, \$186,806.57.

Disbursements.

Name.	Date of Retirement.	Pension Period.	Amount	
		1906.		
John T. Nagle	July, 1895	Jan. 1 to Dec. 31	\$1,200 00	
Sarah Terhune	May, 1897	Jan. 1 to Dec. 31	300 00	
Jacob A. Weil	Mar., 1898	Jan. 1 to Dec. 31	850 00	
Edward J. Gallagher	Sept., 1898	Jan. 1 to Dec. 31	750 00	
Charles A. Koerber	Oct., 1898	Jan. 1 to Dec. 12*	569 35	
Frank W. Lester, M. D	July, 1899	Jan. 1 to Dec. 31	750 00	
Helen B. Drain	Aug., 1900	Jan. 1 to Dec. 31	300 00	
William H. Vermilye	Jan., 1901	Jan. 1 to Dec. 31	600 00	
George F. Morris, M. D	Mar., 1901	Jan. 1 to Dec. 31	900 00	
Roger S. Tracy, M. D	Мау, 1901	Jan. 1 to Dec. 31	1,200 00	
Belle F. Steinsieck	Dec., 1901	Jan. 1 to Dec. 31	300 00	
John Schnell	July, 1902	Jan. 1 to Dec. 31	600 00	
Bartholomew McGowan	July, 1902	Jan. 1 to Dec. 31	525 00	
Caspar Golderman	April, 1903	Jan. 1 to Dec. 15*	1,148 39	
F. H. Dillingham, M. D	May, 1903	Jan. 1 to Dec. 31	1,200 00	

Name.	Date of Retirement.	Pension Period.	Amour
	7	1906.	-1,000
Robert Hixon	Sept., 1903	Jan. 1 to Dec. 31	240
William B. Fernhead	Dec., 1903	Jan. 1 to Dec. 31	1,050
John A. Jennings	Mar., 1904	Jan. 1 to Dec. 31	1,200 0
Sarah A. Clarke	July, 1904	Jan. 1 to Dec. 31	300 0
Asa R. Dimock, M. D	Oct., 1904	Jan. 1 to Dec. 31	900 (
Frank Wickham	May, 1905	Jan. 1 to Dec. 31	1,200 0
Celia Brown McLaughlin	July, 1905	Jan. 1 to Dec. 31	360 6
Thomas F. Fay	Oct., 1905	Jan. 1 to Dec. 31	1,200 (
Magdalena Walker	Oct., 1905	Jan. 1 to Dec. 31	300 (
George F. Shrady, Jr	Dec., 1905	Jan. 1 to Dec. 31	900 0
Julia L. Mahoney	Dec., 1905	Jan. 1 to Dec. 31	300 0
Harry E. Bramley	Nov., 1905	Jan. 1 to Dec. 31	1,200
Pensions Granted, 1906.			
Margaret Gately	July, 1906	July 1 to Dec. 31	150 0
Frederick A. Jewett	Aug., 1906	Aug. 1 to Dec. 31	500
Thomas Clacher	Aug., 1906	Aug. 1 to Dec. 31	187 5
John Finnegan	Dec., 1906	Dec. 1 to Dec. 31	. 25 0
Total paid to pensioners, 1906			\$21,205 2
On deposit with Knickerbocker Trust Company, at	4 per cent		158,786
On deposit with Windsor Trust Company, at 4 p	er cent		64,037
Total			\$244,028

It was the custom of the Board of Trustees of the Health Department Pension Fund, until July 14, 1906, to forward quarterly to each pensioner, a typewritten letter enclosing check for the period mentioned and requesting the acknowledgment in writon various kinds and sizes of note and letter paper presenting anything but a neat and businesslike appearance. To systematize this particular transaction and to facilitate the proper filing of receipts, the following form was prepared and adopted and the files are now kept in a methodical mariner.

59 B-1906

\$1,047,004 00

\$1,417,578 00

370,574 00

1896, '06, 2,500 (P)

DEPARTMENT OF HEALTH.

CITY OF NEW YORK.

S. W. Cor. 55th Street and Sixth Avenue. BOROUGH OF MANHATTAN.

BOARD OF TRUSTEES HEALTH DEPARTMENT PENSION FUND

Mr.....

Dear Sir:

Yours respectfully,

********************************** Secretary, Department of Health.

A report of the Commissioners of Accounts covering an examination and audit of the Pension Fund between January 1, 1902, and May 31, 1905, was received on August 29, 1905, in which attention was called to the fact that the sum of \$6,145.00 was being retained by the Sinking Fund Commissioners, having been erroneously remitted to the Comptroller and applied to the payment of interest on the City's debt, instead of having been paid into the Health Department Pension Fund.

Measures were taken to secure a refund of this amount from the Sinking Fund Commissioners, \$6,045 of which was paid to the Trustees of the Health Department Pension Fund on January 25, 1906, and deposited to the credit of said Fund.

Contracts.

Pursuant to the provisions of Section 419 of the Charter, contracts by public let-ting are made for work to be performed and supplies to be furnished for the use of this Department, where the supplies and work are of a similar character, and the amount involved exceeds the sum of \$1,000.

Contracts were executed for furnishing the following supplies to the various offices, buildings, hospitals, and tuberculosis clinics of the Department during the year 1906:

Supplies.	Amount.
Butter, cheese, eggs	
Milk (clinics)	
Bread	. 4,282 30
Tce	. 3,554 65
Vegetables and fruits	. 2,589 30
Forage	. 7,443 95
Milk (hospitals)	. 28,734 75
Meats	. 63,286 71
Fish	. 1,670 06
Mineral waters	. 1,540 00
Groceries	. 15,975 43
Drugs and chemicals	. 20,088 84
Chemical apparatus	
Pipe and fittings	
Lumber	
Enameled ware	
Cribs	
Hospital furniture	
Cement	, 5,000 -
Horses	
Crockery	
Wooden tanks, etc	. 1,227 10
	1,22/ 10
	Street, Square and Squ

Total......\$177,229 84

The above schedule does not include a number of awards, each of which amounted to less than \$500, therefore not requiring a formal contract. Standards are constantly being improved and deliveries of better grades received due to close inspection.

Wherever the present close system of inspection has developed the necessity for a more specific description of the supplies to be contracted for, the change has been incorporated in the contract form for the succeeding year, and samples of a higher grade purchased to be used as standards when required; thus the quality of the supplies delivered continues to improve annually plies delivered continues to improve annually.

The following contract forms for furnishing supplies during 1907, were prepared and printed for advertisement and award:

Milk and eggs (clinics). Bread. Ice. Mineral waters. Vegetables. Fruits. Milk (hospitals). Cheese.

Groceries. Coal (steamboats). Food supplies, Otisville Sanatorium. Drugs. Chemicals. Chemical apparatus, Pipe and fittings. Butter. Eggs. Forage.

Of the above the following supplies are to be purchased through public letting for the first time, having been heretofore procured in the open market through departmental orders:

Eggs (clinics) . Pipe and fittings. Food supplies (Otisville). Lumber.

Contracts were approved for the removal of night soil, offal and dead animals, etc., for the year 1906, for a period of five years ending with 1909. These contracts were advertised and let in 1905; as follows:

McKeever & (Contractor.	Covering Boroughs of	Annual Cost.
McKeever &	Co	Brooklyn and Queens	\$31,200 00
M. J. & J. F	. White	Manhattan, The Bronx, Richmond	38,680 00

The following contracts for the construction of new buildings, alterations, improvements, etc., were entered into during 1906:

Construction of and Location.	Contractor.	Cost.
Dormitory building, Willard Parker Hospital	John Spence, Jr	\$3,994 00
Area walls, Kingston Avenue Hospital	Christ. Dooley	4,934 00
Incinerator building, Kingston Avenue Hospital	Jas. MacArthur	3,018 00
Pipe system, Kingston Avenue Hospital	E. Rutzler Company	26,881 00
Dining hall, Otisville	H. H. Vought & Co	9,668 00
One-story shack, Otisville	H. H. Vought & Co	5,380 00
Two-story shack, Otisville	H. H. Vought & Co	9,678 00
Morgue building, Kingston Avenue Hospital	Jas. MacArthur	12,880 00
Alterations, Bronx Office building	J. M. Knopp	2,795 00
Repainting buildings, Riverside Hospital	J. P. Hansen	2,460 00
Refrigerating plant, Willard Parker Hospital	Wm. Horne Company	3,775 00
Measles Pavilion, Kingston Avenue Hospital	P. J. Brennan & Son	183,000 00
Extension to Nurses' Home, Kingston Avenue Hospital	Dan. J. Ryan	34,600 00
Cow stable and dairy, Otisville	Kelly & Kelley	20,124 00
Total		\$323,187 00

Contracts were entered into with the following architects for their services in eparing plans and specifications for the construction of the improvements indicated

Improvement of and Location.	Architect.	Fees.
Sundry, various	N. Wheeler Smith	\$23,000 00
Extension to Nurses' Home, Kingston Avenue Hospital	Westervelt & Austin	2,000 00
Morgue building, etc., Kingston Avenue Hospital	John H. Duncan	1,250 00
Vaccine laboratory plant, The Bronx	Snelling & Potter	4,000 00
One- and two-story shacks, Otisville	Scopes & Feustman	1,000 00
Measles Pavilion, Kingston Avenue Hospital	Chas. Volz	9,000 00
Six isolation ward buildings, Kingston Avenue Hospital	Percy Griffin	5,000 00
Cow stable and dairy, Otisville	Edward Burnett (Not yet executed.)	1,250 00
Total	·	\$46,500 00

Contract forms were also prepared and printed for the construction of the following improvements, not as yet advertised nor awarded:

Vaccine Laboratory plant, Borough of The Bronx. Helps' dormitory, Otisville. Electric wiring, Willard Parker Hospital. Six isolation buildings, Kingston Avenue Hospital.

Purchase of Supplies.

The increase in the work of this office can be readily seen by the number of requisitions received for the purchase of supplies, etc., for use in the various branches of this department during the year 1906, which amounted to 5,650, involving an expenditure of \$716,599.89, compared with 4,534 for the year 1905 at a cost of \$452,176.85, shows a clear gain of 1,116 requisitions over the previous

In purchasing supplies for the use of this department requisitions properly certified by the executive officers of the different boroughs as to the necessity therefor are received in the office of the Chief Clerk, examined and presented to the President of the Board of Health for approval and authority to incur the expense. Estimates are then obtained from reputable business concerns or manufacturers, if possible, and the order given to the lowest bidder. Should the amount exceed the sum of \$1,000 the supplies are purchased by contract, the result of public hidding

Proposals for supplying coal to the steamboats and institutions of the department during the year 1906 were advertised for, but on opening the bids the prices were found to be excessively high and the bids were rejected.

The proposals were again readvertised and prices again found excessive and the bids rejected.

the bids rejected.

Authority was then procured from the Board of Aldermen to purchase 12,115 tons of coal in the open market, with the result shown below:

	No. 1 Buckwheat.		1	Stove.	Egg.		
	Tons.	Amount.	Tons.	Amount.	Tons.	Amount.	
Lowest price bid, pub- lic letting	10,250	\$40,070 00	500	\$3,399 50	115	\$778 35	
Price paid, open market	10,250	34,276 69	500	3,012 50	115	735 75	
Saving		\$5,793 31		\$387 00		. \$42 60	

This effected a total saving of \$6,222.91 on 10,685 tons of coal purchased. Sufficient quantity was ordered to last until the spring of 1907, and provision was made for the awarding of coal contracts during the month of April, 1907, when the summer prices for coal are established, instead of advertising for bids during the winter season, when coal is scarce and the prices at the maximum figure.

Schedule of Coal Purchased During the Year 1906.

	Buckwl	heat No. 1.	Pea.		Stove.		Egg.		Broken.	
	Tons.	Amount.	Tons.	Amount.	Tons.	Amount.	Tons.	Amount.	Tons.	Amount.
Fifty-fifth street and Sixth avenue	281	\$956 81								
Willard Parker and Reception	4,173	12,523 13			. 221	\$1,318 07				
Prachoma		t			20	132 50	20	\$132 50		
Orug Laboratory					2	12 00			* ****	.,
The Bronx office							45	291 15	****	
Disinfecting stable, The Bronx					****				86	\$514 25
The Bronx stable					8	53 25		,		
Riverside Hospital	3,389	10,277 85	****		150	872 22				
Brooklyn office					39	230 75	20	118 50		******
Kingston Avenue Hospital	2,540	8,116 99	1,176	\$4,608 78	177	1,116 31			****	*******
Trachoma Dispensary					15	92 00		*******	****	******
Borough of Queens				*	****		40	246 00	****	
Borough of Richmond					35	239 40	****		*	
Otisville, N. Y					117	608 51	••••	- ********		
Total	10,383	\$31,874 78	1,176	\$4,608 78	784	\$4,675 01	125	\$788 15	. 86	\$514 2

For the first time in the history of this department horses used at the department stables, as well as those used by officials entitled to same by reason of the duties of their respective positions, were purchased under contract. The previous custom was to buy horses in the open market, which proved unsatisfactory in many ways.

To improve the condition of the ambulance service in the various boroughs, and with a view to improving the carriage and wagon service, an inspection was

made by the Veterinarian of all horses used by the department, with the result that fourteen horses were found to be in a condition which practically made them unfit for the purposes of the department in this city, and instead of being condemned and sold they were shipped to the Tuberculosis Sanatorium at Otisville, New York, where they were found most useful, the work there being of a character that has proved beneficial to them, as well as being a great economy to the department, for the reason that it was the intention to purchase additional horses for use at that institution.

The following horses were purchased under contract for use in the var boroughs of the city, as follows:	ious
Borough of Manhattan	13
Borough of The Bronx	5
Borough of Richmond	2
Total	25

—at a total cost of \$8,100, which has placed this branch of the service on a high standard of efficiency.

Inspection of Supplies.

During the year 1906 there were 5,071 of the total number of 5,650 requisitions received on which inspections were made.

Upon receipt of goods at the various institutions they are held until the same have been inspected and passed by the Inspector before being placed in stock, note being made on tissue copy of the order for recording in the office of the Chief Clerk, for the purpose of checking the bills. Perishable supplies, such as fruits, vegetables, etc., which are furnished on monthly bills on an open requisition, are subject to the same inspection, and are rejected when found necessary.

The departmental divisions from which requisitions were received, include the following: Hospitals, laboratories and offices in the various boroughs.

quisitions were forwarded as follows:	
Department building, Fifty-fifth street and Sixth avenue	1,632
Borough of The Bronx	210
Borough of Brooklyn	240
Borough of Queens	132
Borough of Richmond	123
Research Laboratory	608
Chemical Laboratory	190
Vaccine Laboratory	45
Drug Laboratory	670
Willard Parker Hospital	320
Reception Hospital	96
Trachoma Hospital	140
Kingston Avenue Hospital	445
Department stable, foot of East Sixteenth street	70
Total	5,071

The average number of items on each of the above-mentioned requisitions (5,071) were approximately fifty (50), and the number of orders issued were about five (5) on each requisition, making a total of 25,355 orders issued and 253,-550 items to be inspected.

The Inspector visits each of the hospitals, laboratories, offices, etc., at least once a week, making thorough inspection of the goods received and rejecting those which do not conform to the department standards and the specifications set forth when the estimate is requested.

The matter of having empty oil barrels returned to the Standard Oil Com-

set forth when the estimate is requested.

The matter of having empty oil barrels returned to the Standard Oil Company, the department receiving a credit allowance on their bills at the rate of \$1.15 per barrel for each one returned, proved a step in the interest of economy This item alone at Riverside Hospital amounted to approximately \$175.

At the beginning of the year several contractors endeavored to deliver a very poor quality of grocery supplies, canned fruits and merchandise, to the hospitals and laboratories. Measures were promptly taken to compel them to fulfill their respective contracts in accordance with the specifications and the standard samples, after which the goods delivered were of a satisfactory character.

Furniture, such as desks, chairs, wardrobes, etc., instead of being immediately condemned and destroyed when broken or defective, as heretofore, are now collected and stored in the department building, and those that can be fixed are repaired and upholstered and returned to the division where they belong. A saving of at least \$600 has been effected in this manner during the past year in the purchase of furniture. chase of furniture.

chase of furniture.

All packing cases received at the Kingston Avenue Hospital that are made of heavy lumber are taken apart and the lumber used by the carpenter at that institution. It would be advisable to have this done at the other hospitals. A further saving could be effected if the Drug, Chemical and Research laboratories were to assort and store their empty acid bottles, demijohns and various containers in which drugs and chemicals are delivered, and return them to the various firms, so that the department could receive credit for them. A considerable saving in the purchase of glass bottles could be effected at the Drug Laboratory if the empty medicine bottles were returned from the various hospitals, carefully sterilized and again used.

The glass tumblers used as receptacles in the delivery of jelly to the various hospitals instead of being thrown away after the contents were used, as had been the previous custom, were utilized as glasses for drinking purposes by the domestics in the employ of the institution. This effected quite a saving in the purchase of glassware.

glassware.

There are numerous other instances which cannot be recalled at the present time where considerable saving was effected during the year.

The above statements are made simply to emphasize the fact that the inspection of supplies has proved a great economy in many ways, and the force, consisting of one man at the present time, is totally inadequate to cover the entire ground. This branch of the service should be extended and two additional Inspectors appointed to perfect this particular branch.

Inspectors of Construction and Repairs.

During the year 1906 an additional Inspector was appointed to this corps, making a total force of four Sanitary Inspectors, who are assigned to supervise the construction of new buildings and repairs and alterations to old buildings. The work performed was as follows:

Willard Parker Hospital.

The upper part of the disinfecting station has been remodeled into a dormitory for help.

New stalls were erected in stable of ambulance station. New coal storage building erected. New animal house erected.

New temporary boiler house with six boilers has been completed.

Work was completed in the Willard Parker Hospital and the building was entirely remodeled.

Administration Building was completed.

Old boiler house remodeled into a kitchen building for the scarlet fever pavilion.

Considerable painting and repairing was done.

Kingston Avenue Hospital.

Pipe gallery has been constructed.
Addition to stable was built.
New Morgue Building now being erected.
Area walls have been built around the storehouse and laundry building, and considerable filling in done.

Plans for a measles pavilion were completed and bids received. Plans for extension of Nurses' home were completed.

Two additional boilers were installed.

North Brother Island.

Work is now in progress increasing the area of the island. Two isolation buildings have been completed.

Considerable painting and repairing has been done. Old coal house being altered into a waiting room and discharge room for patients. An additional boiler was installed in boiler house.

Otisville, N. Y.

Dining pavilion has been erected. One-story shack has been erected.

Two-story shack has been erected.
Six portable houses have been erected.
Old buildings have been generally improved, and much painting and repairing

Considerable work has been done on a water supply and drainage system. Plans for a laboratory building, stable, boiler house and dwelling were completed a vaccine station at Westchester.

The following improvements were effected during the year:

A new office building was provided for the branch office in the Borough of The Bronx, at No. 3731 Third avenue, at an annual rental of \$2,000, and many alterations in the nature of improvements were made for the purpose of installing rooms for a clinic; also, electric light apparatus, skylights and other necessary additions.

A site was obtained and plans drawn for a new office building in the Borough of Brooklyn bounded by Willoughby street and Fleet place. This structure, when completed, will be the first office building owned by the City used by this Department.

Books, Blanks and Stationery.

All printed books, blanks and stationery supplies that were ordered on the annual requisition were delivered promptly and in good order, and the only difficulty experienced was in the storing of the printed blanks.

Increased activities in all branches of the service made additional demand for books, blanks and stationery supplies. The number of special requisitions sent to the City Record office continued to be very large and resulted in much additional work for this branch of the office.

The annual requisition on the Board of City Record covering printed blanks, books and lithographed letter-heads and envelopes estimated to be required for use during the year 1907 was the largest requisition of this character ever submitted by this Department. It consisted of 1,310 forms, requiring the printing of almost 7,000,000 blanks, as per the following schedule:

Stationery.

	-						
Boroughs.	Forms.	Books	Lithographed Blanks.	Printed Blanks.	Book Pages.	Grand Totals for 1907.	Ordered in 1906.
Manhattan	485	897	610,500	3,852,202	243,280	4,686,982	3,046,036
The Bronx	229	49	47,000	410,970	12,250	470,220	213,883
Brooklyn	242	600	123,500	921,412	150,000	1,194,912	801,089
Queens	165	8	19,500	144,620	2,000	166,120	81,136
Richmond	189	7	13,500	96,859	1,750	112,109	84,425
Total	1,310	1,561	814,000	5,426,063	390,280	6,630,343	4,226,569

The care of these articles has been the subject of much consideration during the past year. The stock rooms were filled to their utmost capacity, and the additional small room provided was not sufficiently large to store all the blanks ordered. The result was that blanks had to be piled on the floors in different parts of the building, where they were exposed to dust, and in moving about the strings in some instances were broken and the paper covering torn, and some of the blanks thus became scattered. became scattered.

In view of the above facts it therefore becomes absolutely necessary that immediate steps be taken to provide one large storeroom with a capacity large enough to store the entire amount of blanks in compartments arranged according to form

On February 1, 1906, the new system recommended in last year's report was put into operation, which consists of vertical filing cabinets, in which samples of all printed forms used throughout the Department are kept in alphabetical order between folders and supplemented by a card index showing on the cards the receipt and distribution of each printed form, books and of all stationery supplies. This new system is a great success, and the records are now kept in a proper and systematic manner.

manner.

In making up the annual requisition the new system was of great value, and one could tell at a glance at the card how many blanks were used during the past year and how many it would be necessary to order for the following year.

In previous years new forms were ordered printed to replace old ones for such of the boroughs as deemed it necessary to change these printed forms and the result was that each borough had different blanks in use for the same purpose.

This has been remedied by referring all new blanks ordered to the Sanitary Superintendent, who will hereafter take the matter up with the Assistant Sanitary Superintendent of each borough and decide upon a uniform blank for use in all boroughs. boroughs.

Department Drug Store.

The cost of maintaining the Department drug storeroom for 1906 was \$20,869.45, \$14,034.45 of which was expended for supplies and \$6,835 for labor.

The custom of mixing tea and shipping same to the store houses of the various hospitals was discontinued and the formula sent direct to the store house where the tea could be mixed in the same manner that had been used heretofore, thus eliminating

considerable unnecessary labor.

The crowded condition of the cellar used by the drug store room in the basement of the Clinic Building being totally inadequate for the purpose, new quarters were provided at No. 116 East Forty-first street, Borough of Manhattan, the two upper floors and cellar being used for the accommodation of the drug store room, while a garage was established on the first floor for storing Department automobiles, at an annual rental of \$3,000.

Storehouses.

The following table shows the work performed at the Storehouse established at the Riverside Hospital, North Brother Island, during the year ending December 31.

Requisitions filled by storekeeper	4,295
Average number of items on each requisition	4
Average total number of items for year	38,655
Number of requisitions drawn on headquarters	503
Number of condemned articles	3,255

Estimated value of supplies distributed......\$25,192 13

The storehouse system having proved practical, it was the intention during the year 1906, to install a storekeeper, under the supervision of this office, at the Willard Parker Hospital after the completion of the storehouse at that institution. On completion of the storehouse, however, it was found to be entirely too small and inadequate for the needs of the hospitals located at the foot of East Sixteenth street, consequently, the receipt and distribution of supplies still continues under the supervision of the matron of the hospital. It was also the intention to erect a storehouse at the Kingston Avenue Hospital, and plans were prepared but have not as yet been approved by the Board of Health by the Board of Health.

A storehouse system was established at the Tuberculosis Sanatorium, Otisville, New York,—this being a new institution, great difficulty was exeperienced in the purchase and distribution of supplies, the Sanatorium being located a distance of about 75 miles from the City, the nearest place where supplies could be obtained being either Middletown or Port Jervis, both a distance of about 8 miles from the institution, and it was almost impossible to secure the services of competent help. However, notwithstanding these difficulties, the storehouse system was installed. The following table shows the work performed during the year 1906:

Requisitions filled by storekeeper. 1,300
Average number of items on each requisition. 7
Total number of items averaged. 9,100
Estimated value of supplies distributed. \$20,000
Requisitions drawn on headquarters. 100
Number of articles condemned. \$20,000

Sale and Distribution of Department Products, Vaccine, Virus, Antitoxin, Etc.

There are in operation at this time, 318 antitoxin stations in the Greater New York, divided as follows: Borough of Brooklyn
Borough of Queens.
Borough of Richmond.

Antitoxin. \$125,553 95

Free distribution \$104,069 00 Cash 17,386 37 Discount to agents...
On sale with agents...
Stock on hand... 1,114 34 2,170 24 \$125,553 95

Value of vaccine virus from laboratory......\$31,346 70 Less virus to replace old stock.......4,518 65 \$26,268 05 \$14,969 50 8,251 71 Free distribution

Cash
Discount to agents.... 3,143 34 On sale with agents..... Stock on hand..... 322 45 \$26,828 05

To more thoroughly systematize the establishment of antitoxin stations, and to ensure the fact that proper facilities for the storage, sale, and distribution of the laboratory products of the Department, will be maintained at the various stations, applicants are required to properly fill out the following form or statement which is referred to the inspector attached to this office for the purpose of investigation and report, and a verification of the facts stated in the application before the usual antitoxin agreement is executed.

DEPARTMENT OF HEALTH.

OFFICE OF THE CHIEF CLERK.

New York,.....190

775, '06, 1,500 (P)

To the Chief Clerk,

45 B-1906

Department of Health.

Dear Sir—Request is hereby made for the establishment of a station for the sale and free distribution of the laboratory products of the Department of Health, said products to be received on consignment, subject to the stipulations contained in a written agreement to be hereafter duly signed and executed, upon the approval of this application.

Statement. Name of firm...

Location of drug store...

Hours of Business: Open....a. m.; Close....p. m., daily. Exceptions.....

> Respectfully submitted, (Name)..... (Address).....

About May 1, 1906, the Research Laboratory instituted new grades and prices and a method whereby antitoxin was prepared for use in syringe containers. This required the installation of a new bookkeeping and accounting system which has doubled the work of the office, without any increase whatever in the clerical force, which was promised when the system was installed, the clerks being required daily to exceed the official office hours of the Department to complete the work of the day.

The change in the various grades of antitoxin made it necessary to notify each

of the 318 antitoxin stations established in all boroughs of the Greater City; accordingly, the following circular letter was forwarded for their information.

"Sir—Your attention is directed to the following scale of grades of, and prices to be charged for antitoxin, approved by the Board of Health at a meeting held April 18, 1006:

Grade No. 1—1,000 units (500 to c. c.) in vials, \$1; in syringe containers, \$1.25. Grade No. 1—2,000 units (500 to c. c.) in vials, \$1.75; in syringe containers, \$2. Grade No. 2—3,000 units (800 to c. c.) in vials, \$2.50; in syringe containers, \$2.75. Grade No. 2—5,000 units (800 to c. c.) in vials, \$3.50; in syringe containers, \$3.75. Grade No. 2—10,000 units (800 to c. c.) in vials only, \$6; (not sold in syringe con-

You are therefore notified, in pursuance to sections "B" and "D" of your antitoxin agreement with this Department, wherein the right is reserved to establish new grades and prices, that the grades and prices referred to above are so hereby stablished, and you are requested to return to our collector, who will visit your station within the next ten days, all stock of grades previously manufactured, and cash or free-slips to the amount required to balance your account.

Upon settlement of your account the collector will supply you with a sufficient supply of the stock of the new grades, and you are requested under no circumstances to issue any of the old grades hereafter.

You will observe that the new antitoxin is to be put up in vials and in syringe

No charge whatsoever will be made for antitoxin in vials when issued on the certificate of a physician to the effect that the same is intended for the treatment of a poor patient to whom the payment for the same would be a hardship.

When antitoxin in syringe containers is issued on a "free certificate" the sum 25 cents shall be collected before delivery by the druggist to cover the extra cost the syringe.

New forms, blanks, etc., will be forwarded as soon as printed.

Respectfully,

Chief Clerk.

Chief Clerk.

The Inspector attached to this office personally visited each station, collected the old stock, settled the account and furnished each firm with an adequate supply of stock of the new established grades within a period of thirty days.

On December 1, 1906, a new system of keeping the hydrophobia treatment accounts was installed in this office whereby the Research Laboratory furnishes a written list of all treatments sent on the day the treatments are forwarded. A bill is also mailed to the purchaser from the laboratory with the first portion of the treatment together with a notification that unless payment is made or acknowledgment of indebtedness is received by the Chief Clerk within four days treatment will be discontinued. At the expiration of the time specified the Chief Clerk notifies the laboratory to continue treatment in cases where payment has been made or indebtedness acknowledged and to discontinue it in all cases where no reply has been received.

The laboratory also reports each individual treatment to the Sanitary Superintendent. These reports are forwarded and passed upon by the Board of Health, and are then filed in this office, thus completing the record.

Previous to the date above mentioned the accounts were kept at the Research Laboratory and returns of money received for the treatment were made semi-monthly to this office.

Steamboat "Riverside."

Steamboat "Riverside."

The contractors completed and delivered to the Department the new Steamboat

The contractors completed and delivered to the Department the new Steamboat "Riverside," which was put into commission.

This model hospital boat, which is used for the transportation of contagious diseases, is 126 feet long, 30 feet wide and 9 feet 6 inches deep, with a steel hull and two decks, the wards for patients being on the main deck, and the rooms for convalescents, nurses and quarters for the Commissioner and other officials being built on the upper deck. The boat is of the twin-screw type, having two compound pro-

pelling engines and a water-tube boiler.

Bids for building the boat were opened on March 1, 1905, and the contract was awarded to the Burlee Dry Dock Company for the sum of \$62,475 on March 20, 1905.

Launch "Pelham."

The new Steam Launch "Pelham," to be used for conveying passengers and visitors to and from Riverside Hospital and the Department dock, foot of East One Hundred and Thirty-second street, was completed and put into commission at a cost

Tuberculosis Sanatorium at Otisville. Title to this property was obtained early in the year by the City at a total cost \$95,750, payable from the proceeds from the sale of an issue of Corporate Stock

of \$95,750, payable from the proceeds from the sale of an issue of Corporate Stock of \$250,000 authorized in 1905.

Great effort was made by the administration toward the perfection of arrangements for the accommodation of patients at the earliest possible moment, and to this end a clerk attached to this office was detailed who devoted the greater portion of his time between April 1 and August 23, 1906, to that purpose until the appointment of a resident superintendent on the latter date.

During this period a civil engineer was employed, who completed an outline and a complete topographical map of the property; a firm of landscape architects, who prepared a tentative plan for its improvement, laying out roads, planting trees, etc., and a firm of sanitary experts engaged, who proceeded with the installation of water supply and drainage systems.

prepared a tentative plan for its improvement, laying out roads, planting trees, etc., and a firm of sanitary experts engaged, who proceeded with the installation of water supply and drainage systems.

An architect was appointed who prepared plans for the alteration of existing buildings to render them suitable for occupancy by patients and help, and who subsequently prepared plans and specifications for the construction of a dining hall, an administration building and a dormitory.

A second architect prepared plans for the construction of two shacks or dormitories for patients, while a third completed plans for the erection of a cow stable and a dairy building.

Contracts were advertised and let for the construction of two shacks, a dining hall, a cow stable and dairy building; for the delivery of trees, lumber, cement, pipe fittings, drains, wooden tanks and horses; a storehouse was established, and a storekeeper engaged and a system of accounting installed.

A field force was organized who cut fire lines, made roads, built walls, constructed reservoirs, repaired existing buildings, laid water and drain pipes, planted and pruned trees, planted, cultivated and harvested corn, hay and potatoes, and generally improved the site and buildings.

A domestic force was organized to domicile such employees as required maintenance, and to care for the patients, while a physician, nurses and orderlies were appointed on the medical staff of the institution.

Direct telephonic communication was established between the sanatorium and Middletown and New York, necessitating the construction of nine miles of line.

Great difficulty was experienced in securing domestic help and in procuring supplies, the nearest base being Middletown, eight miles away, but ultimately satisfactory arrangements were made for the daily delivery of food supplies, for which contracts have been prepared for 1907.

Difficulty was also experienced in furnishing and equipping the buildings for occupancy, the great bulk of furniture having been purchased

Department Hospitals.

The following contracts were executed for the construction of new buildings, alterations to old buildings and permanent improvements effected in the various hospitals of the Department during the year 1906, as hereafter enumerated:

Construction of, and Location.	Contractor.	Cost	
Dormitory building, Willard Parker Hospital	John Spence, Jr	\$3,994	00
Refrigerating plant, Willard Parker Hospital	Wm. Horne Company	3,775	00
Area walls, Kingston Avenue Hospital	Christ, Dooley	4.934	00
Incinerator building, Kingston Avenue Hospital	Jas. MacArthur	3,018	00
Pipe system, Kingston Avenue Hospital	E. Rutzler & Co	26,881	00
Morgue building, Kingston Avenue Hospital	Jas. MacArthur	12,880	00
Measles Pavilion, Kingston Avenue Hospital	P. J. Brennan & Son	183,000	00
Extension to Nurses' Home, Kingston Avenue Hospital	Dan J. Ryan	34,600	00
Repainting buildings, Riverside Hospital	J. P. Hansen	2,460	00
Alterations, Bronx Office building, The Bronx	J. M. Knopp	2,795	00
Dining hall, Otisville	H. H. Vought & Co	9,668	00
One-story shack, Otisville	H. H. Vought & Co	5,380	00
Two-story shack, Otisville	H. H. Vought & Co	9,678	00
Cow stable and dairy, Otisville	Kelly & Kelley	20,124	00
Total	_	\$121.187	00

Statement of expenditure of the various hospitals controlled by this Department during 1906, showing total cost of operation and maintenance and average per capita cost for each hospital:

	Total	1.	Willa Parker Recept	and	Tracho	ma.	Rivers	ide.	Kings Avenu	
Foods and food supplies Drugs, instruments and pharmaceu-	\$125,041	23	\$26,868	16	\$2,488	38	\$54,294	31	\$41,390	38
tical supplies	20,265	97	4,637	92	806	32	6,878	05	7.943	68
Gardeners' supplies, etc	83,290	32	25,642	93	914	84	35,731	21	21,001	34
Clothing, boots and shoes, bedding,	47,603	60	18,180	25	7,991	18	15,526	33	13,097	84
Repairs and improvements to build- ings and grounds	8,677	20	1,241	86	124	45	6,546	31	764	58
Salaries	285,259	10	84,117	59	23,128	86	92,000	78	86,011	8;
Total	\$570,137	42	\$160,688	71	\$28,262	03	\$210,976	99	\$170,209	65

	Willard Parker and Reception.	Trachoma.	Riverside.	Kingston Avenue.
Average daily census of patients for 1906	72.59	19.	210.29	219.48
Daily cost per capita for patients	\$6 06	*\$4 07	\$2 75	\$2 12

^{*}This cost includes the treatment of 14,550 patients at the two trachoma clinics.

I desire to state that the excessive cost per capita at the Willard Parker Hospital is due to the fact that this institution was closed to patients from January 1 to March 15, 1906, while alterations were being made. The help, however, were retained during the said period, which explains the vast difference per capita cost between this and the other institutions. the other institutions.

The individual reports of the Assistant Chief Clerks of each borough, are respectfully presented as follows:

Assistant Chief Clerk, Borough of Manhattan.

Report of the work performed in the office of the Assistant Chief Clerk, Borough of Manhattan, for the year ending December 31, 1906:

The following official reports, communications, and applications, summarized and classified as to the subject matter, were received in the office of the Assistant Chief Clerk and submitted to the Board, through the Secretary, for consideration and final

action:	
Special reports and communications submitted to the Board of Health for	
action	715
Premises declared a public nuisance	234
Premises ordered vacated	100
Lodging house permits granted	144
Cow permits granted	162
Mercantile permits granted	14
Miscellaneous permits granted	2,606
Permits denied	2,202 5,886
Permits revoked	
Extension or modification of Board orders denied	472 583
Board orders rescinded	1,105
Delayed and imperfect certificates of births, marriages and deaths approved	*1*93
and ordered filed	2,914
Corrected certificates of births, marriages and deaths approved and ordered	-,,,-,
filed	1,334
Certificates of registration issued to master plumbers	793

Orders Issued by the Board of Health.

Orders of the Board for the abatement of nuisances are issued under the supervision of the Assistant Sanitary Superintendents in the various boroughs, upon the facts and evidence contained in the written reports of the Sanitary Inspectors, the result of personal inspection of premises complained of. These orders call the attention of owners, lessees and agents to the violations of the Sanitary Code and Health Laws in each case, and require the necessary alteration, repairs, cleaning and improvement of the premises named within three days from the receipt of the order. If, upon reinspection, it is found that the requirements of the order have not been complied with, a suit for penalty is commenced against the delinquents under sections 1172 and 1222, chapter 466, Laws of 1901.

Summary of clerical work performed in the various boroughs in connection with the issuance of Board orders, negative reports filed, and fees paid and certificates issued, the result of searching for sanitary violations against premises; also written references forwarded to other city departments, as follows:

Borough.	Board Orders Issued.	Negative Reports Filed.	References to Other Depart- ments.	Searches Made and Certificates Issued.	Communica- tions Re- ceived and Answered.	Fees Received.
Manhattan	14,411	7,427	2,218	2,799	2,468	\$1,426 10
Brooklyn	5,340	8,246	2,416	246	70	123 00
The Bronx	2,454	1,824	478	460	266	230 00
Queens	1,560	543	257			*****
Richmond	1,043	252	202	1		50
Total	24,808	18,310	5,571	3,506	2,804	\$1,779 60

Searches and Transcripts of Births, Marriages and Deaths.

Certified copies of the records of vital statistics as may be found to be on file in the Bureau of Records are furnished to applicants authorized to receive same, namely, interested parties, next of kin, legal representatives, etc., upon payment of the fee in such cases prescribed by the Board of Health. Written orders are signed by the Assistant Chief Clerk in the various boroughs and issued to the Assistant Registrar of Records authorizing the search and issuance of a transcript of the record, which, in accordance with the regulations of the Board is authenticated by affixing the seal of the Department of Health, and attested by the signature of the Assistant Chief Clerk of the borough. When search is made and the record is not found to be on file, an official certificate is issued to that effect.

Summary of applications for searches made to the Assistant Chief Clerks in the various boroughs, showing fees received and work performed in connection with searches and transcripts of the records of births, marriages, and deaths on file in the Bureau of Records in the Department:

Borough.	Applications	Trai	nscripts Sign Authenticated	ed and	Not Found.	Communi- cations Re-	Fees Received.	
	for Searches.	Births.	Marriages.	Deaths.	Certificates Issued.	Answered.	Received	
Manhattan	23,832	2,230	2,367	18,020	2,727	5,960	\$11,849 30	
Brooklyn	11,435	516	1,144	9,921	1,109	771	5,889 30	
The Bronx	2,379	52	107	2,734	115	163	1,190 60	
Queens	995	38	56	1,127	76	220	535 00	
Richmond	. 340	31	14,	329	35	295	. 181 70	
Total	38,981	2,867	3,688	32,131	4,062	7,409	\$19,645 90	

Written Acknowledgment of Complaints Received.

All mail matters addressed to the Department of Health are carefully scrutinized, and those in which complaints are made relative to matters within the jurisdiction of the Department, and giving the names and addresses of the authors, are promptly acknowledged. Those requiring the attention of other city departments are acknowledged and immediately forwarded for such action as may be found necessary.

Stateme various bor	ent of the number of written complaints received	ed and	answered	in the
Manhattan				5,437
Brooklyn .				2,492
				540 1,106 684
Queens				1,100
Richmond				084
	Total			10,259

Money Disbursed.

Statement of the disbursements of moneys in the various boroughs by the Assistant Chief Clerks, showing the total and the amounts in detail; also the purposes for which the disbursements were made, as follows:

Boroughs.	Department Payrolls.	Hospital Payrolls.	Postage Stamps and Incidenta Expenses.	
Manhattan	\$677,997 96	\$101,211 07	\$24,000 00	
Brooklyn	199,736 97	93,175 99	4,550 00	
The Bronx	67,496 58	92,757 58	1,250 00	
Queens	47,459 76		750 00	
Richmond	42,141 36		300 00	
- Total	\$1,034,832 63	\$287,144 64	\$30,850 00	

Assistant Chief Clerk, Borough of Brooklyn.

Report of the work performed in the office of the Assistant Chief Clerk during the year ending December 31, 1906:

The following table will show the amount of vaccine virus, antitoxin, mallcin, and tetanus serum which has been sold, and given away free to Inspectors, Physicians and institutions for the year ending December 31, 1906:

	Antitoxin.	Virus.	Mallein.	Tetanus.	Tuberculin
Cash sales	\$116 25	\$118.84	\$102 55	\$16 00	
Free	23,077 75	3,244 50	4 20	332 00	
Stock on hand	892 00	143 25	. 7 70	16 00	
Total	\$24,086 00	\$3,507 09	\$114 45	\$364 00	

The money received from all cash sales of vaccine virus, antitoxin, etc., also for searches of births, marriages, deaths and violations, is forwarded to the Manhattan office weekly. The following shows the exact amount forwarded from January 1, 1906, to December 31, 1906:

*	1905.			1906	
Account of searches and transcripts	\$5,522	40		\$5,889	30
Account of violations	75	00	÷	141	50
Account of antitoxin	93	34		116	25
Account of virus	116	08		118	94
Account of mallein	59	15		103	60
Account of tetanus	11	00		16	00
Account of tuberculin	2	50			
Total	\$5,879	47	-	\$6,385	59

	1905.	1906.
Number of orders issued for transcripts	10,690	11,437
Number of orders issued for searches for sanitary violations	150	283

Assistant Chief Clerk, Borough of The Bronx.

Report of the work performed in the Assistant Chief Clerk's office, in the Bor-

Report of the work performed in the Assistant Chief Clerk's office, in the Borough of The Bronx, during the year ending December 31, 1906.

During the past year many structural improvements and alterations have been made in and about the buildings occupied by this Department in The Bronx, at a considerable outlay of expense.

The interior of the building as now arranged is entirely different to-day than it was upon our first occupancy of it. The several offices and divisions are properly

separated and partitioned off to meet the demands and requirements of the working force and general public, and to-day we have one of the most complete public offices

in this City.

The entire front half of the cellar has been arranged into separate rooms for the storing of the records, one assigned to each office and division. In the rear half of the cellar his been fitted up a sterilizing room in connection with the Tuberculosis Clinic.

The rear part of the first floor has been arranged as a clinic for the free treat-

ment of people suffering from tuberculosis.

This room has been subdivided into a complete series of rooms properly supplied with running water and furnished throughout with the regulation hospital

During this year we have instituted a system by which the sale and free distribution of laboratory products is carried on during the hours of 4 p. m. and 9 a. m., in conjunction with the day hours. Heretofore we experienced some inconvenience in not being able to supply the public and our Inspectors with these products after the office hours of 9 a. m. and 4 p. m. This innovation we find has proved very beneficial to practicising physicians and the general public at large.

Another new arrangement which I have instituted in this office is a general certification of telephone calls made in this building. A record is kept by our Telephone Switchboard Operator of every call made and who makes the call. At the end of each month he forwards a list of the calls made during the month, and by a series of certifications we are able to account for all the telephone calls made. The result of this arrangement has been that quite a sum has been collected throughout the building for calls made for personal business. This will, of course, have a tendency to minimize the reckless use of the telephone for business other than official. other than official.

Herewith is shown in detail the amount of laboratory products sold and given away during the year 1906, as compared with the year 1905:

Antitoxin.

* ***	1906.	1905.
Amount sold for cash	\$33 17	\$21 45
Amount given away	5,759 75	3,845 50
Virus.		
	1906.	1905.
Amount sold for cash	\$28 09	\$19 77
Amount given away	421 85	360 15
Tetanus.		
*	1906.	1905.
Amount sold for cash	\$10 00	
Amount given away	125 00	\$14 00
Tuberculin.		
	1906.	1905.
Amount sold for cash	\$1 00	
Amount given away	*****	\$0 50
Mallein.		
	1906.	1905.
Amount sold for cash	- \$I 75	

There has been a decided increase in the number of applications for and receipts for searching of the records of vital statistics, and also for sanitary violations pending against real property. The following comparative table shows the amount received for these two items from time this information was available in this borough. Prior to the year 1902 searches of the records of births, marriages and deaths were conducted in the Manhattan office.

Amount given away.....

1906

Receipts	for	Searches	of	Vital	Statistics.

I902	\$293 20
1903	689 90
1904	1,000 20
1905	881 40
1906	
Receipts for Searches of Sanitary Violations.	
1904	\$171 00
1005	250 50

The item of receipts for searches of vital statistics for the year 1904, \$1,000.20, and the decided decrease in the receipts for 1905, is accounted for by the reason of the destruction of the steamer "General Slocum," off North Brother Island, on June 15 of that year, in which a great loss of life occurred, and from that one accident alone 918 certificates of death were filed in this office. From most all of these deaths at least one transcript of the certificate was issued.

Assistant Chief Clerk, Borough of Queens.

Report of work performed in the office of the Assistant Chief Clerk during the year 1906:

	Complaints.	
Citizens' complaints	received	1,044
Citizens complaints,	anonymous or personally made	

Orders and References. Board's orders issued	1,600 497 196 269
Searches for Violations.	-
Searches made and certificates issued	::
Searches and Transcripts.	
Applications for searches Transcripts signed and authenticated. Not found certificates issued. Communications received and answered.	996 1,100 81 275
Fees received	\$509 20
Requisitions and Bills.	
Number of requisitions forwarded to Chief Clerk	147 476
Assistant Chief Clerk, Borough of Richmond,	

Report of the work performed in the office of the Assistant Chief Clerk dur-

The report must necessarily be brief, by reason of the fact that the Board of Health, at a meeting held on March 1, 1906, passed resolutions relieving the office of the Assistant Chief Clerk of many of its responsibilities and duties.

No doubt the items heretofore contained in the reports of the Assistant Chief

Clerk have been embodied in the annual report forwarded by the Assistant Sanitary Superintendent.

During the year three hundred and seventy-four (374) transcripts ha authenticated, subdivided as follows:	ve been
Deaths Marriages	329 14
Births	31
Collected in fees	\$181 70

Affidavits of four hundred parents of applicants for employment certificates have been taken, the payrolls for the year amounting to \$38,393.88 have been certified and bills, forwarded to the Chief Clerk, amounting to \$4,077.18, have been authenticated.

During the year just closed the care and disposition of laboratory products was placed in charge of one of the Clerks in the Sanitary Bureau.

In addition to his regular duties the Assistant Chief Clerk has been frequently called upon to issue burial permits and grant removals of bodies from hospitals, both at the office and after office hours and at night and Sundays and holidays at his residence. holidays at his residence.

There is at present no office force.

\$0 35

265 50

OFFICE OF THE ASSISTANT CORPORATION COUNSEL FOR THE BOR-OUGHS OF MANHATTAN, BROOKLYN, THE BRONX, QUEENS AND RICHMOND, YEAR ENDING DECEMBER 31, 1906.

BOROUGH OF MANHATTAN.

Orders received from the Board of Health for issuance of notice of intention	
to commence action	6,845
Notices of intention to commence action issued and served	6,845
Other notices issued	825
Orders complied with after issuance and service of notice	5,845
Orders complied with after suit	443
Orders received for suit	464
Civil actions commenced to recover penalties on orders and for violation of	
Sanitary Code	464
	8
service of summons on defendants	200
Other civil actions commenced	30
Civil actions pending, December 31, 1905	73
Judgments recovered in civil actions in favor of the Department of Health.	97 72
Judgments vacated and set aside by order of the Court	508
Civil actions now pending (December 31, 1906)	21
Judgments docketed	34
Executions issued	59
Amount of costs, penalties and judgments collected in civil actions and paid	39
to Secretary of Board	\$329 00
Amount of claims collected before and after suit for antitoxine and virus	10-2
furnished by the Department to various parties and paid to the Secretary	
of Roard	\$35 66
Criminal actions pending last year in Court of Special Sessions	TE
Criminal actions commenced	3,488
Defendants held for trial in Court of Special Sessions	959
Defendants discharged by Magistrates	329
Defendants convicted by Magistrates	2,200
Judgments of conviction in Court of Special Sessions*	877
Complaints dismissed in Court of Special Sessions	10
Judgments of acquittal in Court of Special Sessions	33
Criminal actions now pending in Court of Special Sessions (December 31,	200
1906)	54
Fines imposed by Court of Special Sessions	\$11,333 00
Fines imposed by Magistrates	
Appeals by defendants	3
Appeals withdrawn by the defendant	1
Appeals pending (December 31, 1900)	
BOROUGH OF BROOKLYN.	
Orders received from the Board of Health for issuance of notice of intention	
to commence action	3.478

Orders received from the Board of Health for issuance of notice of intention to commence action	3,478 3,478
Orders complied with before and after suit	3,407
Orders received for suit	492
Sanitary Code	492
Civil actions pending December 31, 1905	274
Judgments recovered in civil actions in favor of the Department of Health.	136
Judgments vacated and set aside by order of the Court	45
Civil actions discontinued upon request of the Board of Health	567
Civil actions now pending (December 31, 1906)	108
Judgments docketed	65
Executions issued	115
to Secretary of Board	\$180 00
Criminal actions pending last year in Court of Special Sessions	47
Criminal actions commenced	404
Defendants held for trial in Court of Special Sessions	404
	-

*The above judgments of conviction include four of ten days each in the City Prison, one of which was afterward changed to a fine of \$100, and also six of a fine of \$100 each and one of \$150.

udgments of conviction in Court of Special Sessions	338	BOROUGH OF RICHMOND.
Complaints dismissed in Court of Special Sessions	34 26	Orders received from the Board of Health for issuance of notice of intention
udgments of acquittal in Court of Special Sessions		Notices of intention to commence action issued and served
ines imposed by Court of Special Sessions	53	Orders complied with after issuance and service of notice
ppeals by defendantppeals	\$4,305 00	Orders complied with after suit
ppeals now pending.	2	Civil actions commenced to recover penalties on orders and for violation of
		Sanitary Code
BOROUGH OF THE BRONX.		Judgments recovered in civil actions in favor of the Department of Health.
orders received from the Board of Health for issuance of notice of intention		Judgments vacated and set aside by order of the Court
to commence action	1,037	Civil actions now pending (December 31, 1906)
Other notices issuedOrders complied with after issuance and service of notice	285 662	Executions issued
orders complied with after suit	154	Amount of costs, penalties and judgments collected in civil actions and paid
orders received for suit	175	to Secretary of Board
ivil actions commenced to recover penalties on orders and for violation of	177	Criminal actions commenced
Sanitary Code	175	Defendants held for trial in Court of Special Sessions
adgments recovered in civil actions in favor of the Department of Health.	21	Defendants discharged by Magistrates
udgments vacated and set aside by order of the Court	163	Complaints dismissed in Court of Special Sessions
ivil actions discontinued upon request of the Board of Healthivil actions now pending (December 31, 1906)	103	Judgments of acquittal in Court of Special Sessions
udgments docketed	12	Criminal actions now pending in Court of Special Sessions (December 31,
xecutions issued	15	Fines imposed by Court of Special Sessions\$165 of
to Secretary of Board	\$54 00	SANITARY BUREAU.
riminal actions commenced	79	The Sanitary Bureau of the Department of Health is under the charge of the
efendants held for trial in Court of Special Sessionsefendants discharged by Magistrates	54	Sanitary Superintendent, assisted by five Assistant Sanitary Superintendents, one
efendants convicted by Magistrates	17	charge of each borough.
udgments of conviction in Court of Special Sessions	50	The following is a summary of the operations of the Sanitary Bureau, which
	20	shared with the duty of inspecting and reporting in proper form all nuisances
omplaints dismissed in Court of Special Sessions	2	charged with the duty of inspecting and reporting, in proper form, all nuisances
omplaints dismissed in Court of Special Sessions.	2	charged with the duty of inspecting and reporting, in proper form, all nuisances of causes of danger to the public health; with the execution of the orders of the Board with the care of contagious and communicable diseases; with the inspection of food
omplaints dismissed in Court of Special Sessions	2 I	charged with the duty of inspecting and reporting, in proper form, all nuisances causes of danger to the public health; with the execution of the orders of the Board with the care of contagious and communicable diseases; with the inspection of foo and offensive trades; with the inspection of mercantile establishments and issuance
complaints dismissed in Court of Special Sessions	\$805 00 \$22 00	charged with the duty of inspecting and reporting, in proper form, all nuisances of causes of danger to the public health; with the execution of the orders of the Board with the care of contagious and communicable diseases; with the inspection of food and offensive trades; with the inspection of mercantile establishments and issuance employment certificates; with the pathological, bacteriological and chemical research and investigations, and with the inspection of scholars attending the public, parochi
omplaints dismissed in Court of Special Sessions. dgments of acquittal in Court of Special Sessions. riminal actions now pending in Court of Special Sessions (December 31, 1906) ines imposed by Court of Special Sessions.	2 I \$805 00	charged with the duty of inspecting and reporting, in proper form, all nuisances causes of danger to the public health; with the execution of the orders of the Board with the care of contagious and communicable diseases; with the inspection of foo and offensive trades; with the inspection of mercantile establishments and issuance employment certificates; with the pathological, bacteriological and chemical research and investigations, and with the inspection of scholars attending the public, parochi and private schools.
omplaints dismissed in Court of Special Sessions. udgments of acquittal in Court of Special Sessions. riminal actions now pending in Court of Special Sessions (December 31, 1906) ines imposed by Court of Special Sessions.	2 I \$805 00	charged with the duty of inspecting and reporting, in proper form, all nuisances of causes of danger to the public health; with the execution of the orders of the Board with the care of contagious and communicable diseases; with the inspection of food and offensive trades; with the inspection of mercantile establishments and issuance employment certificates; with the pathological, bacteriological and chemical research and investigations, and with the inspection of scholars attending the public, parochiand private schools. The number of inspections and reinspections made was 2,074,314, classified a follows:
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BOROUGH OF MANHATTAN.

No.	Date.	Premises.	Cause.	Result.
1	April 4	No. 238 East Fifty-first street	Defective plumbing and defective drainage	Complied May 4, 1906.
2	April 4	No. 357 East One Hundred and Twenty-fourth street	Defective plumbing and defective drainage	Complied May 11, 1906.
3	May 9	No. 310 West Thirty-fifth street	Defective plumbing	Complied August 29, 1906.
4	May 9	No. 106 East Eleventh street	Defective plumbing	Complied May 18, 1906.
5	May 23	No. 201 West Twenty-third street	Defective plumbing	Complied August 29, 1906.
6	May 23	No. 203 West Twenty-third street	Defective plumbing	Complied August 29, 1906.
7	May 23	No. 515½ East One Hundred and Eighteenth street	Defective plumbing	Complied June 26, 1906.
8	May 23	No. 649 West Fifty-second street	Defective plumbing	Complied September 14, 1906.
9	May 23	No. 651 West Fifty-second street	Defective plumbing	Complied September 14, 1906.
10	June 6	Southwest corner of One Hundred and Thirty-fourth street and Park avenue	Public nuisance	Complied November 23, 1906.
11	June 6	No. 143 West street	Nuisance	Complied July 9, 1906.
12	June 13	No. 49 Willett street	Public nuisance	Complied July 5, 1906.
13	June 13	No. 75 Goerck street	Public nuisance	Complied July 5, 1906.
14	June 13	No. 102 East One Hundred and Fourth street	Defective plumbing	Complied July 18, 1906.
15	June 13	No. 104 East One Hundred and Fourth street	Defective plumbing	Complied July 18, 1906.
16	June 13	No. 106 East One Hundred and Fourth street	Defective plumbing	Complied July 18, 1906.
17	June 13	No. 108 East One Hundred and Fourth street	Defective plumbing	Complied July 18, 1906.
18	June 27	Nos. 616 to 636 West Fortieth street	Public nuisance	Work progressing.
19	July 11	No. 105 Bowery	Defective drainage	Complied July 16, 1906.
20	July 11	No. 175 East Houston street	Public nuisance	Complied July 23, 1906.
21	July 18	Nos. 828 and 830 Seventh avenue	Public nuisance	Complied August 16, 1906.
22	Aug. 1	No. 159 Third avenue	Defective plumbing and defective drainage	Complied October 18, 1906.
23	Aug. 1	No. 502 Canal street	Defective plumbing and defective drainage	Complied October 10, 1906.
24	Aug. 1	No. 82 Park row	Defective plumbing and defective drainage	Work progressing.
25	Aug. 1	No. 144 West street	Public nuisance	Complied October 2, 1906.
26	Aug. 22	No. 342 East Fiftieth street	Defective plumbing	Complied October 10, 1906.
27	Aug. 22	No. 465 Lexington avenue	Defective plumbing	Complied October 12, 1906.
28	Sept. 5	Northwest corner of Broadway and Hawthorne street	Defective plumbing	Work progressing.
29	Sept. 5	Nos. 102 and 104 West Forty-seventh street	Nuisance	Complied October 4, 1906.
30	Sept. 5	No. 15 West Forty-second street	Nuisance	Complied September 27, 1906.
31	Sept. 5	No. 206 Forsyth street	Defective plumbing	

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0	Sept. 5	No. 213 East Fifteenth street	Defective plumbing	Complied September 22, 1906.
-	Sept. 5	No. 142 Monroe street	Nuisance	Complied October 8, 1906.
34	Sept. 5	No. 802 East Fifth street	Public nuisance	Complied October 8, 1906.
35	Sept. 12	Nos. 320 and 322 West Thirty-fourth street	Defective plumbing	Complied November 9, 1906.
36	Sept. 12	No. 51 East Ninth street	Public nuisance	Complied December 1, 1906.
37	Sept. 12	No. 239 West Sixtieth street	Public nuisance	Complied September 19, 1906.
38	Sept. 12	No. 79 White street	Nuisance	Complied October 11, 1906.
39	Sept. 12	Nos. 310 to 320 East Seventy-fifth street	Defective plumbing and defective drainage	Complied October 2, 1906.
10	Sept. 12	Nos. 418 to 422 Broadway and No. 277 Canal street	Nuisance	Complied October 24, 1906.
11	Sept. 19	No. 57 West Tenth street	Defective plumbing	Complied September 26, 1906.
12	Sept. 19	No. 476 Ninth avenue (front)	Defective drainage	Complied October 31, 1906.
43	Sept. 19	No. 747 East Eleventh street	Public nuisance	Complied October 6, 1906.
14	Oct. 3	Nos. 570 to 576 West Broadway	Defective plumbing	Complied October 16, 1906.
45	Oct. 3	No. 55 West Third street	Defective plumbing	Complied October 23, 1906.
16	Oct. 3	No. 359 West Fifty-fifth street	Defective plumbing	Complied November 9, 1906.
17	Oct. 3	No. 9 Rutgers street	Defective plumbing	Complied October 10, 1906.
8	Oct. 3	Nos. 51 to 55 West Ninety-third street	Public nuisance	Work progressing.
	Oct. 24	No. 35 East Broadway (rear)	Lack of water supply	Complied October 30, 1906.
9	Oct. 24	No. 227 West Sixty-second street	Public nuisance	Complied December 1, 1906,
0	Oct. 24	No. 84 Bowery	Defective plumbing	Complied November 26, 1906.
I		No. 143 West Thirty-second street	Defective plumbing	Complied December 7, 1906.
2	Nov. 7	No. 167 East One Hundred and Twenty-seventh street	Defective plumbing	Complied November 28, 1906.
53	Nov. 7	No. 32 West One Hundred and Thirty-eighth street	Public nuisance.	
54	Nov. 7			Work progressing.
55	Nov. 7 Nov. 21	No. 169 West End avenue	Public nuisance	Complied December 1, 1906.
56	1101. 21	Washington street	Defective plumbing	Work progressing.
57	Nov. 28	No. 211 West Eighty-seventh street	Public nuisance	Work progressing.
8	Nov. 28	No. 504 East Thirteenth street	Public nuisance	Complied December 14, 1906.
9	Nov. 28	No. 196 Avenue C	Public nuisance	Complied December 21, 1906.
50	Nov. 28	No. 517 East Thirteenth street	Public nuisance	Complied December 7, 1906.
i	Nov. 28	No. 129 Canal street	Defective plumbing	Complied December 28, 1906.
52	Nov. 28	No. 243 Division street	Defective plumbing	Complied December 31, 1906.
3	Nov. 28	No. 620 East Thirteenth street	Public nuisance	Complied December 28, 1906.
64	Nov. 28	No. 207 West Sixty-fourth street	Public nuisance	Complied December 24, 1906.
55	Dec. 5	No. 204 Avenue C	Public nuisance	Work progressing.
56	Dec. 5	No. 438 East Thirteenth street	Public nuisance	Work progressing.
57	Dec. 12	No. 29 Cooper square	Public nuisance	Complied December 24, 1906.
68	Dec. 12	No. 442 East Thirteenth street	Public nuisance	Work progressing.
59	Dec. 12	No. 155 First avenue	Public nuisance	Complied December 24, 1906.
70	Dec. 12	No. 216 First avenue	Public nuisance	Work progressing.
71	Dec. 12	No. 357 East Seventy-sixth street	Public nuisance	Complied December 21, 1906.
72	Dec. 12	No. 712 Eleventh avenue (front)	Defective drainage	Work progressing.
	Dec. 12	No. 712 Eleventh avenue (rear)	Public nuisance	Work progressing.
73	Dec. 12	No. 413 East Twelfth street (rear)	Public nuisance.	Work progressing.
74	Dec. 19	No. 362 Seventh avenue	Defective plumbing	

BOROUGH OF BROOKLYN.

No.	Date.	Premises.	Cause.	Result.
1	Feb. 21	Northwest corner of Kingston avenue and Rutland road	Public nuisance	Complied November 29, 1906.
2	Mar. 7	Third house west of Third avenue, on Cedar lane	Defective drainage	Complied May 31, 1906.
3	April 11	No. 274 Twentieth street	Nuisance	Complied April 19, 1906.
4	April 25	North side of Bay Ridge avenue, second house west of Ninth avenue	Defective drainage	Complied June 27, 1906.
5	April 25	No. 17 McKibben street	Public nuisance	Work progressing.
6	May o	No. 2421 Eighty-third street	Public nuisance	Complied December 31, 1906.
7	May 23	No. 520 Eighth street	Public nuisance	Complied December 1, 1906.
8	May 23	No. 522 Eighth street	Public nuisance	Complied December 1, 1906.
9	May 23	No. 524 Eighth street	Public nuisance	Complied December 1, 1906.
10	June 6	North side of Thirteenth street, between Wythe avenue and Berry street, Kings County Iron Foundry	Public nuisance	Extension of time granted by Board.
11	July 11	North Eighth, Ninth and Roebling streets and No. 235 North Eighth street	Public nuisance	Work progressing.
12	Aug. 29	No. 2345 Eighty-third street	Public nuisance	Vacated August 31, 1906; work
13	Sept. 26	No. 57 Bay Thirty-fifth street	Defective drainage	Vacated October 5, 1906; work
14	Oct. 3	No. 12 Gratten street	Public nuisance	Vacated December 26, 1906.
15	Oct. 10	No. 599 Manhattan avenue	Defective drainage	Vacated November 10, 1906; work
16	Oct. 10	No. 327 Blake avenue	Defective drainage	Vacated October 19, 1906; work
17	Oct. 10	No. 92 Meserole avenue	Defective plumbing	Work progressing.
18	Oct. 10	East Eighteenth street, between Avenues Y and Z	Public nuisance	Work progressing.
19	Oct. 31	No. 60 Moore street, second floor	Defective plumbing	Vacated November 24, 1906; work
20	Oct. 31	No. 60 Moore street, first floor	Public nuisance	Vacated November 24, 1906; work
21	Nov. 7	No. 31 Humboldt street	Defective drainage	Complied December 31, 1906.
22	Nov. 21	Nos. 1549 and 1551 Bushwick avenue	Public nuisance	Vacated December 13, 1906.
23	Nov. 21	No. 552 Fourth avenue	Defective plumbing	Complied December 3, 1906.
24	Nov. 21	No. 260 Flushing avenue	Public nuisance	Vacated November 28, 1906.
25	Nov. 21	No. 262 Flushing avenue	Public nuisance	Vacated November 28, 1906.
26	Nov. 21	No. 264 Flushing avenue	Public nuisance	Vacated November 28, 1906.
27	Nov. 21	No. 266 Flushing avenue	Public nuisance	Vacated November 28, 1906.
28	Nov. 21	No. 268 Flushing avenue	Public nuisance	Vacated November 28, 1906.
29	Dec. 5	No. 18 Fleet place	Defective plumbing and defective drainage	Vacated December 27, 1906.
30	Dec. 19	No. 62 Congress street	Defective plumbing	Work progressing.

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BOROUGH OF THE BRONX.

No.	Date.	Premises.	Cause.	Result.
1	Jan. 24	No. 3083 Third avenue	Defective drainage	Complied March 14, 1906.
2	Feb. 14	No. 2075 Arthur avenue	Public nuisance	Complied July 18, 1906.
3	Feb. 14	Avenue St. John and Southern boulevard	Public nuisance	Work progressing.
4	Feb. 28	North side of Jackson street, near Railroad avenue	Public nuisance	Complied July 12, 1906.
5	Mar. 21	East side of Second street, between Avenues B and C, Unionport	Public nuisance	Work progressing.
6	April 4	East One Hundred and Seventieth street, from Ogden to Plimpton avenue	Public nuisance	Vacated July 5, 1906; work progre
7 8	April 11 April 11	No. 1242 Fulton avenue	Defective drainage	Complied October 5, 1906. Complied July 21, 1906.
		sixth street	Public nuisance	Complied May 2, 1906.
9	April 11	West side of Elliott avenue, first stable north of Two Hundred and Fifth street.	Public nuisance	
0	April 11	Two Hundred and Twenty-eighth street and Sixth avenue, Williamsbridge		
I	April 18	Southeast corner of One Hundred and Seventy-sixth street and Crotona avenue	Defective drainage	
2	May 2	Tiffany street and Spofford avenue, Springhurst	Public nuisance	
3	May 2	Van Courtland street, one-quarter of a mile east of Eastchester road	Public nuisance	Vacated July 24, 1906; work p
4	May 2	East side of Ninth street, first stable north of Avenue D, Unionport	Public nuisance	Vacated July 7, 1906.
5	May 2	Longwood avenue and Mohawk street	Public nuisance	Work progressing.
5	May 2	Barretto Point	Public nuisance	Cows ordered to public pound.
	May 16	No. 2010 Quarry road	Defective drainage	Complied July 10, 1906.
	June 6	Ferris lane, Throggs Neck	Public nuisance	Complied November 28, 1906.
,	June 6	Spuyten Duyvil parkway, opposite Seton Hospital	Public nuisance	Work progressing.
	June 13	Findlay avenue and One Hundred and Seventieth street	Public nuisance	Complied December 11, 1906.
	June 13	Avenue E and Thirteenth street, UnionportSouth side of One Hundred and Sixty-second street, first stable west of Grant	Public nuisance	Complied September 10, 1906.
2	July 11	South side of One Hundred and Sixty-second street, first stable west of Grant avenue	Public nuisance	Complied July 11, 1906.
3	July 11	Southwest corner of Waterloo place and One Hundred and Seventy-sixth street	Defective plumbing and defective drainage	Complied July 18, 1906.
1	Aug. 1	Albany Post road, fourth house north of Two Hundred and Thirty-fourth street.	Public nuisance	Complied December 31, 1906.
5	Aug. I	South side of Clarke place, second house east of Jerome avenue	Public nuisance	Vacated September 21, 1906; w progressing. Work progressing.
		East side of Eastchester road, 400 feet north of Pelham parkway	Public nuisance	
7	Aug. 1	Jessup place and Claremont avenue	Public nuisance	
3	Aug. 22	West side of Concourse, first house south of One Hundred and Eighty-third street	Public nuisance	Work in abeyance, pending constr
9	Aug. 22	Sacred Heart Academy, Clason's Point	Public nuisance	tion of street sewer. Complied November 30, 1906.
0	Aug. 22	Reed's Mill lane, Eastchester	Public nuisance	
ı	Sept. 12	North side of Lafayette avenue, first house south of Westchester avenue	Public nuisance	Work progressing.
2	Sept. 19		Public nuisance	Complied November 26, 1906.
3	Sept. 19	South side of Ferry lane, first house east of Eastern boulevard		
1	Sept. 19	North side of Two Hundred and Tenth street, second house west of Elliott avenue		
;	Sept. 19	North side of Two Hundred and Tenth street, third house west of Elliott avenue.		
	Sept. 19	North side of Two Hundred and Tenth street, fourth house west of Elliott avenue		
7	Oct. 31	East side of Blondale avenue, third house south of Eastchester road	Public nuisance	Complied November 28, 1906.
8	Nov. 21	East side of Boston Post road, north of Fifth avenue, Eastchester	Public nuisance	
9	Nov. 21	Prospect Park Hill, Pelham Bay Park	Public nuisance	
0	Dec. 12	South side of Rock street and Albany Post roadSouth side of One Hundred and Forty-fifth street, first house west of Wales	Public nuisance	Work progressing.
11	Dec. 19	avenue	Defective plumbing	Work progressing.

BOROUGH OF QUEENS.

No.	Date.	Premises.	Cause.	Result.	
	Jan. 10	No. 6 Central avenue, Corona	Public nuisance	Complied March 14, 1906.	
2	Jan. 10	No. 151 Smith street, Corona	Public nuisance	Complied October 6, 1906.	
1	Jan. 10	No. 147 Buena Vista street, Corona	Public nuisance	Complied October 16, 1906.	
4	Tan. 10	No. 91 Twelfth street, College Point	Public nuisance	Complied October 1, 1906.	
-	Feb. 7	East side of Old Flushing road, 200 feet south of Grand street	Public nuisance	Complied April 26, 1906.	
6	Feb. 7	No. 7 Emma street, Metropolitan	Public nuisance	Complied August 4, 1906.	
7	Mar. 14	No. 22 Jacob place, Jamaica	Defective drainage	Complied May 31, 1906.	
8	April 11	No. 61 West Amity street, Flushing	Public nuisance	Complied May 10, 1906.	
0	April 11	Corner of Seventh street and Howland avenue	Public nuisance	Complied May 17, 1906.	
10	April 11	North side of Eleventh street, 200 feet east of Ninth avenue, Whitestone	Public nuisance	Complied October 15, 1906.	
11	April 11	No. 73 West Grove street, Flushing	Public nuisance	Complied June 22, 1906.	
12	April 11	North side of Fulton street, 500 feet west of Maiden lane	Public nuisance	Work progressing.	
13	April 11	Twentieth street, near Fifth avenue, College Point	Public nuisance	Complied June 6, 1906.	
14	April 18	North side of Flushing avenue, 150 feet west of Old Flushing road, Maspeth	Public nuisance	Complied May 29, 1906.	
15	April 25	East side of Astoria road, 500 feet north of Maurice avenue, Maspeth	Public nuisance	Complied July 2, 1906.	
16	April 25	East side of Old Town Landing, 200 feet north of Betts avenue, Maspeth	Public nuisance	Complied December 5, 1906.	
17	April 25	East side of Old Town Landing, 250 feet north of Betts avenue, Maspeth	Public nuisance	Complied May 29, 1906.	
18	April 25	East side of Old Town Landing, 350 feet north of Betts avenue, Maspeth	Public nuisance	Complied May 29, 1906.	
19	May 2	No. 5 Cedar place, Long Island City	Defective drainage	Complied December 13, 1906.	
20	May 2	South side of Metropolitan avenue, between Newtown Creek Bridge and Woodward avenue, 400 feet west of bridge	Public nuisance	Complied May 21, 1906.	
21	May 9	No. 418 Greene street, Evergreen	Public nuisance	Complied July 5, 1906.	4.2
22	May 9	No. 320 Fairmount street, Evergreen	Public nuisance	Complied June 1, 1906.	
23	May 9	South side of Cooper avenue, adjoining Liberty Park, Evergreen	Public nuisance	Complied December 12, 1906.	
24	May 16	Northeast corner of Harmon street and Covert avenue, Evergreen	Public nuisance	Complied June 21, 1906.	
25	May 16	East side of Ocean View avenue, adjoining Forest Park, Glendale Park	Public nuisance	Complied June 13, 1906.	
26	May 16	North side of Rose street, 100 feet east of Jamaica avenue, Flushing	Public nuisance	Complied October 1, 1906.	
27	May 16	East side of Whitestone avenue, 300 feet west of Bayside avenue, Flushing	Public nuisance	Complied June 29, 1906.	
28	May 16	West side of Astoria road, 400 feet north of Maurice avenue, Maspeth	Public nuisance	Complied July 3, 1906.	
29	May 16	East side of Webster avenue, 650 feet north of Cooper avenue, Glendale	Public nuisance	Complied September 27, 1906.	
30	May 23	West side of Fifteenth street, 100 feet north of Fifth avenue, College Point	Public nuisance	Complied June 29, 1906.	
31	May 23	Seventeenth street and High street, College Point	Public nuisance	Complied June 29, 1906.	*
32	•May 23	No. 76 West Amity street, Flushing	Defective drainage	Complied August 3, 1906.	

No.	Date.	Premises.	Catise.	Result.
33	June 6	Between Walling and Walnut streets, 1,000 feet east of Woodhaven avenue, Glen-		
34	June 6	dale Park	Public nuisance	Work progressing.
35	June 6	dale Park. Between Walling and Walnut streets, 1,000 feet east of Woodhaven avenue, Glendale Park.	Public nuisance.	Work progressing.
36	June 6	No. 106 South street, Jamaica	Public nuisance	Complied October 8, 1906.
37	June 6	Bayview avenue, near Willet's Point road, Little Bayside	Public nuisance	Complied October 29, 1906.
38	June 6	Alley road, near Broadway, Little Neck	Public nuisance	Complied July 19, 1906.
39	June 6	Corner of Eighth street and Fourth avenue, Whitestone	Public nuisance	Complied October 5, 1906.
40	June 6	Eighth street and Fourteenth avenue, Whitestone	Public nuisance	Complied December 18, 1906.
41	June 6	West side of Chestnut street, 150 feet north of Chichester avenue, Richmond Hill	Public nuisance	Complied November 3, 1906. Complied October 25, 1906.
42	June 6	West side of Elm street, first house south of Chichester avenue, Richmond Hill. West side of Greenwood avenue, 200 feet north of Liberty avenue, Richmond Hill	Public nuisance.	Complied October 12, 1906.
43	June 6	Corner of Dry Harbor and Juniper Swamp roads, Middle Village	Public nuisance	Work progressing.
44	June 6	East side of Ward street, 300 feet north of Liberty avenue, Richmond Hill North side of Union Turnpike road, one-quarter of a mile west of railroad,	Public nuisance	Complied July 13, 1906.
46	June 6	North side of Union Turnpike road, one-quarter of a mile west of railroad, Richmond Hill	Public nuisance	Complied September 7, 1906.
47	June 13	No. 74 Cherry street, Brooklyn Hills	Public nuisance	Complied October 1, 1906.
48	June 13	West side of Drew avenue, 200 feet south of Rockaway road, Union Course	Public nuisance	Work progressing.
49	June 13	East side of Fosdick avenue, 300 feet south of Central avenue, Glendale	Public nuisance	Complied December 27, 1906. Work progressing.
50	June 13	Metropolitan avenue, opposite Helen street, East Williamsburg	Public nuisance	Complied July 3, 1906.
51	June 13	Centre street, near Rockaway road, Union Course	Public nuisance	Complied November 5, 1906.
52	June 13	East side of Martin avenue, first house south of Myrtle avenue, Glendale Park	Public nuisance	Complied October 25, 1906.
53	June 13	No. 3 Railroad avenue, Rockaway Beach	Defective drainage	Complied August 13, 1906.
55	June 13	No. 5 Railroad avenue, Rockaway Beach	Defective drainage	Complied August 22, 1906.
56	June 13	No. 7 Railroad avenue, Rockaway Beach	Defective drainage	Complied August 22, 1906.
57	June 27	Corner of Jackson avenue and Rawson street, Long Island City	Public nuisance.	Complied August 2, 1906.
58	June 27	West side of Columbia avenue, north of railroad crossing, Maspeth	Public nuisance	Complied August 7, 1906. Complied October 24, 1906.
59 60	June 27 June 27	North side of Jackson avenue, 500 feet west of Newtown road, Long Island City. West side of Bowery Bay road, 125 feet north of Vandeventer avenue, Long	Public nuisance	Complied December 10, 1906.
		Island City	Defective drainage	Complied December 3, 1906.
61	July 11	Rear of No. 249 William street, Long Island City	Public nuisance	Work progressing.
63	July 11	No. 69 Frankfort street, Long Island City	Public nuisance	Complied December 17, 1906.
64	July 11	No. 217 Elm street, Long Island City	Public nuisance	Complied November 19, 1906.
65	July 11	No. 41 Purvies street, Long Island City	Public nuisance	Complied September 17, 1906.
66	July 11	Opposite No. 69 Frankfort street, Long Island City	Public nuisance	Complied October 10, 1906. Complied September 17, 1906.
67	July 11	No. 44 Dutch Kills street, Long Island City	Public nuisance	Complied November 12, 1906.
68	July 11	No. 207 Newtown road, Long Island City	Public nuisance	Complied September 18, 1906.
69	July 11	No. 26 School street, near Skillman avenue, Long Island City No. 85 Sherman street, Long Island City	Public nuisance	Complied September 18, 1906.
70	July 11	No. 86 Marion street, Long Island City	Public nuisance	Complied September 18, 1906.
71 72	July 11	No. 133 Newtown road, Long Island City	Public nuisance	Complied September 17, 1906.
73	July 11	No. 217 Park place, Long Island City	Public nuisance	Work progressing.
74	July 11	Potter avenue and Crescent street, Long Island City	Public nuisance	Complied October 11, 1906. Complied December 5, 1906.
75	Aug. 22	West side of Hall street, 400 feet north of Flushing road, Corona	Public nuisance	Complied November 1, 1906.
76	Aug. 22	No. 433 Honeywell street	Public nuisance	Work progressing.
77	Aug. 22	Corner of Seventeenth street and Eighth avenue, College Point	Public nuisance	Complied September 6, 1906.
78 79	Aug. 22 Aug. 22	No. 26 Fifth street, North Woodside	Public nuisance	Complied December 10, 1906.
80	Aug. 22	No. 8o Henry street, Winfield	Public nuisance	Complied September 25, 1906.
81	Aug. 22	No. 49 Junction avenue, Corona	Public nuisance	Complied November 28, 1906.
82	Aug. 22	No. 13 Grove street, Flushing	Public nuisance	Complied November 14, 1906. Complied November 12, 1906.
83	Aug. 22	No. 103 Lake street, Corona	Public nuisance	Complied November 12, 1906.
84	Aug. 22	No. 103 Grove street, Corona	Public nuisance	Complied November 12, 1906.
85	Aug. 22 Sept. 19	South side of Elm avenue, opposite Forest avenue, Evergreen	Public nuisance	Complied December 12, 1906.
87	Sept. 19	No. 1740 Green avenue, Ridgewood	Public nuisance	Complied December 20, 1906.
88	Sept. 19	South side of Elm street, opposite Forest avenue, Evergreen	Public nuisance	Complied September 25, 1906.
89	Sept. 19	East side of Woodhaven avenue, 1,000 feet south of pine line	Public nuisance	Complied October 10, 1906. Work progressing.
90	Sept. 19	No. 1484 Metropolitan avenue, opposite Helen street, Metropolitan	Public nuisance.	Complied December 29, 1906.
91	Sept. 19	Court street, opposite Toledo avenue, Newtown	Public nuisance	Complied October 23, 1906.
92	Sept. 19 Sept. 19	South side of Court street, 200 feet west of Toledo avenue, Newtown	Public nuisance	Complied December 29, 1906.
93	Sept. 19	Calamus road, 700 feet east of Jefferson avenue, Newtown	Public nuisance	Work progressing.
95	Sept. 19	West side of Betts avenue, 1,200 feet north of Maspeth avenue, Maspeth	Public nuisance	Complied November 21, 1906.
96	Sept. 19	No. 24 Butler street, Metropolitan	Public nuisance	Complied December 12, 1906.
97	Oct. 3	Woodside, near Kelly avenue, Woodside	Public nuisance Public nuisance	Work progressing. Work progressing.
98	Oct. 3	Southwest corner of Old Brook School road and Debevoise avenue, Laurel Hill.	Public nuisance	Work progressing.
99	Oct. 3	Court street, opposite Prospect street, Newtown Old Brook School road, near Debevoise avenue, Laurel Hill	Public nuisance	Complied December 10, 1906.
100	Oct. 10	Twenty-seventh street, north of Third avenue, College Point	Public nuisance	Work progressing.
102	Oct. 10	Ireland Mill road, south of Flushing avenue, Flushing	Public nuisance	Complied November 14, 1906.
103	Oct. 10	No. 220 Colden avenue, Flushing	Public nuisance	Complied October 29, 1906.
104	Oct. 17	No. 346 Second street, Woodside	Defective drainage	Complied October 27, 1906.
105	Oct. 17	West side of Blackstump road, one-half mile north of Hillside avenue, Jamaica	Public nuisance	Complied October 24, 1906. Work progressing.
106	Oct. 24 Nov. 21	No. 606 Seventh avenue, College Point. East side of Blackstump road, about one-quarter of a mile north of Hillside avenue, Jamaica.	Public nuisance	Complied December 3, 1906.
108	Dec. 5	No. 168 Sixteenth avenue, Long Island City	Public nuisance	Work progressing.
109	Dec. 5	No. 1065 Fourth avenue, Long Island City	Public nuisance	Work progressing.
110	Dec. 5	Corner of Carroll avenue and Hempstead Turnpike, Hollis	Public nuisance	Work progressing.
111	Dec. 5	Anderson avenue, near Second street, Woodside	Public nuisance	Work progressing.
112	Dec. 19	North side of Old South road, about 200 feet west of Centreville avenue, Aqueduct	Public nuisance	Work progressing.
113	Dec. 26	Fulton street, near Palatina avenue, Hollis	Public nuisance	Work progressing.
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BOROUGH OF RICHMOND.

0.	Date.	Premises.	Cause.	Result.
ı	Jan. 17	North side of Richmond road, near Vanderbilt avenue		
2	Jan. 17	Neckar avenue, Fourth Ward	Public nuisance	
3	Jan. 17	West side of Manor road, between Richmond turnpike and New York avenue	Public nuisance	The second secon
1	Jan. 17	First place, Second Ward	Public nuisance	The second secon
	Jan. 17	South side of Richmond avenue, Second Ward	Public nuisance	
	Jan. 17	Virginia and St. Mary's avenues, Rosebank	Public nuisance	The second secon
	Jan. 17	East side of Richmond street, West New Brighton	Public nuisance	
	Jan. 24	Barker street, near Castleton avenue, First Ward	Public nuisance.	
	Jan. 24	East side of Carey avenue, Chelsea, Third Ward	Public nuisance.	All and a second of
	Jan. 24	West side of Manor road, near Todt Hill road, First Ward	Public nuisance	The state of the s
	Jan. 24	Richmond turnpike, east of Bulls Head	Public nuisance	
	Jan. 24	Richmond turnpike, between Willowbrook road and Jewett avenue	Public nuisance,	
	Jan. 24	West side of Manor road, First Ward	Public nuisance	The state of the s
	Jan. 24	South side of Watchogue road, near Westerleigh, First Ward	Public nuisance	
	Jan. 24	Corner of Carey avenue and Richmond turnpike	Public nuisance.	
	Jan. 24 Feb. 7	East side of Richmond avenue, Springfield	Public nuisance	
		South side of Washington avenue, Third Ward	Public nuisance	Control of the Management of the Control of the Con
	Feb. 7	Amboy road, near Annadale road, Fifth Ward	Public nuisance.	2 CH . CO. C.
	Feb. 7	South side of Washington avenue, Third Ward	Public nuisance	
	Feb. 7	Sprague avenue, Fifth Ward	Public nuisance.	
	Feb. 7	South side of Washington avenue, Third Ward	Public nuisance.	
	Feb. 7	South side of Washington avenue, 1 nird ward	Public nuisance.	
	Feb. 7	Sharrott's lane, Fifth Ward	Public nuisance	
	Feb. 7	Corner of Manor and Todt Hill roads, Second Ward	Public nuisance	
	Feb. 7	South side of Virginia avenue, Fourth Ward	Public nuisance	
	Feb. 7	Twelfth street, First Ward	Public nuisance.	
	Feb. 28	Twelfth street, First Ward		Contract to the second second
	Feb. 28	Sea View avenue, Garretson		
	Feb. 28	Lyman avenue, Fourth Ward		
	Feb. 28			
	Feb. 28	Corner of Fingerboard and Richmond roads	Public nuisance	
	Feb. 28	Richmond avenue, near Egbertville, Fourth Ward		
	Feb. 28	Amboy road, near New Dorp, Fourth Ward		
	Feb. 28	Corner of St. John's avenue and Third street, Fourth Ward		
	Feb. 28	Riverside avenue, Kreischerville		Complied October 3, 1906.
	April 11	Richmond road, near Fresh Kill road		
	April 25	Sharrott's road, Fifth Ward		
	April 25	West side of Richmond turnpike, Third Ward		
	April 25	No. 4 Sherman street, Third Ward		
	May 2	Clark avenue, near Amboy road, Oakwood		
	May 2	No. 342 Bay street, Second Ward		
	May 16	West side of Davis avenue, near Richmond terrace, First Ward		
	June 13	No. 250 Jersey street, First Ward		
	June 13	No. 256 Jersey street, First Ward		
	July 11	Britton avenue, Fourth Ward		
	July 18	No. 25 Tyson street, First Ward		
	July 18	No. 15 Brighton avenue, First Ward		
	July 18	No. 31 Franklin street, First Ward		
	July 18	North side of Fresh Kill road, Fourth Ward		
	July 18	Foot of Seguins lane, Fifth Ward		
	Aug. 1	West side of Carey avenue, Chelsea, Third Ward		
	Aug. 1	No. 6 Pine street, First Ward	Defective drainage	
	Aug. 1	No. 28 Canal street, Second Ward	Defective drainage	
	Aug. 1	No. 235 Bay street, Second Ward	Defective drainage	
	Aug. 1	No. 8 Pine street, First Ward	Defective drainage	Complied November 22, 1906.
	Aug. 8	Foot of Androvette avenue, Fifth Ward	Public nuisance	
	Aug. 8	No. 194 Broadway, First Ward	Defective drainage	gressing
	Sept. 12	Foley's Grove, Fourth Ward	Public nuisance	Work progressing.
	Sept. 19	Danube avenue, Fourth Ward	Public nuisance	Work progressing.
	Sept. 19	Belmont place and Vine street, First Ward	Defective drainage	Complied October 2, 1906.
	Oct. 24	Richmond avenue, near Butcherville road, Third Ward	Public nuisance	Complied November 22, 1906.
	Oct. 24	North side of Manor road, First Ward	Public nuisance	Complied December 18, 1906.
	Oct. 24	Signs road, Third Ward	Public nuisance	Complied December 8, 1906.
	Oct. 31	South side of Richmond turnpike, near Castleton Corners	Public nuisance	Complied November 22, 1906.
	Oct. 31	Catherine street, near Richmond avenue, Third Ward	Public nuisance	Complied November 8, 1906.
	Oct. 31	Pleasant Valley avenue, Second Ward	Public nuisance	Work progressing.
	Oct. 31	Elm street, near Castleton avenue, First Ward	Public nuisance	Work progressing.
	Oct. 31	West side of Holland avenue, Third Ward	Defective drainage	Work progressing.
	Oct. 31	No. 2 Holland avenue, Third Ward	Defective drainage	
	Oct. 31	No. 3 Holland avenue, Third Ward	Defective drainage	
	Oct. 31	No. 4 Holland avenue, Third Ward		
	Oct. 31	No. 5 Holland avenue, Third Ward		
	Oct. 31	No. 6 Holland avenue, Third Ward		
	Oct. 31	North side of Washington avenue, Third Ward		
	Oct. 31	West side of Holland avenue, Third Ward	Defective drainage	
	Nov. 7	West side of Holland avenue, south of Richmond terrace, Third Ward	Defective drainage	
	Nov. 7	West side of Holland avenue, 178 feet south of Richmond terrace, Third Ward	Defective drainage	
			Defective drainage	
	Nov. 7	West side of Holland avenue, 550 feet south of Richmond terrace, Third Ward		Work progressing.

No.	Date	e.	Premises.	Cause.	esult.
80	Nov.			, Defective drainage Work progressing	
81	Nov.			Defective drainage Work progressing	
82	Nov.			Public nuisance	
84	Nov.	100		Public nuisance Work progressing	
85	Nov.	7		. Public nuisance	
86	Dec.			Defective drainage	
	Dec. :	20	No. 194 Vanderbilt avenue, Second Ward	Work progressing	
	ber of	pre		A Transaction of the Artist of	8,73
Numl	ber of	pre	mises—work not complied with	Total	-
V	Vork i	in p	Complied With— progress	Number of complaints forwarded for Board's orders	
P	remise Vork i	es in al	Progress— vacant beyance pending construction of sewer red to public pound	Number of nuisances abated by personal effort	vation 4.08
	w	OR	K PERFORMED BY THE DIVISION OF INSPECTION.	Number of arrests made	84
			Work Performed by the Inspectors.	WORK PERFORMED BY THE DIVISION OF CONTAGION	US DISEASES
		re	otal number of inspections and reinspections	Number of visits to cases of contagious diseases	198,17,
			Classified as to Character of Premises.	Number of visits to tenement houses	261.45
Numb	er of	she	nement houses	Number of visits to schools	630
Numb	er of	pr	dging housesivate dwellings	Number of visits, miscellaneous	44,79; 28,66;
Numb	per of	ma	ercantile establishments	Total number of visits	451,669
Numb	er of	sur	ables	Number of primary vaccinations	88 445
Numb Numb	per of	co	mplaints forwarded for Board's orders	Total number of vaccinations	
Numb	er of	spe	cimens of milk examined		
Numb Numb Numb Numb Numb Numb	er of er of er of er of er of	per arr pers	cimens of milk collected for analysis	Number of animals examined. Number of post-mortems on animals. Number of glandered horses condemned and destroyed. Number of persons removed to Contagious Disease Hospital. Number of dead bodies removed to Morgue. Number of houses visited for disinfection.	
	22.72.		Mercantile Establishments.	Number of infected rooms disinfected	3,820
Numb	er of	chile	dren interviewed applying for certificates	Number of pieces infected goods destroyed	31,194
Numb	er of	emp	ployment certificates granted 21, plicate certificates issued.		
Numb Numb	er refi er refi	used	by reason of insufficient education		1906.
Numbe	er of :	appl	1 by reason of physical incapacitylicants under age	Country and	easle
lumbe			licants over age	Boroughs. Ed to be ide to be identified by ide to be identified by ident	ers.
		Tot	tal number refused	Diphtheria Croup. Scarlet Fer Measles. Whooping Smallpox.	Glande Total.
Numb Numb	er of er of	con	nplaints receivednplaints returned for orders		
T	he nu	mbe	er of dead animals and the quantity of offal, garbage, etc., remo-	The state of the s	360 6 34,666 18 24,74
rom t	the sh	ore	front by the Shore Inspectors was:	The Bronx 1,251 566 3,005 90 396 128	26 5,46:
Cats .				n	3 2,98
oats				Richmond 224 145 1,790 11 219 345	14 2,74
logs				City of New York. 14,757 7,881 38,653 1,942 4,667 2,177 100	421 6 70,60
Horses	s			Overentine	
70.70			al number of animals	1 11	1,309
Offal,	pieces	of		Work Performed by the Medical School Inspectors.	
Beddin Clothin Mattre	ig, pie	eces nun	of	Schools. Number of Number of Number of Ch	mber of Number of ildren Children mined. Excluded.
ıumar	ı bodi	ies,	Work Performed by the Sanitary Police.	n.w.	
Jumbe	er of	insp	pections 285	Described actuals	80,543 11,662 44,415 906
umbe		_	aspections. 37%	Industrial schools, American Female Guardian Society 1,436	16,471 74
		1 Ot	al number of inspections and reinspections 322,	Delegate actuals	31,702 154
Jumb	er of	ton	Classified as to Character of Premises.	Vindamenta alta la	5,039 14 29,074 85
Tarant.	er of	lodg	ement houses. 61,2 ging houses. 2,0 rate dwellings. 40,9	5,340	
Tumbe		PLIV	cantile_establishments	Total 88,813 5,00	07,244 12,895

Table Showing Diseases for Which Children	Were	Excluded.
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	- tage -			-	able 5110	wing Dise	ases for vv	hich Children	were 15						
	Schools.				Measles.	Diphthe	Scarlet Fever.	Whooping Cough.	Mumps.	Contagious Eye Diseases.	Pediculosis.	Chicken- pox.	Skin Diseases.	Miscel- laneous.	Total Exclude
Public schools				{	*307	*60	*27					*583			11,6
					343	74	40 *2	295	1,221	5,150	1,963	626	1,475	475	.,
Parochial schools				{	3 .	2	2	6	24	584	168	11	96	10	9
ndustrial schools, Ame	erican Female Gua	rdian So	ociety	{	*10			****	****	****	****	*8		****	
				. (*9			3	9	21	10	8 *6			
ndustrial schools, Chil	dren's Aid Society	t		{	9			11	22	67	8	6	22	9	1
rivate schools				{				in.				*1			
				t	*12		*1			3		*17		7	
Kindergarten schools				{	12		1	4	7	20	6	17	12	6	
					*341	*62	*30					*626			
· Total				{	377	77	43	319	1,286	5,845	2,155	669	1,616	508	12,8
Cases of true meas	sles, diphtheria, sc	arlet feve	er and cl	nicken-po	x marked	thus (*).		1				,			
	Work Perfo	rmed by	v the S	chool 1	Nurses.					T	uberculosis 1	Nurses.			
Number of visits to Number of visits to	tenement hous	es						Number of	visits to	new living c dead cases o	ases of tube	rculosis			11,6
Number of wiscella								Number of	reinspect	ions made					18,6
Total r	number of visit	s					70,198	Number of	inspection	old cases of ns of culture	stations				1,8
	Number of C	Cases of	Diseas	es Care	d For.			Total inspec	tions mad	e				=	38,
Pediculosis								Number of	bacteriolo	gical diagnos	sis of suspec	ted diphth	eria		25,4
ontagious eyes dis	eases						185,474	Number of	cases fou	nd not to be	true diphtl	ieria			14,
ingworm							18,235	Number of	bacteriolo	ogical diagno ogical examir	nations of he	ealthy thro	oats in infec	ted fam-	
avus							2,342	Number of	later bact	eriological e	xaminations	of diphth	eria (conva	lescent).	24,
Ieasles Diphtheria							610	Number of	bacteriolo	taken by Me ogical examin	nations of sp	outum from	m cases of s	suspected	-
carlet Fever								Number of	tubercle	bacilli found					21, 6,
Total r	number of cases	treated	d				. 1,197,741			bacilli not for					14,
lumber of new ch	ildren treated						. 88,902	test)		s showing p					6,
Tumber of examina Tumber of exclusion	ations of children.	en					. 3,119,815	Number of	specimen	s showing n s showing d	egative reac	tion			4,
dilloct of chemist								Number of	specimen	s of urine ex s showing pe	amined for	typhoid fe	ver reaction	(Diazo)	1,
Jumber of visits to	Work Perfo						. 49,532	Number of	specimens	s showing ne	gative react	ion			
Number of miscella Number of families	neous visits						9,469	Number of	specimen	s showing des of blood e	xamined for	malarial	organisms.		I,
Number of children	examined at p	pier for	St. Jol	nn's Gu	ild		. 39,181	Number of	malarial	organisms forganisms no	t found				1,
Number of sick tre. Number of revisits.							1,655	Number of Number of	specimen positive .	s of cerebro	-spinal fluid	examined			
Number of primary Number of revaccin	ations						7,096	Number of	negative	collect diphth	eria culture	tubes, san	nples of spu	tum, etc.	31,
Number of certifica Number of circular	ates of vaccinat s and hangers	ion issu distribut	ted				1,193	Number of	laborator	y preparation ubes prepare	is made				80, 97,
Number of ice ticke Number of milk tic	ets distributed						1,021	Number of	swahe m	ade ars prepared					99.
Number of St. John Number of sunstrol	n's Guild ticket	s distrib	buted				9,476	Number of	Widal or	thits prepare	d				5,
Number of miscella	neous circulars	distribu	uted				10,747	Number of	malaria c	outfits prepar	ed				2,
Number of Visits to Scarlet fever .	o Cases of—							Number of	new case	pinal mening s treated at	Tuberculosis	Clinics			- 4,
Diphtheria							. 03	Number of	prescripti	treated at 7					17, 36,
Measles							. 90	Number of	new extr	eiving extra	S				1,0
Manner of Feeding Breast fed							40,610	Number of	renewals	under observ					1,0
Condensed milk	¢	• • • • • • • •					. 1,266 . 1,720	T, uniber or	pariti		710010 020000	*		-	
Modified milk Patent food							5,338		K PERI	FORMED B	Y THE DI	VISION	OF LABO	RATORI	ES.
Other feeding							7,333			Work Perfor					
WORK PERFORM	MED BY THE	DIVIS	ION C	F CON	MUNIC	CABLE D	ISEASES	Number of	visits to	tenement ho	ouses				2,
Number of new cas					9 10			Number of		mber of vis					2,
Number of curative Number of cases in	e injections give	en					5,195	-	Total no	imber of vis	115			=	
Number of cases of Number of diphthe	f diphtheria int	ubated					. 288	Total prima	ry vaccin	nations on certificate					1,
Number of living c	ases of tubercul	losis inv	vestigate	ed			. 10,335	Number of	specimen	s of vaccine	virus tested	bacteriolo	gically		-,
Number of dead ca Number of typhoid	fever inspection	ns					4,382	Number of	animals of	vaccinated collected from	n				2,087
Number of cerebro Number of miscella	spinal meningit	ns	ections.				3,135	Number of	cubic cen	of vaccine value of l	iquid vaccin	e virus pr	epared		10,
	number of inspe							Number of	capillary	arged with l tubes of vac	ccine virus 1	prepared			4, 94,
	complaints for	warded	for Bo	ard's o	rders		. 1,545	Number of	small via	ls of vaccine	e virus prep	pared ared			2,
Jumber of original	tions performed						9,302	Number of	mailing 1	olocks prepar on animals	ed				124,
Number of original Number of fumigat	of Diseases Re	ported,	Year F	Ending 1	December	r 31, 1906.		Number of	guinea ni	igs injected mals experin	with vaccine	virus			
Number of fumigat		-		Cerebro-	Puer-			Number of						=	
Number of fumigat			AF-11-1	spinal	peral	Abor- Ention. sip				Work Perfor					
Number of fumigat	Tuber- Typhoid culosis. Fever.	Pneu- monia.	Fever.	Menin-				I Number of	bacteriolo	gical examin	ations of old	cultures /	at dinhtheri		36
Number of fumigat	aulania liawar	Pneu- monia.	Fever.	Menin- gitis.	cæmia.			Number of	inoculation	ons of anima	ls with toxir	is for deve	elopment of	antitoxic	
Number of fumigat Number Borough.	culosis. Fever.	Pneu- monia.	Fever.	Menin-	cæmia.		26 17,469	Number of	inoculation	ons of anima	ls with toxin	ns for deve	elopment of	antitoxic	
Number of fumigat Number Borough. Manhattan	12,693 1,713 5,324 1,215	1,456 3,761	221 76	Meningitis. 679 241	25 28	6	85 10,736	Number of substant Number of Number of	inoculation ces animals b cubic cer	ons of anima oled for antit	ls with toxing oxic serum. diphtheria a	ns for deve	elopment of erum produ	antitoxic	1,090,
Borough. Manhattan Brooklyn The Bronx	12,693 1,713 5,324 1,215 1,198 301	1,456 3,761 747	221 76 26	Meningitis.	cæmia.	6		Number of substant Number of Number of Number of tribution	animals b cubic cer cubic cer	ons of anima oled for antit ntimeters of atimeters of	ls with toxin oxic serum. diphtheria a diphtheria a	ntitoxic so	elopment of erum produ erum bottle	cedl for dis-	260,
Number of fumigat Number Borough. Manhattan	12,693 1,713 5,324 1,215	1,456 3,761	221 76	Meningitis. 679 241 72	25 28 21	6 5 1	85 10,736 22 2,392	Number of substand Number of Number of tribution Number of Number of	inoculations ces animals because centre centre cubic centre cubic centre cubic centre cubic centre cubic centre	ons of anima oled for antit timeters of timeters of	ls with toxin oxic serum. diphtheria a diphtheria a tetanus antit tetanus an	ntitoxic sentitoxic seruntitoxic seruntitoxic serun	erum produerum bottled n produced.rum bottled	ced 1 for dis-	1,090, 260, 4

	also d		
Tumber of cubic centimeters of tuberculin bottled for distribution	336 Number 484 Number	of chloral hydrate	••••••
umber of samples of antitoxic serums testedumber of disinfection tests	1,212 Number 8,337 Number	of chewing gum. of chicken feed. of chloroform.	
	- Number	of chocolate	
Pasteur Treatment.	Number	of chow-chow	
umber of cases receiving Pasteur treatment	323 Number	of cider	
umber of inoculations of fixed virus	359 Number	of cigarsof cinnamon	
imber of cards sent to Rhode Island Hospital for Pasteur treatment	Number	of citrate of magnesia	
Diagnosis of Hydrophobia.	Number	of coat (for oil of vitriol)	
mber of animals inoculated for diagnosismber of animals received for diagnosis	Number	of cocoa	
	Number	of coca leaves of codeine	
Diagnosis of Glanders.	Number	of cod liver oil	
mber of animals innoculated	Number	of coffee	
nber of specimens examined	50 Number	of Congo brown	
nber of bacteriological examinations of water	87 Number	of colchicum seeds (powdered)	
nber of bacteriological examinations of feces	2 Number	of colchicum seeds (fincture)	
nber of bacteriological examinations of urine	I Number	of conium (powdered)of conium maculatum	
her of miscellaneous examinations— Pneumonia	-o Number	of coloring matter	
Hydrophobia Rabies	Number	of coumarinof corned beef	
Diphtheria cultures for virulence	Number	of corn starchof creme de menthe ess	
Carcrum oris Dust (school room)	Number	of cream (evaporated)	
Variola Varicella	Number	of creams	
Bactericidal test	Number	of cremolin paste	
Otitis Meningitis	Number Number	of dagger (presence of blood) of deposit from grave urn	
Scarlet fever tests	Number	of digitalis (tincture)	
Measles	Number	of digitalis (fluid extract)	
Pleurisy Scurvy	I Number	of digitalis (pulverized)	
Bottles of antitoxin serum tested	Number	of drawer containing a dry residue of egg (Korno)	
Carcinomata Bread	Number	of egg substitute (Korno)	
bscesses Malaria	Number	of engine oilof ergot (powdered extract)	
Cuberculin	i Number Number	of ergot (crushed) of ergot (fluid extract)	
Syphoid fever	Number	of ergot, secale cornatum	
Hydrophobias tested for virulence	Number	of essence of peppermint	
Sera tests	Number	of Eureka pasteof experimental analyses	
Experimental rabies	Number	of extract pure almond	
Normal sera	14 Number	of extract bitter almond	
Work Performed at the Chemical Laboratory.	Number	of extract cinnamonof extract coffee	
ber of reports forwarded and filed	3.521 Number	of extract Jamaica ginger	
l number of analyses	Number	of extract lemon peelof extract lemon	
Classified as to Character of Analysis.	Number	of extract orangeof extract pineapple	
ber of acacia (gran.)ber of acetanilid powder	I Number	of extract pistacheof extract maraschino	
ber of aconite (tr.)	4 Number	of extract strawberry	
ber of aconite (fl. ext.)ber of aconite root	3 Number	of extract peachof extract raspberry	
ber of apple butterber of alcohol (absolute)	I Number	of extract roseof extract sarsaparilla	
ber of alcoholic liquors	17 Number	of extract vanilla	
ber of Aloesber of ammonol tablets	I Number	of extract tutti fruttiof fat	
per of atropine tablets per of avisol	I Number	of fertilizer (fresh)	
per of bacon	I Number	of fertilizer (screened)	
per of baking powderber of bauren wurst	4 Number	of fish (dried)of formaldehyde	
ber of barley (patent) ber of beading oil	I Number	of fox glove (crushed)	
ber of beef (spiced)	3 Number	of frankfurtersof Freeze 'Em pickle	
per of beef pickles	5 Number	of fruit, whole, cherryof fruit, crushed	
oer of belladonna (powd.)	16 Number	of fruit, stock	
per of beans	2 Number	of gelsium (fluid extract)	
per of beets (canned)	I Number	of gherkins (pickled)of gelatin	
ber of blood wurst	13 Number	of gallic acid	
per of blood colors	302 Number	of glycerinof ginger ale	
per of blue ointment	I Number	of ginger ale, fruit essenceof ginger fruit syrup	
per of borax	10 Number	of ginger tincture	
er of boric acid	I Number of	of glucose, new process	
or bovinine	2 Number	of Gum Kinoof ham (pressed)	
per of bread	T Number	or nam (pressed)	
er of bread er of brandy, cognac er of breast fat	I Number of	of ham (potted)	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.)	I Number of Number of Number of	of ham (potted)of head cheese	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buchu tincture	Number of Number	of ham (potted)	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buchu tincture per of buther per of bull meat flour	I Number of Numb	of ham (potted)	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buchu tincture per of butter per of butter per of calcium chloride per of calcium hypophosphite	I Number of Numb	of ham (potted)	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buchu tincture per of butter per of bull meat flour per of calcium chloride per of calcium hypophosphite per of calomel	I Number of Numb	of ham (potted) of head cheese of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey of hyoscyamus herb	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buther per of buther per of buther per of bull meat flour per of calcium chloride per of calcium hypophosphite per of candy per of candy per of candy coloring	I Number of Numb	of ham (potted). of head cheese. of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey	
ber of bread ber of brandy, cognac ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu (fl. ext.) ber of buchu tincture ber of butter ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy coloring ber of candy flavor	I Number of Numb	of ham (potted) of head cheese of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey of hyoscyamus herb of hyoscyamus tincture of hyoscyamus fluid extract of hyoscyamus powdered extract	
ber of bread ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu leaves ber of buchu tincture ber of butter ber of bull meat flour ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy ber of candy coloring ber of candy flavor ber of cannabis indica (powd. ext.) ber of cannabis indica (fl. ext.)	I Number of Numb	of ham (potted) of head cheese of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey of hyoscyamus herb of hyoscyamus tincture of hyoscyamus fluid extract of hyoscyamus powdered extract of hyoscyamus leaves of hydrastis root	
per of bread per of brandy, cognac per of breast fat per of buchu leaves per of buchu (fl. ext.) per of buthu tincture per of buther per of calcium chloride per of calcium hypophosphite per of candy per of candy coloring per of candy flavor per of cannabis indica (powd. ext.) per of camphor liniment per of carbolic acid (crude)	I Number of Numb	of ham (potted) of head cheese. of health extract. of hemlock (ground) of henbane leaves (ground). of henbane (fluid extract). of henbane (powdered extract). of honey of hyoscyamus herb of hyoscyamus fluid extract of hyoscyamus powdered extract of hyoscyamus powdered extract of hyoscyamus leaves of hydrastis root of horse ball	
ber of bread ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu (fl. ext.) ber of buchu tincture ber of butter ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy coloring ber of candy flavor ber of cannabis indica (fl. ext.) ber of camplor liniment ber of carbolic acid (crude) ber of carbolic wash	I Number of Numb	of ham (potted) of head cheese. of health extract. of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey. of hyoscyamus herb. of hyoscyamus fincture. of hyoscyamus fluid extract. of hyoscyamus powdered extract. of hyoscyamus leaves. of hydrastis root. of horse ball. of horse radish. of hydrogen peroxide.	
ber of bread ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu (fl. ext.) ber of buthu tincture ber of butter ber of butl meat flour ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy coloring ber of cannabis indica (powd. ext.) ber of cannabis indica (fl. ext.) ber of carbolic acid (crude) ber of cascara quinine bro. tab. ber of cascara sagrada (fl. ext.) ber of cascara guinine bro. tab. ber of cascara guinine bro. tab. ber of cascara gagrada (fl. ext.)	I Number of Numb	of ham (potted) of head cheese of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey of hyoscyamus herb of hyoscyamus tincture of hyoscyamus fluid extract of hyoscyamus powdered extract of hyoscyamus leaves of hydrastis root of horse ball of horse radish of hydrogen peroxide of ice of ice cream	
ber of bread ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu (fl. ext.) ber of buchu tincture ber of butter ber of bull meat flour ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy coloring ber of candy flavor ber of cannabis indica (powd. ext.) ber of camphor liniment ber of carbolic acid (crude) ber of cascara quinine bro. tab. ber of cascara sagrada (fl. ex.) ber of cascara sagrada (tr.) ber of cascara sagrada (tr.)	I Number of Numb	of ham (potted) of head cheese. of health extract. of hemlock (ground) of henbane leaves (ground). of henbane (fluid extract). of henbane (powdered extract). of honey of hyoscyamus herb of hyoscyamus fluid extract. of hyoscyamus gowdered extract. of hyoscyamus powdered extract. of hyoscyamus leaves of hydrastis root of horse ball of hydrogen peroxide of ice of ice cream of iodine tincture.	
ber of bread ber of brandy, cognac ber of breast fat ber of buchu leaves ber of buchu (fl. ext.) ber of buthu tincture ber of butter ber of calcium chloride ber of calcium hypophosphite ber of candy ber of candy ber of candy flavor ber of cannabis indica (powd. ext.) ber of carbolic acid (crude) ber of carbolic acid (grude) ber of cascara sagrada (fl. ex.) ber of castsup ber of catsup ber of catsup ber of catsup ber of cascara sagrada (tr.) ber of catsup ber of catsup ber of catsup	I Number of Numb	of ham (potted) of head cheese of health extract of hemlock (ground) of henbane leaves (ground) of henbane (fluid extract) of henbane (powdered extract) of honey of hyoscyamus herb of hyoscyamus tincture of hyoscyamus fluid extract of hyoscyamus leaves of hyoscyamus leaves of hydrastis root of horse ball of horse radish of hydrogen peroxide of ice cream of iodine tincture of iodine of iron pills of ipecac (powdered)	
nber of bovinine nber of bread nber of brandy, cognac nber of breast fat nber of buchu leaves nber of buchu (fl. ext.) nber of buchu tincture nber of butter nber of calcium chloride nber of calcium hypophosphite nber of candy nber of candy coloring nber of cannabis indica (powd. ext.) nber of cannabis indica (fl. ext.) nber of carbolic acid (crude) nber of cascara quinine bro. tab. nber of cascara sagrada (fl. ex.) nber of cascara sagrada (fl. ex.) nber of cascara sagrada (fl. ex.) nber of celery nber of cervelat wurst nber of cervelat wurst nber of cervelat wurst nber of cherries, preserved.	I Number of Numb	of ham (potted) of head cheese. of health extract. of hemlock (ground). of henbane leaves (ground). of henbane (fluid extract). of henbane (powdered extract). of honey. of hyoscyamus herb. of hyoscyamus fluid extract. of hyoscyamus fluid extract. of hyoscyamus powdered extract. of hyoscyamus leaves. of hydrastis root. of horse ball. of horse radish. of hydrogen peroxide. of ice. of ice cream. of iodine tincture. of iodine of iron pills.	

	jelly	8	Number of sewage	
mber of	knack wurst konserviring saltze.	14	Number of shellac Number of spirits of camphor	
mber of	kummelllandvaeger	I	Number of snuff	
mber of	lard and tallow purifier.	I	Number of strawberry, fruit essence	
mber of	lemon syruplemon juice	2	Number of sugar (granulated)	
mber of	lime juice	4	Number of sugar and glucose mixture. Number of soap liniment.	
mber of	liquid from wash basin	I	Number of smoked beef	
mber of	liquids	. 2	Number of soup	
mber of	liquors (alcoholic)liniment saponis	. 1	Number of sodium salicylate	
mber of	liverwurst liver pudding	. III	Number of stone (bladder)	
mber of	liver	. I	Number of stramonium leaves (fluid extract)	
mber of	lobelia (fluid extract)lobelia (tincture)	. 5	Number of stramonium (tincture)	
mber of	lobelia (ground)lozenges	. 2	Number of stramonium (powdered)	
nber of	malted milk maple syrup	. 15	Number of sodium hyphophosphite	
nber of	meat meat (specked)	. 24	Number of string beans. Number of strychnine capsules.	
nber of	metal polish	. I	Number of spinach (canned)	
nber of	magnesium citrate	. 5	Number of tablets	
nber of	magnesium aperientmilks (adulterated)	. 2,984	Number of tablets (Chase's)	
nber of	milks (unadulterated)	6,455	Number of tea (herb)	
	milks (human)		Number of tonic	
ber of 1	milks (Korno)	. I	Number of tongue (potted)	
ber of	milks (powder) milks (sugar)	. 4	Number of tripe	
ber of	milks (White Cross)	. 3	Number of turpentine	
ber of	morphine	. 5	Number of vanilla bean	
ber of	mustard oil. nitroglycerin tablets.	. 1	Number of vinegar	
ber of	nux vomica (fluid extract) nux vomica (tincture)	. 3	Number of valerian (fluid extract). Number of van lodeur.	
er of	nux vomica (ground)	. 6	Number of vomit	
per of	oil (vegetable Korno)oils (for machinery)	. 14	Number of waters (colored). Number of waters (sanitary analysis).	
per of	oils (olive)	. 4	Number of waters (cellar)	
ber of	oil of gaultharie	. 2	Number of wine Number of white lead	
ber of	oil of orange.	. 2	1 Availabet of Worcestershire sauce	
ber of	oil of raspberry	. I	Number of yellow (coal tar derivative). Number of zarzerine	
ber of	oil of strawberry	. 1	Number of zinc oxide	_
ber of	opium	. 20	Total number of analyses	T2
ber of	opium (pulverized)	. 2	=	==
ber of	opium (pulverized)orange paste	. 2 . I	Number of lactometers tested.	==;
ber of ber of ber of	orange paste	. 2 . I . 2	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested.	2
iber of other of other of other of other of	orange paste orange color. organs, human (in jar) oxalic acid oxo wash powder.	2 I 2 I I I	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist.	1
ber of ber of ber of ber of ber of p	orange paste orange color. organs, human (in jar). oxalic acid oxo wash powder paint paprica fat	. I I I I I I I I I I I I I I I I I I I	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal)	1
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ber of ber of ber of ber of ber of ber of ber of ber of ber of ber of	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama.	. 2 . 1 . 2 . 1 . 1 . 1 . 1 . 1 . 1 . 2 . 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal)	704,
ber of ber of per of ber of	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned)	. 2 . 1 . 2 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal). Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantity.	704,9
ber of ber of per of pe	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama. pepsin (powdered) peas (canned) peaches (canned)	. 2	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal). Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contractions as follows:	ity
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ber of ber of per of pe	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat. paprika. paraform paraffin. pastrama pepsin (powdered) peas (canned) peas (canned) pessaries. pepper phenalgen. pile oil. pills pickles. plum pudding. potato flour (Korno) peach fruit essence	2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal). Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses. Mules. Donkeys Colts Ponies Bull Cows Calves	704,
per of pe	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat paprika. paraform. paraffin. pastrama. pepsin (powdered) peas (canned) peaches (canned) pessaries. pepper. phenalgen. pile oil. pills. pickles. plum pudding. potato flour (Korno) peach fruit essence plaster from wall (for blood)	2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal). Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses. Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats	704 ity act 21,
er of	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder. paint. paprica fat. paprika. paraform paraffin. pastrama pepsin (powdered) peas (canned) peas (canned) pessaries. pepper. phenalgen. pile oil. pills pickles. plum pudding. potato flour (Korno) peach fruit essence pineapple essence plaster from wall (for blood) preservatives.	2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal) Number of clubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs	704 ity act 21,
per of oer of per of pe	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat paprika. paraform paraffin pastrama. pepsin (powdered) peas (canned) peaches (canned) pessaries pepper. phenalgen pile oil pills. pickles. plum pudding. potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatives preservatine poork trimmings	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal) Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear	704 ity act 21,
per of pe	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned) peaches (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding. potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatimes potassium bitartrate.	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal). Number of loedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantitoffal, etc., removed from the markets and slaughter-houses by the contractivates as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets.	704 ityact 21,
er of	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat. paprika. paraform paraffin. pastrama pepsin (powdered) peas (canned) pessaries. pepper. phenalgen pile oil. pills pickles. plum pudding potato flour (Korno) peach fruit essence pineapple essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatium intrate potassium iodide potassium iodide potassium iotirate	2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal) Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer	704 ityact 21,
er of	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned) peaches (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding. potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested Number of thermometers tested Number of Babcock flasks tested Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of cubic centimeters of serum Number of cubic centimeters of serum prepared Number of injections of animals The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Total number of animals	01, 98,
per of pe	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned) peas (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding potato flour (Korno) peach fruit essence pineapple essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatives potassium bitartrate potassium bitartrate potassium bitartrate potassium iodide potassium nitrate potassium nitrate potassium hypophosphite poultry wash rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (floid extract)	2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of bleedings for antitoxic serum Number of cubic centimeters of serum prepared. The number of dead animals The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Cats and dogs from public pounds. Total number of animals.	704 ity act 21, 98,
per of pe	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned) peas (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding, potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives preservatives preservaline port trimmings potassium bitartrate potassium iodide potassium iodide potassium hypophosphite poultry wash rhubarb (fluid extract)	2 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1	Number of lactometers tested Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of bleedings for antitoxic serum Number of cubic centimeters of serum prepared. The number of dead animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Cats and dogs from public pounds. Total number of animals. 22 Offal, barrels of Fish, barrels of Poultry, barrels of	704 ityact 21, 98, 19, 10, 1,
per of oper of per of p	orange paste. orange color organs, human (in jar) oxalic acid oxo wash powder paint. paprica fat. paprika. paraform paraffin pastrama pepsin (powdered) peas (canned) peaches (canned) pessaries. pepper phenalgen pile oil pills. pickles plum pudding potato flour (Korno) peach fruit essence pineapple essence. plaster from wall (for blood) powder (white) preservatives. preservatives	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of bleedings for antitoxic serum Number of cubic centimeters of serum prepared The number of dead animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contrar was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets Cats and dogs from public pounds Total number of animals 220 Offal, barrels of Fish, barrels of Beef, quarters of	01, 98, 23, 19, 10,
per of oper oper oper oper oper oper oper oper	orange paste. orange color organs, human (in jar). oxalic acid. oxo wash powder paint. paprica fat paprika. paraform paraffin pastrama pepsin (powdered) peas (canned). peaches (canned) pessaries pepper phenalgen pile oil pills. pickles plum pudding. potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives. preservatives. preservatine. pork trimmings potassium bitartrate potassium intrate potassium hypophosphite poultry wash rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (canned) Rochelle salts red fruit color raspberry fruit essence.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of lactometers of serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets Total number of animals 220 Offal, barrels of Fish, barrels of Poultry, barrels of Beef, quarters of Veal, quarters of Squab pigeons, boxes of	01, 98, 19, 10,
per of oper of per of p	orange paste orange color organs, human (in jar) oxalic acid. oxo wash powder. paint. paprica fat. paprika. paraform paraffin. pastrama pepsin (powdered) peas (canned) peas (canned) pessaries pepper. phenalgen pile oil pills. plils. plils. plikes plum pudding. potato flour (Korno) peach fruit essence pineapple essence. plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatives potassium bitartrate potassium iodide potassium iodide potassium iodide potassium intrate. potassium hypophosphite. poultry wash rhubarb (fluid extract) rhubarb (powdered) rhubarb (powdered) rhubarb (powdered) rhubarb (powdered) rhubarb (tincture) rhubarb (canned) Rochelle salts. red fruit color raspberry fruit essence	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal) Number of cubic centimeters of serum. Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets Cats and dogs from public pounds Total number of animals 22 Offal, barrels of Fish, barrels of Poultry, barrels of Beef, quarters of Veal, quarters of Veal, quarters of Veal, quarters of Veal, poxes of Game, boxes of Game, boxes of Game, boxes of Game, boxes of	01, 98, 19, 10,
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er of	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat. paprika. papraform. paraffin. pastrama. pepsin (powdered) peas (canned) peaches (canned) peaches (canned) pills. pills. pickles. plum pudding. potato flour (Korno) peach fruit essence. plaster from wall (for blood) powder (white) preservatives. preservatives. preservatives. preservatives. preservatives. preservatives. potassium idiatrate potassium idiatrate potassium idiatrate potassium intrate potassium intrate potassium intrate potassium intrate potassium polity wash rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (canned) Rochelle salts. red fruit color raspberry fruit essence raspberry fruit essence raspberry vinegar salt salt red fruit color raspberry fruit essence raspberry vinegar salt salt salt salati.	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (animal) Number of of autopsies (animal) Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contravas as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Cats and dogs from public pounds Total number of animals. 220 Offal, barrels of Beef, quarters of Veal, quarters of Souab pigeons, boxes of Meats, boxes of Game, boxes of Game, boxes of Game, boxes of Pork, boxes of Game, boxes of Pork, boxes of Game, boxes of Game, boxes of Pork, boxes of Meats, assorted, boxes of	01, 001, 001, 001, 001, 001, 001, 001,
per of oper oper oper oper oper oper oper oper	orange paste. orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat. paprika. paraform paraffin. pastrama. pepsin (powdered) peas (canned) peasches (canned) pessaries. pepper phenalgen. pile oil. pills. pickles. plum pudding. potato flour (Korno) peach fruit essence. pineapple essence. plineapple essence. plineapple potassium bitartrate potassium bitartrate potassium iodide. potassium iodide. potassium iodide. potassium intrate potassium iodide. potassium iodide. potassium hypophosphite poultry wash. rhubarb (fluid extract) rhubarb (canned) Rochelle salts red fruit color raspberry vinegar salt salt petre. salt solution sandwich salami salad oil.	2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of cubic centimeters of serum prepared. Number of injections of animals. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contrativas as follows: Horses Mules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets Cats and dogs from public pounds Total number of animals 22 Offal, barrels of Fish, barrels of Poultry, barrels of Beef, quarters of Squab pigeons, boxes of Meats, boxes of Goark, boxes of Goark, boxes of Geare, boxes of Geare, boxes of	01, 001, 001, 001, 001, 001, 001, 001,
per of pe	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama pepsin (powdered) peas (canned) peases (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding potato flour (Korno) peach fruit essence pineapple essence pineapple essence pineapple essence pineapple essence pineapple sos and (for blood) powder (white) preservatives preservatives preservaline pork trimmings potassium bitartrate potassium intrate potassium intrate potassium intrate potassium intrate potassium intrate potassium hypophosphite poultry wash rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (canned) Rochelle salts red fruit color raspberry fruit essence raspberry fruit essence salt solution sandwich salami. salat oil salmin (canned) sardines.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human) Number of autopsies (animal) Number of cubic centimeters of serum. Number of cubic centimeters of serum prepared. The number of dead animals removed from the streets and the quantioffial, etc., removed from the markets and slaughter-houses by the contrawas as follows: Horses Mules Donkeys Colts Ponics Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets Cats and dogs from public pounds Goats Total number of animals. 220 Offal, barrels of Fish, barrels of Beef, quarters of Veal, quarters of Veal, quarters of Squab pigeons, boxes of Meats, boxes of Game, boxes of Goame, boxes of Pork, boxes of Meats, assorted, boxes of. Meats, boxes of. Meats, boxes of. Meats, assorted, boxes of. Meats, assorted, boxes of. Meats, assorted, boxes of.	01, 001, 001, 001, 001, 001, 001, 001,
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er of	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint. paprica fat paprika paraform. paprika paraform. pastrama pepsin (powdered) peas (canned) peas (canned) pessaries pepper. phenalgen. pile oil pills pickles plum pudding potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservatives preservaline potassium bitartrate potassium bitartrate potassium bitartrate potassium hypophosphite poultry wash rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (canned) Rochelle salts red fruit color raspberry vinegar salt salt petre salt solution sandwich salami salad oil salmon (canned) sardines senna (fluid extract) senna (fluid extract) senna (fluid extract) salusandines senna (fluid extract) salusandines senna (fluid extract)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (animal) Number of autopsies (animal) Number of cubic centimeters of serum. Number of cubic centimeters of serum prepared. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses Wules Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Cats and dogs from public pounds Total number of animals. 22 Offal, barrels of Poultry, barrels of Beef, quarters of Squab pigeons, boxes of Meats, boxes of Game, boxes of Gome, boxes of Pork, boxes of Game, boxes of Meats, assorted, boxes of Meats, boxes o	01, 98, 23, 10, 1, 1, 1, 1, 1
er of	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform pastrama pepsin (powdered) peas (canned) peaches (canned) pessaries pepper phenalgen pile oil pills pickles plum pudding, potato flour (Korno) peach fruit essence plaster from wall (for blood) powder (white) preservatives preservatives preservaline potassium bitartrate potassium nitrate potassium nitrate potassium nitrate potassium idide extract) rhubarb (fluid extract) rhubarb (canned) Rochelle salts red fruit essence raspberry vinegar salt salt salt oranged s	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (animal) Number of autopsies (animal) Number of cubic centimeters of serum. Number of cubic centimeters of serum prepared. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contract was as follows: Horses. Horses. Donkeys Colts Ponies Bull Cows Calves Sheep Goats Hogs Pigs Ass Bear Deer Cats and dogs from the streets. Cats and dogs from public pounds. Total number of animals. 220 Offal, barrels of Poultry, barrels of Beef, quarters of Squab pigeons, boxes of Meats, boxes of Game, boxes of Goame, boxes of Pork, boxes of Pork, boxes of Meats, assorted, boxes of Meats, boxes of Meats, boxes of Meats, assorted, boxes of Meats, assorted, boxes of Meats, assorted, boxes of Meats, boxe	01, 98, 10, 11, 11, 12, 12, 12, 12, 12, 12, 12, 12
der of oer oer of oer oer of oer oer of oer	orange paste orange color organs, human (in jar) oxalic acid oxo wash powder paint paprica fat paprika paraform paraffin pastrama pepsin (powdered) peac (canned) peaches (canned) pessaries pepper phenalgen pille oil pills pickles plum pudding, potato flour (Korno) peach fruit essence pineapple essence plaster from wall (for blood) powder (white) preservatives preservatives preservatives preservaline potassium bitartrate potassium hitartrate potas	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested	01,,0 21,0 01,,98,0 10,7,1 1,3 1,3 1,3
der of oer	orange paste orange color organs, human (in jar) oxalic acid. oxo wash powder paint paprica fat. paprica fat. paprika. paraform paraffin pastrama pepsin (powdered) peas (canned) peaches (canned) pessaries. pepper phenalgen pile oil pills. plum pudding. potato flour (Korno) peach fruit essence. pineapple essence. pineapple essence. preservaline pork trimmings. potassium bitartrate potassium bitartrate potassium bitartrate potassium bitartrate potassium bitartrate potassium bypophosphite poultry wash. rhubarb (fluid extract) rhubarb (canned) Rochelle salts. red fruit color raspberry vinegar salt salt salt salt solution sandwich salami salado oil salmon (canned) sardines senna (fluid extract) sausages senna (tincture) senna (fluid extract) sausages senna (fluid extract) sausages senna (fincture) sausages senna (finicture) sausages senna (fluid extract) sausages senna (soop)	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested. Number of thermometers tested. Number of Babcock flasks tested. Work Performed by the Pathologist. Number of autopsies (human). Number of autopsies (animal) Number of bleedings for antitoxic serum. Number of cubic centimeters of serum prepared. The number of dead animals removed from the streets and the quantit offal, etc., removed from the markets and slaughter-houses by the contrativation of the series of the series of the contrativation of the series o	01,,0 21,0 21,0 21,0 23,0 1,0,1 1,0,1 1,0,1 1,0 1,0 1,0 1,0 1,0
ber of ber of per of pe	orange paste orange color organs, human (in jar) oxalic acid. oxo wash powder paint. paprica fat. paprika. paraform paraffin pastrama. pepsin (powdered) peaches (canned) peaches (canned) pessaries. pepper. phenalgen pille oil pills pickles. plum pudding potato flour (Korno) peach fruit essence. pineapple essence pineapple essence plaster from wall (for blood) powder (white) preservatives. preservatives preservatives potassium iotide potassium iotide potassium intrate potassium intrate potassium intrate potassium intrate potassium iotide potaspic powdered) rhubarb (fluid extract) rhubarb (fluid extract) rhubarb (former in the first in	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of lactometers tested	33 704,9 6 6 33 31 11 11 1001,3 33 11,8 33 11,8 33 11,8 33 11,8 11,8

1906.	Male.	Female.	Total.	Native.	Foreign.	Total.	Accom- panying.
Discharged	141	116	257	153	104	257	28
Transferred	796	735	1,531	1,088	443	1,531	23
Died	82	68	150	106	44	150	
Total	1,019	919	1,938	1,347	591	1,938	51
Remaining in hospital December 31, 1906	10 .	6	16	3	13	16	1

Remaining in Hospital December 31, 1905.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Ni-tabasia		-					,		-	
Diphtheria	3	1		2	2	4	**			4
Scarlet fever	2	3	• •	3	2	5				5
Measles	2	••	**	1	1	2		**	••	. 2
Total	7	4	**	6	5	11				11
For observation		-			1	1				
Accompanying			1		1	1				1

Admitted.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female	. Total.	Male.	Female.	Total.	Total.
Diphtheria	235	61	62	150	131	281	37	40	77	358
Scarlet fever	143	237	109	159	173	332	72	85	157	489
Measles	331	97	179	199	212	411	114	82	196	607
Small-pox	5	2	37	20	10	30	8	6	14	44
Mumps			1					1	1	
Varicella	12	3	6	5	. 8	13	4	. 4	8	21
Pertussis	10	1	1	2	8	10	2		2	12
German measles Diphtheria and scarlet	1		3		2	2	1	1	2	4
fever	13	4	3	8	9	17	1	2	3	20
Diphtheria and measles	75	12		48	30	78	6	3	9	87
Diphtheria and varicella.	3		**	1	2	3				3
Diphtheria and pertussis.	1				1	1				1
Scarlet fever and measles	2	1		2		2		1	1	3
Scarlet fever and varicella	2			1		1		1	1	2
Measles and pertussis	6	2	1	3	4	7	2		2	9
Measles and varicella	ī	1		2		2				. 2
Diphtheria, scarlet fever and measles	3	2		2	3	5				5
and pertussis	1						1		1	1
Glanders			1				1		1	1
Hydrophobia	1				1	1	**			1
Cerebro-spinal meningitis.	1	3	12		1	1	14	1	15	16
Tuberculosis		2	104	41	15	56	31	19	50	106
Total	846	428	519	643	610	,253	294	246	540	1,793
For observation	48	34	67	47	38	85	39	25	64	149
Accompanying	9	2	40	3	14	17	4	30	34	51

Discharged.

		Age.			Native.			Foreign.		
	Under Years.	to 16	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	24	7	13	16	14	30	7	7	14	44
Scarlet fever	16	27	20	21	18	39	15	9	24	63
Measles	7	1	4	2	5	7		5	5	12
Small-pox	2	2		1	2	3	1		1	4
Varicella	11	2	2	4	4	8	3	4	7	15
Pertussis	6	1	1	- 1	5	6	2		2	8
German measles Diphtheria and scarlet	1		2		1	1	1	1	2	3
fever	1	**	••		1	1	**	**	••	1
Diphtheria and measles	2	**	**	2	••	2	**	••		2
Scarlet fever and measles.	2			2		2				2
Measles and pertussis	1						1		1	
Measles and varicella		1		1		1				1

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria, scarlet fever and pertussis	ī	.,					1		1	1
Cerebro-spinal meningitis	1	1	5	**	1	1	6	-	6	7
Total	75	42	47	50	51	101	37	26	63	164
For observation	28	23	42	29	23	52	25	16	41	93
Accompanying	6		22	2	5	7	3	18	21	28

Transferred.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	188	45	47	114	108	222	28	30	58	280
Scarlet fever	102	204	80	130	145	275	45	66	111	386
Measles	302	95	174	191	195	386	110	75	185	571
Small-pox	3		37	19	8	27	7	6	13	40
Mumps			1					1	1	1
Varicella	1	1	4	1	4	5	1		1	6
Pertussis	1			1		1				1
Diphtheria and scarlet fever	6	3	3	3	7	10	1	1	2	12
Diphtheria and measles	59	7	**	38	24	62	2	2	4	66
Diphtheria and varicella	3			1	2	3				3
Diphtheria and pertussis	1				1	1				1
Scarlet fever and measles.		1						1	1	1
Scarlet fever and varicella	2			1		1		1	1	2
Measles and pertussis	4	2	1	2	4	6	1		1	7
Measles and varicella	1			1		I				1
Diphtheria, scarlet fever and measles	1	1		2		2				2
Tuberculosis		2	103	41	15	56	31	18	49	105
					_			_	- 42	
Total	674	361	450	545	513	1,058	226	201	427	1,485
	-	_	-	-	-	-	_	-	_	-
For observation	14	10	22	16	14	30	9	7	16	46
Accompanying	3	2	18	1	10	11	1	11	12	23

Died.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	25	9	2	21	11	32	2	, 2	4	36
Scarlet fever	24	9	4	11	12	23	7	7	14	37
Measles	24	1	1	7	13	20	4	2	6	26
Pertussis	3		**		3	3				3
Diphtheria and scarlet	6	1		5	1	6		1	1	7
Diphtheria and measles	13	5	*	8	5	13	4	1	5	18
Measles and pertussis Diphtheria, scarlet fever	I		**	1	••	1		** .		1
and measles	2	1	••		3	3	••		**	3
Glanders	**	• •	1	***	***	**	1	**	1	. 1
Hydrophobia	1		••		1	1	**			1
Cerebro-spinal meningitis		1	7				7	1	8	8
Tuberculosis			1					1	1	1
Total	99	27	16	53	49	102	25	15	40	142
For observation	6	1	1	2	2	4			4	8

Remaining in Hospital December 31, 1906.

3		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	1	1		ı		1				
Scarlet fever	3		5				5	3	8	8
German measles		** /	1		. 1	1		100		1
Diphtheria and measles	1				1	1				1
Cerebro-spinal meningitis	••	1	••				1		1-	1
Total	5	2	6		2	3	6	4	10	13
For observation	1		2				3		3	3
Accompanying			1					1	1	1

Recapitulation.

		December	Ad	mitted.	Disc	harged.	Trai	sferred.	r	Died.		December 1906.
	Males.	Females.	Males.	Females								
Diphtheria	2	2	187	171	23	21	142	138	23	13	1	1
Scarlet fever	3	2	231	258	36	27	175	211	18	19	5	3
Measles	1	1	313	294	2	10	301	270	11	15		**
Smallpox	*	·	28	16	2	2	26	14	**	- 44	**	**
Mumps		***	* **	1	••	**		1			**	**
Varicella	*	90.	9	12	7	8	2	. 4	***	20.44		**
Pertussis	***	***	.4	8	3	5	1			3	**	
German measles		**	1	3	1	2					**	r
Diphtheria and scarlet fever			9	11	,	1	4	8	5	2		
Diphtheria and measles			54	33	2		40	26	12	6		1
Diphtheria and varicella			1	2			1 .	2	14			44
Diphtheria and pertussis	-			1			**	1				44
Scarlet fever and measles			2	1	2			1	**			
Scarlet fever and varicella			1	1	**		1	1	**			
Measles and pertussis			5	4	1		3	4	. 1			
Measles and varicella			2		1		1					
Diphtheria, scarlet fever and measles			2	3		**	2		**	3		
Diphtheria, scarlet fever and pertussis	44		1		1						**	
Glanders			1		**				1			
Hydrophobia				r		.,				1	**	
Tuberculosis		**	72	34			72	- 33		1		
Cerebro-spinal meningitis		**	14	2	6	r			7	1	1	
												-
Total	6	5	937	856	87	77	771	714	78	64	7	6
For observation		1	86	63	54	39	25	21	4	4	3	
Accompanying		1	7	44	5	23	2	21				1

REPORT OF PATIENTS TREATED AT WILLARD PARKER HOSPITAL.* BOROUGH OF MANHATTAN.

General Statement.

1906.	Male.	Female.	Total.	Native.	Foreign.	Total.	Accom- panying
Admitted	490	498	988	790	198	988	6
Discharged	289	329	618	468	150	618	6
Transferred	9	10	19	17	2	19	
Died	143	92	235	211	24	235	
Total	441	431	872	696	176	872	, 6
Remaining in Hospital December 31, 1906	49	67	116	94	22	116	·

^{*} Hospital closed from June 17, 1905, to March 14, 1906.

Admitted.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	573	210	152	378	372	750	86	99	185	935
Scarlet Fever	18	29	6	23	17	40	3	10	13	53
	_		_		-	_	-		_	_
Total	591	239	158	401	389	790	89	109	198	988
	_	-	_	=	-	=	=	=	_	=
Accompanying	2		4	••	3	3		3	3	6

Discharged.

		Age.			Native.			Foreign.		
	Under Years.	to 16	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	311	169	138	221	247	468	68	82	150	618
Accompanying	2		4		3	3		3	3	6

Transferred.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	15	3	1	7	10	17	2	**	2	19

Died.

		Age.			Native.			Foreign.		
*	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	207	20	6	130	79	209	11	13	24	233
Scarlet fever	2			2		2				2
Total	209	20	6	132	79	211	11	13	24	235

Remaining in Hospital December 31, 1906.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	40	18	7	20	36	56	5	4	9	65
Scarlet fever	16	29	6	21	17	38	3	10	13	51
Total	56	47	13	41	53	94	8	14	22	116

Recapitulation.

		December	Adı	mitted.	Disc	charged.	Tran	sferred.	1	Died,		December 1906.
	Males.	Females.										
Diphtheria		**	464	471	289	329	9	10	141	92	25	40
Scarlet fever			26	27							24	27
Total			490	498	289	329	9	10	143	92	49	67
		_			-							
Accompanying				6		6	_ **		, ,,,,			

REPORT OF THE PATIENTS TREATED AT RIVERSIDE HOSPITAL. BOROUGH OF THE BRONX.

Canaral	Statement

1906.	Male.	Female.	Total.	Native.	Foreign.	Total.	Accom- panying
Remaining in Hospital							
December 31, 1905	139	68	207	118	89	207	4
Admitted	1,068	956	2,024	1,455	569	2,024	34
Total	1,207	1,024	2,231	1,573	658	2,231	38
Discharged	825	750	1,575	1,125	450	1,575	31
Died	259	198	457	379	78	457	2
, Total	1,084	948	2,032	1,504	528	2,032	33
Remaining in Hospital December 31, 1906	123	76	199	69	130	199	5

Remaining in Hospital December 31, 1905.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	49	11	6	31	19	50	10	6	16	66
Scarlet fever	6	20	4	9	8	17	11	2	13	30
Measles	10	6	14	10	11	21	7	2	9	30
Diphtheria and scarlet fever	1				1	1			44	1
Diphtheria and measles	3			1	1	2		1	1	3
Tuberculosis		1	76	27	••	27	33	17	50	77
Total	69	38	100	78	40	118	61	28	89	207
	_	_	_	_	-	_	_	-	-	_
Accompanying	1	3		2		2		2	2	4

Admitted.

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	228	85	61	155	146	301	32	41	73	374
Scarlet fever	- 114	230	77	164	172	336	34	51	85	421
Measles	431	175	219	272	284	556	158	111	269	825
Diphtheria and scarlet fever	12	6	2	3	13	16	2	2	. 4	20
Diphtheria and measles	106	17		63	48	111	8	4	12	123
Scarlet fever and measles.	11	3	i	7	5	12		3	3	15
Measles and varicella	++	1			24		1		1	1
Tuberculosis		9	236	86	37	123	83	39	122	245
	_	_		_	_		_	_	_	_
Total	902	526	596	750	705	1,455	318	251	569	2,024
	_	_	-	_	_	_	_	_	_	_
Accompanying	2	5	27	2	12	14		20	20	34

Discharged.

	Land.	Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female	. Total.	Male.	Female.	Total.	Total.
Diphtheria	175	84	59	125	121	246	30	42	72	318
Scarlet fever	110	227	68	159	165	324	31	50	81	405
Measles	268	167	207	211	207	418	132	92	224	642
Diphtheria and scarlet fever	5	4	2	1	8	9		2	2	11
Diphtheria and measles	37	11		23	19	42	3	3	6	. 48
Scarlet fever and measles.	6	3	1	3	5	8		2	2	10
Measles and varicella		1					1		1	1
Tuberculosis	**	7	133	65	13	78	41	21	62	140
		_		_	_		_	-		_
Total	601	504	470	587	538	1,125	238	212	450	1,575
	-	=	-	-	=	=	-	_	-	_
Accompanying	3	6	22	3	11	14		17	17	31

Died.

		Age.			Native.					
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	102	7	3	60	40	100	9	3	12	- 112
Scarlet fever	6	11	3	10	7	17	1	2	3	20
Measles	150	7	9	68	77	145	11	10	21	166
Diphtheria and scarlet fever	8	2		2	6	8	2		2	10
Diphtheria and measles	65	3		36	25	6r	5	2	7	68
Scarlet fever and measles.	. 4			4		4				4
Tuberculosis	**	1	76	31	13	44	20	13	33	77
	-	_		_	-	_	_		_	_
Total	335	31	91	211	168	379	48	30	78	457
	_	_	_	_	-	_	_	_	=	_
Accompanying		2		1	1	2				2

Remaining in Hospital, December 31, 1906.

		Age.			Native.			Foreign.		
	Under Years.	to 16	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria		5	5	1	4	5	3	2	5	10
Scarlet fever	4	12	10	4	8	12	13	1	14	26
Measles	23	7	17	3	11	14	22	11	33	47
Diphtheria and measles	7	3		5	5	10				10
Scarlet fever and measles.	1		**		**			ī	1	1
Tuberculosis		2	103	17	11	28	55	22	77	105
Total	35	29	135	30	39	69	93	37	130	199
Accompanying			5				-	5	5	. 5

Recapitulation.

		December 1905.	Adı	nitted.	Dis	charged.	Tra	nsferred.	I	lied.		g December 1906.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Diphtheria	41	25	187	187	155	. 163			69	43	4	6
Scarlet fever	20	10	198	223	190	215			11	9	17	9
Measles	17	13	430	395	343	299	44		79	87	25	22
Diphtheria and scarlet fever		1	5	15	1	10			4	6		
Diphtheria and measles	1	2	71	52	26	22	4.0		41	27	5	5
Scarlet fever and measles			7	8	3	7		V.	4			. 1
Measles and varicella	4.	**	1		1							
Tuberculosis	60	17	169	76	106	34	••	**	51	26	72	33
Total	139	68	1,068	956	825	750			* 259	198	123	76
Accompanying				32		28						

REPORT	OF	PATIENTS	TREATED	AT	KINGSTON	AVENUE	HOSPITAL.
			BOROUGH (F B	ROOKLYN.		

Congral	Statement

1906.	Male.	Female.	Total.	Native.	Foreign.	Total.	Accom
Remaining in hospital De-		المالية	I stal the	دلواة اللفاه ا	al factor	- 1 m - 1 1.	1, 1
cember 31, 1905	75	90	165	77	. 88	165	12
Admitted	1,495	1,418	2,913	1,121	1,792	2,913	360
Total	1,570	1,508	3,078	1,198	1,880	3,078	372
Discharged	1,128	990	2,118	853	1,265	2,118	341
Transferred	127	173	300	81	219	300	9
Died	219	248	467	190	277	467	1
Total	1,474	1,411	2,885	1,124	1,761	2,885	351
Remaining in hospital De- cember 31, 1906	96	97	193	74	119	193	21

Remaining in Hospital, December 31, 1905.

ه اگادانماشده حدید شوید ب	الأداديد	Age.		الداماء	Native.	deeds	1.4 1.6	Foreign.	7.1.	مالسلسه
	Under Years.	to 16	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	6	6		7	4	11	1		1	12
Scarlet fever	20	25	11	23	19	42	5	9	14	56
Measles	35	20	7	3	4	7	22	33	55	62
Varicella	6	5		5	3	8	1	2	3	11
Pertussis	5	1		1	5	6				6
Scarlet fever and measles.	9	3			1	1	5,	6	11	12
Measles and pertussis	2	2		1	1	2		2	2	4
Measles and varicella	- 2						1	1	2	2
*	_		_	_	_		_	-		-
Total	85	62	18	40	37	77	35	53	88	165
Accompanying	1		11		1	1		11	11	- 12

Admitted.

		Age.	ditta and		Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Tota
Diphtheria	216	132	51	170	155	325	25	49	74	399
Scarlet fever	183	315	111	190	194	384	. 99	126	225	609
Measles	899	337	108	103	85	188	619	537	1,156	1,344
Small-pox	9	6	93	55	22	77	19	12	31	108
Varicella	53	14	11	8	5	13	32	33	65	78
Pertussis	8	3		5	4	9	. 2		2	11
German measles		2	1	2	**	2		1	1	3
Diphtheria and scarlet fever	29	16	5	23	19	42	2	6	8	50
Diphtheria and measles	54	12	3	9	5	14	31	24	55	69
Diphtheria and varicella	1		14.		1	1				1
Diphtheria and pertussis	6			2	4	6	**			6
Scarlet fever and measles.	95	30	4	4	8	12	55	62	117	129
Scarlet fever and varicella	8	3		5	2	7	1	3	4	11
Scarlet fever and pertussis	7	1	*	1	4	5	2	1	3	8
Measles and pertussis	21	9		7	8	15	6	9	15	30
Measles and varicella	22	5		3	8	11	6	10	16	27
Varicella and pertussis	1							1	1	1
Mumps and measles	2							2	2	
Measles, scarlet fever and vericella					1.	4.	••	1	1	1
Measles, scarlet fever and pertussis	5				2.14		2	4	5	5
Measles, varicella and pertussis	1				1	1			••	. 1
Mumps			2		••		1	1	2	2
Measles, scarlet fever and diphtheria	1	1		1	r	2				
Scarlet fever, pertussis and diphtheria	1			ī		1				1
Typhoid fever			2	••	••	••	1	1	2	2
7		-		_		-	-	-	-	-
Total I	,623	886	390	589	526 1	115	901	883	,784	2,899
For observation	6	3	5	3	3	6	2	. 6	8	14

Accompanying 13 10 337 1 12 13 9 338 347 360

Discharged.

		Age.			Native.			Foreign.		
Gwr., Cwr., C	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	94	107	45	106	92	198	15	33	48	246
Scarlet fever	109	280	102	176	167	343	65	83	148	491
Measles	587	296	105	92	63	155	451	382	833	988
Small-pox	7	6	78	47	18	65	16	10	26	91
Varicella	50	16	11	13	7	20	31	26	57	77
Pertussis	12	4		5	9	14	2		2	16
German measles		2	1	2		2		- 1	1	- 3
Diphtheria and scarlet fever	10	7	4	12	7	19	1	1	2	21
Diphtheria and measles	24	7	1	6	2	8	20	4	24	32
Diphtheria and varicella	1		- 44		1	1				1
Scarlet fever and measles	67	21	4	3	6	9	43	40	83	92
Searlet fever and varicella		1					1		1	1
Scarlet fever and pertussis	4	44			. 1	1	2	1	3	4
Measles and pertussis	12	7		4	. 3	7	2	10	12	19
Measles and varicella	18	4		3	5	8	6	8	14	22
Varicella and pertussis Scarlet fever, diphtheria	1							1	1	1
and pertussis Scarlet fever, measles and	1	100	•••	1	••	1	**			1
pertussis Measles, scarlet fever and	3				••			3	3	3
varicella	1		••		**			1	1	1
Mumps	••	**	2	**	**		1	1	2	2
Total	1,001	758	353	470	381	851	656	605	,261	2,112
For observation	2	2	2			2				6
Accompanying	7	9	325	1	12	13	5	323	328	341

Transferred. .

		Age.			Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total
Diphtheria	13	6		9	6	15	2	2	4	19
Scarlet fever	26	10	2	5	11	16	6	16	22	38
Measles	129	34	6	6	10	16	76	77	153	169
Varicella	3	3						6	6	6
Diphtheria and scarlet fever	5	-5		2	5	7	++	3	3	10
Diphtheria and measles	4	2	2		2	2	4	2	6	8
Diphtheria and pertussis	1			1		1				
Scarlet fever and measles.	8	1		**				9	9	9
Scarlet fever and pertussis	2	1	44	1	2	3			44	3
Scarlet fever and varicella	8	2		5	2	7		3	3	10
Measles and varicella	5	1			3	3	x	2	3	6
Measles and pertussis	7	2		2	3	5	3	1	4	9
Mumps and measles Measles, scarlet fever and	1			**				1	1	1
diphtheria Scarlet fever, measles and	1	1		1	1	2			**	2
pertussis	1	**						1	1	1
Total	214	68	10	32	45	77	92	123	215	292
For observation			3	. 2	=	4		3	_	
Accompanying	6	1	2		1	1	3	5	8	9

Died.

4	in .	Age.		-	Native.			Foreign.		
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria	107	19	3	55	52	107	8	14	22	129
Scarlet fever	51	18	12	15	17	32	23	26	49	81
Measles	168	8	2	6	16	22	81 *	75	156	178
Small-pox	2		4	1	1	2	3	1	4	6
Varicella	5				1	1	1	3	4	5
Pertussis	1			1		1				1
Typhoid fever			1					1	1	1
Diphtheria and scarlet fever	* 8	3		3	7	10		1	1	11
Diphtheria and measles	15			3	1	4	3	8	11	15
Diphtheria and pertussis	4			1	3	4				4
Scarlet fever and measles	19	9			1	1	12	15	27	28
Measles and pertussis	4	2		2	3	5	1		1	6
Measles and varicella	1							1	1	1
Measles, varicella and pertussis	1		**	**	1	1	••			1
Total	386	59	22	87	103	190	132	145	277	467
	-	_	_	_	-	_	-	-	-	-
Accompanying	1				4.	- **	1		1	1

ining in Hospital, December 31, 1006

	Age.				Native.			Foreign.			
	Under Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.	
Diphtheria	8	6	3	7	9	16	1		1	17	
Scarlet fever	17	32	6	17	18	35	10	10	20	55	
Measles	50	19	2	2		2	33	36	69	71	
Small-pox			11	7	3	10	,.	1	1	11	
Varicella	1						1			1	
Diphtheria and scarlet fever	6	1	1	6	44	6	1	1	2	8	
Diphtheria and measles	11	3			** 1		4	10	14	14	

Distribution and State of Stat		Age.			Native.			Foreign.		
The state of the s	Under 5 Years.	Five to 16 Years.	Over 16 Years.	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Diphtheria and pertussis	1		4		1	. 1	4			1
Scarlet fever and measles	10	2		1	2	3	5	4	9	12
Scarlet fever and pertussis	1		**			1				- 1
Scarlet fever, measles and pertussis	2	044					1	1	2	2
	TAX -	1530	-	-	Tatalan .	-	-	-	1197	44.452
Total	107	63	23	40	34	74	56	63	119	193
	-		-	-	-	-0/	-	-	-	=
Accompanying	***		21	**	**	200		21	21	21

Recapitulation.

		December 1905.	Adı	nitted.	Disc	harged.	Tran	sferred.	I	Died.	Remainin	December
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Diphtheria	8	4	195	204	121	125	11	8	63	. 66	8	9
Scarlet fever	28	28	289	320	241	250	11	27	38	43	27	28
Measles	25	37	722	622	543	445	82	87	87	91	35	36
Smallpox			74	34	63	28	4.0	24	4	2	7	4
Varicella	6	5	40	38	44	33		6	1	4	1	***
Pertussis	1 -	5	7	4	7	9		**	1		*	
Typhoid fever		4.5		1	***					1		
German measles			2	1	2	1	4.0	**			1 44.5	
Mumps		**	1	1 .	1	1.1						
Diphtheria and scarlet fever		**	25	25	13	8	2	8	3	8	7	1
Diphtheria and measles			40	29	26	6	4	4	6	9	4	10
Diphtheria and varicella		**		1	44	1		_ 11			**	
Diphtheria and pertussis			2	4			1		1	3		1
Scarlet fever and measles	5	7	59	70	46	46		9	12	16	6	6
Scarlet fever and varicella		**	6	5	1		5	5	**			
Scarlet fever and pertussis			3	5	2	2 .	1	2				. 1
Measles and pertussis	1	3	13	17	6	13	5	4	3	3		
Measles and varicella	1	1	9	18	9	13	1	5		i		
Varicella and pertussis				1		1	**	**	** -	** -		**
Mumps and measles				2	**			2		**		**
Scarlet fever, diphtheria and pertussis	**		1		1	**			. ** -	**		
Scarlet fever, measles and pertussis			1	4	5.	3					1	1
Measles, scarlet fever and diphtheria	**		1	1			1	1 -				**
Measles, scarlet fever and varicella	44			1	**	1	**	**	** -	44		44
Measles, varicella and pertussis		24		1	4		**	9 44		1	**	
							-					-
Total	75	90	1,490	1,409	1,126	986	124	168	219	248	96	97
		-		-			-	-	-	1		
For observation	**	**	5	9	2	4	3	5			••	21
Accompanying	**	12	10	350	6	335	3	6	1	**	••	

DIVISION OF INSPECTIONS.

BOROUGH OF MANHATTAN.

There are two classes of employees in the Division of Inspections—the clerical force, and those who perform the work in the field. This corps is composed of Sanitary Inspectors, the Patrolmen forming the Health Squad, and Inspectors of Foods assigned to milk, meat, fruits and fish. Their duties and their relation, one to another, are shown in the accompanying table. The clerical force is subdivided, as shown in the table, and assigned to duty in keeping the divisional records, and performing the necessary clerical duties, as indicated.

The Sanitary Inspectors have cognisance of, and are responsible for, the enforcement of all health laws and regulations in the districts to which they have been assigned, in all premises or places other than those, jurisdiction over which is given

ment of all health laws and regulations in the districts to which they have been assigned, in all premises or places other than those, jurisdiction over which is given by law to the Tenement House Department.

The duties of the Health Squad are, to a certain extent, the same, except that they do not make investigations which require a technical knowledge.

The Inspectors of Foods perform the duties appropriate to their titles.

For convenience in administration, the City is divided into districts of reasonable size. Each class of Inspector has a district to which he is assigned, but it naturally results from the varied character of the work that the district boundaries are not the same for men in different classes.

Sanitary Inspection.

The complaints which are assigned to the Sanitary Inspectors for investigation are of the widest range; they include such matters as defective drainage and ventilation, lack of water supply, overcrowding in lodging houses and workshops, nuisances of all kinds arising from the operation of factories and machinery, the ringing of church bells, various noises caused by the operation of public conveyances, complaints of violations of such portions of the Labor Law as the Department of Health is enjoined to enforce, and the many other causes of complaint which must necessarily exist in a large City.

a large City.

It is the Inspector's duty to immediately investigate all complaints which are referred to him from the office of the Chief Sanitary Inspector, and to submit a report of the conditions found, with his recommendation for the necessary notice or order to be issued, compliance with which would render the premises complained of sanitary, or would cause the existing conditions to comply with the law. After the elapse of the requisite number of days, the office copies of the orders and notices which have been issued as a result of these recommendations are referred to the Inspector for been issued as a result of these recommendations are referred to the Inspector for reinspection, to ascertain whether they have been complied with or no. In addition to this work, the Inspectors are required to make original inspections throughout their districts during their unoccupied time, reporting any improper conditions which they may observe, and submitting recommendations for their improvement. The Inspectors are required to so cover and examine their districts as to keep them in as good condition as could reasonably be required. The District Inspectors also investigate and report upon all applications for permits which are issued by the Board of Health, other than permits for the sale of milk, and submit reports, either recommending that the permits asked for be denied or granted. Applications for modification of an

order or notice, or relief from, complying with said order or notice are referred to an Inspector other than he who made the original recommendation, to examine into the conditions existing and report as to the propriety of granting the application.

In those instances where the conditions are dangerous to life or detrimental to the health of either the occupants of the premises or of neighboring ones, unless work to comply with the orders or notices issued by the Department of Health is begun within a reasonable time, the premises are examined by the Chief Sanitary Inspector, who, upon verification of the reported conditions, reports the facts to the Assistant Sanitary Superintendent, who, in turn, certifies to the Board of Health that the conditions are dangerous to life or detrimental to health, and recommends that the premises be ordered vacated, or that the conditions existing be declared to be a public nuisance. During the past year this action was taken in the following instances, with the results indicated.

Premises Ordered Vacated.

Date of Issuance of Order.	Premises.	Date Complied With
April 4, 1906	No. 357 East One Hundred and Twenty-fourth street	May 14, 1906
April 4, 1906	No. 238 East Fifty-first street	May 9, 1906
May 9, 1906	No. 106 East Eleventh street	May 14, 1906
May 9, 1906	No. 310 West Thirty-fifth street	Aug. 30, 1906
May 23, 1906	Nos. 201 and 203 West Twenty-third street	Sept. 1, 1906
May 23, 1906	Nos. 649 and 651 West Forty-second street	Sept. 18, 1906
May 23, 1906	No. 5151/2 East One Hundred and Eighteenth street	June 26, 1906
June 6, 1906	No. 143 West street	July 9, 1906
June 13, 1906	No. 102 East One Hundred and Fourth street	July 23, 1906
June 13, 1906	No. 104 East One Hundred and Fourth street	July 23, 1906
June 13, 1906	No. 106 East One Hundred and Fourth street	July 23, 1906
June 13, 1906	No. 108 East One Hundred and Fourth street	July 23, 1906
July 11, 1906	No. 105 Bowery	July 16, 1906
Aug. 1, 1906	No. 502 Canal street	Oct. 12, 1906
Aug. 1, 1906	No. 82 Park row	Jan. 8, 1907
Aug. 1, 1906	No. 159 Third avenue	Oct. 19, 1906
Aug. 22, 1906	No. 465 Lexington avenue	Oct. 19, 1906

No. 342 East Fiftieth street.

Date Complied With.

Aug. 22, 1906	No. 342 East Fiftieth street	Oct. 12, 1906
Sept. 5, 1906	' Northwest corner of Broadway and Hawthorne street	Not complied with
Sept. 5, 1906	No. 206 Forsyth street	vacant Dec. 29, 1906
Sept. 5, 1906	No. 142 Monroe street	Oct. 12, 1906
Sept. 5, 1906	No. 213 East Fifteenth street	Sept. 26, 1906
Sept. 5, 1906	No. 15 West Forty-second street	Oct. 5, 1906
Sept. 5, 1906	Nos. 102 and 104 West Forty-seventh street	Oct. 5, 1906
Sept. 5, 1906	No. 802 East Fifth street	Oct. 9, 1906
Sept. 12, 1906	Nos. 418 to 422 Broadway and No. 277 Canal street	Oct. 29, 1906
Sept. 12, 1906	No. 79 White street	Oct. 12, 1906
Sept. 12, 1906	Nos. 320 and 322 West Thirty-fourth street	Order rescinded
Sept. 12, 1906	Nos. 310 to 320 East Seventy-fifth street	Oct. 12, 1906 Oct. 3, 1906
Sept. 12, 1906	No. 51 East Ninth street	Sept. 3, 1906
Sept. 19, 1906	No. 476 Ninth avenue	Nov. 1, 1906
Sept. 19, 1906	No. 57 West Tenth street	Oct. 5, 1906
Oct. 3, 1906	Nos. 570 to 576 West Broadway	Oct. 19, 1906
Oct. 3, 1906		
206	No. 9 Rutgers street	Oct. 12, 1906
Oct. 3, 1906	No. 55 West Third street	Oct. 27, 1906
Oct. 3, 1906	No. 359 West Fifty-fifth street	Nov. 12, 1906
Oct. 24, 1906	No. 35 East Broadway (rear)	Oct. 31, 1906
Oct. 24, 1906	No. 84 Bowery	Nov. 27, 1906
Nov. 7, 1906	No. 143 West Thirty-second street	Dec. 12, 1906
Nov. 7, 1906	No. 167 East One Hundred and Twenty-seventh street	Dec. 12, 1906
Nov. 21, 1906	South by Reade street, north by Duane street, west by West street and east by Washington street	Not complied with
Vani - aQ - and		work in progres
Nov. 28, 1906	No. 243 Division street	Dec. 31, 1906
Nov. 28, 1906	No. 129 Canal street	Dec. 31, 1906
Dec. 12, 1906	No. 712 Eleventh avenue (front)	Jan. 14, 1907
Dec. 19, 1906	No. 362 Seevnth avenue	Not complied with vacant
Number not	plied with	········· <u> </u>
Number not	complied with	········· <u> </u>
Number not	complied with	········· <u> </u>
Date of Order.	Premises Declared to be a Public Nuisance. Premises. Southwest corner of One Hundred and Thirty-fourth	Date Complied With
Date of Order.	Premises Declared to be a Public Nuisance. Premises. Southwest corner of One Hundred and Thirty-fourth street and Park avenue.	Date Complied With
Date of Order. Date of Order.	Premises Declared to be a Public Nuisance. Premises. Southwest corner of One Hundred and Thirty-fourth street and Park avenue. No. 75 Goerck street.	Date Complied With Dec. 1, 1906 July 25, 1906
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At one time it was customary to have two or three Inspectors especially detailed to handle complaints and investigations relating to "offensive trades;" in the past few years, however, it has seemed more advisable to have this work done by the District Inspectors, with the result that at present every member of the corps is now able to properly attend to these complaints, and they consequently receive quicker and, it is to be hoped, better attention. Included in this category are noises and odors from manufactories, nuisances from the operation of machinery, and fumes, cinders and smoke from the operation of furnaces.

The smoke nuisance is in about the same condition as reported in previous years.

Total.....

No. 442 East Thirteehth street.....

No. 357 East Seventy-sixth street.....

Number complied with..... Number not complied with.....

28

Dec. 19, 1906

The smoke nuisance is in about the same condition as reported in previous years. Many arrests have been made and convictions secured in the Court of Special Sessions, with the result that at present there are very few serious nuisances in existence, and

in these cases proceedings are now pending in Court, looking to the abatement of these nuisances.

There are six large power houses consuming an enormous quantity of coal every twenty-four hours and producing a great amount of electric power. This power is utilized in lighting hotels, theatres, public buildings, the public streets and in operating the three great systems of transportation, the subway, the surface railways and the elevated roads. All of these plants have been conducted, through the co-operation of the managing officials, with very little, if any, discharge of smoke, with one exception. The problem presented by this plant has been very thoroughly inquired into by experts employed by the Board of Health and by the owners of the plant in question, and drastic improvements have been recommended, which, when fully completed, will do away entirely with the nuisance existing in this plant. The discharge of smoke, coal gases and cinders from the locomotives entering the Borough of Manhattan is being materially reduced daily. The long expected installation of electric locomotives on the New York Central and the New York, New Haven and Hartford Railroads is now partially accomplished. A number of trains are leaving the Grand Central station each day propelled by electric power, and as the engineers and firemen are becoming properly instructed in this method of traction, more and more steam locomotives are being taken off the lines. The probability is that early in the coming year steam locomotives in the Borough of Manhattan will have become a thing of the past. The same system of controlling the smoke nuisance on these railroads by employees of the company has existed in 1906 as in former years. The main line of the New York Central, from Harlem river to One Hundred and Thirty-eighth street, to Forty-second street, is kept under constant supervision by inspectors employed by the railroad company, whose duty it is to note the number of locomotives detected in discharging smoke, together with the time of t

On the 19th of December the Sanitary Code was altered by the Board of Health by removing from section 96 any provision which it may have contained in relation to smoke, and introducing a new section known as section 181, intended to entirely cover the smoke nuisance. This section is as follows:

"No person shall cause, suffer or allow dense smoke to be discharged from any building, vessel, stationary or locomotive engine, place or premises within the city of New York, or upon the waters adjacent thereto, within the jurisdiction of said city; all persons participating in any violation of this provision, either as proprietors, owners, tenants, managers, superintendents, captains, engineers, firemen or otherwise, shall be severally liable therefor."

It has been in force such a comparatively short length of time that it is impossible at the time of this report to make any definite statement as to whether it is more or less effective than the old section of the code.

Arrests for Smoke Nuisance, 1906.

Number held on bail in Police Court	211 10
Total	221
Number fined in Special Sessions Court. Number discharged in Special Sessions Court. Number of sentences suspended in Special Sessions Court. Number of cases pending in Special Sessions Court.	5 29 160 17
Total	211
Amount of fines.	240 00

Gasoline Explosions.

Gasoline Explosions.

Early in the month of April a number of serious explosions took place in cellars and in the sewers of the streets on the west side of this borough, in that section of the city bounded by West Forty-ninth and West Fifty-sixth streets, Broadway and the North river. This matter was first called to the attention of the Department of Health in the last week of April. Explosions became so frequent and the conditions were apparently so grave that two Inspectors of the division were assigned to make a thorough and careful investigation of the causes of the explosions and of the circumstances surrounding the causes of the explosions. They reported that the explosions were the result of an admixture of the proper proportions of gasoline vapors and air in the public sewers. This mixture of vapors found its way into the cellars and basements of numerous buildings by means of defects in the plumbing and drainage system of said premises. It was found that all of these explosions took place along the sewerage system, the trunk of which extended from Fifty-sixth street west to Eighth avenue, south of Eighth avenue to Fifty-fifth street, thence west to Ninth avenue; thence south to Fifty-first street, and thence west to the North river. Upon ascertaining this fact, the garages situated in the district drained by this system were all carefully examined. The following is an extract from the Inspectors' report of their findings:

"We found that in some of these garages no gasoline was stored on the

"We found that in some of these garages no gasoline was stored on the premises, and that in others various systems of storage tanks were installed.

"In the premises No. 235 West Fifty-sixth street, occupied by the Hol-Tan Company, and in the premises Nos. 237 to 241 West Fifty-sixth street, occupied by Smith and Mabley, the storage system is that installed by the Snell Hydraulic Oil Storage Company. This system operates on the principle that a column of water 12 inches high will counterbalance a column of gasoline 17 inches high. This system consists of a series of tanks connected together, and to which are attached suitable pipes for conveying the gasoline, and others for supplying the water pressure necessary to force the gasoline from the tanks. This system has been imperfectly installed. Consequently, the persons who were charged with filling the tanks were not able to or at any rate did not ascertain whether any gasoline found its way into the water leg of the system, and thence into the public sewer or not. As a matter of fact, we found that on most occasions when the tanks of these two concerns were being filled that the odors of gasoline in the adjacent sewer became very strong, in some cases almost unbearable, showing that at times a very large amount of gasoline was carelessly allowed to find its way into the public sewer. An apparatus is now being placed on the feed pipes of the storage tanks in these two garages, which, it is claimed, will absolutely prevent the improper discharge of gasoline. In addition to this obvious source of the entrance of gasoline into the public sewer, we examined the drainage system separately of each garage and found strong odors of gasoline arising from the house trap of the main iron house drain near the front wall. Samples were taken from the public sewer in the street and from each of the house traps of the following five garages: house drain near the front wall. Samples were taken from the public sewer in the street and from each of the house traps of the following five garages:

in the street and from each of the house traps of the following five garages:

"Ford Motor Company, No. 1723 Broadway.

"DeCauville Motor Company, Nos. 235 to 241 West Fifty-fifth street.

"Pope Manufacturing Company, Nos. 1733 to 1737 Broadway.

"Rainier Auto Company, Nos. 1627 and 1629 Broadway.

"Majestic Motor Company, Nos. 1713 and 1715 Broadway.

"All of these samples contained gasoline in varying quantities, showing that these five places, in addition to the two first mentioned, discharge gasoline into the public sewer in sufficient quantities to produce an explosive mixture of gasoline and air, which, if brought in contact with a flame or spark under the proper conditions, might produce most serious results. Separate reports covering the conditions in each one of the above mentioned premises were forwarded with the recommendation that an order be issued requiring the discontinuance of the nuisance caused by the discharge of gasoline into the public sewer."

It may thus be seen that there were two means by which gasoline might find its way into a public sewer from a garage. First, defects in the storage system, and second, carelessness in the use of gasoline around the premises, either in filling automobile tanks or in using excessive quantities of gasoline for cleansing and washing purposes. As indicated in the report quoted above, orders were issued on all of the premises in question. The careless handling of gasoline in filling the tanks on the machines and for washing purposes was discontinued at once. The use of the storage tanks in the garage at No. 235 West Fifty-sixth street and Nos. 237 to 241 West Fifty-sixth street, was discontinued until such time as a safety device could be placed on these tanks, which would prevent the escape of gasoline through the water leg of the system into the public sewer. This work was completed in the middle of May, and the restriction upon the use of the tanks was removed. Since that time there has been no evidences of the escape of gasoline into public sewers, and the Department has received no complaint to that effect.

Lodging Houses.

There are probably no buildings occupied for living purposes which are in more need of constant supervision by Sanitary Inspectors than those occupied as lodging houses and so-called "furnished room" houses. These houses are tenanted by persons who are of a more or less roving disposition, who have no particular personal ties with the premises, and are, therefore, extremely careless in their usage of the property. The Sanitary Code prescribes that for all lodging houses containing rooms in which there are more than three beds for the use of lodgers, or in which more than six persons are allowed to sleep, a permit from the Board of Health shall be required.

Table of Occupancy.

Number of lodging houses for men Number of lodging houses for women	-	Total number of lodgings Total number of lodgings Total number of lodgings	17,129 319 530
dren	4	Total	17,978
Total	102		

As in former years, one Sanitary Inspector has been assigned to duty in the supervision of lodging houses. The Charter of The City of New York provides that the Department of Health shall make an inspection of each lodging house in The City of New York at least once in six months. Experience has taught that inspections of this sort are not adequate and are not satisfactory, and therefore it has been deemed better to have one Inspector on duty in connection with the lodging houses at all times, in order that lapses on the part of lodging house proprietors shall be corrected almost immediately, with the result that the lodging houses are kept in as good condition as places of this character might be reasonably expected. There have been 2,764 inspection of lodging houses made during the year, an average of 27 apiece, instead of two apiece, as required by law. as required by law.

Enforcement of the Child Labor Law.

The inspections which this Department is required to make in the enforcement of the Child Labor Law are, in the majority of cases, made by the District Sanitary Inspectors. They are required to make a minimum of 20 inspections a week in this particular line of work, but the majority make many more than this, so that the average number of inspections a week is something more than 500. In addition to the inspections are the District Associated there is an Inspector assigned especially to number of inspections a week is something more than 500. In addition to the inspections made by the District Inspectors, there is an Inspector assigned especially to watch the large department stores, the telegraph and messenger service, and such complaints of violation of the Child Labor Law as may be referred to him. During the month preceding the Christmas holidays there were temporarily assigned to assist him in this work five other Inspectors. During the past year there were 25,725 inspections of mercantile establishments. As an indication of the apparently universal compliance with the law, so far as the Department of Health is required to take cognizance, it would be proper to state that during the year 1906 there were but 145 complaints received of violations. Of these, 85 were verified on inspection, and 60 were found to be groundless. In addition to this there were 875 recommendations for notices made by the Inspectors as a result of their original investigations, making a total of 960 notices which were issued for violation of the Mercantile Law. In other words, out of the 25,725 inspections made, there were but 3½ per cent. of the cases in which the Inspectors found violations of that part of the Mercantile Law, the enforcement of which this Department is charged with.

Criminal prosecutions were made in a few instances of flagrant violations of the Mercantile Law. In the table will be found the number of cases and their disposition.

Section 161 of the Mercantile Law was amended at the last session of the Legislature and went into effect on October 1, 1906. The essential feature of this amendment is the following sentence:

But in cities of the first class no child under the age of sixteen years

"But in cities of the first class no child under the age of sixteen years shall be employed, permitted or suffered to work in or in connection with any such establishment after 7 o'clock in the evening of any day."

This amendment was very generally complied with by the employers of children, except during the few weeks preceding the Christmas holidays, and after the assignment of the additional Inspectors to the special mercantile work and the arrest of a comparatively few employers the provision of this amendment in regard to the employment of children was very generally respected throughout the Borough. While it is undoubtedly true that there are many isolated cases of violations of the Mercantile Law, it would seem that the provisions of the Law are very generally lived up to, and it does not seem possible to more thoroughly enforce these provisions unless an additional corps of Inspectors were employed who could be assigned to this duty and none other, and even then it would be a question whether the conditions would show sufficient improvement to warrant the expenditure of the additional sum of money.

The work which the Department of Health is required to perform in compliance with the Mercantile Law is of two kinds, inspection of field work and the issuance of mercantile certificates to children between the ages of fourteen and sixteen years, who may desire to work in a mercantile establishment or a factory. The requirements of the Law which must be complied with before a mercantile certificate can be issued are most specific. The parent or guardian of the child must furnish a passport or duly attested transcript of the certificate of birth or baptism, or other religious record, showing the date and place of birth of such child, and a school record properly filled out and signed are record.

of the child must furnish a passport or duly attested transcript of the certificate of birth or baptism, or other religious record, showing the date and place of birth of such child, and a school record properly filled out and signed, as provided by law. This school record must show that the child has received at least 130 days' tuition since its thirteenth birthday, and that during that time it has been instructed in reading, spelling, writing, English grammar and geography, and is familiar with the fundamental operations of arithmetic, up to and including fractions. In addition to stating that this documentary evidence has been placed on file the officer of the department issuing the mercantile certificate must certify that the child is able to read and write simple sentences in the English language, and that it has reached the normal development of a child of its age, is sound in health and is physically able to do the work which it is to perform.

Unfortunately, there are many children who are unable to furnish evidence of age such as is admissary under the provisions of this law. A comparatively small number who have received certificates of graduation are enabled to present these

age such as is admissary under the provisions of this law. A comparatively small number who have received certificates of graduation are enabled to present these in lieu of other evidence of age, but even this concession does not reach all of the children who are physically and mentally capable of doing work.

In 1904 the Legislature amended the law so as to permit the Board of Health at a regular meeting to accept other documentary evidences than the ones above mentioned, provided, in its opinion, such evidences were bona-fide proofs of age, and that the child in fact was over the age of fourteen years. The issuing of certificates under this law has been conducted in 1906 as it was in 1905, and has undoubtedly resulted in allowing many children to secure employment who otherwise, through the apparently harsh provisions of the law, would have been prevented from obtaining mercantile certificates. Among the different evidences of age presented are certificates from the Commissioner of Immigration that a child entered the Port of New York at a given date, at which time it was known to be of a certain age. Family bible, vaccination certificates issued shortly after the birth of the child and certificates of the physicians who attended the child at a very early age. There have also been presented six or eight insurance policies, which were accepted as legal proof. During the year there were 739 certificates of this character issued by direction of the Board of Health.

The work performed by the Inspectors of this division in enforcing the Mer-

The work performed by the Inspectors of this division in enforcing the Mercantile Law will be shown in this table: Number of inspections of mercantile establishments.....

Number of complaints returned negative	60 875 30,976 11,387
Number refused, insufficient education. Number refused, insufficient tuition Number refused, insufficient evidence of birth. Number refused, under age. Number refused, over age Number refused, physical incapacity.	158 1,215 880 259 348 5
Total refused	2,865
Violations of the Mercantile Law.	
Total number of arrests. Total number of fines. Total number discharged. Total number of cases pending.	14 2 4 8
Amount of fines	\$40 00

Health Squad.

Health Squad.

The Commissioner of Police, by direction of the Charter, details officers and men to this squad. It is at present commanded by a Sergeant of Police, and is composed of three Roundsmen and sixty Patrolmen. The Health Squad investigates complaints relating more especially to cleanliness and the removal of refuse, including the removal of manure from horse stables throughout the city, shaking of carpets and rugs, filthy garbage and refuse cans, dirty lots, yards and cellars, and noisy dogs and other animals. They are also used in the enforcement of the provisions of the Sanitary Code, more especially those relating to the improper exposure of food stuffs, the keeping and killing of live poultry in tenement houses, making arrests for violation of the smoke ordinance and provisions of the Sanitary Code against allowing dust and dirt to escape from premises, more or less caused by the beating and shaking of carpets, and the dust arising from the destruction of buildings by house wreckers, the transportation of manure and other refuse without permits, and finally the enforcement of section 178 in relation to spitting in cars, ferryboats, in or on stations and platforms and other public places. The Sanitary Police are likewise used to carry out the directions of the Board in relation to the vacating of houses which are in uninhabitable conditions, and in relation to buildings or other places which have been declared public nuisances. The members of the squad are frequently of much assistance to the Inspectors of the division in gaining admission to premises and in the inspection of milk at the ferries and other terminals. They perform a very considerable amount of duty in connection with the work of the Division of Contagious Diseases, which will be treated of in connection with the report of that division. report of that division.

The following table is a statement of the arrests other than those for the sale of adulterated milk made by the Sanitary Squad during the year 1906, together with the disposition of each case, either in the Police Magistrate's Court or in the Court of Special Sessions:

Section Violated.	Number Fined.	Number Discharged.	Number Sentence Suspended.	Number Pending.	Amount of Fines.
					1
10		2	1	**	******
12		1	**		
41		***	1.00	**	\$10 00
42	9	1		**	20 00
45	291	14	7.	**	726 00
46	690	44			1,572 78
56	3	5	2		30 00
59	2	1.	A	**	15 00
73	6			2	75 00
74			1		
79	76	23	11	5	497 00
81	4		i	1	20 00
82	1				5 00
87	1		1		10 00
88	2				20 00
96 (Manhattan)	4	33	133	20	190 00
97	5	1	,		25 00
109	28	3			64 00
116	2	3	44	1	50 00
118	76	5		1	1,053 60
119	72	3	7		341 00
133	**		1		
162 (Mercantile Law)	1	. 3	1	3	20 00
178	1,156	-199			1,651 08
385 (Penal Code)	1.				1 00
1262 (Greater New York Charter)	- +4		1		
1265	1 -				10 00
96 (Queens)			31		
Violation Corporation Ordinance.	2			*3	- 15 00

Total amount of fines imposed..... Refuse Removal.

Total discharged
Total sentences suspended.....

Total pending
Total, City Prison....

* City Prison. Total fined .

In a City of the size of New York there is naturally an enormous amount of refuse which must be promptly and properly removed. The Department of Street Cleaning removes and disposes of all household waste (ashes, garbage and paper waste). Everything else must be removed by the persons who are respon-

In the Sanitary Code are sections which prohibit the transportation of such material without a permit. By resolution of the Board of Health such permits are issued by the Chief Sanitary Inspector, under the direction of the Sanitary

Superintendent and his Assistants. These permits expire with the year. On the face of the permit appears the name and address of the holder and a statement of the character of material he is authorized to transport, and a designation of the place at which it must be deposited. These places are kept under observation by Inspectors of the department to insure that the various materials will

be disposed of expeditiously and without offense.

Besides these precautions Patrolmen furnished with bicycles are more or less constantly patrolling the streets to enforce the conditions of the different classes of permits.

Permits Issued During 1906.

(Transportation.)	ж
To transport manure	3
To transport fat and bones (butchers' refuse)	2
To transport swill (refuse from hotels, restaurants and clubs) 4	9
To transport garbage (private cartmen)	
Scavenger permits	0
	=
Number of arrests for illegal transportation 27.	2
Number discharged 2	
Number fined	I
	=
Amount of fines \$845 or	0
	=
The work performed by the sanitary part of the division is herewith sum	-1
marized:	П
	_
Number of primary inspections	3

Number of primary inspections	269,13 54,48
Total	323,61
Tenements	58,473
Lodging houses	2,76
Private dwellings	22,22
Mercantile establishments	25,72
Manufactories and workshops	21,779
Stables	18,94
Manure dumps	5,723
Sunken and vacant lots	5,93
Miscellaneous	162,03
	323,61

Number of complaints received	13,047
Number of complaints returned for orders	
Number of complaints returned negative	13,186
Number of mercantile certificates issued	11;387
Number of mercantile certificates refused	2,865 3,006
Number of arrests	3,006
Number of trials	2,980
Amount of fines	6 120 86

Food Inspection.

An important subdivision of this division is that of the inspection of foods. This includes fruit and vegetables, fish, meat and milk. The Chief Sanitary Inspector of the Borough of Manhattan is charged with the inspection of fruit and vegetables (wholesale markets) in all boroughs, fish and meat in the borough over which he has charge in the Division of Inspections, and finally everything which relates to the milk supply of the city, other than the issuing of permits to sell milk and to keep cows in the boroughs of The Bronx, Brooklyn, Queens and Richmond. To assist him in this work there has been assigned an Inspector of Foods Richmond. To assist him in this work there has been assigned an Inspector of Foods, with the office title of Supervising Inspector of Foods.

This Inspector has supervision over the inspection of fruits, vegetables and fish in the Borough of Manhattan, and of imported fruit which is landed in the Borough

of Brooklyn.

Fruits are divided into two classes—deciduous and citrus. Deciduous fruits embrace every kind, other than berries, that grow at certain seasons and but once a year. The second class comprises the orange, lemon and grape fruit family, which bear throughout the year. The leaves from such trees do not perceptibly fall, and are always green. Fruits shipped to this market are grown as far south as the tenth degree north latitude. This parallel runs through Cartagina, United States of Columbia. The western boundary of the fruit producing area is the Pacific Coast, although the bulk is not obtained farther west than eighty-five degrees east of Greenwich. This meridian runs through the centre of the State of Michigan. Fruit is also obtained from the Mediterranean ports of Sicily, Italy and Spain. Dried fruits are obtained very largely from Turkey and Persia, and at times apples have been shipped from New Zealand, so that fruit is shipped at times from nearly all parts of the civilized world. The introduction of irrigation in the western states has caused the fruit raising industry to grow with great rapidity, and especially in the territory of Arizona. It may be interesting to note that the same merchants are identified with both the sale of dairy products and of fruit. This combined interest is the third largest industry of dairy products and of fruit. This combined interest is the third largest industry in the world. Fruits and vegetables from nearby sources of supply are transported in very much the same manner as any other class of freight, that coming from great distances, either on steamers from the tropics, or in cars from the far west is more distances, either on steamers from the tropics, or in cars from the far west is more carefully handled and protected, so as to reduce the loss to a minimum. The western fruit is transported in properly ventilated refrigerator cars, and those vessels bringing fruits from the tropics are especially constructed and provided with a modern ventilating system. The only instance of the transportation of fruit in which speed is lacking is in the shipment of pines in bulk from Key West and the Bahamas. This is done in schooners, the average length of passage being about twelve days. The principal points of arrival of fruit are as follows:

Delaware, Lackawanna and Western Railroad, Pier 13, North river.

Delaware, Lackawanna and Western Railroad, Pier American Line, Pier 14, North river.
New York Central Railroad, Pier 16, North river.
Erie Railroad, Pier 20, North river.
Baltimore and Ohio Railroad, Pier 22, North river.
Pennsylvania Railroad, Pier 29, North river.
Old Dominion Line, Pier 36, North river.
Clyde Line, Pier 45, North river.

Ward Line, Piers 16 and 17, East river.

The bulk of the Mediterranean fruit lands in Brooklyn, between Fulton and Forty-second streets. In addition to these principal points of arrival, all of the steamship companies and all of the express companies and river boats transport a considerable amount of produce in small quantities throughout the year.

The Savannah, Pennsylvania, and Old Dominion Companies open their docks for business at a calcular manner. These places are over great markets where 70 per cent

The Savannah, Pennsylvania, and Old Dominion Companies open their docks for business at 3 o'clock a. m. These places are our great markets, where 70 per cent. of the product is sold. From these points, as a rule, the entire community is supplied. All of this is done at private sale.

All jobbers and retail grocers go there to make their daily purchases. The heaviest days are Mondays, Wednesdays and Fridays.

The next important method of distribution is by public auction; the principal places being Pier 20, North river, and the Erie Railroad, known as the "California Dock." All far western fruit arrives there and is lined up from midnight to 8 o'clock a. m., when samples are opened and exposed to the buyers. (No retailing.) At 8 o'clock a. m. the fruit is sold upstairs in a large room especially constructed for the purpose. There are two auction companies, who alternate as to whom shall be the first in selling.

first in selling. All Mediterranean fruits are sold by auction. The goods are lined up, as on the California Dock, at the Brooklyn and Jersey City wharves. The buyers examine the lines which they wish to purchase, mark their catalogues, then return to New York, where the goods are sold by Brown & Seccomb, and the Fruit Auction Company. The only other fruit sold at auction is about 80 per cent. of the "pines," and 20 per cent. of the bananas.

Railroad and express fruit, other than the above described, goes direct to the Commission Merchant's stores, and from there it is sold to the retailers and peddlers.

With few exceptions, vegetables arrive at the same places as fruit, but are shipped from nearby points. The season begins about March 15 with Floridian products, as the season advances the supply gradually works north, until October, at which time the northern part of this State ends the season with fresh shipments, potatoes, cabbages turning and carrots excepted which are chipped all winter and until the beginning. the northern part of this State ends the season with fresh shipments, potatoes, cabbages, turnips and carrots excepted, which are shipped all winter, and until the beginning of the following season. Large quantities of cabbage are obtained from Germany, while from Ireland, Scotland, Belgium and Germany, at times, when the native crops are short and prices high, are imported potatoes. The duty of twenty-five cents per bushel on potatoes and onions is sufficient to be prohibitive, except at times of great scarcity in this country. Large quantities of onions are obtained from Spain, and at times many are imported from Egypt. Occasionally there is such an influx of vegetables from the South that the outgoing steamers of the Savannah and Old Dominion Lines carry much of the product which they had brought north to sea and dump it. As many as 12,000 crates have been known to be disposed of in this way in one day. The chief places for the distribution of vegetables in bulk, that is, loose in car lots, are the

New York Central Railroad, foot of West Thirty-third street.

Erie yards, foot of West Twenty-seventh street.

Palmer's Dock, Williamsburg.

As in the other classes of inspection already described, the fruit and fish Inspectors are assigned to districts in which they are expected to be familiar with the quality of the food stuffs offered for sale. They rotate periodically, so that each Inspector, in time, becomes familiar with the conditions existing throughout the borough. From

the food stuffs offered for sale. They rotate periodically, so that each Inspector, in time, becomes familiar with the conditions existing throughout the borough. From the nature of the work, it is also necessary to assign Inspectors to a special kind of work, consequently, there is one man, who, eight months in the year, is kept at the wholesale market along the river front. This supervision is maintained during the night time. There is another detailed to make frequent examinations of the food stuffs offered for sale in the large department stores, and also to keep in touch with the sale of canned condensed milk, mineral waters, syrup extracts and kindred food products. There is still another, whose duty it is to keep in touch with the wholesale grocers, confectionery supply houses, canned goods brokers, and the importers of dry groceries, and, lastly, a man of long experience has been assigned to take charge of the railroad yards and the river front, thus forming a system of inspection as perfect as may be devised with the limited number of men employed. (Twelve, of which number one is lately deceased, and two have been ill for a long period of time, thus making a net working force of nine.) thus making a net working force of nine.)

The Borough of Brooklyn has but one Inspector, who looks after imported food stuffs, and whose territory is limited to the shore front. His work is considered extremely important and delicate, for it deals largely with a foreign element, and the United States Government. This branch of the Department work was inaugurated June 4, 1906, and to give an idea of its volume from that time to date, the results are here appended:

Pineapples Seized and Destroyed.

Date.	Steamer and Location.	Crates.	Pounds
1906.	XX 0 0 0 0 0 0 0 0.		
	Vigilancia, Pier 17, East river, Brooklyn	350	24,500
	Bayamo, Pier 18, East river, Brooklyn	585	40,950
	Morro Castle, Pier 19, East river, Brooklyn	747	52,480
	p Monterey, Pier 17, East river, Brooklyn	749	52,480
June 14, steamshi	p Matanza, Pier 18, East river, Brooklyn	870	60,900
June 19, steamsh	ip Segurancia, Pier 17, East river, Brooklyn	417	29,19
June 21, steamsh	ip Seneca, Pier 18, East river, Brooklyn	909	63,630
June 16, steamsh	ip Merida, Pier 19, East river, Brooklyn	584	40,886
June 25, steamsh	ip Morro Castle, Pier 19, East river, Brooklyn	832	58,240
June 27, steamsh	ip Esperanza, Pier 17, East river, Brooklyn	1,181	82,670
June 29, steamsh	p Matanza, Pier 18, East river, Brooklyn	1,811	126,770
July 2, steamship	Mexico, Pier 19, East river, Brooklyn	1,475	103,250
fuly 5, steamship	Vigilencia, Pier 17, East river, Brooklyn	467	32,690
fuly 7, steamship	Morro Castle, Pier 18, East river, Brooklyn	1,041	72,870
July 11, steamship	Monterey, Pier 17, East river, Brooklyn	248	17,360
July 13, steamship	Mexico, Pier 18, East river, Brooklyn	577	40,390
July 13, steamship	Philadelphia, Pier 11, East river, Brooklyn	145	10,150
uly 17, steamship	Caracas, Pier 11, East river, Brooklyn	35	2,450
July 17, steamshi	Merida, Pier 17, East river, Brooklyn	183	12,810
July 24, steamship	Esperanza, Pier 18, East river, Brooklyn	124	8,680
July 26, steamship	Mexico, Pier 17, East river, Brooklyn	143	10,010
August 1, steams	nip Seguranca, Pier 18, East river, Brooklyn	215	15,050
August 3, steamsh	ip Morro Castle, Pier 17, East river, Brooklyn	290	20,300
August 6, steamsh	ip Monterey, Pier 17, East river, Brooklyn	27	1,890
August 9, steams	nip Mexico, Pier 17, East river, Brooklyn	228	15,960
August 16, steams	ship Morro Castle, Pier 18, East river, Brooklyn	17	1,190
	hip Esperanza, Pier 17, East river, Brooklyn	104	7,280
August 23. steams	hip Mexico, Pier 18, East river, Brooklyn	134	9,380
	ship Morro Castle, Pier 18, East river, Brooklyn	286	20,020
	mship Mexico, Pier 18, East river, Brooklyn	202	14,140
	amship Morro Castle, Pier 18, East river, Brooklyn	300	21,000
and the same of th	amship Esperanza, Pier 17, East river, Brooklyn	201	14,070
	amship Mexico, Pier 17, East river, Brooklyn	143	10,010
Primor no, over			
	4 4	15,620	1,093,400

Mangoes.

Date.	Steamer and Location.	Crates.	Pounds.
1906. July 24, steamship Esper	ranza, Pier 18, East river, Brooklyn	47	1,645

Preserved Cherries.

Date.	Steamer and Location.	Casks.	Pounds.
1906. July 13, steamship Indian	a, Pier 6, Bush Docks, Brooklyn	2	700

Date Lecution. Hampers Poquits. Page 19, Union Stores, fost of Sodgwick street, Brooklyn 644 18,245 August 21, Masters Stores, fost of Sodgwick street, Brooklyn 795 72,245 August 21, Masters Stores, fost of Sodgwick street, Brooklyn 795 72,245 August 21, Masters Stores, fost of Sodgwick street, Brooklyn 795 72,245 August 21, Masters Stores, fost of Sodgwick street, Brooklyn 796 72,245 August 21, Masters Stores, fost of Sodgwick street, Brooklyn 796 72,245 August 21,245 72,245 August 21,245 72,245 72,245		Pound 5 5 6 5 6 2 8 8 8 8 8 12 14 14 15 14 15 14 15 14 15 14 15 14 15 16 16 17 14 17 14 17 14 17 14 15 16 16 17 17 17 18
November 26, steamship Moreins, Per 6, Boah Dodes. 1987. 1988.	103 115 24 93 52 163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	5.6 6.; 1;; 5.7 2.8 8.9 80,8 2,9 64.9 14,9 34.4 1,1 63.9 15,7 421,3 Pounce 419,7 1,6
July 1, Tales Sterns, foot of Sedgwick street, Brooklyn. 94 19 19 19 19 19 19 19 19 19 19 19 19 19	115 24 93 52 163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	6,: 1;; 5,: 2,8 8,5 80,8 2,9 64,5 42,1 12,4 1,1 63,9 15,7 421,3 Pound 419,7 1,6
July 19, Chiefe Stores, foot of Sedgreick street, Broodlyn. September 6, Union Stores, foot of Sedgreick street, Broodlyn. 198 22,469 Record of Lemons Science and Destroyed (Brooklyn. Record of Lemons Science and Destroyed (Brooklyn.) Record of Lemons Science and Destroyed (Brooklyn.) Part Steamer and Location. Niszes. Pounts Bare Steamer and Location. Niszes. Pounts Japon. Record of Lemons Science and Destroyed (Brooklyn.) Date. Steamer and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Record of Lemons Science and Location. Niszes. Pounts Japon. Japon. Japon. Japon. Japon. Japon. Japon. Japon.	24 93 52 163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	2,8 8,5 80,8 2,9 64,5 42,1 12,4 14,5 34,4 1,1 63,9 15,7 421,3 Pounce 419,7 1,6
December 1, steamship Germankip Sofa Holoshes December 2, steamship Foreice, Pier 2, Bush Docks December 2, steamship Foreice, Pier 2, Bush Docks December 3, steamship Foreice, Pier 2, Bush Docks December 3, steamship Foreice, Pier 3, Bush Docks December 3, steamship Foreice, Pier 4, Bush Docks December 3, steamship Germankip Foreice, Pier 4, Bush Docks December 3, steamship Germankip Germ	93 52 163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	5.1 2.8 8.9 80.8 2.9 64.9 12.4 1.1 63.9 15.7 421,3 Pounce 419,7 1,6
December	52 163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	2,8 8,9 80,6 42,1 64,5 42,1 12,4 1,1 63,9 15,7 421,3 Pound 419,7 1,6
December 4, steamship Freez, Pier 5, Bush Docks. December 5, steamship Freezing, Pier 6, Bush Docks. December 5, steamship Freezing, Pier 6, Bush Docks. December 5, steamship Carspain, Pier 6, Bush Docks. December 7, steamship Carspain, Pier 7, Bush Docks. December 8, steamship Carspain, Pier 7, Bush Docks. December 8, steamship Carspain, Pier 7, Bush Docks. December 1, steamship Carspain, Pier 7, Bush Docks. December 2, steamship Mouvino, Pier 6, Bush Docks. December 2, steamship Mouvino, Pier 6, Bush Docks.	163 1,470 47 1,181 767 226 14 272 626 21 1,163 286 7,712	8,5 80,8 90,6 64,5 42,1 12,4 14,5 34,4 1,1 63,9 15,7 421,3 Pounce 419,7 1,6
Record of Lemons Scized and Destroyed (Brooklyn). Date. Steamer and Location. Boxes. Pounds. 1996. Date. Steamer and Location. Boxes. Pounds. 1996. June 11, steamship Principessa Lateria, Pier 5, Bush Docks. 364 Jane 13, steamship Principessa Lateria, Pier 5, Bush Docks. 369 June 13, steamship Principessa Lateria, Pier 5, Bush Docks. 369 June 14, steamship Principessa Lateria, Pier 5, Bush Docks. 369 June 15, steamship Principessa Lateria, Pier 5, Bush Docks. 369 June 16, steamship Principessa Lateria, Pier 5, Bush Docks. 369 June 18, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 June 19, steamship Principessa Lateria, Pier 5, Bush Docks. 359 July 20, steamship Principessa Lateria, Pier 5, Bush Docks. 359 July 20, steamship Principessa Lateria, Pier 5, Bush Docks. 359 July 21, steamship Principessa Lateria, Pier 5, Bush Docks. 359 July 22, steamship Scilian Principe, Pier 4, Manhattan. 1146 July 23, steamship Scilian Principe, Pier 4, Bush Docks. 359 July 24, steamship Principessa Lateria, Pier 5, Bush Docks. 359 July 24, steamship Indiana, Pier 6, Bush Docks. 359 July 25, steamship Indiana, Pier 6, Bush Docks. 359 July 26, steamship Indiana, Pier 6, Bush Docks. 359 July 26, steamship Regina Elna, Pier 5, Rush Docks. 359 July 28, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, Bush Docks. 359 July 29, steamship Regina Elna, Pier 5, B	1,470 47 1,181 767 226 14 272 626 21 1,163 286 -7,712	80,8 2,9 64.9 64.9 14,9 14,9 15,7 421,3 Pound 421,3
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June 16, steamship Tene, Pier 5, Bush Docks	1,163 286 7,712 	1,1 63,9 15,7 421,3 Pound 419,7 1,6 421,3
June 18, steamship Prancesca, Pier 5, Bush Docks	286 7,712 Packages.	Pound 421,3 Pound 419,7 1,6 421,3
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July 2, steamship Citta Di Messina, Fier 6, Bush Docks. 250 July 2, steamship Maria, Fier 5, Bush Docks. 872 July 3, steamship Maria, Fier 5, Bush Docks. 872 July 10, steamship Sofia Hobenberg, Fier 2, Bush Docks. 102 July 10, steamship Teresa, Fier 6, Bush Docks. 102 July 10, steamship Teresa, Fier 6, Bush Docks. 102 July 12, steamship Gerty, Fier 4, Bush Docks. 102 July 23, steamship Gerty, Fier 4, Bush Docks. 118 July 23, steamship Guilia, Fier 5, Bush Docks. 118 July 23, steamship Guilia, Fier 5, Bush Docks. 120 July 24, steamship Judia, Fier 5, Bush Docks. 120 July 23, steamship Judia, Fier 5, Bush Docks. 120 July 24, steamship Junia, Fier 6, Bush Docks. 120 July 24, steamship Junia, Fier 5, Bush Docks. 120 July 24, steamship Junia, Fier 5, Bush Docks. 120 July 25, steamship Maronano, Fier 6, Bush Docks. 120 July 26, steamship Junia, Fier 5, Bush Docks. 120 July 26, steamship Junia, Fier 5, Bush Docks. 120 July 26, steamship Carle, Fier 2, Bush Docks. 120 July 26, steamship Carle, Fier 3, Bush Docks. 120 July 27, steamship Carle, Fier 3, Bush Docks. 120 July 28, steamship Maronano, Fier 6, Bush Docks. 120 August 15, steamship Emelia, Fier 5, Bush Docks. 120 July 28, steamship Farnecae, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, steamship Carle, Fier 5, Bush Docks. 120 July 30, ste	ackages.	419,7 1,6 421,3 Pound
July 2, steamship Sicilian Prince, Pier 4, Bush Docks.	ackages.	419,7 1,6 421,3 Pound
July 2, steamship Maria, Pier 5, Bush Docks	ackages.	1,6 421,3 Pound
July 5, steamship Creic, Pier 26, Bush Docks	'ackages.	421,3 Pound
July 7, steamship Cretic, Pier 29, North river, Manhattan	21 72	Pound
July 10, steamship Italia, Pier 6, Bush Docks	21 72	4
July 12, steamship Teress, Pier 6, Bush Docks.	21 72	4
July 16, steamship Gerty, Pier 4, Bush Docks. 692 55,360 July 17, steamship Try, Pier 5, Bush Docks. 138 11,440 July 27, steamship Indiana, Pier 6, Bush Docks. 138 11,440 July 23, steamship Guilia, Pier 5, Bush Docks. 86 6,880 July 23, steamship Slavonia, Pier 52, North river, Manhattan 121 9,680 July 23, steamship Vincenzo Bonnano, Pier 6, Bush Docks. 1,230 98,400 July 28, steamship Vincenzo Bonnano, Pier 6, Bush Docks. 7,417 July 28, steamship Francesca, Pier 5, Bush Docks. 23 1,840 August 4, steamship Francesca, Pier 5, Bush Docks. 23 1,840 August 16, steamship Cretic, Pier 3, Bush Docks. 23 1,840 August 15, steamship Cretic, Pier 52, North river, Manhattan 20 1,660 Date. Steamer and Location. Pier 5, Gush Docks. 17 1,360 August 2, steamship Sicilian Prince, Pier 4, Bush Docks. 17 1,360 August 2, steamship Vincenzo Bonnano, Pier 6, Bush Docks. 17 1,360 August 3, steamship Clara, Pier 5, Bush Docks. 102 8,160 August 15, steamship Francesca, Pier 5, Bush Docks. 23 1,840 August 15, steamship Francesca, Pier 5, Bush Docks. 23 1,840 August 15, steamship Cretic, Pier 52, North river, Manhattan 20 1,660 Date. Steamer and Location. Cases. Pounds. 75 August 15, steamship Monviso, Pier 6, Bush Docks. 1906. 1,600 Date. Steamer and Location. Cases. Pounds. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier 6, Bush Docks. 1,600 August 15, steamship Monviso, Pier	21 72	4
July 17, steamship Erny, Pier 5, Bush Docks	72	
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Duly 23, steamship Slavonia, Pier 52, North river, Manhattan		1,7
July 24, steamship Lucia, Pier 5, Bush Docks	67	
July 23, steamship Vincenzo Bonnano, Pier 6, Bush Docks. 7,417 556,275 July 28, steamship Emelia, Pier 5, Bush Docks. 698 55,840 July 30, steamship Napolitan Prince, Pier 4, Bush Docks. 17 1,360 August 2, steamship Hermine, Pier 5, Bush Docks. 144 11,520 August 3, steamship Fancesca, Pier 5, Bush Docks. 47 3,766 August 4, steamship Fancesca, Pier 5, Bush Docks. 423 1,840 August 13, steamship Luisiana, Pier 4, Bush Docks. 23 1,840 August 16, steamship Regina Elna, Pier 5, Bush Docks. 403 32,240 August 16, steamship Cretic, Pier 52, North river, Manhattan 20 1,600 17,772 1,384,675 Pounds. Prickly Pears. Date. Steamer and Location. Cases. Pounds. 1906. Italian Melons.		1,4
July 28, steamship Emelia, Pier 5, Bush Docks		
July 28, steamship Emelia, Pier 5, Bush Docks	160	3,6
August 2, steamship Hermine, Pier 5, Bush Docks. 144 11,520 August 3, steamship Clara, Pier 5, Bush Docks. 102 8,160 August 4, steamship Francesca, Pier 5, Bush Docks. 47 3,760 August 13, steamship Luisiana, Pier 4, Bush Docks. 23 1,840 August 15, steamship Regina Elna, Pier 5, Bush Docks. 403 32,240 August 16, steamship Cretic, Pier 52, North river, Manhattan 20 1,600 17,772 1,384,675 Pounds. 75 10,355 boxes, each at 75 Date. Steamer and Location. Cases. Pounds. Prickly Pears. Date. Steamship Monviso, Pier 6, Bush Docks. 1906. Italian Melons.	Vanistick of	9.6
August 3, steamship Clara, Pier 5, Bush Docks. August 4, steamship Francesca, Pier 5, Bush Docks. August 13, steamship Luisiana, Pier 4, Bush Docks. August 15, steamship Regina Elna, Pier 5, Bush Docks. August 16, steamship Cretic, Pier 52, North river, Manhattan. 20 1,600 17,772 1,384,675 Pounds. 7,417 boxes, each at. Pounds. Prickly Pears. Date. Steamer and Location. Cases. Pounds. Pounds. Prickly Pears. Date. Steamer and Location. Cases. Pounds. Italian Melons.		
August 4, steamship Clara, Pier 5, Bush Docks. August 13, steamship Francesca, Pier 5, Bush Docks. August 13, steamship Luisiana, Pier 4, Bush Docks. August 15, steamship Regina Elna, Pier 5, Bush Docks. August 16, steamship Cretic, Pier 52, North river, Manhattan. 20 1,600 17,772 1,384,675 Pounds. 7,417 boxes, each at. Prickly Pears. Date. Steamer and Location. Cases. Pounds. Point Steamship Monviso, Pier 6, Bush Docks. Italian Melons.		
August 13, steamship Luisiana, Pier 4, Bush Docks. August 15, steamship Regina Elna, Pier 5, Bush Docks. August 16, steamship Cretic, Pier 52, North river, Manhattan. 20 1,600 17,772 1,384,675 Pomegranates. Pounds. 7,417 boxes, each at		- Marie
August 13, steamship Luisiana, Pier 4, Bush Docks. August 15, steamship Regina Elna, Pier 5, Bush Docks. August 16, steamship Cretic, Pier 52, North river, Manhattan. 20 1,600 17,772 1,384,675 Pomegranates. 7,417 boxes, each at. Poinds. Prickly Pears. Date. Steamer and Location. Cases. Pounds. 1906. Prickly Pears. Italian Melons.	C	D
August 16, steamship Cretic, Pier 52, North river, Manhattan	Cases.	Pound
Tagist 16, steamship Cletz, Fer 32, Noth five, Mahadah 20 1,000 17,772 1,384,675 Pomegranates. Pounds. Point Steamer and Location. Pomegranates. Date. Steamer and Location. Pomegranates. Date. Steamer and Location. Cases. Pounds. 1906. Italian Melons.		1
Pounds. 7,417 boxes, each at	143	6,8
7,417 boxes, each at		-
Prickly Pears. Date. Steamer and Location. Cases. Pounds. 1906. August 15, steamship Monviso, Pier 6, Bush Docks	Cases.	Pound
Italian Melons.	183	13,7
1906.		
September 24, steamship Francesca, Pier 5, Bush Docks	stell tillig a	it is
	Cases.	Pound
November 12, steamship Francesca, Pier 5, Bush Docks	LOSELE MA	E DELL'A
October 8, steamship Algeria, Pier 29, Union Stores	25	2,0
		7.0
Pounds. 80 80	36	2,8
Record of Grapes Seized and Destroyed. Oranges.		
Date. Steamer and Location. Barrels. Pounds.	Boxes.	Pound
1906. August 4, steamship Francesca, Pier 5, Bush Docks		
September 25, steamship Cretic, Pier 49, North river, Manhattan 9 November 2, steamship Porto Rico, Pier 35, East river, Brooklyn 9	19	1,5
October 5, steamship Germania, Pier 34, Atlantic Docks	56	4.4
October 8, steamship Algeria, Pier 29, Union Stores	37	2,9
October 16, steamship Gallia, Pier 37, Atlantic Docks	91	7.2
October 24, steamship Madonna, Pier 38, Atlantic Docks	91	7,2
October 25, steamship Dora, Pier 5, Bush Docks	-	
October 29, steamship Carolina, Pier 3, Bush Docks	263	21,0
October 31, steamship Italia, Pier 29, Union Stores	-	
November 3, steamship Roma, Pier 34, Atlantic Docks		
November 8, steamship Virginia, Pier 6, Bush Docks		
November 10, steamship Guilia, Pier 5, Bush Docks		
		Pound
November 14, steamship Francesca, Pier 5, Bush Docks	Cases.	
November 17, steamship Neustria, Pier 38, Atlantic Docks	Cases.	1,8

Recapitulation.	12
SALAMOND TO BE THE STATE AND SECURITION OF THE SECURITION.	Pounds.
Lemons	1,384,675
Grapes	421,325
Pineapples	1,093,400
Prickly pears	9,600
Mangoes	1,645
Preserved cherries	700
Garlic	64,050
Macaroni	3,664
Canned tomatoes	6,864
Pomegranates	13,725
Italian melons	2,880
Vegetables	1,840
Oranges	21,040
The state of the s	
. Total	3,025,408

During the past year all of the retail confectionery stores and cellars where candy is manufactured have been inspected. In many instances the utensils used and the conditions surrounding the manufacture of candy were far from sanitary. The utensils were old, rusty and dirty. In many cases the floors were found to be broken and saturated with offensive liquids, so that it was impossible for them

People lived and slept in close proximity to their work. There were about 3,500 places of this character inspected, as a result of which nearly 400 notices or orders were issued. Most of these have been complied with. In one or two instances the manufacture of candy under such circumstances was declared to be a public nuisance by the Board of Health and the places closed. In many other cases the business was discontinued by the proprietor rather than go to the expense of making the improvements and alterations required. A similar inspection has been made of the bake shops, the Italian macaroni manufacturers and the retail grocery stores; especially has the practice of drying macaroni on the sidewalks in front of the stores been discouraged. to be kept clean.

been discouraged.

The national agitation caused by the passage of the Pure Food and Drug Law, June 30, 1906, has not increased the activity of that part of the Department service dealing with foods, for at all times section 68 of the Sanitary Code, adopted many years ago, has been strictly enforced. It has, however, helped to bring into close relationship all of the food manufacturers with the health authorties, thus making the Department one of vast importance in connection with all food producers. Close association with the various manufacturers of food has developed the unquestionable truth that fully 95 per cent. of the dealers desire to observe and not to evade the law. Usually infractions are caused by ignorance rather than intent.

During the year 1906 1,365 samples of various foods and drugs have been obtained and delivered to the cehmical laboratory for analysis. Included in this number are articles which are usually supposed to be adulterated, among which may be mentioned spices, flavoring extracts, fruit syrups, maple syrup, jams, jellies, confectionery, confectionery coloring, dried fish and dried fruit, canned foods, canned condensed milk, gelatin, liquid eggs, teas, coffees, butter, catsups, sauces, baking powders, sausages, drugs and physicians' prescriptions to determine cases of substitution. been discouraged.

Inspectors, in conjunction with their routine work, obtain samples of the articles mentioned in the list above and deliver them personally to the Chemist at the labora-

tory who is to be assigned to make the analysis, so that in the event of prosecution the chain of evidence from the vendor to the Chemist will not be broken.

During the agitation early in the year in relation to the meat packing industry all places in this borough where sausages were sold and made were inspected, and samples obtained to ascertain whether they contained preservatives and coloring. Many were found to contain borates and coal tar dyes. In such cases the makers and vendors were summoned to the office of the Assistant Sanitary Superintendent

and vendors were summoned to the office of the Assistant Sanitary Superintendent and their attention called to the fact that the use of these materials in sausage was a violation of the provisions of the Sanitary Code, and they were warned that a second offense would lead to the case being brought before the Criminal Court.

Re-examinations were made of all these places subsequently and samples were obtained for reanalysis. With but very few exceptions upon reinspection no preservatives or artificial coloring were found, and in those few cases arrests were made and fines imposed by the Court of Special Sessions.

These have also been made a few arrests for other adulterations and for false

and fines imposed by the Court of Special Sessions.

There have also been made a few arrests for other adulterations and for false labeling and misbranding, in all of which cases the offenders were convicted and fined in the Court of Special Sessions.

The territory known as the East Side comprises that part of Manhattan Island bounded by Houston street, Chatham square and Bowery to East river. The population there is the heaviest and is composed chiefly of foreigners, mostly Hebrews. They deal in every known kind of food, having their places of business on the sidewalk, on push carts, and, in fact, anywhere space is available. They do not understand English, nor do they care to when approached by the Department's Inspectors, who are ever alert to see if their wares are fit to sell. One Inspector is on duty constantly, assisted by two others Tuesdays and Fridays (their great market days). He is furnished with a wagon by the Department of Health in order that he may remove for destruction the food stuffs seized by him.

Nearly all foreign fruits pay duty to the Government, and when it arrives in poor condition great care must be exercised in order that the two powers may work in harmony.

harmony.

The Government do not object to condemnation proceedings, but wish to be The Government do not object to condemnation proceedings, but wish to be assured that the fruit will reach the dump. Heretofore the Government sold lemons at auction that were abandoned by the importers as not worth freight and duty. That was an evil to overcome, for nearly all of it was purchased by the East Side dealers. Finally arrangements were made with the Federal authorities that all abandoned goods were to be sold the same as usual, but only sound deliveries made. Importations of food stuffs are increasing in such proportions that inspections and condemnations have assumed a magnitude that make it absolutely essential for additional assistance in order that the present efficiency may be obtained.

An evil with which the Department has been contending for years is the Fulton Fish Market, and streets adjacent thereto, by reason of the incessant complaints made by citizens having their wearing apparel ruined by coming in contact with fish and fish slime. There was some slight excuse for this, owing to the limited space and

By constant vigilance, care, threats and diplomacy practically a normal condition now prevails, and not a complaint in seven months has been made. This state of tranquillity and efficiency has not at any time heretofore existed.

The retail markets for fish are fewer than in previous years owing to the fact that the stringent Department rules require the dealers who occupy stalls and stands to live up to high sanitary conditions, which many had previously refused to do, as it involved the expenditure of too much money. All of the ice houses and cold storage buildings are regularly visited by an Inspector familiar with the fish trade, and in the summer months he looks after the fish while being stored to see that only the best goes to the freezer. During his subsequent visits to these places he carefully notes the temperature to see that it is not intermitent above 32 degrees F. Fish, in many instances, before being offered for sale is assorted into different sizes and kinds.

Most of the different wholesale fish dealers outside of New York and also the

Most of the different wholesale fish dealers outside of New York and also the owners of the retail fish markets of this and neighboring cities arrive at the market about 5 a. m. A certain few make it a practice to get to the market any time between the hours of 7 a. m. and 9 a. m.

Then there is what is commonly called the basket trade, which is principally composed of Sicilians. They arrive early with zinc-lined baskets, which hold about 100 pounds of fish. They purchase as much as they can conveniently carry, and dispose of same to the different families in the five boroughs of Greater New York, also Jersey City and Hoboken, going even as far as Newark, N. J.

There is another class which only traffic in fish on Fridays and other days on which the eating of meat is prohibited by religious laws. These are the owners of meat markets in different parts of New York City and elsewhere.

Last, but not least, are the Jewish venders and storekeepers who purchase about nine-tenths of all the fresh water fish received at this market. The most of this fish is consumed by the numerous Hebrew families living in the territory bounded by Houston street, East river, Catherine street and the Bowery. A large amount is consumed in the Borough of Brooklyn, in the section known as Brownsville; also in Newark, New Jersey. Very few venders from push carts and other vehicles are at present in the fish business owing to the enforcement of section 45 of the Sanitary Code.

The ingenuity of the human mind in conceiving improper ways and means of making a livelihood has been exemplified by the discovery of a few people, of whom it is alleged that they paint by hand certain fish in order to give a brilliant hue, which finds it a ready market, and in addition use coal tar to give a smoky taste; this kind of sea food is usually sold by delicatessen stores, and the subtlety covers a great deception, for it affords opportunity to sell a very low grade fish for a high priced one. This traffic and abuse is now being carefully investigated, and when the chemical analyses will have been finished the offenders will be summarily dealt with.

A synopsis of the labor of the Inspectors working in this part of the Division

is given in the following table:	
Total number of inspections	361,878
Total number of pounds of fruit and food condemned	15,282,383
Total number of pounds of fish condemned	330,916
Total number of orders resulting from citizens' and original complaints	308
Total number of citizens' complaints	308
Total number of complaints returned negative	234
Total number of samples obtained and delivered to the Chemical Laboratory	
for analysis	
Total number of arrests	11
Amount of fines	

Meat.

There has been but little change in the methods of handling meat for the New York market commercially. There have been no new abattoirs erected and very few, if any, changes have been made in the abattoirs already in existence. As a result of the investigation of the food question, and more especially that of the preparation of meat for food by the United States Government early in the year, the number of men assigned to the inspection of meat was increased by five new Inspectors, appointed on the 4th of June, 1906. This addition to the working force is enabling the Department to keep a closer watch upon the slaughter houses and upon the markets and retail stores in which meat is sold. In consequence of this increased force, the Inspectors of this Department condemned 1,526,239 pounds of meat during the year 1906, against 342,269 pounds during the year 1905.

Slaughter Houses.

The districts in which slaughter houses (other than poultry slaughter houses) may be conducted are defined in section 84 of the Sanitary Code. In each district a sufficient number of Inspectors of Foods (meat) are assigned to control the slaughtering of animals and the quality of the meat produced. They are required to examine the stock on the hoof and after killing, and to seize and destroy all such as is unfit for human food. The meat which is condemned is immediately destroyed in the tanks which are used for the destruction of the offal from the slaughter house. These Inspectors are also required to see that the slaughter houses and their appurtenances are at all times kept sanitary. tenances are at all times kept sanitary.

In addition, from time to time, a Sanitary Inspector makes a thorough examination of the slaughter houses and disposal plants, and submits written reports as to their condition. Early in the summer one of the oldest disposal plants on the west side was declared to be a public nuisance, as a result of which very extensive alterations and improvements have been made and the plant is now in as good conditions and improvements have been made and the plant is now in as good conditions.

dition as such a plant may be placed.

It may seem strange that the most poignant reason for the existence of slaughter houses in the heart of a large city is a religious one, but such is the fact. The Jewish population of New York is greater than that of any city of the world, and as the orthodox Jew is not allowed by his religion to eat food which is not "kosher," the necessity is explained.

The Poblical definitions of "kosher" meet are such that animals cannot be

The Rabinical definitions of "kosher" meat are such that animals cannot be slaughtered at any distance from the point at which the meat is to be consumed. In all of the local slaughter houses are Jewish religious officials, who examine each carcass and mark it either "kosher" or trefir.

The disposal of the blood and offal from these slaughter houses is a most serious one, and one over which the Department of Health keeps constant supervision, in order that no offensive odors may arise or that no nuisance may be created. As a result of this control, there have been few, if any, complaints received which, upon investigation, were found to be justifiable. The following tables will show the number of animals slaughtered for food in the Borough of Manhattan during the year 1906:

Animals Slaughtered at East Side Abattoirs.

	Cattle.	Sheep.	Hogs.	Calves.	Total.
January	25,966	73.756	****	8,243	107,965
February	27,328	70,391		8,680	106,399
March	25,734	69,134		11,051	105,919
April	22,879	76,589		23,514	122,982
May	29,925	123,021		35,867	188,813
June	26,197	100,455		22,898	149,550
July	21,215	90,990		16,996	129,201
August	28,602	78,187		27,188	133,977
September	23,814	72,128		9,931	105,873
October	28,236	90,026		14,067	132,329
November	25,714	77.501		10,096	113,311
December	25,651	71,039	****	9,364	106,054
Total	311,261	993,217		197,895	1,502,373

Animals Slaughtered at West Side Abattoirs.

	Cattle.	Sheep.	Hogs.	Calves.	Total.
January	11.053	45,415	100,555	3,554	160,577
February	11,372	45,580	116,220	4.423	177,595
March	9,855	28,885	74,486	5,855	129,08
April	10,231	46,045	99,015	8,064	163,35
May	10,054	41,568	74,561	13,019	139,20
June	5,687	89,779	59,706	13,528	168,70

	Cattle.	Sheep.	Hogs.	Calves.	Total.
July	10,090	60,387	61,026	11,196	142,699
August	11,115	51,659	54,080	9,671	126,525
September	9,442	52,626	64,730	7.054	133,852
October	11,762	58,017	88,480	8,878	167,145
November	10,337	48,626	81,615	7,103	147,681
December	10,281	41,581	79,659	4,681	136,202
Total	121,279	620,168	954,141	97,026	1,792,614

	Summary.			1 = 1			
			Cattle.	Sheep.	Hogs.	Calves.	Total.
East	Side		311,261	993,217		197,895	
West	Side		121,279	620,168	915,141	97,026	
		Grand total	432,540	1,613,385	954,141	294,921	

From these animals there was obtained fat, blood and offal, which was treated and disposed of on the premises without offense, to amount shown in this table.

BY-PRODUCTS. East Side Slaughter Houses.

	Offal. Tons.		Fat Rendered Pounds.
January	563	95	5,648,450
February	476	93	5,814,670
March	515	82 .	6,973,328
April	605	90	8,698,980
May	330	72	4,881,750
June	417	91	6,005,322
July	272	75	5,069,983
August	354	83	7,231,420
September	245	74	5,357,381
October	364	59	2,528,763
November	412	84	2,029,094
December	390	79	2,537,168
Total (East Side)	4,943	977	62,777,300

West Side Slaughter Houses.

	Offal. Tons.	Blood. Tons.	Fat Rendered Pounds.
January	157	85	1,378,680
February	159	87	2,458,055
March	138	69	3,882,190
April	137	76	2,392,380
May	138	70	2,867,150
June	210	119	3,409,982
July	230	97	2,852,000
August	176	64	2,520,350
Spetember	260	79	2,750,295
October	257	67	3,444,246
November	232	61	3,215,481
December	244	53	2,897,751
Total (West Side)	2,338	927	34,068,560

Summary.

	Offal. Tons.		Fat Rendered. Pounds.
West Side	2,338	927	34,068,560
East Side	4,943	977	62,777,309
Grand total	7,281	1,904	96,845,869

Poultry Slaughter Houses.

The only excuse for the existence of slaughter houses of this character in the built up portion of a city is the reason given for the maintenance of slaughter houses for cattle and small stock.

From the natural characteristics of poultry it is a question whether places of this

sort can be conducted at all times without offense.

In order to meet these conditions Meat Inspectors have also had these establishments under constant supervision, and at times Sanitary Inspectors and Patrolmen have been instructed to visit them and enforce all necessary precautions. In addition, copies of the following regulations adopted by the Board of Health are posted in one or more conspicuous places in each poultry slaughter house.

Rules and Regulations to be Observed in Conducting Poultry Slaughter-Houses in The City of New York.

- The floors of these premises must be swept, flushed and deodorized at the close
- of each day's business.

 2. All parts of the walls and ceilings, which are not sheathed with metal, must be cleaned, painted or whitewashed as often as required by the Department of Health.
- 3. All parts of cages (other than the floor) and gutters must be cleaned and painted as frequently as may be required. The floors of all cages must be scraped and cleaned immediately after emptying.

 4. No cage shall be used for the storage of fowl for a longer period than three

days, without emptying and cleaning.

5. The sheathed sides of the killing room, the absorption-box, and the gutter beneath the same, must be thoroughly cleaned with a strong solution of soda, and flushed at the close of each day's work.

6. Sawdust which has been used and all other refuse of any kind whatsoever must be deodorized and removed from the premises daily.

7. The storage of crates containing poultry is forbidden in or about the premises

8. No empty crates may be stored on the premises except in such places as may be approved by the Department of Health.

9. The accumulation of disused barrels, boxes or other offensive material will not

be allowed upon the premises.

10. No poultry are to be allowed at liberty on the premises.

Any violation of these regulations will be deemed sufficient cause for the revocation of the permit to slaughter poultry.

By order of the Board of Health.

THOMAS DARLINGTON, M. D., Commissioner of Health.

Eugene W. Scheffer, Secretary.

On the 31st of December, 1905, there were 30 permits for the maintenance of a poultry slaughter-house, and on December 31, 1906, there were 38, an increase of 8 in the total number.

Five million nine hundred and seventeen thousand three hundred and sixty-five head of poultry were slaughtered for food in the Borough of Manhattan in the year 1906.

The Milk Supply. Milk, as known in commerce, is the secretion of the mammary glands of cows. The milk from other domestic animals, while wholesome, and in some cases more nearly like human milk chemically than cow's milk, is not met with, and is not to be considered as part of New York City's supply.

Normal cows' milk contains on the average as follows:

Water		Cent. o 87
Carbohydrates (lactose)	4 to	0 5
Fats Salts or ash	3 to	0 4.50

The composition of milk varies considerably in different breeds, and to quite an extent in different cows of the same breed. The Jersey, Alderney and Guernsey breeds produce the milk which is richest in fat, while the Ayrshire and Holstein milk is lowest in fats and solids. The solids, other than fat, do not vary in as great propor-

Milk as sold in the city is to a very great extent vatted, that is, the product of the various dairies selling milk to one shipper is mixed so that the output from each

the various dairies selling milk to one shipper is mixed so that the output from each creamery is of nearly uniform quality.

Milk in itself is a complete food, and contains all of the elements necessary to sustain life. It is one of the most universal of foods, and especially is it a food for invalids, children and infants. It is of the utmost importance that it should be in a wholesome condition when it reaches the consumer, and that it should be delivered to the consumer as it is normally secreted by a healthy cow.

The most common adulterations of milk are the removal of cream or the addition of water both of which reduce its nutritive value and the use of preservatives to pre-

The most common adulterations of milk are the removal of cream or the addition of water, both of which reduce its nutritive value, and the use of preservatives to prevent souring, thus extending the life of milk in the market. All these are injurious to the consumer, more especially to children whose food so largely consists of milk. Variation in the quality of milk is very apt to derange the digestive organs of a child and preservatives seriously interfere with digestion.

Bacteria are among the smallest and simplest of all living things. They can only be seen when magnified by the microscope many thousand times. They much resemble the cells of which plants are composed, and, like plants, require moisture, warmth and food to grow. When these conditions are present they multiply very rapidly, so that from one germ 200 may be produced in three hours, 10,000 in six hours, 10,000,000 in nine hours and 2,000,000,000 in eighteen hours.

As bacteria increase in numbers, they gather nourishment from the milk or other

As bacteria increase in numbers, they gather nourishment from the milk or other substances in which they develop, and, like other higher forms of life, transform what they take into their bodies into useless or poisonous products. They thus both rob the food of its nutritious substances and add others to it which are more or less poisonous. When bacteria grow in living things, whether they be men, animals or plants, they excite changes in them which we know as disease. The bacteria which grow in dead things cause them to ferment, rot or putrefy. Thus milk becomes sour through the change of its milk sugar into acid, produced by bacteria. But long before milk becomes sour to the taste, it may contain enormous numbers of bacteria and has already become unwholesome and perhaps dangerous when employed for food especialalready become unwholesome and perhaps dangerous when employed for food, especially for young children.

The bacteria or germs which cause the various infectious diseases, such as typhoid fever, scarlet fever, diphtheria, consumption, etc., readily live and multiply in milk, and outbreaks of these diseases have been frequently traced to contamination of milk by ignorant or careless milkmen who have infected the milk with diseased germs from their hands, from polluted water or other sources, either while themselves sick or recovering from some one of these diseases, or while nursing others who were suffering from them. Many thousands of cases of illness and death have thus been produced. This is, of course, entirely unnecessary and can be prevented. It is most important, therefore, for all persons who handle milk to know from what portion of the portant, therefore, for all persons who handle milk to know from what portion of the body these minute germs are given off so that they may adopt the necessary precautions to prevent infection of the milk. The germs which cause scarlet fever are thrown off in the discharges from the nose and throat and in the scaling from the skin. Those which cause typhoid fever are voided in the urine and feces, and thus often reach the spring or well water with drainage which has leaked into it. Those which cause consumption and diphtheria are contained in the expectoration. The germs from cows which are diseased, especially when affected with consumption or disease of the udder, may also infect the the milk and produce sickness in those who drink it. The bacteria which cause milk to sour and ferment and so become unwholesome are derived from manure and dirt, which drop into the milk pail from the cow's belly or udder or tail, or from the dust in the air, or from the dirt off the milker's hands, or they are contained in the pails and cans which have not been thoroughly cleaned after having been previously used for milk.

When milk is collected under cleanly conditions, not more than one-twentieth as many bacteria fall into it as when the conditions are dirty. A very little sour milk contains millions of bacteria.

Milk affords one of the best foods for the growth of bacteria. When fresh, however, it contains substances which retard somewhat the development of bacteria for

ever, it contains substances which retard somewhat the development of bacteria for a few hours, if they are not too numerous, but we depend upon low temperatures to further limit changes in it. Just as large forms of plant life cannot grow in cold weather, so also these minute germ plants are prevented from multiplication by

weather, so also these minute germ plants are prevented from multiplication by cold.

Bacteria found in milk generally multiply most rapidly at a temperature of 95 degrees Fahrenheit, and cease to multiply at all at the freezing temperature. Any reduction of the temperature below 95 degrees Fahrenheit limits the rapidity of growth, but it is not until the temperature is 45 degrees Fahrenheit that the growth is nearly arrested. At 40 degrees Fahrenheit there is no increase for twenty-four hours in the number of bacteria present in milk, and at 32 degrees Fahrenheit milk remains unchanged for an indefinite period. In fresh milk, properly collected and quickly cooled to 45 degrees Fahrenheit and kept at this temperature during the first twenty-four hours, there is no increase in the number of bacteria; after twenty-four hours the peculiar properties of fresh milk to resist the growth of bacteria become exhausted, and the bacteria also become gradually accustomed to the cold, so that even at this temperature they may rapidly increase, and in a few days cause the milk to become sour.

For example, a sample of milk taken under good conditions contained, immediately after milking, 300 bacteria in each drop. It was cooled to 45 degrees Fahrenheit and the temperature maintained at this point. After twenty-four hours it contained in each drop only 200 bacteria; after forty-eight hours, 900, and after seventy-two hours, 150,000. The milk curdled on the sixth day. Another specimen taken in a dirty barn, cooled and kept at 52 degrees Fahrenheit, contained at first 2,000 bacteria in each drop; in twenty-four hours, 6,000; in forty-eight hours, 345,000, and in seventy-two hours, 16,500,000. The milk curdled on the fourth day.

The following interesting table prepared from data obtained by the Research Laboratory of this Department sets forth these facts very appropriately:

	11 27 200	Time Which Elapse	d before making	rest.
Temperature.	Hours.	48 Hours.	96 Hours.	168 Hours
2 degrees F. (o degrees C.) {	2,400	2,100	1,850	1,40
z degrees z. (o degrees c.,	30,000	27,000	24,000	19,00
E (dames C)	2,500	36,600	218,000	4,200,00
9 degrees F. (4 degrees C.)	38,000	56,000	4,300,000	33,000,00
P. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2,600	3,600	500,000	
degrees F. (5.5 degrees C.)	43,000	210,000	5,760,000	
	3,100	12,000	1,480,000	
6 degrees F. (6 degrees C.)	42,000	360,000	12,200,000	
I Links to I	11,600	540,000		
degrees F. (10 degrees C.)	89,000	1,940,000		
	18,800	3,400,000		
degrees F. (13 degrees C.)	187,000	38,000,000		
	180,000	28,000,000		
degrees F. (16 degrees C.)	900,000	168,000,000		
	450,000	25,000,000,000		
degrees F. (20 degrees C.)	4,000,000	25,000,000,000		
	1,400,000,000			
degrees F. (30 degrees C.)	14,000,000,000			
	25,000,000,000			
degrees F. (35 degrees C.)	25,000,000,000			

It must be admitted that it is impossible to obtain cow's milk under the ordinary conditions without allowing some bacteria (which always abound in the dirt and dust of the barn and on the cattle) to drop into it, but the number may be limited, and it is wholly unnecessary and inexcusable to permit the germs of the diseases of human beings or cattle to enter. A moderate number of germs obtained from dirt do render the milk distinctly unwholesome, even for young infants, but the fewer bacteria in it, the more wholesome it is, and when the number becomes very large the milk becomes not only unwholesome but dangerous, and the use of such milk is the commonest cause of the diarrhoeal diseases of children, particularly prevalent in summer. The importance of this may be appreciated when it is known that 6,000 deaths occurred from the diarrhoeal diseases in New York City among children under five during the year 1906. It must be remembered that, under all conditions, considerable time must elapse before milk reaches the consumer and before it is used, and that if it is not carefully handled the number of germs contained in it when used becomes very large and sometimes almost incredible; there may be at the end of the third day two or three thousand million germs in a teaspoonful of milk not properly collected and cooled. As the milk must often be kept in the house for twelve hours or more after it is delivered and before it is consumed, it naturally becomes still more more after it is delivered and before it is consumed, it naturally becomes still more unwholesome before being used, and it therefore becomes more important that milk should reach the consumer in good condition.

The number of bacteria in milk should be as low as is possible under the condition.

the number of bacteria in finite should be as low as is possible under the continuous under which practical dairy farming must at present be carried on. The cattle, stables and milkmen should be kept clean, and the pails and cans should be always scrupulously clean. The milk should be immediately cooled after being collected and transported to the cars and to the City with the least possible delay. So far as is practicable, each day's milk supply should reach the City on the following morning, and the temperature of the milk should be continuously maintained at 45 degrees

These facts being accepted, the Department of Health has determined to safe-guard New York Citv's milk supply at all points. To attain this end it has organized the milk inspection corps along the broadest lines. The complete and proper supervision of the milk supply of The City of New York is a subject to which the Department from year to year has devoted more and

more attention.

It has long been recognized that there are two conditions which influence and control very materially the keeping qualities of milk, and which may cause it to

become most unwholesome.

One of these conditions is absolute cleanliness from the moment the milk is drawn

The of these conditions is absolute cleaniness from the moment the limit is drawn from the cow until such time as it is delivered into the hands of the consumer. The other is the temperature at which the milk is kept during this period.

For over ten years, under the provisions of section 56 of the Sanitary Code, the Department of Health has been issuing permits to various persons within The City of New York to receive, hold, keep and offer for sale fresh or condensed milk. During all this time the applications for these permits have been most carefully investigated as to the conditions with which it is expected to surround the milk while on sale. as to the conditions with which it is expected to surround the milk while on sale.

It has been more and more realized within the past few years that this was but a small step towards the purification of the milk supply as a whole, and it was deemed necessary to reach out and attempt to control and correct the conditions which, if allowed to exist, could not be overcome by the most careful sanitary supervision after the milk reached the dealers in the City.

On the theory that a person making an application for a permit to sell milk, by the mere fact of his application, consented to a thorough investigation of his supply from beginning to end, investigations into the transportation of milk and the cooling of the same while on the railroads in transit were begun in 1900. Numerous conof the same while on the railroads in transit were begun in 1900. Numerous consultations were held during that and the ensuing year with the officials of the railroads directly concerned in this transportation; these gentlemen, understanding most fully that this work, while it might work a temporary hardship on the railroads in fully that this work, while it might work a temporary hardship on the railroads in question, in that they were not fully supplied with the proper cars and a sufficient quantity of ice, also realized that anything which might tend to increase the keeping qualities of the milk, prevented souring, and prevented its becoming unwholesome, would ultimately redound very much to the advantage of the various railroads which they represented, and consequently they met the suggestions of the Department most cordially and did everything that was in their power at that time to see that these suggestions were promptly and properly carried out. Since that time until the resent writing, a gradual improvement in the transportation of milk has resulted; larger and better cars of the refrigerator type are being constantly built and placed in service. All of the railroads are erecting or have erected additional icehouses of great capacity in order that they might supply their shippers with a sufficient quantity of ice to carry them through the warm and critical months of the year.

During the year 1902 an Inspector was first sent into the country to make examinations of the milk shed. He made investigations as a result of complaints and when the results of the chemical or bacteriological examinations of milk in the City showed

nations of the milk shed. He made investigations as a result of complaints and when the results of the chemical or bacteriological examinations of milk in the City showed it to be unwholesome, either on account of an excessively high count of bacteria or because of adulteration by the addition of water or preservatives, or the removal of cream. During this year inspections were made at creameries and dairies at several points on each of the milk-carrying roads with the object of finding out conditions and the changes which needed to be made both in the production and transportation of milk. The same line of work was continued during the following year, while in 1994 little was done until near the end of the year.

of milk. The same line of work was continued during the following year, while in 1904 little was done until near the end of the year.

In the year 1905 the first completely systematic investigation of the creameries was inaugurated. Through the hearty co-operation of the railroads concerned, the Chief Sanitary Inspector and two Milk Inspectors made tours over each one of the large milk-carrying railroads and made a thorough examination of each creamery

situated on the line of the road. In this way over five-hundred creameries were inspected, and in almost every instance conditions were found which were not up to spected, and in almost every instance conditions were found which were not up to the standard required. In some few places the surroundings were so unsanitary that the handling of milk was discontinued. In almost every instance something was found to criticise and correct. Of course, in a few cases the corrections were of a minor nature, but the drainage was found almost universally defective, the milk improperly protected from contamination by dust and dirt, and in some instances the milk cans and other utensils used for the handling of milk not properly cleansed. During the year 1906 this inspection has been carried on even more systematically than it was in the previous year. The Chief Sanitary Inspector, accompanied by two Milk Inspectors, again made tours over the milk-shipping railroads, and in many instances it was found that the creamery owners or managers had fully complied with the recommendations resulting from the previous inspections.

The average creamery was far better equipped in 1906 to handle milk properly than it had been in the previous year. This work will be continued until all the creameries have been placed in a satisfactory condition.

Early in 1906 it was realized that, having devoted much time and attention to the creameries, it would be necessary to reach out further into the country and to investigate the milk at its very sources. With this idea in view, the two Inspectors who were inspecting the creameries were instructed to examine a limited number of farms within their districts in order that the Department might have an idea of the

farms within their districts in order that the Department might have an idea of the conditions requiring correction at the farms. On many farms conditions were found which required immediate attention and which rendered the milk produced thereon

extremely unwholesome.

In the latter part of May additional Inspectors were appointed for the very important work of investigating the milk supply at the point of its production, and beginning on June 4, 1906, the corps was augmented by the addition of fifteen Inspectors. These men, as fast as they could be instructed in the details of their duties. spectors. These men, as fast as they could be instructed in the details of their duties, were assigned to work in the inspection of farms. These men have been employed continuously since the commencement of this work and have made a large number of inspections. In but few instances have farms been found that could be passed without some criticism or some recommendation for improvement, thus fully justifying the expenditure of additional money to carry on this work.

The men who are assigned to country work live in their districts and devote all of their time to the Department's work, except during the last two or three days of each month, when they report at the office of the Department of Health in New York City for the purpose of submitting their expense vouchers, drawing their salaries and receiving any instructions which it may be deemed necessary to issue.

and receiving any instructions which it may be deemed necessary to issue.

This country inspection is conducted in as systematic a manner as possible, the men going from creamery to creamery along the railroad and remaining at each creammen going from creamery to creamery along the railroad and remaining at each creamery until all of the farms supplying that particular place have been investigated and reported upon. These reports are mailed to the Department, where letters to the operators of the farms are prepared embracing all of the necessary recommendations to make the farms sanitary and to safeguard the production of milk at that particular place. These letters of instruction are forwarded to the creamery operator for distribution among his dairymen. The Inspector submits his report on a filing card which is illustrated below. From the nature of his report on the various numbered items the requisite letter of instruction is prepared. All reports relating to any particular creamery are filed together.

DEPARTMENT OF HEALTH. DAIL	RY BLANK	CITY OF NEW Y	CORK.
File No Date		A. P. M., Dist Inspection No	
Tenant, Owner Township P. O. Address County State Occupied farm since	Milk do On Operate N. Y.	elivered atR. R. Miles to N. Yed by	
1. Dairy rulesposted. No. of cows 2. Size of cow barn. Width Length Height Cu. ft, for each cow 3. Floors and gutters constructed of Are	20. Date 20. Date 21. Mill 22. Fore 23 24. Mill 25. Mill 26. Mill 27. Mill 28. Wat 29. Special Sp		sease the
sides or udders		Inspector of Fo	oods.

Diagram.

In addition to the letter of instruction the Department has sent out rules and regulations printed on linen in large numbers for distribution among the farmers and creamery operators. This distribution has undoubtedly had very excellent results. It has produced discussion among the farmers, and, in a way, prepared them for the visit of the Inspector, as they have been able to anticipate to a certain extent the nature of his inspection. The more intelligent and progressive have endeavored to improve their farms in accordance with these regulations. The following is a copy of the Department of Health rules and regulations in relation to the production of milk

TO BE POSTED IN ALL DAIRIES.

DEPARTMENT OF HEALTH, THE CITY OF NEW YORK.

Rules and Regulations to Be Observed by Farmers and Dairymen in the Care of Cows and Handling of Milk Shipped to The City of New York.

The Cows.

1. The cows must be kept clean.

- Manure must not be permitted to collect upon the tail, sides, udder and belly of any milch cow. Stables.
 - I. Cow stables must be well lighted and ventilated.
- 2. Floors must be tight and well drained.
 3. Manure must be removed from the stalls and gutters before the morning milking, and also before the afternoon milking, where the cows remain in the stable all day.
- Walls and ceilings must be kept clean.

 The ceilings must be so constructed that dust and dirt therefrom shall not 4.

readily fall to the floor or into the milk. Stables must be whitewashed at least once a year.

The Water Supply.

I. The water used in the barn and for washing milk utensils must be free from

The Milk House. A milk house must be provided which is separated from the stable and dwell-

ing house.
2. It must be kept clean, and must not be used for any purpose except the handling of milk.

The Milkers. No person having any communicable disease, or one caring for persons having such disease, must be allowed to handle the milk or milk utensils.

The hands of the milkers must be carefully washed immediately before milking.

The Utensils.

I. All milk utensils, including pails, cans, strainers and dippers, must be kept thoroughly clean and must be washed and scalded after each using.

Milk from diseased cows must not be shipped.

The milk must not be in any way adulterated.

The straining of milk must be done in the milk house only.

All milk must be cooled to a temperature not above 55 degrees within two hours after being drawn, and kept thereafter below that point, and must be cooled to 50 degrees or less if not delivered to the creamery twice daily.

5. The use of any preservative or coloring matter is an adulteration, and its use

by a producer or shipper will be a sufficient cause for the exclusion of his product from The City of New York.

Recommendations.

In addition to the preceding rules the Department makes the following recom-The Barnyard.

It should be well drained and dry, and should be as much sheltered as possi-

ble from the cold and wind.

2. Manure should not be allowed to collect in the barnyard, and should not be at any time in contact with the stable or milk house.

The Stables.

The cow stable should have an abundance of light and ventilation. The ventilation should preferably be from the top.
 There should be at least 600 cubic feet of air space for each cow.

3. It is desirable that the place where the cows are kept be used for no other purpose. A cow barn should not be used as a storage place for straw, hay or other feeds, or as a wagon or tool house, as the dust and dirt which accumulates in a place

of this character is liable to drop into the milk while being drawn.

4. The stable floor should be made tight, and of some non-absorbent material.

5. Cement or brick floors are the best, as they can more easily be kept clean

than wood or earth.

6. If the place over the cow is used for storage of hay the ceiling should be made tight to prevent chaff and dust falling through. The practice, somewhat common among the farmers, of packing hay, etc., on loose poles over the cows is exceedingly bad, since it invites the collection of dust and cobwebs, and the difficulty of keeping the stable clean is increased.

7. The stable should be whitewashed twice a year.

8. The manure gutter should be from six to eight inches deep, and should be kept free from manure.

kept free from manure. 9. The use of land plaster or lime is recommended upon the floors and gutters.

10. The flooring where the cows stand should be short enough so that all manure will be dropped into the gutter and not upon the floor itself.
11. The floor should be swept at least an hour before milking in order that

the dust may have a chance to settle before the milking is begun.

12. If individual drinking basins are used for the cows they should be frequently drained and cleaned.

The Cows.

The cows should be kept at all times in a healthy condition, and an examina-

tion by a veterinary surgeon should be made twice a year.

2. The cows should be groomed daily, and all collection of manure, mud or other filth should not be allowed to remain upon their flanks, sides, udders or bellies during milking.

The clipping of long hairs from the udder and right side of the cow is of assistance in preventing the collection of filth, which may drop into the milk.
 The tails should be cut so that the brush should be well above the ground.

In winter the tail may be clipped. 6. The cows should be bedded with sawdust, shavings, dried leaves, straw or some equally clean material.
7. The use of horse manure for bedding is to be condemned.

8. To prevent the cows from lying down and getting dirty between cleaning and miliking a throat latch of rope or chain should be fastened across the stanchions under the cow's neck.

The Milking and Milkers.

 The milkers should be clean.
 Their hands should be thoroughly washed with soap and water and carefully dried on clean towels before milking.
 Clean overalls and jumpers should be worn during the milking of the cows; should be used for no other purpose, and when not in use should be kept in a clean place protected from dust. place protected from dust.

The hands and teats should be kept dry during milking.

The practice of moistening the hands with milk is to be condemned.

6. The first few streams from each teat should be rejected, as this contains more bacteria than the rest of the milk.

should be rejected, and also milk from diseased cows.

8. The pails in which the milk is drawn should have as small an opening at the top as can be used in milking. This renders the collection of dirt less likely.

9. The milking should be done rapidly and quietly, and the cows should be treated kindly.

10. Dry fodder should not be fed to the cows during or just before milking, as dust therefrom will fall into the milk.

The Milk.

1. The milk should be removed as soon as drawn to the milk house and strained and cooled to the proper temperature at once.

2. A good plan is to strain the milk into cans which are standing in ice water which reaches the neck of the can.

The more rapidly the milk is cooled the safer it is, and the longer it will keep

Ice should be used in cooling as very few springs are cold enough for the purpose.

5. If aerators are used they should stand where the air is free from dust or odor, and on no account should they be used in a stable.

6. Milk strainers should be kept thoroughly clean and scalded a second time just before using, and if cloth strainers are used several of them should be provided in order that they may be frequently changed during the straining of the milk.

By order of the Board of Health.

THOMAS DARLINGTON, M. D., President. Eugene W. Scheffer, Secretary.

It has been estimated that there are somewhere between thirty and forty thousand dairy farms producing milk which is shipped to The City of New York. This, of course, is exclusive of those farms on which milk is produced to be made into butter, cheese or condensed for preservation in sealed cans. With the present force of Inspectors it will be impossible to visit these farms oftener than once in twelve or fifteen months. Of course, any proper supervision is better than none at all, but this rate of progress is ridicuously small. With a force of between eighty and one hundred Inspectors the Department could reinspect each creamery and dairy every sixty days, and it is to be hoped that these additional Inspectors will be provided in the near future. the near future.

CREAMERIES.

To BE POSTED IN ALL CREAMERIES.

Department of Health, The City of New York.

As a condition to the issuance of permits for the sale of milk in The City of New York all places where such milk is produced or handled must be open to inspection by employees of the Department of Health of The City of New York.

Rules and Regulations Which Must Be Observed by Those Operating Creameries and Stations Shipping Milk for Use In New York City.

The Buildings.

r. The floors of these buildings must be constructed of some material which will render them water-tight, and must be graded and drained toward one or more points from which water must be carried away by suitable drains. Floors of cement

or stone are the best for this purpose.

2. The floors must be drained by water-tight gutters, either into cesspools so situated as not to be offensive, or conducted to such a distance as not to cause a

nuisance.
3. The water used for cleaning pails, cans and other utensils must be from a public water supply, or, if drawn from a well or spring, must be approved by this Department.
4. The milk room must be used for no other purpose than the handling of milk, and must be clean and well ventilated.

Practices must at all times be free from a collection of water, rubbish or

Premises must at all times be free from a collection of water, rubbish or offensive material.

6. Cooling tanks for milk must be tightly constructed of non-absorbing material and frequently cleaned. The water must be changed so frequently as not

to become offensive.

7. Walls and ceilings must be kept clean.

8. Aerators and coolers must be protected from dust and dirt and from impure air.

The Employees.

No uerson suffering from a contagious disease or one in attendance upon such patient shall be employed in the handling of milk or milk utensils.
 All employees who handle milk and milk utensils must be cleanly in their habits. The garments worn by such employees must be kept in a clean condition.
 Spitting in or upon any part of the building must be absolutely prohibited.

The Milk.

1. Milk of a temperature above 60 degrees must not be received at the creamery or shipping station.
2. Milk must be handled as little as possible and all unnecessary exposure to

the air must be avoided. 3. Milk must be rapidly cooled to a temperature of 50 degrees or less and '

3. Misk must be rapidly cooled to a temperature of 50 degrees or less and so kept until shipped.

4. All pipes through which milk is allowed to flow must be so arranged as to be easily and thoroughly cleaned.

5. All milk utensils, including cans and bottles, must be kept clean and sterile.

6. Managers of creameries and receiving stations will be expected to refuse to receive milk from farmers who do not observe the rules of this department.

Recommendations.

I. In addition to the foregoing rules, the observance of which the Department of Health demands, the following recommendations in the construction of creameries and the handling of milk are presented:

A. Creameries should be well lighted. Ventilation should be ample, preferably the proof.

A. Creameries should be well lighted. Ventilation should be ample, preferably through the roof.

B. Milk should be handled in rooms supplied with natural light.
C. Creameries should be so arranged that the milk may flow by gravity from the point where it is received to its final point of handling. Pumps, which are always difficult to keep clean, should never be used.
D. Outside dust should be prevented from entering the room where milk is handled, and flies should be excluded.
E. The rooms should be plastered or ceiled to avoid places where dust may gather

gather. F. G.

F. Frequent painting or whitewashing is strongly urged.
G. The receiving tanks, mixing vats and tanks upon the bottling tables should be provided with covers.

In the time which elapsed between tours of inspection in 1905 and the tours of inspection in 1906 a number of the dilapidated and old creamery buildings were torn down and modern ones erected in their stead. In all instances the new creameries have been provided with asphalt or concrete floors. Improved methods of storing the milk at the proper temperature have been introduced, and the mixing vat receiving vat and other apparatus have been so enclosed as to properly

ing vat, receiving vat and other apparatus have been introduced, and the mily protect the milk from dust and dirt.

Incidentally very many of the old creamery buildings which were not replaced by new ones have been most thoroughly overhauled, new water-tight and waterproof floors provided, improved milk vats and milk storage tanks installed, and the buildings placed in as good condition as could be expected.

It may be assumed very justly that if the Department of Health had not been carrying on this active supervision of the milk supply, these new creameries would not have been constructed, and the milk intended for consumption in the City would still be handled in the antiquated way.

In almost every instance before the creameries mentioned were constructed the builders presented their plans and ideas to the department for discussion. The time undoubtedly will arrive, and probably within a comparatively few years, when all of the creameries will be repaired or reconstructed, and the handling of milk conducted according to the best and most modern methods.

The proper icing of the milk containers while in transit has also received the careful attention of the department, with the result that milk has arrived at the terminals at a much lower temperature and in much better condition than in any previous year. Of course in the latter part of the year, when the ice in stor-

any previous year. Of course in the latter part of the year, when the ice in storage became gradually used up, there were instances of not putting enough ice on the cans, but as a rule there was very little cause for criticism. Dairies inspected

Creameries inspected

One of the weakest links at present in the chain of supply is the custom, upon the arrival of the milk trains at the various terminals, that exists among the employees of the railroad companies to immediately open the cars and roll the cans and boxes containing milk out upon the platform, where frequently on hot nights ployees of the railroad companies to immediately open the cars and roll the cans and boxes containing milk out upon the platform, where frequently on hot nights during the summer they are exposed to a temperature of 75 degrees or 80 degrees for a number of hours. This is a matter which will require most careful consideration, and which it is hoped may be, to a very large extent, corrected before the coming summer. Unfortunately there is a commercial side to this question that appears to be very difficult of solution. The practice is for the milk dealers during the day to collect the empty cans from their customers and load them on trucks which are sent to the terminals, where the empty cans are placed upon the platforms, and the full cans of milk are loaded on the trucks and immediately taken to the city for distribution. The empty cans are then loaded into the trains as expeditiously as possible, and in the early morning hours these trains are started back over their routes to distribute the cans to the various creameries in order that they may be properly washed and filled for return to the city on the following night. In order to keep the cans in the cars until the trucks called for them it would probably involve the purchase of at least one additional set of cans on the part of the milk dealers, and the providing of at least half as many cars again as are now in service by the railroad companies. The expense involved in this is necessarily very large, and one in which the people interested are not over-anxious to enter without giving the matter very serious consideration.

A number of large dealers of milk in the City of New York have had, within the past year, built milk trucks of great capacity, constructed somewhat on the order of a furniture van, with tight sides and provided either with roofs or canvas covers, the object of this being to hold the temperature of the milk down to the lowest possible point in its transit from the railroad platforms to the stores of their customers. In addition, many of th

to assist in the cooling process.

Railroad.	Number of Creameries Inspected.	
Erie	114	5,586
Harlem	25	816
Ontario and Western	80	5,172
New York, Susquehanna and Western	30	2,200
West Shore	23	2,339
New York, New Haven and Hartford	24	1,652
Delaware, Lackawanna and Western	78	6,058
New York Central	73	6,307
Central Railroad of New Jersey	14	226
Hudson River Transportation Company	15	796
Lehigh Valley	67	2,797
Other sources		600
Total	543	34,576

In the City of New York there are approximately 14,107 dealers holding permits for the sale of milk, distributed as follows:

	Store Permits.	Wagon Permits.
Manhattan	5,832	1,305
Brooklyn	3,656	1,000
The Bronx	872	245
Queens	449	464
Richmond	172	112
Total	10,981	3,126

The larger portion of the stores offering milk for sale receive no financial return from the milk. The conditions surrounding the business of conducting a return from the milk. The conditions surrounding the business of conducting a grocery store, especially in the so-called "tenement house" distict, are such that a store which does not sell milk receives very little of the neighborhood custom for their groceries. The habit of the people in these districts in living what might be called a "hand-to-mouth" existence, and going to the grocery store a short time previous to each meal and buying such provisions as may be necessary for that meal, naturally draws the would-be customer to the place where he or she may buy most of the requisites for the meal. Therefore the grocery stores in these localities have acquired the custom of selling milk without profit, as what might be considered a "leader." It has been noticed that during the past two or three years the selling of milk in bottles is greatly increasing, indicating that the consumers realize the necessity of a pure milk supply, and prefer to buy their milk in a manner which precludes, as much as possible, the danger of contamination either by germ life or dishonest vendors.

When an application for a permit for the sale of milk is made a copy of the following rules and regulations are handed to the applicant, and he is instructed that unless the conditions under which he proposes to sell milk comply with these rules and regulations his permit will be denied.

Rules and Regulations for the Care and Storage of Milk.

Milk must not be kept for sale or stored in any room used for sleeping or domestic purposes, or opening into same.

2. Milk must not be transferred from cans to bottles or other vessels on

streets or on ferries or at depots, except when transferred to vessel of purchaser at time of delivery.

Milk must not be sold in bottles except under the following rules:

RECORD.

Bottles must be washed clean with a hot water solution of soap or soda, or

some other alkali, and then with hot water before filling with milk.

Bottles must not be filled, except at the dairy or creamery, and in the city only in rooms so situated as to prevent the contamination of the milk by dust or other

Bottles must not be washed or filled in any rooms used for sleeping or do-

mestic purposes, or opening into same.

4. The vessels in which milk is kept for sale must be protected by means of a suitable covered receptacle and so placed in the store to prevent dust from the street or other impurities falling into it.

Store permits must be posted in stores so that they can be easily seen at all times.

Wagon permits must be carried on the wagon at all times when engaged in

the sale, transportation or delivery of milk.

7. The number of wagons and the number of permit, the latter to be preceded by the words "Department of Health Permit," must be painted on both sides of the wagon in letters two (2) inches in length and one-half (½) inch in width, and in some contrasting color to that of the wagon.

8. After the day's sales are over, the cans, bottles measures, and other utensils used in the sale of milk must be thoroughly cleaned with lukewarm water to which

used in the sale of milk must be thoroughly cleaned with lukewarm water, to which a small amount of soda has been added in proportion of one teaspoonful of washing soda to a gallon of water.

g. The overflow pipe from the ice box in which the milk is kept must not be connected directly with the drain pipe or sewer, but must discharge into an open water supplied, properly trapped, sewer connected sink. (See section 38 of the Sanitary Code.)

10. The ice box in which milk is kept must be cleaned by scrubbing out with a hot soda solution, as in Rule 3, at least twice a week.

11. In selling milk, the contents of the can should be thoroughly mixed before measuring out the amount desired. This will prevent unintentional skimming, and the last quart of milk sold from the can will contain as much cream as the first quart sold.

sold.

12. It sometimes happens that in cold weather the milk may be delivered to the dealer more or less frozen. If such is the case, the ice from the sides of the can should be detached and the contents gently heated until the ice is all melted. If there is much ice in the can it is absolutely necessary to do this before the milk is sold, otherwise the liquid part dipped out and sold at first will contain more of the solid parts of the milk and cream, while the ice remaining and consisting principally of water will, after a time, melt and will result in the milk containing more water than pure milk should have, and may appear as if it had been adulterated with water.

13. Do not place ice in milk if it is desired to cool it or keep it cold, as the ice will melt, and the milk then appears to have been adulterated with water.

On the day following the receipt of the application an inspection is made of the

on the day following the receipt of the application, an inspection is made of the premises by an Inspector, who examines them carefully. If he finds that the conditions are proper for the care and handling of milk, he notifies the dealer that a recommendation will be made to the Board of Health to grant him a permit for the sale of milk, and a small card is left with him, stating that the proprietor of the store has applied for a permit, which, if granted by the Board of Health, will be delivered on a certain date. This is intended as an indication to the Milk Inspector of the district, or to any other person authorized to ask the question that the proprietor has complied with the law forbidding the sale of milk without a permit, so far as lies in his power. If, on the other hand, the conditions are such that a permit cannot be recommended, the Inspector informs the applicant wherein his premises do not conform to the regulations, and a reasonable length of time is given him in which to oversome these objections. The Inspector, in the course of a few days, makes a reinspection, and if the premises are found then to be sanitary, he does as first indicated. If, on the other hand, they are still unsanitary the Inspector submits his report, stating the facts, and recommending that the application for a permit for the sale of milk be denied. After a permit has been denied by the Board of Health, a written notice to that effect is served upon the proprietor of the store, and if he is subsequently detected in the sale of milk without a permit, the case is presented to the Criminal Courts, which usually results in the imposition of a substantial fine.

The inspection of milk within the City is carried on according to an old and well the courts of the courts of the store, and if he is subsequently detected in the sale of milk without a permit, the case is presented to the Criminal Courts, which usually results in the imposition of a substantial fine.

The inspection of milk within the City is carried on according to an old and well established system. The various boroughs are divided into districts so that each Inestablished system. The various boroughs are divided into districts so that each Inspector will have approximately the same number of places where milk is sold under his charge. He is expected to have a full knowledge of the character of the stores and of the wholesale dealers supplying milk within his district, and to use his judgment within certain limits in making his inspection, the object being for him, so far as lies in his power, to be assured that the milk offered for sale within his district is pure, and is kept under proper conditions. He is expected to do his work at such times during the day or night as will best accomplish this result. The Inspectors are required to wear the hadge which is furnished by the Department of Health where times during the day or night as will best accomplish this result. The Inspectors are required to wear the badge which is furnished by the Department of Health where it may be readily seen. Upon entering a store they introduce themselves as Inspectors from the Department of Health, and ask if milk is offered for sale. If answered in the affirmative they then inform the proprietor that they desire to inspect his milk, and proceed along the following lines.

They examine the permit and ascertain whether it was issued in the name of the

They examine the permit and ascertain whether it was issued in the name of the present proprietor of the store, or no. They then go to the milk container, first asking the storekeeper if this is the milk which he is offering for sale. They then stir the milk very thoroughly, and dip out a sufficient quantity to make the necessary examination with lactometer and thermometer. If there are other cans containing milk to be sold in the store, they then examine these in the same manner. If, in their judgment, the milk is adulterated, they empty the contents of the testing cylinder back into the sold in the store, they then examine these in the same manner. If, in their judgment, the milk is adulterated, they empty the contents of the testing cylinder back into the can, and again stir the milk. This is done to insure the obtaining of a uniform sample, and to prevent injustice to the dealer. The cylinder is filled the second time, the lactometer and thermometer reading are checked with the previous one, and then the actual taking of the samples commences. For this purpose the Inspectors are provided with bottles of two kinds, one a four ounce bottle with perforations in the neck, and one a four ounce bottle with a plain neck. Milk is poured from the cylinder into each of these bottles until they are filled. They are then corked, and through the cork of the bottle with the perforated neck a wire is passed, which is then wound about the neck of the bottle, and the ends passed through a lead seal. This seal is pressed by means of a punch, on one die of which appear the words "Department of Health, City of New York," and on the other a letter by which the Inspector is designated.

designated.

Each Inspector has supplied to him a number of tags, used for the labeling of the bottles; a tag is sealed onto the bottle with the wire, and contains the number of the sample, and the Inspector's designating letter, the name and address of the place from which the sample was taken, the name of the Inspector taking the same, and his reasons for taking the same.

On the other bottle is secured a stub, removed from the original, on which is a place for the number of the sample, and the Inspector's designating letter.

DEPT. OF HEALTH.	. CITY OF NEW YORK.	: :	:	^
Div. of Inspections.	Sixth Ave. and 55th Street.	1 1	:	(P
Date	Borough of	: :	•	0,000
Sample No	Inspection No	: :		1-761
Inspector			No	06-21
Name		No.	ion	19
Address		ample	pect	S.F.
Reason for Sampling		Sar	Ins	. 9

This system has been adopted in order to prevent any possible chance of mixing or substituting samples. The sealed sample is delivered to the proprietor or person in charge of the store, and the other sample is delivered to the Assistant Chemist at the Laboratory of the Department of Health, who is to make the analysis.

In all cases where samples are taken for analysis, in addition to the report which the Inspector makes, he submits a report on a filing card, giving all of the essential

facts of the inspection.

On the obverse of the card are blanks provided for the Chemist, on which he may report the result of the analysis. These cards, upon the completion of the analysis, are filed under the name of the dealers, so that at any time a complete history of the samples taken from any particular dealer in the City may be obtained. After the receipt of the result of the analysis of the sample from the Chemist, the cards are submitted to the Chief Sanitary Inspector, who endorses on those found to be below the legal standard the word "Arrest." These tickets are then delivered to the Inspector, who, accompanied by a Patrolman of the Health Squad, goes to the Police Magistrate's Court in whose district the offense was committed, and obtains a warrant for the arrest of the dealer. The warrant is delivered by the Magistrate to this Patrolman, who makes the arrest, and produces the defendant in Court. The usual practice is for these defendants to be immediately held for trial in the Court of Special Sessions. The Inspector places on the ticket the result of this arraignment, and the tickets are then returned to the office, and held until such time as the case may be called for trial. For convenience in the various divisions of the Court of Special Sessions, a certain day of each week is set aside for Department of Health cases. A calendar is prepared, and this calendar, together with all of the milk tickets which bear upon the cases in question, and any other items of evidence which it is necessary to produce in Court are taken there by an Inspector especially detailed for this purpose. After the trial, the result of same is then placed upon the ticket, and the ticket returned to the office of the Chief Sanitary Inspector for filing.

If an Inspector, on his rounds, discovers milk which is not of the

If an Inspector, on his rounds, discovers milk which is manifestly adulterated by the addition of water or by the removal of cream, or milk which is not of the temperature (50 degrees) required by the Sanitary Code, this milk is immediately destroyed, and a special report of the fact is made to the office of the Chief Sanitary

During the summer months the Inspectors frequently are combined into corps, and make thorough examinations of the milk at the ferries and receiving points for the purpose of destroying all milk which is not of the proper temperature. At other times during the year, especially on Sundays and holidays, similar examinations by corps of Inspectors are made of districts in which it is suspected that quantities of adulterated milk are being sold, with the usual result that many samples of adulterated milk are collected, and an exceptionally large number of convictions are obtained. milk are collected, and an exceptionally large number of convictions are obtained in the Court of Special Sessions.

The Inspectors making inspections throughout the country districts frequently discover evidences of adulteration of milk, either at the point of production or at the creamery. They are all supplied with a cypher code, by means of which they can telegraph adequate information promptly to the main office.

During 1906, in numerous instances this was done, with the result that a corps of City Inspectors were detailed to examine the suspected milk. This resulted in the obtaining of an exceptionally large number of samples of adulterated milk in a short space of time and has prevented, to a great degree, the wholesale adulteration of milk

teration of milk.	
Total number of inspections and reinspections	130,871
Total number of specimens examined	138,505
Total number of samples	9,540
Number of quarts of milk destroyed	41,395
Number of arrests	678
Number held on bail	666
Number discharged	II
Number of trials	644

DIVISION OF CONTAGIOUS DISEASES.

BOROUGH OF MANHATTAN.

The Division of Contagious Diseases was organized in September, 1887, and its functions in the Borough of Manhattan are:

1. The diagnosis of suspected contagious diseases and of all cases of contagious

disease removed to the Department and Minturn hospitals.
2. The examination of contagious disease patients at Riverside Hospital and at the Scarlet Fever Hospital in this borough, reported ready for discharge, to ascertain that such patients are fully recovered and in a non-contagious condition.

3. The maintenance of isolation of patients ill with contagious diseases at their.

homes.

4. The removal to a Department of Health hospital of patients who develop contagious disease in a general hospital, in an institution, home or asylum, and those who cannot be or refuse to remain properly isolated at their homes, until the disease The fumigation of infected rooms and the disinfection of infected materials.

The removal to the Department Morgue, for burial by the City authorities of bodies of persons who have died of contagious diseases and cannot be buried

The removal of infected goods to Department Station to be destroyed or

- by the relatives or friends.

 8. The free vaccination, at proper intervals, of all teachers and children in the
- The free vaccination of all who apply at the Central Office for vaccination.
 The free vaccination of all employees of the Department of Health and all other City Departments, upon request, or when considered necessary to prevent the

spread of small-pox.

11. The free vaccination of all persons exposed to, living in the house with, or in the immediate neighborhood of a person found to have small-pox.

12. The free vaccination of City lodging house inmates and inmates of the City

prisons.

13. The free vaccination of all who are not "protected" at their homes, in large department stores or other places employing a large number of persons.

14. The medical inspection of school children, excluding those found to have contagious diseases, and mailing postals to parents of those children found to have

physical defects.

15. "Summer Corps" work, consisting of visits to tenement houses, treatment of sick children under two years of age and instructions to mothers in the care of

infants. The treatment of school children having trachoma in the Department Trach-

oma Hospital and dispensaries.

17. The diagnosis of suspected glanders in horses and the destruction of all cases and the disinfection of stables where cases occur.

18. The diagnosis of suspected rabies in dogs and the destruction of all cases.

19. The disinfection of books exposed to infection and belonging to public

libraries, public schools, etc.

20. Mailing to public and parochial schools, hospitals, institutions, etc., a daily printed list, giving name, age, address and disease of every case of contagious disease reported during the previous twenty-four hours, and also the same facts in relation to rooms fumigated during the previous twenty-four hours.

The staff of the Division of Contagious Diseases consists of:

Chief Medical Inspector.
Assistant Chief Medical Inspector.
Medical Inspector (ophthalmologist).
Medical Inspectors (diagnosticians).

- Medical Inspector in charge of institutions and day nurseries.
- District Medical Inspectors. Medical Inspectors (oculists). Medical Inspectors of Schools.
- Inspectors (vaccinators). Medical Inspectors (summer corps). Supervising Nurse.
- II. Trained Nurses for district work, school work, Trachoma Hospital, Trachoma dispensaries.

- Veterinarians.
- Disinfectors. Ambulance Drivers. Drivers and Helpers on "goods wagons."

Clerks.

17. 18. Stenographers and Typewriters, Telephone Operators.

19. 20. Office Boys.

Section 133 of the Sanitary Code, as adopted 1903, is as follows:

"It shall be the duty of every physician to report to the Department of Health, writing, the full name, age and address of every person suffering from any one the infectious diseases included in the list appended, with the name of disease,

within twenty-four hours of the time when the case is first seen:

A. Contagious (very readily communicable)—Measles, rubella (rotheln), scarlet fever, small-pox, varicella (chicken pox), typhus fever, relapsing fever.

B. Communicable—Diphtheria (croup), typhoid fever, Asiatic cholera, tuberculosis (of any organ), plague, tetanus, anthrax, glanders, epidemic cerebro-spinal meningitis, leprosy, infectious diseases of the eye (trachoma, suppurative conjunctivitis), puerperal septicaemia, erysipelas, whooping cough.

C. Indirectly Communicable (through intermediary host)—Yellow fever, malarial fever.

The following contagious diseases are referred to this Division: Diphtheria (croup), scarlet fever, measles (rubeola), German measles (rotheln), small-pox, varicella, typhus fever, relapsing fever, Asiatic cholera, plague, yellow fever, tetanus, anthrax, glanders, infectious diseases of the eye (trachoma, suppurative conjunctivitis), whooping cough.

These diseases may be reported by the attending physician in one of the following

(a) By the official postal cards of the Department, which are furnished gratuitously on request.

5 J-1906 21a-160, '06, 20,000 (P)

REPORT OF CONTAGIOUS DISEASE

PHYSICIANS WILL greatly facilitate the work of this department by filling in one of these cards by the bedside of the patient and dropping it at once in the nearest P. O. Box.

New York,	190
Name of Patient	Age
Residence	
Disease Duration of	Sickness
How Contracted No. of Families	
Location of School attended by Children in Family	
In case of Diphtheria do you wish a Bacterial Culture made?	Answer Yes or No.

Residence	

NOTE—Whenever the immediate attention of this Department is required, either for the removal a patient to the Contagious Disease Hospital, or for the injection of antitoxin, please telephone a the nearest Police Station House or Public Telephone Station, directly to this office, which is TELEPHONE, 4900 COLUMBUS.

In case of Diphtheria, do you wish other members of family immunized by the Department of Health? Answer Yes or No.

(b) By telephone, when the administration of diphtheria antitoxin by the Department is requested, or the removal of a contagious disease patient to the Department Hospital is desired. Such report must be followed by one on an official postal.

11 J-1906 212-163, '06, 7,500 REPORT OF CONTAGIOUS DISEASE

BY TELEPHONE

New York,190 Disease, Duration, Inject, Immunize, Culture? Reported by Address,

Received by

(c) In diphtheria, when a culture taken by the attending physician and forwarded to the Department of Health shows upon examination diphtheria bacilli, the slip accompanying the culture will be accepted as a report of the case.

Cases of contagious disease are brought to the attention of the Department in various ways besides the reports of attending physicians, viz.:

(a) "Walked in" cases. (Patients that go direct to the hospital without being first seen by a diagnostician.) These cases are reported by the hospital.

(b) Those excluded from schools by the Medical School Inspectors, who telephone to Central Office the full name, age and address and the disease of each child excluded, and note same on their daily reports, which are mailed to Central Office.

(c) Cases of contagious disease found by Medical School Inspectors on "absentee" visits. Children absent from school three days without known excuse are referred to the Medical School Inspectors and visited by them. If they find a school child or some member of the family ill with a contagious disease and not previously reported.

they send a telephonic and written report to Central Office, giving full name, age and address, disease, duration of illness, and, if there is an attending physician, his name and address.

(d) Complaints of citizens which may be mailed to Central Office or made personally to District Medical Inspectors.

(e) Secondary cases reported by District Medical Inspectors in families where there is no attending physician, or where the attending physician has failed to report

(f) Where first report is the death certificate.

Each morning (except Sundays and holidays) at nine o'clock, all cases of contagious disease reported during the previous twenty-four hours are referred to the District Medical Inspectors (by telephone or personally at Central Office), who visit these cases that day.

Duties of District Medical Inspectors.

The Borough of Manhattan is divided into districts and a Medical Inspector as-ted to each. When a case of contagious disease is referred to him, he must visit it signed to each.

signed to each. When a case of contagious disease is referred to him, he must visit it that day, and keep it under surveillance until terminated, and the infected rooms fumigated.

Diphtheria—The District Medical Inspector is required to see each case of diphtheria the day it is referred to him, and upon his first visit he is required to take a culture from the patient's throat (or nose) unless this has already been done by the attending physician or Antitoxin Inspector (or the patient found intubated), or unless the attending physician has requested that no culture be taken by the Medical Inspector.

2294, '05, 75,000(P)

at L-1905

DEPARTMENT OF HEALTH

BOROUGH OF MANHATTAN Division of Bacteriology

DIRECTIONS FOR MAKING CULTURES

The patient should be placed in a good light, and, if a child, properly held. In cases where it is possible to get a good view of the throat, depress the tongue and rub the cotton swab gently, but freely, against any visible exudate, revolving the wire between the fingers, so as to bring all portions of the swab in contact with the mucous membrane or exudate. In other cases, including those in which the exudate is confined to the larynx, pass the swab back as far as possible, avoiding the tongue, and rub it freely as described above against the mucous membrane of the pharynx and tonsils. Withdraw the cotton plug from the culture tube, holding it so that the portion withdrawn from the tube does not come in contact with the fingers or with any other substance. Insert the swab and rub it gently but thooguelly back and forth over the entire surface of the blood serum. At least half a minute should be given to this operation, the wire being revolved so as to bring all portions of the swab in contact with the surface of the blood serum. Do not allow the swab to touch anything except the throat of the patient and the surface of the serum. Do not push the swab into the serum, nor break the surface in any way. Do not use tubes in which the serum is contaminated, is liquefied, or is dried up. Then replace the swab in its own tube, plug both tubes, mark the culture tube with name of patient for identification with accompanying blank, which should be fully filled out, and return both tubes and blank promptly to a culture station. Unsatisfactory cultures, exhibiting insufficient growth or contamination by foreign bacteria, usually result from failure to follow carefully the above directions. A report will be forwarded the following day by mail, before I P. M., or will be telephoned by IO A. M., where the attending physician's telephone call can be ascertained. Communications should be addressed to J. S. BILLINGS, JR., M. D., Assistant Director, Diagnosis Laboratory, Sixth Avenue and 55th Street, New York City.

RETURN SWAB AND BOTH TUBES.

AT SEE DIRECTIONS FOR MAKING CULTURES ON OTHER SIDE.

DIPHTHERIA.-Culture for Diagnosis.

	The state of the s		~
Name of Maker of Culture Date Name of Patient Address	Time	Age	ETURN
Att. Phys.	Telephone Result to		S
Duration of Disease How Contracted?	Location of Membran		WAB
Was Specimen satisfactorily obtained Was an Antiseptic applied to the thro Clinical Diagnosis			AND
Has Antitoxin been used? Have others in family been immunized If Culture negative do you still wish theria?	? case to be considered	l as one of diph-	вотн
Remarks This Blank to be filled out to	this Point by Attendi	ng Physician.	IUI.
Examined and Reported			Ś

The primary culture slip, properly filled out and accompanied by the culture tube and swab, must be left at a culture station before 3 p. m., in order that it may be collected that day, and a report sent from the laboratory the following morning to the attending physician, District Medical Inspector and Division of Contagious Diseases office. If the patient is intubated, the District Medical Inspector must notify Central Office in writing.

He must see that the patient is isolated asserting whether a rest the second of the collection of the collection of the culture tube.

He must see that the patient is isolated, ascertain whether or not there are school teachers or children in the family, and if so, mail an official postal to the school or schools attended by them, excluding them from school attendance.

12K-1905

AND BOTH TUBES.

RETURN SWAB

DEPARTMENT OF HEALTH.

BOROUGH OF MANHATTAN.

DIVISION OF CONTAGIOUS DISEASES.

New York,.....190

The following named children, pupils of your school, are exposed to the

Sec. 145. No principal or superintendent of any school, and no parent, master or custodian of any child or minor (having the power and authority to prevent) shall permit any child or minor having scarlet fever, diphtheria (croup), small-pox or any dangerous, infectious or contagious disease, or any child in any family in which any such disease exists or has recently existed, to attend any public or private school until the Board of Health shall have given its permission therefor nor in any manner to be unnecessarily exposed, or to needlessly expose any other person to the taking or to the infection of any contagious disease.

Respectfully.

Respectfully,

Reported by

Chief Medical Inspector.

2294, '05, 35,000 (P)

Medical Inspector.

He must leave a "circular of information regarding diphtheria" with the nurse or

142 J-1906

759, '06, 12,000 (P)

DEPARTMENT OF HEALTH

OF THE

CITY OF NEW YORK,

Sixth Avenue and Fifty-fifth Street.

CIRCULAR OF INFORMATION REGARDING DIPHTHERIA.

Diphtheria is an acute, infectious and very readily communicable disease, caused by the presence of the diphtheria or "Klebs-Loeffler" bacillus. The disease varies in severity from the mild catarrhal type, where there is only slight inflammation of the tonsils, pharynx, larynx or nose, with no accompanying constitutional symptoms, to the most severe type, where extensive membrane is present in the throat or nose and the patient is completely prostrated

The disease is communicable as long as the diphtheria bacilli are present and is generally transmitted directly by the discharges from the nose and throat of the sick person, and also by means of clothing, books, toys and other articles which have been in close contact with the sick person.

Your attention is respectfully called to the contents of this circular, with reference to the duties of the Inspectors of the Department of Health

Your attention is respectfully called to the contents of this circular, with reference to the duties of the Inspectors of the Department of Health and the obligations of parents and nurses in every case of diphtheria.

I. Within 24 hours after a case of diphtheria is reported an Inspector from the Department of Health will visit the premises (when the notification is received by the Department on Saturday afternoon or Sunday the case will be visited the following Monday) and will see that the case is properly isolated. He will not examine the patient. If the case is to be sent to the hospital a diagnostician from the Department must examine the case.

2. In apartment and tenement houses and also in furnished-room and boarding-houses the Inspector will placard the door of the apartment containing the patient. This placard must not be removed except by an employee of the Department. Unauthorized removal of the placard is a direct violation of the Sanitary Code and may be followed by the arrest of the offender and removal of the patient to the Department Hospital.

3. The Inspector will exclude from school attendance all teachers and children living in the quarantined apartment and notify all other families in the house of the existence of the case, and will take such other precautions as may be necessary to prevent the spread of the disease. He will visit the case thereafter as often as necessary to maintain isolation, or until a culture from the throat is free from diphtheria bacilli. Isolation must be maintained until a culture has shown that the diphtheria bacilli have been found) will a case he discharged in less them to down from the hopping of the present, but under no circumstances (when diphtheria bacilli have been found) will a case be discharged in less than ten days from the beginning of the illness, even if succeeding cultures should prove to be free from diphtheria bacilli before the expiration of the ten days. Then the Inspector will give permission for the patient, after a proper bath, to leave the sick room and will order proper and necessary disinfection of the infected room and its contents. Failure to maintain isolation may be followed by the removal of the patient to the hospital.

4. A special corps of Inspectors is provided by the Department for the

4. A special corps of Inspectors is provided by the Department for the administration of antitoxin to the sick person and to others in the family (for the purpose of immunization), provided that such administration is requested by the attending physician. This request should always be made by

telephone or messenger to the Department.

5. During the illness no work of any kind, such as tailoring, laundering, manufacturing of cigars or other merchandise will be permitted in the rooms or apartments occupied by the family. Cases occurring in rooms connected with stores will either be removed to the hospital or the store will be closed

and kept under police surveillance until disinfection has been performed.

6. In case of death, burial within twenty-four hours is required. No persons except those belonging to the immediate family will be allowed at the

funeral services.

7. In many instances landlords apply to the Department for an order for the removal to the hospital of a tenant ill with a contagious disease. This action is desired either because the tenant does not pay his rent or for the protection of the landlord. In other instances tenants ill with contagious diseases refuse to pay rent, relying upon the Department of Health to keep them in their apartments. The Department wishes it distinctly understood that it will not interfere in the differences between landlord and tenant until they have been settled in Court. If a dispossess warrant is granted by the Court the Department will provide for the removal of the patient to the hospital.

8. After the disinfection has been performed the Inspector will again visit the premises, and if conditions are satisfactory, will issue permits for the

children to return to school.

g. Disinfection—When careful isolation has been maintained during the illness, disinfection will be limited to the sick room. Much labor and annoyance will be saved where the infection of other rooms has been avoided by careful isolation. After disinfection of the room, rugs, carpets, pillows, mattresses and unwashable bed and other clothing will be removed for steam disinfection. The goods so removed will be returned the following day. Upon request bedding and other goods indicated for destruction will be removed and destroyed and must never be sent from the house or thrown into the street by the owner. by the owner.

DUTIES OF PARENTS AND NURSES.

Complete isolation of every case of diphtheria as ordered by the Medical Inspector of the Department of Health must be maintained until the disease is at an end and disinfection has been performed.

2. Children in the family must not be allowed to attend school until they have received a certificate from the Department of Health.

The room used for the case should be as nearly bare of furniture as 3. The room used for the case should be as nearly bare of furniture as possible. Carpets and hangings should be removed before the patient is placed in the room. Toys or books used by the sick person should be thoroughly disinfected or destroyed after recovery or death. The sick room should be well aired several times daily, the floor mopped and woodwork frequently wiped with damp cloths. Under no circumstances must the floor be swept when it is dry. It should be sprinkled with sawdust, bits of newspaper or tea leaves, all thoroughly moistened, and then carefully swept so that no dust

4. When practicable, one attendant should take entire care of the patient and no one else besides the physician should be allowed in the room. The attendant should have no communication with the rest of the family. Visitors must not be admitted to the apartment as long as the placard remains on the

5. Plates, cups, glasses, knives, forks, spoons, etc., used by the patient should be kept for his especial use and under no circumstances removed from the room or mixed with similar utensils used by others. They should be washed in the room in hot soap-suds and then rinsed in boiling water. After use, the soap-suds should be thrown into the water closet.

6. All cloths, bed linens and personal clothing which have come in contact in any way with the sick person should be immediately immersed in a 2 per cent. carbolic solution before removal from the room. They should be soaked for one hour and may then be removed from the room and boiled in water or soap-suds for five minutes.

7. Surfaces of any kind soiled with the discharges should be immediately washed with the carbolic solution.

8. After making applications to the throat or nose of the patient and before eating, the hands of the attendant should be disinfected by thorough scrubbing in hot soap-suds and then in the carbolic solution.

9. After the Inspector of the Department of Health has ordered disinfection, the entire body of the patient should be bathed and the hair washed with hot soap-suds. The patient should then be dressed in clean clothes (which have not been in the sick room during the illness) and removed from the room. The attendant should also take a bath and put on clean clothes before mingling with the family or other people. The clothes worn in the sick room should be left there to be disinfected with the room and its contents. Under no circumstances should the sick room be again entered or occupied or anything removed from it until disinfection has been performed.

THOMAS DARLINGTON, M. D.,

Commissioner of Health.

HERMANN M. BIGGS, M. D., General Medical Officer.

If the family resides in a tenement (apartment) house, or in a furnished-room or If the family resides in a tenement (apartment) house, or in a turnished-room or boarding-house, he must place a diphtheria placard (paster) on the door leading from the hall to the apartment or room (if this has not already been done by the Antitoxin Inspector, Diagnostician or Officer of the Health Squad), and this placard must not be removed, except by an employee of the Department. The unauthorized removal of the placard is a violation of section 137 of the Sanitary Code, and may be followed by the arrest of the offender and removal of the patient to the hospital. 47 J-1904

2200, '04, 20,000(P)

DEPARTMENT OF HEALTH, THE CITY OF NEW YORK.

DIPHTHERIA.

All persons, not occupants of this apartment, are advised of the presence of Diph-

theria in it, and are warned not to enter.

The person having Diphtheria must not leave the apartment until the removal of this notice by the Department of Health.

By order of the Board of Health,

Alle Personen, welche nicht in diesen Räumen wohnen, werden hierdurch benachrichtigt, das Diphtherie hier ausgebrochen ist, und werden gewarnt, diese Wohnung zu betreten.

Die mit Diphtherie kranken Personen dürfen die Wohnung nicht eher verlassen, bis dieses Plakat von der Gesundheitsbehörde wieder entfernt ist.

Im Auftrage des Rathes.

Tutte le persone che non sono occupanti di quest' appartimento sono avisatti della presenza del Diffetterita è sono avisatti di non entrarci.

La persona avendo il Diffetterita non deve lasciare l'appartimento finchè quest' aviso è portato via dal Dipartimento di Salute.

Per ordine del' Autorità di Salute.

THOMAS DARLINGTON, M. D., President.

EUGENE W. SCHEFFER, Secretary.

Date

The District Medical Inspector must notify all other tenants or occupants of the house (personally, or by a card provided for the purpose) that there is a case of diphtheria in the house.

92 J-1904

DEPARTMENT OF HEALTH.

BOROUGH OF MANHATTAN.

Sixth Avenue and Fifty-fifth Street.

DIVISION OF CONTAGIOUS DISEASES,

New York,.....190 To the Occupant of this Apartment: You are hereby notified that there is..... the family of.
the.....floor of these premises No.....
By order of the Board of Health.

THOMAS DARLINGTON, M. D., President.

Medical Inspector.

212-227, '06, 63,000 (P)

20-235, '04, 50,000 (P)

A. BLAUVELT, M. D.,

Chief Medical Inspector.

If there is a janitor or manager for the tenement or apartment house, he is notified that if there is an elevator, members of the family are not permitted to use it to go down from their apartment, but may use it when coming up from the street. In hotels, the manager must be informed of the rules of the Department relating

to the isolation of the patient.

The Medical Inspector will visit patient as often as necessary (at least once a week) to maintain isolation, until a culture shows no diphtheria bacilli.

* Should isolation not be maintained, the Inspector notifies the Central Office by 'phone and in writing, and the family or attendants are warned by a Policeman of the Health Squad to comply with the rules of the Department. Continued failure to isolate patient may be followed by removal to hospital. Secondary cultures must be taken at least once a week, and oftener at the later periods of the illness. If the Attending Physician takes the first culture, it is assumed that he wishes to take the secondary cultures, and they will not be taken by the District Medical Inspector unless the Attending Physician requests it, or has discontinued his visits to the patient.

26 L-1906

DEPARTMENT OF HEALTH

DIAGNOSIS LABORATORY Division of Communicable Diseases

Sixth Avenue and Fifty-fifth Street DIRECTIONS FOR MAKING CULTURES

The patient should be placed in a good light, and, if a child, properly held. In cases where it is possible to get a good view of the throat, depress the tongue and rub the cotton swab gently, but freely, against any visible exudate, revolving the wire between the fingers, so as to bring all portions of the swab in contact with the mucous membrane or exudate. In other cases, including those in which the exudate is confined to the larynx, pass the swab back as far as possible, avoiding the tongue, and rub it freely as described above against the mucous membrane of the pharynx and tonsils. Withdraw the cotton plug from the culture tube, holding it so that the portion withdrawn from the tube does not come in contact with the fingers, or any other substance. Insert the swab and rub it gently but thoroughly back and forth over the entire surface of the blood serum. At least half a minute should be given to this operation, the wire being revolved so as to bring all portions of the swab in contact with the surface of the blood serum. Do not allow the swab to touch anything except the throat of the patient and the surface of the serum. Do not push the swab into the serum, nor break the surface in any way. Do not use tubes in which the serum is contaminated, liquefied or dried up. Then replace the swab in its own tube, plug both tubes, mark the culture tube with name of patient for identification with accompanying blank, which should be fully filled out, put the tubes and blank in the box, and return promptly to a culture station. Unsatisfactory cultures, exhibiting insufficient growth or contamination by foreign bacteria, usually result from failure to follow carefully the above directions. Report of later cultures will be mailed the following day by I P. M., or can be obtained by telephone after II A. M.

For further information address Dr. J. S. Billings, Jr., Division of Communicable Diseases, Department of Health, New York City.

Diseases, Department of Health, New York City.

RETURN SWAB AND BOTH TUBES.

SEE DIRECTIONS FOR MAKING CULTURES ON OTHER SIDE.

DIPHTHERIA.-Later Culture.

Number of Culture, 2d, 3d, 4th, 5th, 6th, 7th, 8th.

TUBES

BOTH

AND

SWAB

RETURN

Inspector or Physician

Name of Patient

Address

Att. Phys. Address

dress ration of Disease
This Blank to be filled out to this Point by Attending Physician. Duration of Disease

Result of Examination.....

Should a patient be found in rooms at rear of, or connecting with, a store, it will be necessary either to have store closed at once, and to remain closed until the case is terminated and the rooms fumigated, or to have the patient removed to the hospital. If the family elect to have the store closed, it is placed under police surveillance (precinct and Health Department) until the rooms have been fumigated. If found open at any time, patient may be removed (by force, if necessary) to the hospital. If, during the illness, it is found that tailoring, laundering, or the manufacturing of any merchandise is being carried on in any of the rooms occupied by the family, the District Medical Inspector must notify Central Office by 'phone and in writing, and a Health Squad Policeman is sent to stop all work and warn the family not to resume the same until after fumigation, under penalty of having patient removed to hospital.

to hospital.

When the Inspector receives a report from the Laboratory of the Department of Health that a secondary culture is free from bacilli, he orders disinfection of the infected rooms with contents, and the removal (after fumigation in rooms) of infected mattresses, carpets, rugs, pillows, etc., to the Department station for sterilization. These goods are removed the day after rooms are fumigated, and returned the day

following their removal.

After fumigation District Medical Inspector issues school certificates (if required), and mails to Central Office a diphtheria history card, properly filled out and signed.

DIPHTHERIA

Name A	ge	Address	Floor
			Cultures Taken
			Culture Negative
Dates of Inspection			
Onset of Disease	Dr		Address
Called on Day of I	Disease .	Antitoxin	used on Day of Disease
Given by Private Physician In:	spector.	Subsequent	injections
Amount Given I 2	3. (Other Case	s in Family
1 2	3 4	5 6	
Complaints Received			F. and D. Ordered
Complaints Returned			F. and D. Performed
promise de la company de la co			ol Certificates Issued
			Medical Inspector.

130 J-1905 18a-238, 20,000 (P)

When a patient is reported ill with diphtheria, and a prompt primary culture shows no diphtheria bacilli, a letter is sent by the Chief Medical Inspector to the Attending Physician, and he is requested to note on an enclosed postal whether or not he wishes the case dropped or held as one of diphtheria. If an answer from the Attending Physician is not received when three days have elapsed, the case is dropped as "no case." If the Attending Physician wishes the case dropped, the District Medical Inspector is notified to remove diphtheria placard, inform the family and tenants that it was not a case of true diphtheria, and issue school certificates if required. He then forwards to Central Office a diphtheria history card, properly filled out and signed. out and signed.

1491, '05, 3,000 (P)

DEPARTMENT OF HEALTH

THE CITY OF NEW YORK BOROUGH OF MANHATTAN

SIXTH AVENUE AND FIFTY-FIFTH STREET

OFFICE OF THE CHIEF MEDICAL INSPECTOR,

Divisi	ION OF	CONTAGI	ous Dis	EASES						
					New	York, .	 		190	
ear Sir:										
On							 	you	repor	tec
							 		ill w	rith
iphtheria.										

The bacteriological examination of culture from this case did not show the presence of Klebs-Loeffler bacilli. Do you wish the case dropped as "no case" and fumigation omitted? Kindly answer on enclosed postal.

Yours respectfully,

...... Chief Medical Inspector.

If answer is not received within four days, case will be dropped.

RETURN

SWAB

AND

Age

1491 '05, 3,000 (P) New York,, 190....

DEPARTMENT OF HEALTH,

I hereby direct that held

omitted and fumigation of premises

performed Respectfully,

(Name) (Address)

Scarlet Fever—Each scarlet fever patient must be visited by the District Medical Inspector on the day he receives the case, and on his first visit he pursues the same course as in diphtheria, in regard to the isolation of the patient, exclusion of school teachers or children of the family from school, leaving a "circular of information regarding scarlet fever."

If in an apartment or tenement house, or in a boarding or furnished-room house, he must place a scarlet fever placard on the door leading from the hall to the apartment or room.

44 J-1904

2200, '04, 15,000(P)

DEPARTMENT OF HEALTH, THE CITY OF NEW YORK.

SCARLET FEVER.

All persons, not occupants of this apartment, are advised of the presence of Scarlet Fever in it, and are warned not to enter.

The person having Scarlet Fever must not leave the apartment until the removal of this notice by the Department of Health.

By order of the Board of Health.

Alle Personen, welche nicht in diesen Räumen wohnen, werden hierdurch benachrichtigt das Scharlach Fieber hier ausgebrochen ist, und werden gewarnt, diese

Wohnung zu betreten.
Die mit Scharlach Fieber kranken Personen dürfen die Wohnung nicht eher verlassen, bis dieses Plakat von der Gesundheitsbehörde wieder entfernt ist. Im Auftrage des Rathes.

Tutte le persone che non sono occupanti di quest' appartimento sono avisatti della presenza del Scarlattina è sono avisatti di non entrarci.

La persona avendo il Scarlattina non deve lasciare l'appartimento finchè quest' aviso è portato via dal Dipartimento di Salute.

Per ordine del' Autorità di Salute.

THOMAS DARLINGTON, M. D., President.

EUGENE W. SCHEFFER, Secretary.

Date

Disease Nar Address Case Reported by Date Reported	Floor P.	H	Ten	No. Fan	ilies
	I	2	3	4	5
Complaints Received					
Complaints Returned Special Reports	1				
School Children in Family Fumigation Ordered		Perfo	rmed		
	**********			lical Insp	

131 J-1905 18a-238, 40,000 (P)

Measles—The District Medical Inspector must visit each measles case the day he receives it, and pursue the same rules as in diphtheria and scarlet fever in relation to the isolation of the patient, exclusion of school teachers and children, placing of measles placard, notifying of tenants, managers and janitors of apartment houses, and leaving "circular of information regarding measles."

133 J-1907

DEPARTMENT OF HEALTH.

108, '07,3,000 (P)

OF THE CITY OF NEW YORK

Sixth Avenue and Fifty-fifth Street.

CIRCULAR OF INFORMATION REGARDING MEASLES.

Measles is the most contagious of all the eruptive diseases of childhood, Measles is the most contagious of all the eruptive diseases of childhood, and is the cause of so many deaths in young children that it becomes a matter of great importance that extreme care should be used in all the details of its management. It is contagious from the beginning of symptoms until desquamation has been completed, a period of at least two and often three weeks. The symptoms (or invasion) commence from eleven to fourteen days after exposure to another case, at which time the disease was contracted. Measles is conveyed to others by the discharges from the nose and throat, and also by the scales thrown off from the surface of the skin. It may be carried by the clothing of the sick or of those in very close contact with the sick.

with the sick.

Your attention is urgently called to the contents of this circular as to the duties of the inspectors of the Department of Health, parents and nurses in every case of measles.

DUTIES OF THE INSPECTORS OF THE DEPARTMENT OF HEALTH.

I. Within twenty-four hours of the receipt of notification of a case of measles an inspector from the Department of Health will visit the family (when the notification is received by the Department on Saturday afternoon or Sunday, the case will be visited the following Monday), and will see that the case is properly isolated. He will not examine the patient until the Department of Health has been notified by the attending physician that the case is terminated. The inspector will then examine the patient to see that desquamation has been completed. When, however, isolation has not been maintained and the patient is to be removed to the hospital, a diagnostician must examine the patient.

2. In apartments, tenements, furnished-room, and hearding houses the

must examine the patient.

2. In apartments, tenements, furnished-room and boarding houses the inspector will placard the main door of the apartment containing the patient. This placard must not be removed except by an employee of the Department. Unauthorized removal of the placard is a direct violation of the Sanitary Code and may be followed by the arrest of the offender.

3. The inspector will notify all other families in the house of the exsence of the case, exclude all children in the family from school attendance and take such other prognetions are may be necessary to present the correct of

rstence of the case, exclude all children in the family from school attendance and take such other precautions as may be necessary to prevent the spread of the disease. He will visit the case thereafter as often as necessary to maintain isolation until desquamation is completed and the case is no longer a source of danger. Then the inspector will give permission for the patient, after a proper bath, to leave the sick-room, and will order proper and necessary disinfection of the infected room and its contents. Under no circumstances must the patient be allowed to leave the room until permission is

given by the inspector. Failure to maintain isolation may be followed by the

removal of the patient to the hospital.

4. During the illness no work of any kind, as tailoring, laundering, manufacturing of cigars or other merchandise will be permitted in the rooms or apartments occupied by the family. Cases occurring in rooms connected with stores will either be removed to the hospital or the store will be closed and kept under police surveillance until disinfection has been performed.

5. In case of death, burial within twenty-four hours is required. No persons except those belonging to the immediate family will be allowed at the funeral services.

6. In many instances landlords apply to the Department for an order for the removal to the hospital of a tenant ill with a contagious disease. This action is desired, either because the tenant does not pay his rent or for the protection of the landlord. In other instances tenants ill with contaginations are contaginated by the contagination of the landlord. tagious diseases refuse to pay rent, relying upon the Department of Health to keep them in their apartments. The Department wishes it distinctly understood that it will not interfere in the matter until the differences between the landlord and tenant have been settled in court. In the event of the granting of a dispossess warrant, the Department will provide for the removal of the patient to the hospital.

7. After disinfection has been performed the inspector will again visit premises, and if conditions are satisfactory, will issue permits for the

children to return to school.

8. Disinfection—When careful isolation has been maintained during the illness, disinfection will be limited to the sick-room. Much labor and annoyance will be saved where infection of other rooms has been avoided by careful isolation. After fumigation of the room, any rugs, carpets, pillows, mattresses and unwashable bed and other clothing may be removed by the Department at the request of the attending physician for steam disinfection. The goods so removed will be returned the following day. Upon special request for such action, bedding and other goods will be removed and destroyed and must never be sent from the house or thrown into the street by the owner.

DUTIES OF PARENTS AND NURSES.

1. Complete isolation of every case of measles as ordered by the inspector of the Department of Health must be maintained until disinfection has been performed

performed.

2. Children in the family must not be allowed to attend school until they have received a certificate from the Department of Health.

3. The room used for the case should be as nearly free from furniture as possible. Carpets and hangings should be removed before the patient is placed in the room. Toys and books used by the sick person should be thoroughly disinfected or destroyed after recovery or death. The sick-room should be well aired several times daily, the floor mopped and woodwork frequently wiped with damp cloths. Under no circumstances must the floor be swept when it is dry. It should be sprinkled with sawdust, bits of newspaper or tea leaves, all thoroughly moistened, and then carefully swept so that no dust may arise.

4. When practicable, one attendant should take entire care of the patient and no one else besides the physician should be allowed to enter the room. The attendant should have no communication with the rest of the family. Visitors must not be admitted to the apartment as long as the placard remains

on the door.

5. Plates, cups, glasses, knives, forks, spoons, etc., used by the patient should be kept for his especial use and under no circumstances removed from the room or mixed with similar utensils used by others. They should be washed in the room in hot soap suds and then rinsed in boiling water.

After use the soap suds should be thrown into the water closet.

6. All cloths, bed linen and personal clothing which have come in contact in any way with the patient should be immediately immersed in a 2½ per cent. carbolic solution before removal from the room. They should be soaked for one hour and may then be removed from the room and boiled in water and soap suds for five minutes.

7. Surfaces of any kind soiled with the discharges should be immediately

washed with the carbolic solution.

8. The discharges from the nose and mouth of the patient should be received on handkerchiefs or cloths, which should be at once burned or im-

mersed in a 2½ per cent. carbolic solution.

9. After making applications to the throat or nose of the patient, and before eating, the hands of the attendant should be disinfected by scrubbing

10. When the skin of the patient is peeling, the body should be washed daily with warm soap suds and afterward anointed with oil or vaseline. This should be repeated until all roughness of the skin has disappeared.

II. After the inspector of the Department of Health has ordered disinfection, the entire body of the patient should be bathed and the hair washed with hot soap suds. The patient should then be dressed in clean clothes (which have not been in the sick-room during the illness) and removed from the room. The attendant should also take a bath and put on clean clothes before mingling with the family or other people. The clothes worn in the sick-room should be left there to be disinfected with the room and its contents. Under no circumstances should the sick-room be again entered or occupied or anything removed from it until disinfection has been performed.

THOMAS DARLINGTON, M. D.,

Commissioner of Health.

HERMANN M. BIGGS, M. D., General Medical Officer.

The same rules as in diphtheria and scarlet fever apply as to the use of the The same rules as in diphtheria and scarlet fever apply as to the use of the elevator, work of any kind in the apartment, and where patients are in rooms at rear of a store. Patients must remain isolated at least two weeks after onset, and then if after examination of patient no desquamation of skin is found, fumigation is ordered. (No goods removed for sterilization in measles.) After fumigation school certificates are issued and history card is mailed to Central Office.

German Measles—Patients must be isolated and, if school teachers or children, must be excluded from school by the District Medical Inspector on the day the case

must be excluded from school by the District Medical Inspector on the day the case is referred to and visited by him. A week after the onset he will issue school certificates, if there is no desquamation, without fumigation of the room. Rooms are not placarded for this disease.

Varicella—Patients must be visited by the District Medical Inspector the day they are referred to him and isolated. If a school teacher or child, an official postal excluding from school must be mailed to the school. If there are other teachers or cheek whilden in the formity when have not had variedly they must be availabled. school children in the family who have not had varicella they must be excluded. If satisfactory evidence is given that they have had the disease they may continue at school. No placarding for this disease. After patient has "shed" all scabs school

school. No placarding for this disease. After patient has "shed" all scabs school certificates are issued without fumigation.

Whooping Cough—Patients, if attending school, must be excluded from attendance by District Medical Inspector. No placarding. No fumigation. Upon presentation of a certificate from a physician that patient has recovered child will be allowed to return to school, and the Medical School Inspector will be directed to notify the child's teacher to again exclude the child if the characteristic cough should recur.

In addition to the duties of a District Medical Inspector, as noted above, he is required to report on official postal all secondary cases occurring in families where a case is under his surveillance if there is no attending physician, or if the attendance.

a case is under his surveillance if there is no attending physician, or if the attending physician fails to report them, and, at the same time, send special written report of same on a blank provided for the purpose. He must report by postal and in writing every case of contagious disease found by him in his district, whether through personal effort or complaint, and in each case give full particulars as to full name, age, address, disease, duration of illness, character of premises, and whether or not there has been an attending physician

or not there has been an attending physician.

All complaints sent to him from Central Office by telephone or mail must be promptly investigated and answered.

When a case referred to the District Medical Inspector cannot be found at the address given he must report the fact at once to Central Office by telephone and in writing. When corrected address is obtained from the physician or person reporting

writing. When corrected address is obtained from the physician or person reporting the case it will again be sent to the Inspector.

He must mail promptly a special report on each diphtheria patient found intubated, and take no culture until patient has been extubated. If cultures are not taken at proper intervals he is required to give the reasons in writing, and if fumigations are not ordered promptly after culture is reported negative or at the end of two weeks' illness in measles and five weeks in scarlet fever (unless there are secondary cases in family) his written explanation must be sent to Central Office.

When a case of contagious disease is terminated and there is a secondary case in the family, postponing fumigation, the history card for the terminated case must be promptly sent to the Central Office to be filed and not kept back until all the cases have been terminated.

have been terminated.

When a "dead case" (one where the first report is from the death certificate) is referred to him, he must order prompt fumigation of infected rooms and forward a report in writing, stating how long patient has been ill and under the professional care of the attending physician. If other cases are found, or other illness in the family prevents prompt fumigation, that fact must be noted. A history card is required for each "dead case."

each "dead case."

When cases of measles, varicella, or German measles, reported by a Medical School Inspector, are referred to him and he cannot confirm the diagnosis, he must promptly report the fact to the Central Office by 'phone and in writing.

When a case of scarlet fever has been seen by a Diagnostician and left for "observation" by the District Inspector, he must send to Central Office a prompt written report. If desquamation appears, or if none has appeared when the third week of disease has passed, that fact must be noted and case may be dropped as "no case."

Should the family criticise the diagnosis of the physician who reported the case and appeal to the District Medical Inspector, he must not discuss the subject with them or give his diagnosis of the case, but refer the matter to the Chief Medical Inspector. He should report in writing to Central Office the statements of the family and give his opinion in relation to the diagnosis. Should the family refuse to keep the patient isolated, case must be referred to a Diagnostician and, if reported by him as a true case, may be removed to the hospital.

the patient isolated, case must be referred to a Diagnostician and, if reported by him as a true case, may be removed to the hospital.

When a case of contagious disease is removed to a Department hospital from a general hospital, dispensary or institution and it is found that the patient has gone from his home to the hospital, dispensary or institution while ill with the contagious disease, the District Medical Inspector of that district is directed to order prompt fumigation at the patient's home and mail a history card of the case.

After his first visit to a schoolchild with contagious disease, the District Medical Inspector must note on a filing card provided for the purpose the full name, age, address and disease, number and location of the school, name of teacher or grade of class, duration of illness and whether or not child was excluded from school by the Medical School Inspector. These cards are filed under the school addresses.

School	Location
Class	Teacher
Date	************************************
Name	Age
Address	Floor
Diphtheria	
Measles	
Mumps	
Whooping cough	

When a case of diphtheria, scarlet fever or measles is terminated, the District When a case of diphtheria, scarlet fever or meases is terminated, the District Medical Inspector must order prompt fumigation of the infected rooms, and, in diphtheria and scarlet fever, the removal of infected goods for sterilization. He must fill out the official fumigation card, and, after inclosing it in an envelope provided for the purpose, leave it before 3 p. m. at a culture station, in order that it may be taken up by the collector and brought to Central Office that evening and the fumigation performed the following day. He also places in the envelope a list of all the fumigations ordered by him for the following day. Should he have no fumigations for the following day, that fact must be noted on a card and left in the envelope at the culture station. the culture station.

94 J—1905				2294, '05,	60,000 (P)
Address				Floor	
Name		Age	Charact	er of Prem.	
Fumigation Or	dered		by		
Fumigation Pe	rformed		by		
		Bi Chlorie	de	Grs. Par	aform.
	Rooms				
		3	oz.	Mist. Form	aldehyde. ninum.
E D	Bedding			Destroy. *	Return.
For Kemovai	Bedding			Destroy.	
				C	ubic Feet.
14 J J-1904	DEPARTME	ENT OF	HEALTH.		

BOROUGH OF MANHATTAN. Division of Contagious Diseases.

New York, 190

Premises Ready for Disinfection and Fumigation.

Name.	Location.	Location of Room.	Character of Premises.	Disease.	No. Cubic Ft.	Disinfe ct ant and Am't to be used.	Disinfector to Report at said Prem- ises.
				-			

..... Medical Inspector.

149-J-1907

2862, '06-20,000 (P)

DEPARTMENT OF HEALTH CITY OF NEW YORK.

S. W. Cor. 55th Street & Sixth Avenue BOROUGH OF MANHATTAN

FOR

DISINFECTOR

If school certificates are required, the District Medical Inspector must visit the family the day following the fumigation and deliver the school certificates, if everything in relation to the fumigation is found to be satisfactory.

Each day he must note on a "daily report" card provided for the purpose the full name, age, address and disease of each patient visited that day, noting in each case the character of the building, date when case was listed and referred to him and action required. He also, on the reverse side of the card, records the total number of visits made and the total number of each of the various diseases visited that day. This daily report card must reach Central Office the following visited that day. This daily report card must reach Central Office the following morning, and from these cards his weekly report is made up.

Work Performed 190

Name.	Age	Address.	Char. of Building.	Disease.	Date Reported	Action Required
1	ii	*				
2						
3					a.	
4						
5						
6						
7			,			
8		*			-	
9						
10			*			
11						
12						
13			*			
14						
15						
16.						1
17	-					,
VISITS				Cases		,
No. Tenement	Houses		No	Measles		
" Hotels			"	Diphthe	ria	
" Schools		4		Scarlet 1		
" Private H	ACCO.		"	Small P		
" Not Foun			. "	Chicken		-
" Miscellan	eous		"	Miscella		
Total				Tota	1	

Medical Inspector.

970, '06, 13,000 (P)

Should a legal holiday precede or follow a Sunday the District Medical Inspector must see the new cases of contagious diseases referred to him on that day, but may omit revisits to old cases.

The District Medical Inspector must examine the daily printed lists of contagious diseases mailed to him in order that he may be a see that the contagious diseases mailed to him in order that he may be a see that the contagious diseases mailed to him in order that he may be a set of the contagious diseases mailed to him in order that he may be a set of the contagious diseases mailed to him in order that he may be a set of the contagious diseases mailed to him in order that he may be a set of the contagious diseases mailed to him in order that he may be a set of the contagious diseases are formed to him on that

tagious diseases mailed to him, in order that noted under his district have been referred to him from Central Office, and that all fumigations ordered in his district are noted on the daily list.

The Diagnosticians of the division are on duty at all times, and may be called upon at any hour of the day or night. They are required to diagnose:

(a) Every suspected case of contagious disease reported to the division.(b) Every contagious disease case reported in a general hospital, home, asylum, institution, lodging house or dispensary.
(c) Every contagious disease case before its removal to Minturn or a de-

(d) Every case found in rooms at rear of or connected with a store.
(e) Every case where the family refuse to stop work in the apartment or to

keep the patient isolated after several warnings.

(f) Every case reported as typhus fever, smallpox or plague.

(g) Every adult patient reported ill with varicella.

(h) Every case reported by Medical School Inspector or District Medical Inspector where the attending physician has failed to report the case.

They examine all patients ready for discharge at the Riverside and Scarlet Every hospitals, and must cartify that each patient is in a non-contagious condi-

Fever hospitals, and must certify that each patient is in a non-contagious condi-

tion before it can leave the hospital.

Cases are referred to them by telephone from Central Office, and their reports on cases are received at Central Office in the same manner. When a Diagnostician orders a patient to a department hospital he fills out a removal blank, which is left for the ambulance surgeon, and fills out a fumigation card, which is left for the disinfector.

DEPARTMENT OF HEALTH, BOROUGH OF MANHATTAN New York, 190 Name Removed from Reported at M. Examined at M. Examined at M. Color. Sex. Single Mar. Wid. Occupation. Diagnosis Place of Business. (If Diph., note in regard to antitoxin.) Has been ill Days. Religion. Exposed to Remove to Hospital. Medical Inspector.	When a glandered horse is found in a stable all the other horses must be carefully examined by the Veterinarian, and should any suspected cases be found they must be tested with mallein. A full report in writing must be filed at Central Office for every case visited. Every complaint received of a person having been bitten by a dog is referred to a Veterinarian, who is given the name and address of the person bitten and the name and address of the owner of the dog, and a description of the animal. If the Veterinarian is positive that the dog has not rabies, he notifies the person bitten. If the dog has rabies it is destroyed and the body sent to the Laboratory in East Sixteenth street, and the person bitten is advised to report at the Laboratory for Pasteur treatment. If it is suspected that the dog has rabies it is sent to the Laboratory to be kept under observation. During the year many cases of contagious skin disease of animals were reported and referred to the Veterinarians. A full report in writing of every case visited is sent to Central Office by the Veterinarian and filed in an envelope. A Veterinarian of this division makes a careful physical examination of each calf sent to the Vaccine Virus Laboratory, and after the vaccine virus has been collected from the calf the Veterinarian holds a post-mortem. A written report of each examination is forwarded to the Director of the Vaccine Laboratory. During 1906 the three Veterinarians
(To be filled out by the Inspector.) PATIENT'S HISTORY. Residence Class of Dwelling Birthplace Time in U. S. Father's Name Father's Name Father's Birthplace Mother's Maiden Name Mother's Birthplace Name of Relative or Friend Address Removed on by Ambulance Driver	Examined, horses
Received at Willard Parker, Scarlet Fever or Reception Hospital Received at On On On On On On On On On O	General Office Work. The Borough of Manhattan is divided into east and west side districts, the dividing line being Fifth avenue, from Harlem river to Fourteenth street, to Broadway, to Battery place, the district numbers beginning at the upper end of the borough on the west side, running down the west or North river side to the Battery and up the East river side of the Borough to the Harlem river. Maps at Central Office are marked to show the boundaries of the districts. Each district is properly numbered, and the name, address and telephone number of the Medical Inspector in charge is noted on it. A typewritten list is furnished the Chief Medical Inspector, the Telephone Operators and each of the Clerks of the division, showing the number of each district, its boundaries and the name, address and telephone number of the Medical Inspector in charge. A copy of this list is also kept in the Laboratory to facilitate mailing of culture reports to the District Medical Inspectors. If districts are made larger or smaller (depending on the marked increase or decrease in number of cases reported), or the Medical Inspectors in charge are changed, new lists showing date of change are substituted. Each morning, at 9 o'clock, the reports of all cases of contagious diseases received in the first mail, together with those received during the previous twenty-four hours, are sorted and grouped according to the districts in which they are located, each report having its district number marked upon it and the date and hour received at Central Office stamped on it. Five Clerks then telephone the cases to the District Medical Inspectors from the original reports, giving name, age and address of patient, disease and such necessary information as may be
arian, and the body is promptly removed to the offal dock. 70 J—1906 Page No. DEPARTMENT OF HEALTH BOROUGH OF MANHATTAN Sixth Avenue and 55th Street New York, 190 In accordance with Section 125 of the Sanitary Code of The City of New York Patrolman, Health Squad, is hereby directed to kill the belonging to residence for the reason that said animal is suffering from glanders. WALTER BENSEL, M. D., Assistant Sanitary Superintendent. Chief Medical Inspector D. V. S. Veterinarian Patrolman, Health Squad DESTROY: Halter. Blanket. Feed Bag. 21a-175, '06, 1,000 (P) The Veterinarian leaves at the stable, in an envelope, for the Disinfector a disinfection card, on which he has noted full instructions in relation to the disinfection of all infected materials.	required; as, for instance, in diphtheria cases, if attending physician does not wish cultures taken by District Medical Inspectors. The Stenographers then prepare (from the original reports) the first part of the daily typewritten list for the printer, showing all the new cases for that day, each under its proper district number, giving family name of patient, age, address and disease. This typewritten list is finished by adding under the proper district numbers all fumigations performed during the previous twenty-four hours, each showing name of family, address and disease. Corrections of previous lists and cases dropped as "no cases" during the previous twenty-four hours are also noted on the report. This typewritten daily list when completed is given to a messenger from the printer's office, together with the envelopes in which the printed copies are to be mailed, and which have been properly addressed and stamped at Central Office. The envelopes for the public schools of the borough (properly addressed and stamped) are received from the Board of Education office. The daily mailing list of this division averages 375 addresses, and a weekly mailing list of about sixteen is sent each Friday to Sunday schools. The daily lists are printed, placed in the envelopes and mailed each afternoon from the printer's before 6 o'clock, and are delivered with the first mail' the following morning. The printer's messenger brings to the Central Office each morning extra copies of the list printed the previous day, and these are compared with the typewritten copy kept at the office, in order to detect errors. A copy of this daily printed list of contagious diseases is mailed to the Chief Medical Inspector, each Diagnostician and District Medical Inspector, every hospital and institution in the borough, every Principal in the public schools, every parochial school, many private schools and kindergartens, to all branch public libraries, Tenement House Department, etc. This list has been issued daily since March 31, 1902. Wh
71 J—1906 Page No THIS SLIP TO BE RETURNED TO THE OFFICE BY THE DISINFECTOR. No. 3. 190 Disinfection of Stable. At	143 J—1906 DEPARTMENT OF HEALTH OF THE CITY OF NEW YORK. Sixth Avenue and 55th Street.
Harness, Halter, Blankets, Sheets, Brooms, Sponges, Brushes. Common Watering Trough DESTROY: Blanket. Halter. Feed bag. REMARKS: Disinfector. Veterinarian. Description of Animal	Dear Doctor: Your report to the Department of Health that

REGULATIONS OF THE DEPARTMENT OF HEALTH RELATING TO THE ATTENDING PHYSICIAN IN CASES OF DIPHTHERIA

A prompt report of each case of diphtheria must be made to the Department of Health as soon as the case is discovered. This report may be made in one of the three following methods:

(a) By the official postal cards of the Department. These cards can be obtained on application to the Division of Contagious Diseases.

obtained on application to the Division of Contagious Diseases.

(b) By telephone, when the administration of antitoxin or the removal of a patient to the Department hospital is desired. Such reports must be supplemented by a regular report on the official postal card.

(c) By a culture taken by the Attending Physician and forwarded to the Department of Health. If, upon examination, diphtheria bacilli are found, the slip accompanying the culture will be accepted as a report of the case. The Department will promptly acknowledge all reports and should the attending physician not receive such acknowledgement, he may know that his report has not been received by the Department. Upon receipt of the report of a case an inspector from the Department of Health will visit the premises.

2. The clinical diagnosis of diphtheria must in all cases be supplemented by a culture from the throat or nose or both, and when the examination of such cultures confirms the diagnosis, quarantine of the cases must be maintained until subsequent cultures indicate the disappearance of all diphtheria bacilli. Cultures should be taken at least once a week and even more frequently at the latter period of the disease, in order that the hardships of isolation and school exclusion may be decreased. When, however, diphtheria bacilli have been found in the cultures examined by the Department, quarantine of the case will be required for at least ten days from the beginning of the illness, even though later cultures are reported free from diphtheria bacilli within a shorter time. In general, after a culture showing no diphtheria bacilli has been received, disinfection will be promptly performed.

3. When the attending physician sends the initial culture to the Depart-

ment for examination in a case of diphtheria, it is assumed by the Department that he has indicated his desire and intention to take all secondary cultures. If the physician does not take the cultures and does not state his intentions in regard to the same to the Department of Health, the inspector will take all necessary cultures. If for any reason a physician discontinues treatment of a case in which he has been taking cultures, he must notify the Department of Health, so that further cultures may be taken if preserves.

of Health, so that further cultures may be taken, if necessary.

4. The diagnosis and supervision of cases reported to the Department as diphtheria, and in which a negative culture has been returned, will be adjusted by the Chief Medical Inspector through written communication to the attend-

5. Antitoxin will be administered by the Department inspectors either to the sick person or to other members of the family, upon telephonic request to the Department (4000 Columbus). Free antitoxin may be secured at the Department of Health office or at any of the stations throughout the City, upon signing a statement that payment for it by the family would be a hardship. The physician is then required to furnish on a blank supplied for the purpose the facts with reference to the history of the case, after recovery or death

All children in the family should receive immunizing doses of anti-

7. Upon request of the physician, intubation will be performed by the Department inspectors at the home, in the presence of the attending physician,

and the case then left in his care or removed to the hospital for future attention (the latter course is strongly advised).

8. Whenever a case of diphtheria is found in rooms in the rear of, or communicating with, a store, the inspector is required to have the store closed at once, or to report the case for immediate removal to the hospital.

Careful and continued isolation of the sick person must be enforced

o. Careful and continued isolation of the sick person must be enforced until disinfection has been performed.

10. All children living in the quarantined premises must be promptly excluded from school attendance.

II. All secondary cases must be reported, even if the first case is still under surveillance of the Department of Health.

12. Suspected cases must be treated as true cases until sufficient observation has shown that the patient has a non-communicable disease. All cases will be considered as diphtheria, if so reported. Any change in the original diagnosis must be made in writing to the Department of Health, and must be confirmed by a diagnostician of the Department.

Physicians must not order the removal of patients to the contagious disease hospital or elsewhere in cabs or other vehicles, but should notify the Department of Health and the removal will be effected by a coupe or ambulance of the Department.

14. A case of diphtheria must not be removed from one house to another, or even to another apartment in the same house, without the permission of the Department. Such removal is in direct violation of the provisions of the Sanitary Code.

15. When a secondary culture from the throat of a patient has been examined by the Department of Health and is free of diphtheria bacilli, an inspector will visit the house and order disinfection. The patient must not be discharged from observation until disinfection has been performed.

16. In private houses only disinfection may be performed under the supervision of the attending physician, provided he follow accurately the directions given in the following rules and regulations. Upon request a blank will be provided upon which he must state the manner and extent of the work performed under his supervision. If satisfactory to the Department, this will be accepted in place of disinfection by the Department.

In every case of disinfection under the supervision of the attending physician, the following regulations must be complied with: the following regulations must be complied with:

All cracks and crevices in rooms to be disinfected must be sealed or calked, to prevent the escape of gas, and one of the following disinfectants used for room disinfection, in the quantities named:

Sulphur, 4 lbs. for every 1,000 cubic feet of air space, 8 hours exposure.

Formalin, 6 oz. for every 1,000 cubic feet of air space, 4 hours exposure.

Paraform, 1,000 grains for every 1,000 cubic feet of air space, 6 hours

The following disinfecting solutions may be used for goods which are

The following disinfecting solutions may be used for goods which are afterwards to be washed:

Carbolic acid, 2 to 5 per cent.

Bichloride of mercury, 1-1,000.

After disinfection of rooms, carpets, rugs, mattresses, pillows, etc., must be sent away for disinfection by steam, and the rooms should then be thoroughly aired and cleaned with soap and water.

The Department of Health will remove any goods that may require further disinfection and return them without charge.

The office of the Division of Contagious Diseases of the Department of Health is always open, and a telephone message to 4000 Columbus will secure prompt attention, but a telephone report will not be accepted in place of a written report; the latter must always be sent. written report; the latter must always be sent.

THOMAS DARLINGTON, M. D. Commissioner of Health.

HERMANN M. BIGGS, M. D., General Medical Officer.

BOROUGH OFFICES, DEPARTMENT OF HEALTH.

MANHATTAN: THE BRONX:	S. W. Corner 55th St. & 6th Ave S. W. Corner St. Paul's Place and Third	Tel. 4900 Columbus
BROOKLYN:	Avenue	Tel. 4720 Main
QUEENS: RICHMOND:	374 Fulton St., Jamaica	Tel. 361 Jamaica

218-191, '06, 30,000 (P) DEPARTMENT OF HEALTH

OF THE CITY OF NEW YORK.

Sixth Avenue and 55th Street.

........... DEAR DOCTOR: Your report to the Department of Health that..... ·····, of...... is ill with measles and under your professional care is hereby acknowledged.

Your attention is respectfully called to the following regulations of the Department of Health regarding measles, and to the enclosed "Circular of Information" with reference to the duties of the inspectors of the Department of Health, parents and nurses in this disease. A copy of this circular will be cent to the family. sent to the family.

REGULATIONS OF THE DEPARTMENT OF HEALTH IN REGARD TO MEASLES.

1. A prompt report of each case of measles, with all necessary data, on an official postal card, must be made to the Department of Health (Sanitary Code, Section 133), as soon as the case is discovered or diagnosed. This report will be promptly acknowledged by the Department of Health, and if such acknowledgement is not received by the physician he may know that his report has not been received by the Department. Upon receipt of this report an inspector from the Department of Health will visit the family.

2. All children in the family must be promptly excluded from school attendance.

3. Careful and continued isolation of the patient must be enforced until the case is terminated and disinfection has been ordered by the medical inspector of the Department.

4. All secondary cases must be reported even if the first case is still under surveillance of the Department of Health.
 5. Suspected cases must be treated as contagious cases until a sufficient

5. Suspected cases must be treated as contagious cases until a sufficient observation has shown that the patient has a non-contagious disease. All cases will be considered as measles, if so reported. Any change in the original diagnosis must be made in writing to the Department of Health and must be confirmed by the diagnostician of the Department.

6. Physicians must not order the removal of patients to the contagious disease hospital, or elsewhere, in cabs or other vehicles, but must notify the Department of Health and the removal will be effected by a coupe or ambulance of the Department.

bulance of the Department.

Whenever there is a case of measles in rooms in the rear of, or communicating with, a store, the inspector is required to have the store closed at once, or to report the case for immediate removal to the hospital.

8. A case of measles must not be removed from one house to another, or even to a different apartment in the same house, without the permission of the Department. Such removal is in direct violation of the provisions of Sanitary Code.

9. No case of measles shall be discharged from observation until the Department has been notified, the case examined by an inspector to see if desquamation is entirely completed and the premises properly disinfected. This examination by the inspector is necessary because the Department of Health must have official information as to the completion of desquamation before a child is dismissed from observation; other people with children demand this protection. At no other time is the inspector allowed to examine the patient. In any case, however, where isolation has not been maintained and it becomes necessary to remove the patient to the hospital, a diagnostician and it becomes necessary to remove the patient to the hospital, a diagnostician will make an examination

To. It is recommended that physicians provide a special washable gown for each case of measles. This gown should be put on before entering the sick-room and taken off outside the sick-room as soon as the visit is completed. The gown should be kept in a closet or suitable place, separate from all other clothing, and the gown and the closet should be disinfected after the termination of the case termination of the case.

termination of the case.

II. In private houses only, disinfection may be performed under the supervision of the attending physician, provided he follow accurately the directions given in the following rules and regulations. Upon request a blank will be provided upon which he must state the manner and extent of the work performed under his orders and supervision. If satisfactory to the Department, this will be accepted in place of disinfection by the Department.

In every case of disinfection the following regulations must be complied with:

All cracks or crevices in rooms to be disinfected must be sealed or calked. to prevent the escape of the disinfectant, and one of the following disinfectants used in the quantities named:

a. Sulphur, 4 lbs. for every 1,000 cubic feet of air space, 8 hours exposure.

b. Formalin, 6 oz. for every 1,000 cubic feet of air space, 4 hours exposure. c. Paraform, 1,000 grains for every 1,000 cubic feet of air space, 6 hours

exposure. The following disinfecting solutions may be used for goods which are

afterwards to be washed:

a. Carbolic acid, 2 to 5 per cent.
b. Bi-chloride of Mercury, 1-1,000.

After fumigation of the rooms, any rugs, mattresses, etc., may be removed by the Department at the request of the attending physician for disinfecting by steam and the rooms should then be thoroughly aired and cleaned with

12. The Office of the Division of Contagious Diseases of the Department of Health is always open and telephone messages to 1204 Columbus will secure prompt attention, but a telephone report of a case of contagious disease will not be accepted in place of a written report; the latter must always be sent.

THOMAS DARLINGTON, M. D., Commissioner of Health.

HERMANN M. BIGGS, M. D., General Medical Officer.

Borough Offices, Department of Health.

MANHATTAN: S. W. Corner 55th St. & 6th Ave..... Tel. 4900 Columbus THE BRONX: 3731 Third Avenue......Tel. 975 Melrose BROOKLYN: 38-40 Clinton Street...... Tel. 4720 Main OUEENS: 374 Fulton St., Jamaica......Tel. 361 Jamaica 54-56 Water St., Stapleton, S. I..... Tel. 440 Tompkinsville RICHMOND:

Should the attending physician not give "full particulars" when reporting a case, a notice of the fact is mailed to him (and carbon copy filed in envelope of case), with the request that in future he will comply with section 133 of the Sanitary Code. When he has failed to give either full name or age of patient, the omitted part is obtained from the District Medical Inspector's daily report card the following morning and noted in the record of the case; or if the case has been referred to a Diagnostician, his report will supply the omission.

SATURDAY, NOVEMBER 30, 1907.	THE	CITY	RECORD.		1229
112 J—1905	18a-246, '05, 3,0	000 (P)	106 J—1907.		104-'07, 10,000. (P)
DEPARTMENT (ACTIVITY OF THE PARTY OF THE PA		SCARLET	A 10 11 11 11	SCARLET
DIVISION OF CONTAC		1- 1-00		Address	
Sixth Avenue and	THE RESERVE OF THE PARTY OF THE	500	Name		Age Yrs Mo.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0		Removed	to Hospital
TIEW TOWN			Reported by Card,	Telephone, Inspector "	Dead List," Complaint.
			***************************************		· • • • • • • • • • • • • • • • • • • •
DEAR DOCTOR:	No. of the contract of the con				Dead List
We are in receipt of your re	eport by		The second second		M. D.
of	aged			***************************************	Med. Insp't.
ofnot being given.			105 J—1907.		104-'07, 20,000. (P)
In future, when reporting a case of	contagious disease, kindly giv	e full	MEASLES		MEASLES
name, age, address, etc., in order that the Division, and oblige,	I de la Companya de l	n this		Address	
Yours resp	ectfully,		Name		Age Yrs Mo.
	Chief Medical Inspecto		Date of Report	Removed	to Hospital
When a complaint is received at Centr	al Office that a physician has	failed to	Reported by Card,	e Days. Telephone, Inspector ":	Dead List," Complaint.
When a complaint is received at Centr report a case of contagious disease, has del	ayed reporting a case until pa	atient was			
found by a Medical Inspector, or has ordere tagious disease to a hospital or elsewhere in					
is mailed to him from Central Office (and	carbon copy filed in envelop		Fumigated		Dead List
attention to the violation and requesting an When a District Medical Inspector telep		se cannot			Med. Insp't.
be found at the address given, if the person communicated with by telephone, a Departme	n reporting the case cannot be	promptly			
address. When a complaint is received at	Central Office that a store	previously	108 J—1905		18a-243, '05, 2,000 (P)
ordered closed has been found open, a Def family or attendants that if a second compl	partment policeman is sent to	warn the	SMALL POX	Address	SMALL POX
to the hospital. The policeman's written rep	ort is filed in envelope.			***************	
When complaint is received that a pla policeman is sent to replacard the apartmen					Age Yrs Mo Removed to Hospital
of the offense will be followed by the remo- policeman's report is filed in envelope.	oval of the patient to the hosp	ital. The	Reported by Card,	Telephone, Inspector ".	Dead List," Complaint.
When a complaint is received that "work	" of any kind is being done in	any room			
of an apartment where there is a case of cor warns the family that a continuance of this	violation will cause the remov	val of the			
patient to the hospital, and the policeman's re Should a complaint be received that an u	port is filed in the envelope.				Dead List
contagious disease, allowed a public funeral,	used an icebox, failed to bury	the body			M. D Med. Insp't.
within twenty-four hours after death, or pla ment policeman is sent to enforce compliance	ced draperies about the room,	a Depart-			wied. inspt.
to these violations, and, if draperies have be	een used, they are fumigated b	y the De-	111 J-1907.		104-'07, 10,000. (P)
at Central Office and explain why he violate	ed Section 141 of the Sanitary	Code, and	1	-1	* *
informed that a second offence will be follo of this letter is filed in the envelope of the ca	wed by summary action. A ca	rbon copy			
All complaints (written or telephonic) re	elating to cases of contagious d	seases are		Address	
noted in a book kept for the purpose, and respector for prompt investigation and report	in writing. A record is kept of	f the date	Name		Age Yrs Mo.
on which complaint is received, sent to Inspe Since 1902 the records of contagious dis	ctor, and returned by him.		Date of Report	Removed	to Hospital
are filed under an alphabetical street list. T	hese envelopes, 81/4 x 45/8 inches,	are made	Reported by Card,	se Days. Telephone, Inspector "	'Dead List," Complaint.
of heavy, light brown manilla paper, and open is yellow for measles, red for scarlet fever,	n at one end. The printing upon	n the face			
etc.					
Each day, after the cases have been ref daily printed list has been completed, each re	eport of a case is filed in the p	proper dis-	Fumigated		Dead List M. D.
ease envelope, and on the outside is noted the report, duration of illness, how reported, and	he address of patient, name, ag	ge, date of			Med. Insp't.
theria, if patient is intubated, that fact is no	oted, and whether "Loeffler" w	as present	Since 1902 a card i	index file has been ker	pt at Central Office, giving the name
or absent in the first culture, and the date o noted, and also date when a secondary cultu	t same. Dates of secondary cure is negative. Secondary case		address of every physi	ician who has failed t	o give "full particulars" in any case case attended by him, who has sent
in the family before the first case is termin	nated, and the rooms fumigate	d, are re-	'delayed" report, or w	who has ordered the r	removal of a patient ill with contag
corded in the same envelope, and names, etc., in a family are reported after the first i	s terminated and fumigation	performed.	disease, to a hospital or	filing card shows the	r other vehicle. name and address of patient, disease,
another envelope is used. Every record relation the postal reporting it, to the fumigation	ating to the case is filed in the	e envelope,	date when case was li	isted, so that by refer	ring to the envelope of the case a
An important duty of the clerk in charge	e of the filing case is to see that	at fumiga-	record of the facts can Should these viola		Code by any physician be too often
tion of rooms after diphtheria, scarlet fever ar trict Medical Inspector. When it is noted of	in a diphtheria envelope that a	annondami I			A card index file is also kept, giving aker who has failed to comply with
culture was negative, and no fumigation is or	dered in a few days, and no ca	use of de-	sections of the Code re		burial of bodies that have died of
lay found filed in the envelope, he must ask planation. In scarlet fever cases, after five	weeks have elapsed, and in mea	asles, after	agious disease. When a case of co	ontagious disease is re	moved from an institution or asylum
two weeks, if no fumigation is ordered, and envelope, an explanation is due from the Dis-	l no reason for delay found fi trict Medical Inspector		children to a Departm	nent hospital, written	notice of quarantine of institution
When fumigation has been performed, t	he date is stamped on the env	elope, and	o the institution, and	also to the office of the	f patients, is mailed from Central O he Society for the Prevention of Cru
the "fumigation" card is held by the clerk tw been received, he requests the District Medic	cal Inspector to bring it at one	te to Cen-	o Children, and the of	fice of the Charity Of	rganization Society. written notice that quarantine has I
tral Office. When received, the date is star check is put on the face of the envelope, and	mped on it, it is filed in the e		raised is mailed to the	same addresses, in di	iphtheria seven days, in scarlet fever
mains until March of the following year.		(Central Office.	urteen days later. Car	rbon copies of each notice are filed at
When an envelope, with its contents, is vided for the purpose, dated and properly fill	ed out, must be left in its place	. On this	When it is learned	that a patient ill wit	h contagious disease in the borough the health officer of the locality is i
substitute is noted when and by whom envelope from face of envelope. When the envelope	pe was taken, and also the prin	ncipal data f	ied by mail, and a carl	bon copy of the notice	is filed in the envelope for the case,
from face of envelope. When the envelope	is returned, this blank is destr	0.00	address, the same action	on is taken.	ould a patient abscond to an out-of-t
136 J—1905	1089, '05, 5,0	000 (P)	Whenever an emplo	oyee of the Division is	absent, notice must at once be sent to
DEPARTMENT	OF HEALTH	r	notification of absence	on an official blank.	followed within three hours by wri
THE CITY OF N	EW YORK	1	report to Central Offic	e, and make out on a	special blank an application for leavence is due to illness, a physician's cer
Disease			cate must be attached.		
Address	Age	8	A report is forward	t day, with the cause.	list of employees (with their titles) a list of those that have returned to
Date of Report		t	that day, with date of date of first absence, as	first absence, and cau	ise, and a list of those still absent,
			An "absentee" list	is kept in the office	of the Chief Medical Inspector, show
W 4		1 1	anna and title of arran	er amalawaa ahcant dar	to at matchantion data of natural data

104-'07. 5,000. (P)

DIPHTHERIA

107 J-1907. DIPHTHERIA

Address

Duration of Disease Days.

Name Age Yrs. Mo. Date of Report Removed to Hospital

Fumigated Dead List

Diagnostician. Med. Insp't.

Reported by Card, Telephone, Inspector "Dead List," Complaint, Culture. Result of Culture—L. P.-L. A.

..... Mo. ************* M. D. Med. Insp't. 104-'07, 10,000. (P) Yrs. Mo. Hospital M. D. Med. Insp't. e, giving the name and culars" in any case re-him, who has sent in a ent ill with contagious of patient, disease, and ope of the case a full sician be too often reis also kept, giving the ed to comply with the that have died of constitution or asylum for ntine of institution or ed from Central Office Prevention of Cruelty quarantine has been ys, in scarlet fever ten notice are filed at the se in the borough has, of the locality is noti-relope for the case, and cond to an out-of-town at once be sent to Cenhree hours by written uty, the employee must application for leave of ss, a physician's certifi-(with their titles) that have returned to duty those still absent, with ical Inspector, showing date of return, date of An absentee list is kept in the office of the Chief Medical Inspector, showing name and title of every employee absent, date of notification, date of return, date of application and cause of absence.

A daily report is forwarded to the Commissioner, General Medical Officer, Superintendent, Academy of Medicine, etc., showing total number of cases (by diseases) reported during previous twenty-four hours, and compared with similar report of same date the previous year, also number of cases of each disease removed to Department or Minturn hospitals. A list is forwarded to the Assistant Sanitary Superintendent on the twentieth day of each month, giving name and title of each employee of the Division, and noting any changes that have occurred during the previous month.

A weekly report is forwarded to the Assistant Sanitary Superintendent every Monday, compiled from the daily report cards of the District Medical Inspectors, the weekly reports of the Diagnosticians, Medical Inspector in charge of the Trachoma Hospital and Dispensaries, Medical School Inspectors, Vaccinators, Nurses, Veterinarians. Disinfectors, Ambulance Drivers, and the Disinfector in charge of the Disinfecting Station. From these weekly reports, monthly, quarterly, semi-annual and yearly reports are compiled and forwarded.

An employee of the Tenement House Department visits the Department each day, and obtains a list of the cases of contagious diseases in tenement houses that have been terminated during the previous twenty-four hours.

ow are and of to

A supply of the following laboratory products: Vaccine virus, diphtheria and tetanus antitoxin, and mallein, is kept in an icebox, to supply the immediate wants of inspectors, physicians, hospitals and institutions, when the other offices of the Department are closed, viz: nights, Sundays and holidays.

On Sundays and holidays, all "new" cases of diphtheria, scarlet fever and measles in tenement houses are placarded by policemen of the Health Squad.

A "dead" list is received twice each day from the Bureau of Records, compiled from the death certificates for cases that have died from contagious disease. On it is noted full name, age and address of patient, disease, date of death, number of death certificate, and name and address of attending physician. If a case on this list is found to have been reported, the date of death and number of death certificate is noted on the filing envelope, and District Medical Inspector notified to order fumigation. If a case is not found in the filing case, an envelope is made out for it as one reported from the "dead list" and the District Medical Inspector notified to visit premises, obtain full history and mail written report to Central Office. He also orders fumigation of infected rooms. fumigation of infected rooms.

fumigation of infected rooms.

A "culture" list is received daily from the Laboratory, giving results of each diphtheria culture examination that morning, whether showing diphtheria bacilli or no diphtheria bacilli, and listed under primary cultures, secondary cultures, and trial cultures. Primary cultures showing Klebs-Loeffler bacilli, and not previously reported, are listed as new cases of diphtheria the following morning. Dates of secondary cultures, and of primary cultures of previously reported cases, are noted on the envelopes, and if negative, that fact is noted to show termination of case.

A "hospital record" book is kept at Central Office, giving full data of each case seen by a Diagnostician, and of every "walked in" case.

All records of reported and suspected cases of glanders in horses are kept at Central Office by means of the envelope filing system (as in contagious diseases), under an alphabetical street list of the stable locations.

Each envelope is given a number, corresponding to the page of the book in which

Each envelope is given a number, corresponding to the page of the book in which all the facts relating to the case are entered, and a carbon copy of this page is filed in the envelope. A written report of the Veterinarian to whom the case was referred is filed in the envelope, also his order for the destruction of the horse, and the disinfection of the stable, when returned by the policeman, and the disinfector. Should there have been a mallein test, a record of that is also placed in the envelope.

GLANDERS No.		
No		GLANDERS
Location of Stable	No. of	Horses
Character of Stabl	le	
Name of Owner		
Date of Report		
Reported by Card Telephone		
Disposition of Animal		
Fumigated		
- tunigated	· · · · · · · · · · · · · · · · · · ·	Vatarinarian
		vetermarian.
All records of suspected rabies in tem, and in each envelope is filed terinarian detailed on the case. The ner of the dog, and a cross file (car. Telephone operators, five in number two on duty from 9 a. m. to 4 p. m. of lon Sundays, holidays and half-hol contagious disease patients, telephone Diagnosticians. The reports of cial blank.	the complaint, and a full write envelopes are filed under to dindex) is kept under addres	ten report of he address of ss of complain:
125 J—1906	1748	'06, 5,000 (P)
	NT OF HEALTH,	
	OF MANHATTAN.	
The state of the s	Contagious Diseases.	
	ge Received.	
Date 1	190 Time A. M	P. M.
Name		
Address		
Disease	Inspector	
	w Reported	Postal
Disease He	w Reported Telephone	Letter
Reported by	ow Reported $\left\{ \frac{\text{Inspector}}{\text{Telephone}} \right\}$	Letter
Reported by		
Reported by		
Reported by		
Reported by Residence Remarks Received by		
Reported by Residence Remarks Received by DIAGNOSTI	CIAN'S REPORT.	
Reported by Residence Remarks Received by DIAGNOSTI	CIAN'S REPORT.	
Reported by Residence Remarks Received by DIAGNOSTI	CIAN'S REPORT. Time $\begin{cases} \frac{\text{Referred}}{\text{Reported}} & A \end{cases}$. M. P. M.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician.	CIAN'S REPORT. Time $\begin{cases} \frac{\text{Referred}}{\text{Reported}} & A \\ & A \end{cases}$ Age Years	. M. P. M M. P. M Mos.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from	CIAN'S REPORT. Time $\begin{cases} \frac{\text{Referred}}{\text{Reported}} & A \\ & & A \end{cases}$ Age Years . Floor Roo	. M. P. M M. P. M Mos.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician Name Remove from Residence Diagnosis	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician Name Remove from Residence Diagnosis Married or single	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business Source of contagion Character of house	CIAN'S REPORT. Time \begin{array}{lll} Referred & A \\ Reported & A \\ & Years & Roo \\ & Floor & Roo \\ & No. of days ill & No. in family \end{array}.	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician.	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business Source of contagion Character of house How removed	CIAN'S REPORT. Time Reported A Reported A Reported A Reported A No. of days ill No. in family Driver Lbs. of Sulphur	. M. P. M M. P. M Mos. m No. n No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business Source of contagion Character of house	CIAN'S REPORT. Time {	. M. P. M M. P. M Mos. m No. n No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business Source of contagion Character of house How removed FUMIGATE. Rooms	CIAN'S REPORT. Time Referred A Reported A Age Years Floor Room No. of days ill No. in family Driver Lbs. of Sulphur Oz. of Formalin Grs. of Paraform Lbs. Lime and Oz. Form. Sol.	. M. P. M M. P. M Mos. m No. n No.
Reported by Residence Remarks Received by DIAGNOSTI Diagnostician. Name Remove from Residence Diagnosis Married or single Occupation Place of business Source of contagion Character of house How removed	CIAN'S REPORT. Time Referred A Reported A Age Years Floor Room No. of days ill No. in family Driver Lbs. of Sulphur Oz. of Formalin Grs. of Paraform Lbs. Lime and Oz. Form. Sol.	. M. P. M M. P. M Mos. m No. n No.

They telephone to the proper hospital all orders for the removal of patients, they send all cases reported as suspected glanders to the veterinarians, and receive their reports. All telephone communications relating to the work of the Division are received and answered by them. They are required to note in the telephone blotter all

Telephone Clerk.

messages received and sent. Nights, Sundays and holidays, they receive all requests for injection of patients with antitoxin, and requests for intubation, attend to the sale of virus and antitoxin, and receive complaints and communications of every description, referring the same to the Division having jurisdiction over the matter.

Duties of Disinfectors.

Or vitus and antitoxin, and receive complaints and communications of every description, referring the same to the Division having jurisdiction over the matter.

Duties of Disinfectors.

The disinfectors of the Division carry out the orders for the fumigation of rooms and disinfection of materials, as requested by the Diagnosticians and District Medical Inspectors. Since 1904, fumigations have been performed with formaldehyde gas; eight ounces of a formaldehyde mixture, composed of six parts 40 per cent. formalin and two parts solution of aluminum, are poured over a pound of fresh, unslacked finishing lime, for every 1,000 cubic feet of air space or fraction thereof. This liberates all the formaldehyde mixture is put up at the Department Station in half-gallon bottles, and the lime in pound cans, tightly covered, ready for use by the disinfectors. Supplies are keptured to the composition of the Diagnosticians are received by telephone at Central Office and noted on "disinfection" Diagnosticians are received by telephone at Central Office and noted on "disinfection" Diagnosticians are received by telephone at Central Office and noted on "disinfection by the District Aledian for the migation cards left in the envelopes at the culture stations by the District Aledian for the charge at Central Office copies these envelopes, checks off the cases to see that the cards correspond with the lists of fumigations ordered by the District Medical Inspectors, arranges them according to location, and distributes the cards to the Disinfectors at 7,30 a. m. These cards are signed by the Districtors, and returned at once to the Disinfector in charge. They are then filed in a card index kept for that purpose. All the fumigations ordered by the Diagnosticians are copied on a separate sheet, and checked off in the same manner as the others. Each Disinfector supplies himself with sufficient materials to disinfect and fumigate the cases assigned to him, and is ready for his work at 8 a. m. If, for any reason, a Disinfector cannot fumi

the bulletin board, and they are called upon when necessary. In all cases where disinfection or fumigation is refused without adequate reason, a member of the Health Squad is sent to enforce the order.

Before infected rooms are fumigated, all cracks, crevices and openings must be thoroughly sealed with the strips of paper provided by the Department, all infected materials spread about so as to expose the greatest possible surface, and all closet doors and bureau drawers opened. The proper amount of lime is then placed in a pail or suitable vessel, and sufficient formaldehyde solution poured over it; the outer door is then sealed on the outside, and the paster placed upon it, showing when fumigation began, and when rooms can be opened and aired.

115 J-1906

21a-184, '06, 18,000 (P)

DEPARTMENT OF HEALTH.

THE CITY OF NEW YORK.

DIVISION OF CONTAGIOUS DISEASES,

Sixth Avenue and Fifty-fifth Street.

New York,.....190...

THOMAS DARLINGTON, M. D., Commissioner.

EUGENE W. SCHEFFER, Secretary.

nachmittags (abends). Nach dieser Stunde durfen die Zimmer geoffnet werden. Im Auftrage des Sanitats Rathes.

THOMAS DARLINGTON, M. D., Commissioner.

EUGENE W. SCHEFFER, Secretary.

Questo appartamento e' stato messo sotto fumigazione al.....e deve rimanere serrato sino.......dopo la quale ora potra' venir

Per ordine del Dipartimento.

THOMAS DARLINGTON, M. D., Commissario.

EUGENE W. SCHEFFER, Segretario.

The Disinfectors, when on duty, wear a uniform, indicating that they are employees of the Department of Health.

Only in private houses may fumigation be performed under the supervision of the Attending Physician. Upon request, an official blank will be furnished, upon which he must note what has been done under his orders, and, if satisfactory to the Department, this will be accepted. After fumigation, mattresses, carpets, etc., will be removed by the Department for sterilization at the Department plant.

117 J-1904

DEPARTMENT OF HEALTH.

BOROUGH OF MANHATTAN.

DIVISION OF CONTAGIOUS DISEASES, Sixth Avenue and Fifty-fifth Street.

REPORT OF DISINFECTION

IN A PRIVATE HOUSE

This certifies that the premises named herein have been disinfected, as noted, and in compliance with the regulations mentioned below.

New York,190
Name of PatientAgeAge
Disease
Residence
No. of rooms disinfected
Disinfectant used: Formalinoz.; Sulphurlbs.;
Paraformgrs. Time room left exposed to disin-
fectant
Residence

In every case of disinfection the following regulations must be complied

All cracks or crevices in rooms to be disinfected must be sealed or calked,

All cracks or crevices in rooms to be disinfected must be sealed or calked, to prevent the escape of the disinfectant.

The following disinfectants may be used in the quantities named:
Sulphur, 4 pounds for every 1,000 cubic feet, eight hours' exposure.
Formalin, 6 ounces for every 1,000 cubic feet, four hours' exposure.
Paraform, 1 grain to every cubic foot, six hours' exposure.
Carbolic acid, 2 per cent. to 5 per cent. solution, and Bichloride of Mercury, 1-1000, may be used for disinfecting solutions.

The Department of Health will remove any goods that may require further disinfection.

disinfection.

Fumigations for	1905.	1906.
Diphtheria Scarlet fever Measles	24,605 25,363 28,956	20,861 19,663 45,516

Each day Department wagons remove infected goods (fumigated the previous day in the rooms) to the Department disinfecting plant in East Sixteenth street, where they are sterilized and returned the following day in another set of wagons.

During 1906, 45,436 pieces of goods were sterilized and returned and 18,941 pieces

destroyed.

When the Department ambulance or coupe delivers a contagious disease patient to the hospital, it is immediately fumigated by being placed in a tightly closed chamber and exposed to formaldehyde gas for an hour. When a carriage or coupe (not owned by the Department) brings a contagious disease patient to the hospital it is fumigated in the same manner before leaving. fumigated in the same manner before leaving.

During 1906, 1,844 such fumigations were performed.

The institutional work as carried out under the direction of the Chief Medical Inspector consists of medical and sanitary inspection and systematic collection and compilation of records of contagious diseases. There are at the present time in the Borough of Manhattan nineteen institutions which come under the Public Health

EXTRACTS FROM PUBLIC HEALTH LAW.

Chapter 661, Laws of 1893, as Amended by Section 2, Chapter 667, Laws of 1900.

§ 213. Examination and quarantine of children admitted to institutions for orphans, destitute or vagrant children or juvenile delinquents-Every institution in this State, incorporated for the express purpose of receiving or caring for orphan, vagrant or destitute children or juvenile delinquents, except hospitals, shall have attached thereto a regular physician of its selection, duly licensed under the laws of the State and in good professional standing, whose name and address shall be kept posted conspicuously within such institution near its main entrance. The words "juvenile delinquents" here used shall include all children whose commitment to an institution is authorized by the penal code. The officer of every such institution upon receiving a child therein, by commitment or otherwise, shall, before admitting it to conact with the other inmates, cause it to be examined by such physician, and a written certificate to be given by him, stating whether the child has diphtheria, scarlet fever, measles, whooping cough or any other contagious or infectious disease, especially of the eyes and skin, which might be communicated to other inmates, and specifying the physical and mental condition of the child, the presence of any indication of hereditary or constitutional disease, and any deformity or abnormal condition found upon the examination to and any deformity or abnormal condition found upon the examination to exist. No child shall be so admitted until such certificate shall have been furnished, which shall be filed with the commitment or other papers on record in the case by the officers of the institution, who shall, on receiving such child, place it in strict quarantine thereafter from the other inmates until discharged from such quarantine by such physician, who shall thereupon indorse upon the certificate the length of quarantine and the date of discharge therefrom. therefrom.

§ 214. Monthly examination of inmates and reports—Such physician shall, at least once a month, thoroughly examine and inspect the entire institution, and report in writing, in such form as may be approved by the State Board of Health, to the board of managers or directors of the institution and to the local board of the district or place where the institution is situated, its condition, especially as to its plumbing, sinks, water closets, urinals, privies, dormitories, the physical condition of the children, the existence of any contagious or infectious disease, particularly of the eyes or skin, their food, clothing and cleanliness, and whether the officers of the institution have proclothing and cleanliness, and whether the officers of the institution have provided proper and sufficient nurses, orderlies and other attendants of proper capacity to attend to such children to secure to them due and proper care and attention as to their personal cleanliness and health, with such recommendations for the improvement thereof as he may deem proper. Such boards of health shall immediately investigate any complaint against the management of the institution or of the existence of anything therein dangerous to life or health, and, if proven to be well founded, shall cause the evil to be remedied without delay.

without delay.

§ 215. Beds; ventilation—The beds in every dormitory in such institu-§ 215. Beds; ventilation—The beds in every dormitory in such institution shall be separated by a passageway of not less than two feet in width, and so arranged that under each the air shall freely circulate and there shall be adequate ventilation of each bed, and such dormitory shall be furnished with such means of ventilation as the local board of health shall prescribe. In every dormitory six hundred cubic feet of air space shall be provided and allowed for each bed or occupant, and no more beds or occupants shall be permitted than are thus provided for, unless free and adequate means of ventilation exist, approved by the local board of health, and a special permit in writing therefor be granted by such board, specifying the number of beds or cubic air space which shall, under special circumstances, be allowed, which permit shall be kept conspicuously posted in such dormitory. The physician of the institution shall immediately notify in writing the local board of health and the board of managers or directors of the institution of any violation of any provision of this section. any provision of this section.

In addition to this number, there are many private or semi-public institutions. The former are incorporated for the purpose of receiving and caring for orphan, vagrant or destitute children, or juvenile delinquents. They send monthly reports to this Department, which reports are referred to the Medical Inspector having charge of the institutional work. This Inspector visits each institution regularly, and if sections 213, 214 and 215 of the Public Health Law are found complied with, the report is indorsed by him and returned to the Chief Medical Inspector. When violations of the Public Health Law or the regulations of this Department are found a report to that effect, with proper recommendation, is appended to the indorsement made upon the monthly report of the institution.

The private or semi-public institutions are visited whenever contagious diseases

The private or semi-public institutions are visited whenever contagious diseases occur, or when, for some good and sufficient reason, it is thought necessary to inspect

them.

When an application for a permit is received from an institution, or when an application for a new permit is made the application is referred to the Inspector of Institutions for inspection and report. The premises are visited by the Inspector, a thorough inspection made and the dormitories measured to determine the number of beds permitted in each, the number being regulated largely by the location of the dormitories and character of the ventilation, the minimum basis being twenty-two and one-half square feet of floor space for each bed or crib or occupant thereof. The measurements of the dormitories in detail with the number of beds allowed in each, are noted on a form provided for that purpose. This is appended to the application, are noted on a form provided for that purpose. This is appended to the application, and, with proper indorsement by the Inspector, is then returned to the Chief Medical Inspector, who forwards it to the Assistant Sanitary Superintendent of this bor-

In the case of an old institution making an application for a new permit in consequence of changes in dormitories or removal of institution, the same form is complied with and a special report to the Chief Medical Inspector follows. This report notes the changes in or removal of the institution, and recommends that a new permit be issued in accordance with the specifications contained in the detailed memorandum

previously returned.

When an institution removes from this borough, or for any reason is discontinued, a report to that effect, with a recommendation for the revocation of the permit, is made to the Chief Medical Inspector.

The inspection of an institution is made with special reference to sections 213, 214 and 215 of the Public Health Law, particular attention being paid to quarantine and isolation of children admitted to the institution, the regulations of this Department requiring that such children be kept in strict quarantine for a period of not less than fourteen days the proper isolation of contagious cases such as chicken-pox less than fourteen days, the proper isolation of contagious cases such as chicken-pox, mumps, whooping-cough and contagious eye and skin diseases.

The sanitary inspection includes such details as general cleanliness, ventilation, arrangement of beds in dormitories, condition of beds and bedding, particularly mat-

several large institutions have done away with mattresses entirely, and others are considering the advisability of doing so. From a sanitary viewpoint, it would be a good thing if all dormitory mattresses were done away with, particularly those used by small children, as it is next to impossible to keep them in a sanitary condition. When pads and folded blankets are used, it is a very simple matter to wash, fumigate and disinfect them. This, of course, is not easily done in the case of a hair mattress. When wool and other substances are used, the difficulty is increased.

The toilet, bathing and washing facilities are also included in routine inspection. When the toilets, sinks, etc., appear in any way unsatisfactory, a report to that effect recommending a thorough sanitary inspection of the premises is made to the Chief Medical Inspector.

Medical Inspector.

Medical Inspector.

In the washrooms, all sinks, basins, towels, wash-rags, hair brushes, combs and tooth brushes are carefully examined. When the Inspector finds an unusually large number of children in an institution suffering with diseased eyes, he makes a report to the Chief Medical Inspector requesting that an oculist be sent to examine them.

The contagious diseases reported by each institution are referred daily to the Inspector of Institutions and noted on filing cards, with the name and location of the institution, name and age of the patient, disease and disposition of the patient, that is, whether removed to the Department hospital or left at the institution. (Cases of scarlet fever and diphtheria are regularly removed from institutions, unless there are proper facilities for complete isolation.) These cards are filed in a card index, which is kept at the Central Office. At the end of the year all cards are removed and a chart made up showing in detail the cases of contagious diseases reported by institutions for each month of the year. When the monthly medical report of an institution is received, the contagious diseases reported thereon are compared with the particulars on file in this office, and, when a discrepancy is found, as sometimes occurs, the institution is notified immediately, and the necessary correction made. This insures absolute accuracy of these records. absolute accuracy of these records.

St. John's Orphan Asylum, Forty-third Street and Avenue M.

January 24, 1907: John Williams, 4 years. Scarlet fever. To W. P. Hospital. In Asylum 3 days; came from No. 14 Ninth avenue, Hoboken, N. J.

Day Nurseries.

A day nursery is an institution where children from six months to two years of age, sometimes even older, are cared for during the day time while their mothers are employed. The children are usually received between the hours of seven and nine a. m., employed. The children are usually received between the hours of seven and nine a. m., and kept until evening, when the mothers call for them and take them to their homes. The nursery is in charge of a matron or "house-mother," who is assisted by one or more trained nurses and various other helpers. There are fifty-two day nurseries in this borough, all conducted in accordance with section 25 of the Sanitary Code. When application for a permit to conduct a day nursery is received, it is referred to the Inspector of Institutions, who visits the premises and makes a thorough inspection, paying particular attention to ventilation, toilet, bathing and washing facilities, the arrangement of cribs and beds in sleeping rooms (the floor space of dormitories is limited as in other institutions, minimum twenty-two and one-half square feet) as in other institutions, minimum twenty-two and one-half square feet).

When everything is found in a satisfactory condition, the application is returned, with an indorsement to that effect and a recommendation that a permit be issued.

All day nurseries applying for permits since January 1, 1905, have been obliged to

conform to the following rules and regulations:

"The beds or cribs in all day nurseries in every room in which cribs or beds are used shall be separated by a passageway of not less than two feet, and all the cribs or beds shall be so arranged that under each of them the air shall freely circulate and give adequate ventilation. No more than one occupant shall be allowed for each crib or bed, except that two children of the same family under the age of four years may occupy one crib or bed. All cribs or beds shall be of iron, covered with white enamel paint (or brass, if preferred), and shall be provided with a wire spring mattress, over which may be placed a woolen blanket and such other coverings as may be necessary. No hair, husk or feather mattresses shall be allowed. No less than 22½ square feet of floor space shall be provided and allowed for each bed or crib or occupant thereof.

Before permitting any infant or child to come in contact with the other children who may be present in the nursery, it shall be the duty of the officers to cause a careful physical examination to be made of such infant or child, and if it is found suffering, or has very recently suffered with any contagious or infectious disease, such as diphtheria, scarlet fever, measles, whooping-cough, chicken-pox, small-pox or any other contagious disease, especially of the eyes, skin or scalp, or tubercular disease, which might be communicated to the other inmates thereof, it shall not be admitted. In the cases of diphtheria, scarlet fever, measles, whooping-cough or chicken-pox, it shall be at once isolated and the Division of Contagious Diseases of the Board of Health potified.

For every child admitted, a suitable suit of clothing, the property of the nursery, shall replace that belonging to the child (unless the clothing in which the child is brought is in a thoroughly clean condition when admitted), to be worn during the day, and the clothing removed from the child shall be disinfected in some efficient manner and thereafter exposed to free air circulation.

No child shall be admitted to the community of others already in the nursery until it has been thoroughly washed and bathed and its head cleaned of all ver-min. All underclothing or napkins that may become soiled through the day shall be immediately removed and placed in a tub or proper vessel and washed

and laundered upon the premises. No soiled underclothing shall be allowed to be removed from the nursery in an unclean condition.

All day nurseries existing previous to January 1, 1905, are also required to observe these rules and regulations, with one exception; that is, several of the best nurseries in this borough have always used hair mattresses. These they have been permitted to retain, but only so long as they are in perfect sanitary condition.

All cases of contagious disease reported by hospitals are recorded on filing cards, giving name and location of hospital, name and address of patient, age, disease, duration of illness, disposition of case, length of time in hospital. These cards are referred daily to the Inspector of Institutions and filed in a card index similar to that containing the institution records. They also are removed at the end of the year and all data transferred to a chart, giving the detail for each month of the year. month of the year.

Bellevue Hospital, foot E. 26th st. Jan. 24, 1907: John Doe, 3 yrs. Diphtheria. To Reception Hosp. In hosp. 3 weeks. Res., 17 Ave. X.

The following table shows the number of cases of contagious diseases reported during 1900 to 1906:

BOROUGH OF MANHATTAN.

	1900.	1901.	1902.	1903.	1904.	1905.	1906.
Smallpox	132	1,198	755	30	42	12	48
Scarlet fever	3,927	10,113	6,895	6,705	7,747	4,233	4,068
Diphtheria and croup	7,230	6,774	9,679	10,568	11,016	7,553	7,444
Measles	10,690	7,592	11,645	7,283	17,838	9,495	18,265
Varicella		2,036	2,165	2,548	2,124	2,699	2,398

The following table shows (by months) the number of cases of contagious diseases reported to this division during 1906:

Month Ending.	Measles.	Diphtheria.	Scarlet Fever.	Smallpox.	Varicella,	Pertussis.	Mumps.	Glanders.	German Measles.	Total.
1906.										
January 31	2,147	806	517	3	435	42	89		27	4,066
February 28	2,551	852	437	1	388	80	143		20	4,472
March 31	4,350	970	552	5	368	69	210		47	6,571
First quarter	9,048	2,628	1,506	9	1,191	191	442		94	10,509
April 30	3,572	796	546	11	255	59	165	1	52	5.457
May 31	2,528	917	625	15	199	70	155		113	4,622
June 30	1,436	661	337	9	175	107	167		65	2,956
Second quarter	7,536	2,374	1,508	35	629	236	487	1	230	13,035
July 31	623	462	159	2	57	94	3		4	1,404
August 31	208	298	83		23	99	6		2	719
September 29	136	307	105		24	48	9			629
Third quarter	967	1,067	347	2	104	241	18		6	2,752
October 31	134	404	156		58	58	45	1	5	863
November 30	207	466	174		137	67	58	1	6	1,116
December 31	373	505	377		279	101	131	1	19	1,786
Fourth quarter	714	1,375	707	2	474	226	234	3	30	3,765
Grand total	18 265	7,444	4,068	48	2,398	894	1,181		360	34,664

DIVISION OF CONTACIOUS DISEASES

	DIVISION OF CONTAGIOUS DISEASES.		
R	eport of the work of this division for the year ending Decem	ber 29, 1	906.
Numi	er of visits to cases of contagious diseases	91,957	
Numi	per of cases visited for special diagnosis	5,057	
Numi	per of visits to tenement houses.	144,556	
Numi	per of visits to hotels	460	
Numi	per of visits to schools	63,050	
Numi	per of visits to private houses	4,000	
Num	per of visits to not found cases	1,144	
Numi	per of visits to miscellaneous	10.084	
Numt	per of visits		224.203
Numi	per of primary vaccinations	19,621	
Numi	per of revaccinations	103,117	
Total	number of vaccinations	122,738	
Numl	per of certificates of vaccination issued	23,974	
Num	per of persons removed to Contagious Disease Hospital	2,281	
Numi	per of dead bodies removed to Morgue	50	
Numi	per of houses visited for disinfection		29,290
Numb	per of rooms disinfected	48,301	-9,-90
Num	ber of times ambulances, etc., disinfected	1,844	
Numl	per of pieces goods disinfected	45,436	
Numl	per of pieces goods destroyed	18,941	
Numi	per of animals examined	24,482	
Numl	per of cases of rabies found		
Numl	per of post-mortems on animals	121	
Numl	per of horses tested with mallein		
Numi	per of glandered horses condemned and destroyed	356	
Numi	ber of animals examined by agglutination test	530	
Numi	per of inspections of stables	118	
1 tuili	or inspections of stables		3,476
1.	Total number of visits	- Land	25 26
			250,909

Number of houses Number of houses									
Number of room	visited	(disin	fection	postpor	ned)				26,457 2,833 48,301
Number Disinfecti	one for	+							6.00
Diphtheria			- 1-1-1						F 000
Scarlet fever									5,209
Measles			******						3,155
									43
Tuberculosis .									3,859
Glanders									547
Miscellaneous									529
- 1									3-3
Total									26,457
Disinfections under	superv	ision o	f attend	ling ph	ysicians				144
F. 5	Wo	rk Per	formed	by Ve	terinari	ans.			
Number of animals									24 49
Number of cases r									24,482
Number of post-m									121
Number of horses	tested	with m	allein						356
Number of glander	ed hor	See con	demned	and d	estrove	1	******		530
Number of inspect									3,476
Number of animals									118
rumber or anima.		by							
	Work	Perfort	ned at	Disinf	ecting S	Station.			
Number of times a	mbulan	ces and							1.844
Number of times a	mbulan	ces and	other	vehicle	s disinfe	cted			
Number of pieces	of good	ls disin	other fected.	vehicle	s disinfe	cted			45,436
Number of times a Number of pieces Number of pieces	of good	ls disin	other fected.	vehicle	s disinfe	cted			
Number of pieces	of good	ls disin s destro	other fected	vehicle	s disinfe	ected			
Number of pieces Number of pieces	of good of good Work	ls disin s destro	other fected	vehicle Ambu	s disinfe	rivers.			45,436 18,941
Number of pieces Number of pieces Number of persons	of good of good Work	ls disin s destro Perfor	other fected oyed med by	Ambu	s disinfe	rivers.			45,436 18,941
Number of pieces Number of pieces	of good of good Work	ls disin s destro Perfor	other fected oyed med by	Ambu	s disinfe	rivers.			45,436 18,941
Number of pieces Number of pieces Number of persons	of good of good Work	ls disin s destro Perfor	other fected oyed med by	Ambu	s disinfe	rivers.			45,436 18,941
Number of pieces Number of pieces Number of persons	Work remove	Perfor ed to he to Mo	other fected byed med by ospital. orgue	Ambu	s disinfe	rivers.		·····	45,436 18,941
Number of pieces Number of pieces Number of persons	Work remove	Perfored to he do not consider to Me	other fected oyed med by ospital. orgue	Ambu	s disinfe	Private	Not	Miscel	45,436 18,941 2,281 50
Number of pieces Number of pieces Number of persons	Work remove	Perfored to he do not consider to Mo	other fected byed med by ospital. orgue	Ambu	s disinfe	Private	Not	·····	45,436 18,941 2,281 50
Number of pieces Number of pieces Number of persons	Work remove	Perfored to he do not consider to Me	other fected byed med by ospital. orgue	Ambu	s disinfe	Private	Not	Miscel	45,436 18,941 2,281 50
Number of pieces Number of pieces Number of persons	Work remove	Perfored to he do not consider to Mo	other fected byed med by ospital. orgue	Ambu	s disinfe	Private	Not	Miscel	45,436 18,941 2,281 50
Number of pieces Number of pieces Number of persons Number of bodies	Work removed Cases.	Perfor Perfor ed to hed to Mo	other fected pyed med by ospital. orgue Tenement Houses.	Ambu Hotels.	s disinfe	Privers. Private Houses.	Not Found.	Miscellaneous.	45,436 18,941 2,281 50 Total.
Number of pieces Number of pieces of Number of persons Number of bodies	of good of good Work remove removed	Perfor Perfor ed to hed to Mo	other fected byed med by ospital. orgue	Ambu Hotels.	s disinfe	Private Houses.	Not Found.	Miscellaneous.	45,436 18,941 2,281 50 Total.
Number of pieces Number of pieces Number of persons Number of bodies Diagnosticians Medical Inspectors	Work removed Cases.	Perfor Perfor ed to hed to Mo	other fected pyed med by ospital. orgue Tenement Houses.	Ambu Hotels.	s disinfe	Privers. Private Houses.	Not Found.	Miscellaneous.	45,436 18,941 2,281 50 Total.
Number of pieces Number of pieces Number of persons Number of bodies Diagnosticians Medical Inspectors	Cases. 4,721 4,721	Perfor ed to he to Me Cases for Special Diagnosis.	other fected pyed med by ospital. orgue Tenement Houses. 2,731 69,488	Hotels.	Schools.	Privers. Private Houses.	Not Found. 76 1,068	Miscellaneous.	45,436 18,941 2,281 50 Total. 5,034 79,348
Number of pieces Number of pieces Number of persons Number of bodies Diagnosticians Medical Inspectors	Work remover	Perfor ed to hed to Me Cases for Special Diagnosis.	other fected pyed med by ospital. orgue Tenement Houses.	Ambu Hotels.	s disinfe	Privers. Private Houses.	Not Found. 76 1,068	Miscellaneous.	45,436 18,941 2,281 50 Total. 5,034 79,348
Number of pieces Number of pieces Number of persons Number of bodies Diagnosticians Medical Inspectors	Cases. 4,721 4,721	Perfor ed to he to Me Cases for Special Diagnosis.	other fected pyed med by ospital. orgue Tenement Houses. 2,731 69,488	Hotels.	Schools.	Privers. Private Houses.	Not Found. 76 1,068	Miscellaneous.	45,436 18,941 2,281 50 Total. 5,034 79,348

The Medical Inspection and Examination of School Children.

HISTORY.

March, 1897: Appointment of one hundred and fifty Medical Inspectors, at a salary of \$30.00 per month. Morning inspection only required. September, 1902: System elaborated to include morning inspection, routine weekly inspection of children in the classrooms and visiting of absentees at their homes. Salary of Inspectors increased to \$100.00 per month.

December 1st, 1902: Appointment of a corps of Trained Nurses, at a salary of \$75.00 per month.

December 16th, 1902: Establishment of a Hospital and Dispensary for the exclusive treatment of cases of Trachoma.

March 27th, 1905: Inception of complete physical examination of each school child.

OBJECTS.

Repeated and systematic inspection and examination of school children to determine the presence of infectious or contagious disease.
 Exclusion from school attendance of all children affected with acute

Subsequent control of the case, with isolation of the patient and disinfection of the living apartments after termination of the illness.

Control and treatment of minor contagious affections, permitting the

child to remain in attendance at school. Information of unreported cases of contagious disease occurring in school children at their homes.

Exclusion from school attendance of those children in whose families their exists a contagious disease. Complete physical examination of each school child for the purpose of determining the existence of non-contagious affections and advising

SCHOOLS VISITED. Public Schools, Parochial Schools, American Female Guardian Society Schools, Children's Aid Society Schools and Kindergartens.

FORCE.

Assistant Chief Medical Inspector, in charge of work. Corps of Medical Inspectors, all of whom are physicians. Supervising Nurse, in direct charge of the nurses. Corps of Trained Nurses.

WORKING PLAN OF THE SYSTEM. Duties of Medical Inspectors.

treatment of same.

Each Inspector is assigned to duty in a group of schools.

1. Morning Inspection.

Inspector visits each school in his charge before ten o'clock each morning and examines, in a room set apart for this purpose, the follow-

(a) All children isolated by the teachers as suspected cases of con-

tagious diseases. All children who have been absent from school.

Children returning after previous exclusion.
Children previously ordered under treatment.
Children referred by the school nurse for diagnosis.

(e) Children referred by the school nurse for diagnosis.
 (f) All affected children showing no evidence of treatment.

Cases to Be Excluded.

(a) Children showing signs or symptoms of small-pox, diphtheria, scarlet fever, measles, chicken-pox, whooping cough or

Cultures are taken in all cases of sore throat to determine the presence of the diphtheria bacillus.

Cases of small-pox, scarlet fever and measles are reported, by telephone, to the Central Office, so that a diagnostician may at once visit the case, confirm the diagnosis and order isolation. In these cases a postal card is sent from the Division of Contagious Diseases to the Principal of the school informing him, or her, of the presence of contagious disease, with instructions that no member of the family be allowed to attend school until the termination of the case.

DEPARTMENT OF HEALTH. BOROUGH OF MANHATTAN.

DIVISION OF CONTAGIOUS DISEASES.

New York,.....190

The following-named children, pupils of your school, are exposed to the contagion of.....at....

Sec. 145. No principal or superintendent of any school, and no parent, master or custodian of any child or minor (having the power and authority to prevent) shall permit any child or minor having scarlet fever, diphtheria (croup), small-pox or any dangerous, infectious or contagious disease, or any child in any family in which any such disease exists or has recently existed, to attend any public or private school until the Board of Health shall have given its permission therefor, nor in any manner to be unnecessarily exposed, or to needlessly expose any other person to the taking or to the infection of any contagious disease. infection of any contagious disease.

Chief Medical Inspector.

Reported by

.......... Medical Inspector.

POSTAL CARD.

Cases of pediculosis, with live pediculi.
Skin diseases, including ringworm of scalp, face or body, scabies, dormant pediculosis, who have persistently refused to under-

Cases to Be Referred to Their Own Physician, a Dispensary or to the School Nurses for Treatment.

Acute conjunctivitis. Pediculosis.

Skin diseases, including ringworm of scalp, face or body, scabies, favus, impetigo and molluscum contagiosum.

These children are re-examined the following day and allowed to attend school as long as treatment is continued. Children affected with trachoma are referred to their own physician or to a dispensary for treatment, and are allowed to attend school as long as evidence of treatment can be shown.

Each excluded child is furnished with an official exclusion card, properly filled out, as follows:

DEPARTMENT OF HEALTH.

BOROUGH OF MANHATTAN.

New York,.....190 Name..... Age..... Age..... 1S ORDERED TO DISCONTINUE ATTENDANCE AT Reason Medical Inspector. (SEE OTHER SIDE.)

EXCLUSION CARD, SHOWING FACE.

Notice to Parents.

The disease mentioned on the other side of this card is a contagious affection and liable to be transmitted to other children. The child should receive prompt treatment by any physician (or at any dispensary), and should return to school 190..., for re-examination by the Medical Inspector of the Department of Health. If found free from contagion at this time, he or she may resume attendance at school.

. EXCLUSION CARD, SHOWING REVERSE.

Each pupil referred to the Nurse for treatment receives from the Medical Inspector a slip on which is written the code number indicating the diagnosis

CODE.

I.	Diphtheria.	12.	Varicella.
2.	Pediculosis.	13.	Pertussis.
3.	Tonsilitis.	14.	Mumps.
4.	Pediculosis.	15.	Zero.
5.	Acute Conjunctivitis.	16.	Scabies.
6.	Pediculosis.	17.	Ringworm.
7.	Trachoma.	18.	Impetigo.
8.	Pediculosis.	19.	Favus.
9.	Zero.	20.	Molluscum Contagiosun
10.	Scarlet Fever.	21.	Acute Coryza.
II.	Measles.		

CODE CARD, SHOWING NUMBERS INDICATING DISEASES.

Cases to Be Readmitted.

Children returning after small-pox, scarlet fever, diphtheria, measles and chicken-pox must present a certificate from the Division of Contagious Diseases before readmittance.

Children returning after mumps and whooping cough may be readmitted at the discretion of the Medical Inspector.

2. Routine Inspection.

At the beginning of each term the Medical Inspector makes a routine examination of each child in the schools in his charge. The eyelids, throat, skin and hair of each pupil are examined. The Inspector is not allowed to touch the child, but the latter is required to pull down its own eyelids, open its mouth, show its hands, and, in the case of girls, lift up its back hair. Individual wooden tongue depressors are furnished by the Department.

All cases of disease are recorded on index cards with the proper data in appropriate columns. Code numbers are always used to indicate the character.

appropriate columns. Code numbers are always used to indicate the character

of the disease.

Cases requiring more extended examination are sent to the Inspector's room at a definite time for that purpose.

All cases of contagious disease discovered are dealt with as indicated in the description of Morning Inspection.

CLASS-	-	ROOM-		SCHOOL NO.			
NAME	Dis- ease.	Ordered under Treatment	Under Treatment	Excluded	Re-admitted	Remarks	
			*				
k							
			-				
					Medical I	nspector.	

INDEX CARD.

All children ordered under treatment are required to report to the Medical Inspector, at a definite time, the following morning for re-examination. If treatment has been instituted, the fact is recorded on the index card, the child ordered to report at regular intervals and, as long as treatment is necessary and continued, the child is allowed to remain in school. Children showing no evidence of treatment are excluded forthwith.

Each day a record of the number of children examined, with names, addresses and cause of exclusion of each excluded child, is mailed to the Central Office. A duplicate is kept on file at the school. The following is the form of card used for this purpose:

43 K-1906				Committee on the	20,000 (P)
D	EPARTMENT OF	HEALTH, NEW	YORK CIT	LA	
School No		Division of	Contagious	Diseases,	Manhattan
To the Assistant Ch. Sir: I have exam			ng		
Routine				arture	
	Pupils exclud	led and reasons ther	refor		
20122		BUSINENCE		AUGE OF	EVELUEION

NAME	AGE	RESIDENCE	CAUSE OF EXCLUSION
1			

DAILY REPORT CARD.

Medical Inspector

3. Physical Examination of School Children.

After the above duties are completed, the children are ordered to report, in turn, to the Medical Inspector, for a complete physical examination. This work is conducted in a room at least twenty feet long. A complete record of the condition of each child is kept on a card of the following form:

21a-207, 120,000 (P) 37 K-1906 PHYSICAL RECORD

		THEOLOGIC	MDOOMD.	
	S Class.		Date	
1. 2. 3. 4. 5. 6. 7.	Nutr. Enl. Cerv. Gl. Chorea Card. Dis. Pulm. Dis. Skin Dis. Spine Def. { Spine Extrem.	B. G. Y. N. A. P. Y. N. Y. N. Y. N. Y. N. Y. N. Y. N. Y. N.	11. Teeth B 12. Deform. Palat. Y 13. Hyper. Tons. Y 14. P. Nas. Growths Y 15. Mentality B	N. G. N. G. N. G. N.
8. 9.	Def. Vis. Def. Hear.	Y. N. Y. N.	Med. Ir	ısp.

PHYSICAL RECORD CARD.

Explanation of Abbreviations:

"Y" means Yes. "N" means No.

"G" means Good.
"B.' means bad.
"A" means Anterior.
"P" means Posterior.

The condition in each case is indicated by crossing out the unnecessary letter.

Each child is thoroughly examined for the following conditions:

Nutrition, enlarged cervical glands, anterior or posterior, cardiac disease, pulmonary disease, skin disease, deformity of spine, chest or extremities, defective vision—Snellen's test cards at 20 feet, also reading tests, defective hearing—whispered voice should be heard at a distance of 20 feet, nasal obstruction—thick nasal discharge or inability to blow the nose, defective teeth, deformity of palate, post nasal growths—to be suspected in any case of defective hearing or nasal occlusion, condition may be determined by inspection, palpation not allowed, mental condition, to be determined by general

In each instance where treatment is deemed necessary, an official card notifying the parents is filled out. These cards and the Physical Record cards of each day are sent to the Central Office with the daily school report.

"This notice does NOT exclude this child from school."

DEPARTMENT OF HEALTH,

THE CITY OF NEW YORK.

The parent or guardian of	is hereby informed that ow an abnormal condition of
Remarks:	

Take this child to your family physician for treatment and advice. Take this card with you to the family physician.

THOMAS DARLINGTON, M. D., Commissioner of Health.

HERMANN M. BIGGS, M. D., General Medical Officer.

PARENTS NOTIFICATION CARD.

4. Absentee Visiting.

The Inspector obtains from the Principal of the school, each day, a list of all children who have been absent from school for several days for any unassigned cause. These children are visited at their homes, and a list of the names, ages and addresses of all cases of contagious diseases discovered is sent, each day, with the school report, to the Central Office. Absentee Visiting.

Weekly Report.

A weekly report of all work performed is sent to the Central Office.

This report contains date, schools and location of same visited each day, residences visited and name of each child found with a contagious disease at its home address.

DUTIES OF SUPERVISING NURSE

The Supervising Nurse has entire charge of all of the Nurses. She assigns the nurses to duty at certain schools, sees that necessary supplies are furnished, instructs the Nurses in their duties, inspects their work, receives their reports of work performed and keeps a record of all examinations, treatments and diseases treated by each nurse in each school.

Each Nurse is assigned to a group of schools. She reports each day at each school, at a certain specified time.

Morning Inspection.

In a special room, assigned for the purpose, the Nurse receives all children ordered to report to her for treatment. These cases include pediculosis,

dren ordered to report to her for treatment. These cases include pediculosis, ringworm, scabies, favus, impetigo, molluscum, contagiosum and conjunctivitis. The treatment used for these conditions is as follows:

Pediculosis: Children are assembled in groups and are instructed orally, and by means of circulars printed in a language suited to the nationality of the child, as to the methods of home treatment. These cases are not treated in the schools. Treatment advised is as follows: Live pediculi—Saturate the hair with equal parts of kerosene and sweet oil; next day wash with solution of potassium carbonate (one teaspoonful to one quart of water), followed by soan and water. lowed by soap and water.
"Nits": To remove "nits" use hot vinegar or actually remove from hair

by hand.

Favus and Ringworm of Scalp: Mild cases, scrub with Tr. Green Soap, remove hair, cover with Flexible Collodion. Severe cases, scrub with Tr. Green Soap, remove hair, paint with Tr. Iodine and cover with Flexible Col-

Ringworm of Face and Body: Wash with Tr. Green Soap and cover with Flexible Collodion.

Scabies: Scrub with Tr. Green Soap, apply Sulphur Ointment.
Impetigo: Remove crusts with Tr. Green Soap, apply White Precipitate

Molluscum Contagiosum: Express contents, apply Tr. Iodine with toothpick wound with cotton.

Conjunctivitis: Irrigate with saturated solution of Boric Acid.

Cases to Be Visited by the Nurse at the Home of the Children.

Flagrant cases of pediculosis. The Nurse shows the mother how to treat the condition and encourages persistence.
 Excluded cases who do not return at the appointed time.
 Trachoma cases where treatment is not sought regularly. The Nurse urges the need of treatment, and, if necessary, takes the child to a dis-

The Nurse is not allowed to treat cases of trachoma. Children so affected must report to the Nurse each week and show a physician's certificate or dispensary card, properly dated, showing evidence that the child is continuously under treatment. Persistent failure to show such evidence is cause for exclusion.

When Morning Inspection has been completed, the Nurse visits the class-rooms and makes a weekly routine inspection of the eyelids, hair, skin and throat of each pupil. The method pursued is that given under the Duties

throat of each pupil. The method pursued is that given under the Duties of the Medical Inspector, Routine Inspection.

The nurses keep a special set of index cards. All cases of contagious disease found, are noted on these cards. Special cards are kept for the recording of all cases of pediculosis, these cases are under the exclusive care of the nurse. Other cases are noted and ordered to report to the Medical Inspector for the purpose of confirming the diagnosis. The nurse must exclude all children showing symptoms of diphtheria, scarlet fever, measles, whooping cough, chicken-pox or mumps, and if the Inspector is not in the school to confirm the diagnosis, telephone the name and address of each excluded child to the Central Office. An Inspector is then sent to the home of the child and takes further charge of the case.

The nurse forwards each day to the Supervising Nurse, a record of the work per-

formed that day, including:
Number of Children Examined,
Number of Children Excluded.
Number of Children Treated.

Number and Character of Diseases Treated. Number of Visits made to Children at their Homes. The nurse also sends to the Supervising Nurse, each week, a report giving the total amount and character of the work performed during the week.

The Department of Health maintains one Hospital and two Dispensaries for the treatment of trachoma. A Dispensary is situated at Gouverneur Slip and a Hospital and Dispensary at the corner of One Hundred and Eighteenth street and Pleasant avenue, Borough of Manhattan. All cases of trachoma not under the care of a private physician are referred for treatment to these hospitals and dispensaries by the Medical Inspector or School Nurse. The date of each treatment is stamped on a special card and the Inspector or Nurse is thus enabled to determine if the child is regularly under treatment.

Tables showing the amount and character of the work performed by the Medical Inspectors and Nurses during the past four years, in all of the Boroughs of New York City, are appended herewith.

Table of Work Performed by Medical Inspectors of Schools in All Boroughs, City of New York, 1903, 1904, 1905 and 1906.

	1903.	1904.	1905.	1906.
Number of visits to schools	103,301	101,566	88,964	88,813
Number of children examined	11,301,691	12,236,050	6,285,435	5,007,244
Number of children excluded	65,294	25,369	18,844	12,895

Reasons for Exclusion.

	1903.	1904.	1905.	1906.
Measles	250	1,172	312	377
Diphtheria	530	155	74	77
Scarlet fever	66	55	47	43
Whooping cough	364	187	351	319
Contagious eye diseases	32,525	10,624	8,833	5,845
Pediculosis	21,100	8,717	4,692	2,155
Chicken pox	909	780	937	669
Contagious skin diseases	4,029	2,123	2,018	1,616
Miscellaneous	5,521	1,556	1,580	1,794
Total	65,294	25,369	18,844	12,895

Table of Physical Record of Children.

	1905.*	1906.
Total number of children examined	55,332	78,401
Number of cases of bad nutrition	3,283	4,921
Number of cases of diseased anterior cervical glands	14,214	29,177
Number of cases of diseased posterior cervical glands	3,047	8,664
Number of cases of chorea	738	1,380
Number of cases of cardiac disease	895	1,096
Number of cases of pulmonary disease	600	757
Number of cases of skin disease	989	1,558
Number of cases of deformity of spine	485	424
Number of cases of deformity of chest	401	261
Number of cases of deformity of extremities	498	550
Number of cases of defective vision	16,394	17,928
Number of cases of defective hearing	1,296	869
Number of cases of obstructed nasal breathing	6,182	11,314
Number of cases of defective teeth	18,182	39,597
Number of cases of deformed palate	698	831
Number of cases of hypertrophied tonsils	8,347	18,306
Number of cases of posterior nasal growths	5,119	9,438
Number of cases of defective mentality	1,210	1,857
Number of cases where treatment was necessary	33,551	56,259
Nationality—		
Native		18,125
Foreign	40.20	37,234
Not obtained		900

From March 27 to December 23, 1905.

† Only obtained in cases where treatment was necessary.

Table of Absentee Visiting.

	1904.	1905.	1906.
Measles	613	284	1,080
Diphtheria	7	4	6
Scarlet fever	57	34	56
Whooping cough	35	82	162
Mumps	45	66	228
Chicken pox	103	146	232
Typhoid fever	1	1	3
Tuberculosis		1	2
Erysipelas	****	2	
Meningitis		3	,
	-	-	-
Total	861	623	1,789

Table of	Work	Performed	24	Fva	Hospital	and	Dispensaries	
rapic or	WOLK	Performed	at	Eve	HOSDITAL	and	Dispensaries	

AND THE PROPERTY OF THE PARTY O	1903.	1904.	1905.	1906.
Number of cases treated by operation	4,337	1,729	1,460	1,385
Number of cases treated without operation	11,399	7,775	9,223	8,171
Total number of children treated	15,736	9,504	10,682	10,556
Total number of visits made for subsequent treatments	129,830	122,628	161,644	177,161
Total number of treatments	145,566	132,132	172,327	187,717
Number of children not having trachoma, examined	3,121	1,815	3,222	6,141

Table of Work Performed by the Nurses.

	1903.	1904.	1905.	1906.
Number of visits to schools	16,095	27,010	25,943	27,097
Number of visits to tenement houses	16,218	26,703	40,070	41,504
Number of visits, miscellaneous	293	1,046	1,344	1,597
Total number of visits	32,606	54,759	67,357	70,198

Number of Cases Treated.

	1903.	1904.	1905.	1906.
Pediculosis	205,023	509,142	616,384	706,600
Contagious eye diseases	151,855	204,277	268,855	365,875
Contagious skin diseases	16,905	24,151	40,052	58,929
Miscellaneous	23,537	45,112	50,801	61,624
Total number of treatments	397,320	782,682	976,092	1,193,028

A Report of the Ophthalmological Work of the Department of Health, 1906, in Which is Included a Description of the Methods of Treatment Employed by the Department in Cases of Trachoma, and some Deductions as to the Comparative Value of Different Methods.

BOROUGH OF MANHATTAN.

Before considering in detail the ophthalmological work, performed by the Department during the year 1906, a short review of this work from its commencement would seem to be desirable.

seem to be desirable.

In December, 1902, the Department of Health commenced the systematic treatment of cases of trachoma occurring in the schools and occupied for this purpose the old building of Gouverneur Hospital. The work in the old Gouverneur Hospital was continued until May, 1904, when this building was torn down and the Department was forced to vacate. Since that time, the work in this locality has been continued in two portable frame houses, situated on Gouverneur slip. During the period that the Department occupied the old Gouverneur Hospital building many operations were performed upon these cases, but, with the removal to the portable houses, operative work ceased and since that time the Department has been able to treat trachoma only by non-operative measures in that part of the City. In March, 1904, the Department opened a hospital at One Hundred and Eighteenth street and Pleasant avenue, in which operations were resumed. The following are the figures for the institution in Gouverneur street, from its commencement in Gouverneur Hospital to the present time. The small number of operations in 1904 was due to their discontinuance during the early part of that year.

1902 (Commencing December 16).

Cases treated by operation	127 976
Cases treated by operation	4,369 16,987
Cases treated by operation	543 4,509
Cases treated (without operation)	7,483
Cases treated (without operation)	6,179
In the foregoing tables are included only cases of trachoma, giving a cases treated by operation, 5,030, and without operation, 36,134.	total of

were also treated. The number of revisits amounted in:	traciona,
1902	1,412
1003	131.031

were also trea	ted. The number of revisits amounted in .	1
1902		1,412
1903	***************************************	131,031
	***************************************	87,782
		120,220
1900	***************************************	125,205

In this table of revisits are included all cases of contagious eye diseases, whether trachoma or not. The total number of revisits for the years mentioned reaches the enormous figures of 465,650.

The figures of the hospital for Contagious Eye Diseases, at One Hundred and Eighteenth street and Pleasant avenue, are as follows:

 		ubuit.			-,		an	10
	1004	(Ma	rch	+0	n	eces	mhe	170

1904 (March to December).	- 0
Number of cases treated by operation	1,063 3,153
=	3,133
1905.	
Number of cases treated by operation	1,460
Number of cases treated without operation	3,200
1906.	
Number of cases treated by operation	1,385
Number of cases treated without operation	4,377
Total number of cases treated by operation	4,908
Total number of cases treated without operation	10,730
and an analysis of the control of th	10,730
(This table comprises only cases of trachoma.)	4

During this period 2,398 cases of contagious eye diseases other th	an	trachoma
were treated. The number of revisits of all cases was as follows:	1	

905	***************************************	33,703 41,424 51,956
10	Total	27,083

At the commencement of the year 1906 the department, therefore, had at its disposal for the treatment of Contagious Eye Diseases in school children a hospital of twenty beds, situated at One Hundred and Eighteenth street and Pleasant avenue, and a dispensary situated at the foot of Gouverneur slip. The medical staff of these two institutions consists of eight physicians, all of whom are qualified oculists and have been connected with one or other of the established eye hospitals in this city, and two physicians who are experienced anaesthetists. The hospital at One Hundred and Eighteenth street is fully equipped for the operative treatment of trachoma, and in addition affords space for the daily treatment in the clinic of cases in which operation is not considered desirable and ment in the clinic of cases in which operation is not considered desirable and for the continuous after-treatment of patients upon whom operations have been performed. The dispensary at the foot of Gouverneur slip has no operative service. It is equipped only for the treatment of patients living in that locality who have been operated upon at the hospital in One Hundred and Eighteenth street, and for the treatment of school children in the vicinity upon whom operations have not been deemed essential. Its most important function, perhaps, consists in its affording a place in which operative cases can be selected and from which they can be transferred to the hospital at One Hundred and Eighteenth street.

In order fully to understand the procedures adopted by the department in cases of trachoma occurring in the schools we must begin with the work of the School Inspectors. With them rests the detection of the cases and the primary cases of trachoma occurring in the schools we must begin with the work of the School Inspectors. With them rests the detection of the cases and the primary diagnosis. While these Inspectors are all physicians they are not occulists, and their diagnosis is only tentative, but while not possessing a complete training in eye diseases, all these Inspectors have received special instruction in the diagnosis of trachoma, either at the department eye hospitals or at the New York Eye and Ear Infirmary. Let us follow a case from its detection in the schools to its final discharge from the hospital when cured. A card stating that the child has a contagious affection of the eyes and recommending that he be placed under treatment is given by the School Inspector. This does not mean that the department demands that the patient shall go to one of its own institutions. The department simply insists that unless he be placed under treatment he may not department simply insists that unless he be placed under treatment he may not attend school. The patient may be treated by his own physician, by any oculist or at any eye hospital or dispensary. Nor does the department attempt to prescribe the method of treatment that shall be followed. It does not insist upon scribe the method of treatment that shall be followed. It does not insist upon operative procedures in any case, and any of the recognized methods of treatment will suffice. In case the treatment is instituted by the family physician a certificate from him to that effect will admit the patient to school during the continuance of his treatment, and if the treatment be undertaken by any hospital or dispensary other than those of the department, the card of the institution, stamped with the dates of his visits, will permit the patient to attend school. In cases in which the family physician disagrees with the Inspector as to the diagnosis the case is referred to the Ophthalmologist of the department. If the patient seek advice at one of the hospitals of the department the diagnosis of the School Inspector is then confirmed or reversed, as the case may be, by the physician in charge of the clinic. This physician, as has been stated, is a qualified oculist, and he either recommends operation or treats the case by non-operative measures according to his judgment. If operation be deemed advisable the child is directed to bring one of his parents to the hospital, and if the parents consent the child is operated upon, after having again been examined by the operator. It will thus be seen that no case of trachoma is submitted to operation unless the child is operated upon, after having again been examined by the operator. It will thus be seen that no case of trachoma is submitted to operation unless the diagnosis has been concurred in by three physicians, the School Inspector, the physician in the clinic and the surgeon who operates. A child admitted for operation is detained in the hospital for the twelve hours preceding. This is to ensure an empty stomach, the operation always being performed under general anaesthesia. He is not discharged until forty-eight hours later. This is in order that all reaction may subside and to afford time for the separation of adhesions, if these be present. Cases in which reaction is violent or those in which adhesions are more than usually persistent are detained as long as may be necessary. After discharge the patient attends the morning clinic daily, in order that a permanent separation of the adhesions may be effected and that any secretion which may persist may be checked. In order that he may attend school the patient is transferred later to the afternoon clinic for subsequent treatment, which tient is transferred later to the afternoon clinic for subsequent treatment, which is continued a certain number of times weekly until all hypertrophy of the mucous membrane shall have disappeared. He is then discharged as cured, but is requested to report at the hospital once a month for observation, and this he

usually does.

Considering the large amount of material that has been at the department's disposal for the last three years, it may not be out of place in this report to describe the methods of treatment, operative and non-operative, employed by the department; to state so far as is possible the results, good and bad, that have resulted, and to make such deductions as may seem justifiable. The non-operative treatment of uncomplicated cases consists at present, as it has consisted for the last three years, solely in the application of sulphate of copper.

The employment of sulphate of copper has seemed justified by the comparative results observed in over 3,000 cases treated by sulphate of copper, bichloride of mercury and formalin. These substances were tested side by side for a period of six months, at the end of which time, sulphate of copper gave by far the best results. The further conclusion drawn was that the action of the sulphate of copper was due solely to its caustic properties. Bichloride of mercury and formalin were not sufficiently effective as caustics, and the beneficial action of their antiseptic properties was not apparent. In fact, bichloride of mercury 1-500 and formalin 1-20,000 seemed to be of very slight value and such benefits as were derived from their use appeared to be due for the most value, and such benefits as were derived from their use appeared to be of very signit value, and such benefits as were derived from their use appeared to be due for the most part to the friction employed during their application. The concensus of opinion of the physicians in attendance, was that the same result would probably have been obtained if a solution of boric acid had been substituted. Cocaine has been employed from time to time in the Department's clinics in order, if possible, to make these applications less painful. In the majority of cases, it has completely failed in this direction of the control of t fire tion, and the results obtained did not seem to justify the time employed in its instilla-tion and the expense attending its use. Non-operative treatment should be restricted for the most part to cases presenting large superficial follicles, the so-called "frog spawn" type, unaccompanied by marked hypertrophy. In these cases, the results are often exceedingly satisfactory even when the follicles are very numerous. Cases pre-senting for the most part, hard, small granules, trachoma vera of Alt, are slowly and but slightly influenced by this method of treatment, and in the opinion of the writer it

is, in such cases, a waste of time.

The operative procedure employed by the Department consists of "expression," without previous scarification. Scarification alone, in recent cases, is to be condemned. It can only cause the removal of the superficial follicles, while it produces a certain amount of destruction of the muchous membrane and tends to the marked formation of amount of destruction of the mucous membrane and tends to the marked formation of cicatricial tissue. Employed with expression, it is undesirable for the same reasons, and, except in very rare cases, is absolutely unnecessary. In the operation of expression, Prince's, Noyes' and Knapp's forceps have been used. For the past two years, reliance has been placed almost solely upon those of Knapp. The two former express the granules by a method in which lateral stripping of the membrane plays an important part. In mild and superficial cases, they answer their purpose perfectly well, but, when the follicles are deeply seated, the force required for their removal by means of this stripping action is apt to inflict serious damage upon the conjunctiva to denude it of its epithelium, and to leave a condition of sclerosis, and tends in addition, to make the resulting adhesions dense and unvielding. The pressure exerted dition, to make the resulting adhesions dense and unyielding. The pressure exerted vertically by Knapp's roller forceps seems to effect all that their author claims, and, by their use, the granules are most thoroughly expressed and with the least possible trauma. In the canthi, in which situation the granules are apt to be for the most part superficial, Prince's forceps may be advantageously employed. The forceps of Noyes' are at present used almost entirely for the purpose of everting the lids, although the employment of any instrument for this purpose is only exceptionally necessary when the

Operator is expert.

The success of an operation for trachoma depends largely upon the personal equation of the operator and upon the character and duration of the after treatment. Care-The success of an operation for trachoma depends largely upon the personal equation of the operator and upon the character and duration of the after treatment. Carefully performed by a painstaking, conscientious man who understands his work, and supplemented by treatment of an appropriate character prolonged for a proper length of time, it is as generally successful as most of the more important operations of ophthalmic surgery. Under such circumstances, this operation even in hospital practice should result in about 70 per cent. of cures, and in private practice the number of cures should probably be greater. Lack of a proper appreciation of the true conditions that obtain in this disease is responsible for much careless and too rapid operating, of a nature not sufficiently thorough. The very general impression among surgeons that the operation is always easy, that it should not take more than four or five minutes and that it is worthy only of the attention of an inexperienced junior member of a hospital staff is largely responsible for many of the bad results that are obtained and for the bad reputation that the operation has acquired with many. Above every other consideration, the operation should be thorough. It should not terminate until every visible granule has been removed, and until the membrane held is thin and translucent. It is most desirable that this should be accomplished without tearing the conjunctiva or unnecessarily denuding it of its epithelium. It is only with the Knapp's forceps that these results can be obtained in deeply infiltrated cases and, in such cases, the operation may very well take twenty minutes in the hands of an expert. In regard to the infliction of trauma, the main point is not to tear the conjunctiva, but if necessary, the forceps should be rolled over the membrane again and again and considerable vertical pressure should be exerted until all the granules have been expressed not only from the surface feels smooth to the finger cannot be too strongly condemned.

The use of

The use of the bandage has been discontinued at the Department's hospitals and The use of the bandage has been discontinued at the Department's hospitals and cold applications are used instead, for twelve hours in most cases and longer if oedema of the lids should persist. The bandage while probably limiting the oedema in many cases, seems to increase the density of the adhesions. Cold applications seem to give entire satisfaction. Adhesions are separated every twelve hours during the two days that the child remains in the hospital. In most cases, their tendency to reform to any extent, ceases at the end of this time. If they persist, they are separated in the morning clinic each day, for as long as may be necessary. Much has been said in relation to the infliction of trauma and the resulting formation of adhesions. Undoubtedly, the number and density of the adhesions are very generally proportionate to the amount of number and density of the adhesions are very generally proportionate to the amount of trauma inflicted, but, if in deeply infiltrated cases, a certain amount of bruising short of tearing the conjunctiva is necessary for the complete removal of the granules, the requisite amount of trauma should be inflicted and the resulting complications treated as they arise. Adhesions, for the most part, when not due to tears of the conjunctiva, can be separated and can be kept separated and, in the few cases in which they cannot, a slight adhesion remaining is not usually productive of any permanent ill results. The writer has seen but one case of entropium due directly to an operation for trachoma. In this case, the conjunctiva contained many dense adhesions, but the child had been In this case, the conjunctive contained many dense adhesions, but the child had been sent home immediately after operation and had never returned for subsequent treatment. Adhesions due to tears are, of course, more serious than those due to the agglutination of the temporarily denuded surfaces of the membrane, but it sometimes happens that division of the resulting band, when it is unattached in some part of its course, will give an excellent result. To conclude the consideration of the operation itself, it may be stated that, while gentleness in operating upon mucous membrane is always desirable, an operation for trachoma above everything else should remove all the trachoma granules.

the trachoma granules Except in very mild and superficial cases, the operation should be performed under ether or chloroform. Nitrous oxide gas alone should never be employed. It cannot be relied upon to maintain anaesthesia with safety for prolonged periods, and the congestion which it causes is productive of excessive hemorrhage which obscures the site

of the operation and very materially embarrasses the operator.

For the first few days following operation the silver salts are usually employed, until such secretion as may exist has been checked. The patient then returns to the hospital twice or thrice weekly for the application of the sulphate of copper. This treatment is continued until all hypertrophy has disappeared and the membrane presents a normal appearance. When the operation has been and the membrane presents a normal appearance. When the operation has been properly performed and the after treatment has been persistently carried out, the results are, as has been already stated, very generally satisfactory. It is indeed most gratifying to observe a case in which, previous to the operation, the membrane has been studded and infiltrated with hard granules, presenting after a few weeks an appearance frequently differing not at all from the normal. Such cases are exceedingly common. Others, perhaps, will present, upon close inspection, a few cicatrices, and cases with one or two slight permanent adhesions sometimes occur, but, as already stated, these abnormalities in the conjunctiva, when but slightly marked, do no harm, although they are, of course, to be avoided as much as possible.

as much as possible.

The patients who live in the vicinity of One Hundred and Eighteenth street return to the hospital for after treatment; those living in the lower part of the city, to the dispensary at Gouverneur slip. The final results in the former are somewhat better than in the latter, for the reason that the former are as a rule much the more persistent in attending to after treatment, and their smaller number renders them much more easy to manage by the School Inspectors upon whom the responsibility of enforcing the subsequent visits largely depends.

Cases of pannus are sometimes met with. These are treated by the ordinary methods. In addition to expression, atropin and hot applications are employed, and canthotomy when necessary. Canthotomies in these cases are often followed by very excellent results. In cases of pannus, in which the granules have been replaced by cicatricial tissue, linear scarifications repeated twice or thrice weekly are of decided benefit. If in examining his cases before operating an active pannus is discovered by the operator, he very generally defers operation until the acuter symptoms have subsided. In cases with considerable secretion operation is also deferred until the secretion has been checked, for otherwise excessive reaction is very liable to follow.

There is a peculiar form of ulcerative keratitis which sometimes follows an operation for trachoma, and which may occur even when the operation has been apparently most carefully performed. It has occurred several times at the department's hospital, and has been as frequently observed in cases that have been operated upon at other institutions. The keratitis is most probably due to infection of a minute abrasion of the cornea, but it must be stated that it has occurred in cases in which the cornea, examined by the oblique focal illumination both before and after the operation, has revealed no abrasion. These cases are apt to be serious, and the ulcerative process may require cauterization before it is checked.

it is checked.

of the Trachoma Hospital show one operated upon. In this case the patient had been discharged in apparently good operated upon. In this case the patient had been discharged in apparently good condition after operation and returned two days later. The eye was then secreting profusely, the secretion being loaded with streptococci and a fibrinous exudate was present. There was a sloughing corneal ulcer. In spite of treatment the whole cornea sloughed, and the eye was lost. The case did not differ in appearance from those diphtheritic cases described by Fuchs, in which streptococci are found instead of the Loeffler bacillus. In these cases Fuchs states that the prognosis for the eye is practically hopeless, and this statement the writer has unfortunately had ample opportunity to confirm. The infection probably took place in the child's home. It is of course possible that if this case had been retained in the hospital longer infection might not have occurred. This gives an eye mortality under the department's method of about 1-200 of 1 per gives an eye mortality under the department's method of about 1-200 of 1 per cent.

In the 10,000 patients operated upon no death has occurred from the anaes-In the 10,000 patients operated upon no death has occurred from the anaesthetic, and in the last two years it has not been necessary to administer oxygen or stimulants in a single case. Ether, preceded by nitrous oxide gas, has been generally employed. Chloroform is used in cases with kidney lesions. The condition of the heart, lungs and kidneys is always determined before operation. The average amount of ether used in each case is about two ounces. Expression under local cocaine anaesthesia has been tried, cocaine in substance and in solution having been employed. Except very mild cases the results have not been satisfactory. Ethyl chloride given by an anaesthetist accustomed to its use produced dangerous symptoms in two cases, and after a short trial its use was abandoned.

In speaking of the results achieved by the City in the treatment of trachoma it is very difficult to give satisfaction by means of figures. Many cases change their residence and disappear from observation, and many relapses are doubtless operated upon at other institutions. An attempt was made during the present year to report upon the condition of 700 cases selected indiscriminately from among those operated upon during the two previous years. These cases lived in widely separated parts of the city, and the tracing of them was exceedingly difficult. Less than 300 could be found, and the results in these showed 71 per cent. of cures, the word "cure" meaning that no follicles and no hypertrophies existed. Still, these figures give a very inadequate idea of the permanency of the results, for the length of time elapsing between the examination and the operation varied very greatly in the individual cases, and no attempt was made to distinguish the cases that had been mild and those that had been severe in character. However, as representing the gross results in cases selected indiscriminately from those operated upon during a certain period, these figures are certainly to be regarded as encouraging. Perhaps the best judgment of the results of the department's work is to be found from the following more general statement. First, the number of cases in the schools, in spite of the continued infection from the tenements, is decidedly diminished. Secondly, cases of trachoma are much less numerous in the eye hospitals of this city than they formerly were, and the number of advanced cases and of those requiring operation is very materially less. Thirdly, the number of cases found in the public baths during the past summer was not one-third of that found two summers ago. In view of these facts it would not seem too much to state that the number of cases of trachoma, and particularly of the bad cases, in New York City has very much diminished since the department began its work four years ago, and it is perhaps not too mu

semination of instructive interature among the families of those infinited, trachoma in New York City could in a few years be reduced to a very inconsiderable factor.

Examination of the visual acuity of 1,000 school children, instituted in 1904, shows that in about 30 per cent. vision was defective in one or both eyes. In consequence of this result, the further examination of all school children was recommended. This work has been carried on up to the present time by the School Inspectors, and the results obtained and the methods employed will be found in another part of this report. In April, 1905, the attention of the Department was called to the possibility of limiting the deleterious results which so frequently follow ophthalmia neonatorum, occurring in the practice of midwives. The reporting of such cases to the Department was insisted upon, and each case reported was visited by an Inspector, who informed the parents of the destructive nature of the affection and advised them to place the infant under the care of some qualified physician or to take it for daily treatment to some institution. Midwives were instructed by circular in the treatment of Crede, and were informed that the nitrate of silver solution would be provided gratis at the Department. The results of these methods have apparently been very satisfactory. Many cases were reported and many midwives applied to the Department for Crede's solution which, considering the fact that requests for it are still frequently made, must be in very general use. It is very certain that these measures have been productive of the tumost good, although it is for obvious reasons, difficult to give figures in this connection. The cases of eye disease occurring in the scarlet fever, measles, diphtheria and small-pox hospitals during the year 1906 deserve a passing notice. The case of diphtheritic conjunctivitis are very properly divided into those in which the Loeffler bacillus and those in which the streptococcus predominates. In the former class of cases the pro

tically fatal.

Cases of dacryo-cystitis have occurred in cases of diphtheria, measles and smallpox. They have been treated in the usual way and the results have been very good.

The corneal affections occurring in measles have been observed to differ very greatly in severity, in different series of cases. Frequently enough the ordinary treatment by means of atropine and hot water, followed later by the yellow oxide ointment has given excellent results. In other cases, the ulcerations have only been checked by the actual cautery. Two such eyes have been lost. In other cases, the infants were markedly

Hypopyon keratitis occurring in cases of small-pox has generally resulted in the loss of the eyes. One case was, however, saved by cauterization and paracentesis. The case recovered with a large central leucoma but sufficient of the cornea remained clear to enable an artificial pupil to be satisfactorily made.

REPORT OF INVESTIGATION CONCERNING THE SUBWAY TUNNEL.

BOROUGH OF MANHATTAN.

I. This tunnel is to be the extension of the subway, and will when completed reach from the Battery, Manhattan, to the foot of Joralemon street, Brooklyn, passing under the East river. The boring operations are now nearly completed, only about 60 feet of sand separating the shields which are being driven from the Brooklyn side from

feet of sand separating the shields which are being driven from the Brooklyn side from those worked from the Manhattan end.

2. The tunnel will consist of two separate, single track tubes, each 15½ feet in diameter and about 6,000 feet long. They are being constructed in the usual manner, by means of segmental iron rings built up and bolted together from the inside. The work now proceeding is at a point approximately midway between the Manhattan and Brooklyn shafts, and about 76 feet below the surface of the river. The material being excavated is sand, although a considerable part of the work has been through rock.

3. The contract is part of that let by the City to J. McDonald, but the sub-contractor responsible for this part of the work is the New York Tunnel Company, of No. 42 Wall street.

42 Wall street

4. The methods of working practically duplicate those in vogue at the other tunnels on which we have previously reported. The only novel feature is that the only part of the tubes where air pressure is maintained is at the portions 200 or 300 feet behind the shields, the rest of the tubes being complete except for laying the tracks. It is thus possible to descend the shaft at the Battery, for instance, and walk more

It is thus possible to descend the shaft at the Battery, for instance, and walk more than 2,000 feet out under the river, surrounded only by ordinary atmospheric pressure; and communicating passages have been broken from one tube to the other through the rocky part of the river bed in several places, so that it is easy to pass from one tube to the other without going back to the shaft.

5. We found the air locks located about 2,300 feet from the bottom of the shaft. At the time of inspection the air pressure was 38 pounds. Each tube has only two air locks, an upper which is used only as an emergency lock, and a large lower lock used both for a muck lock and for the passage of the men. They are not provided with pressure gauges, time pieces nor thermometers. A lock tender was found on duty at this point, but the air pressure was regulated from within the lock by members of the party. We timed one party coming out, and 20 minutes were consumed in the passage out of the pressure. passage out of the pressure.

passage out of the pressure.

These locks are connected with a warming apparatus, which warms the air in the locks when a party is coming out, thus removing the chill due to the expansion of the air. In this respect the warmers perform a useful function. But the coal fires used in operating them give off a large amount of noxious gases, which vitiate the air in the completed portions of the tubes outside of the pressure. When these fires are burning, it is almost impossible to breathe in the upper part of the tubes near the air locks.

6. The medical supervision of the men working in this tunnel, of whom there are between 500 and 600, is left entirely to the labor union. The physician of the labor union certifies the fitness of the men to work, and they are then put to work without further examination on the part of the contractors. The labor union also provides the lock tenders. There is no physician in attendance at the top of the shaft, reliance

being placed on medical aid summoned when required. A room is set apart for workmen who may become afflicted with caisson disease, however, and this room is provided with a medical lock. The hours of work are divided as follows: Two hours work, then four hours' rest, then two hours' more work. This constitutes a shift.

No medical rules are found posted.

The usual supply of hot coffee is provided, but none of the workmen were found availing themselves of it.

REPORT OF CONDITIONS RELATING TO PERSONAL SAFETY IN THE CONSTRUCTION OF THE SUBWAY TUNNEL.

On June 26 a communication was received from the Chief Clerk of the Coroner's se, stating that an inquest had been held to ascertain the cause of death of Galina office, stat Weikkola.

office, stating that an inquest had been held to ascertain the cause of death of Galina Weikkola.

The Coroner's jury, after investigation, came to the conclusion that the said Galina Weikkola came to his death on the 20th of May, 1906, by air embolism, the "bends." Furthermore, the jury censured the Contractors, S. Pierson & Son, for not giving the man a proper physical examination before allowing him to go to work.

An investigation was made by two very competent Inspectors of this Department concerning the conditions said to obtain in these two tunnels.

In regard to the first statement that a proper physical examination was not given before allowing the men to go to work, it was found that all applicants were given a full physical examination, and were rejected if not in good physical condition. Upon passing this examination each applicant is given a badge or pass, which he is required to show before entering the lock and commencing work. Signs in many different languages are posted in various parts of the tunnel and rooms where the workmen congregate, explaining the dangers of working under compressed air without physical examination, and other definite precautions.

Regarding the second statement that the workmen are allowed to pass in and out of the locks too rapidly, it was found that five minutes were allowed for the pressure in the lock to become equal to that in the tunnel, and that fourteen minutes were allowed to elapse in coming out of the tunnel, or before the pressure in the lock equaled the pressure of the external air. These times are customarily allowed in all tunnel work under the pressure existing at this particular situation.

Regarding the third statement that there were no proper air gauges in the locks so that the workmen could observe under what pressure they were working, it was found that the locks were provided with pressure gauges, clocks and thermometers. Regarding the accuracy of these gauges, it may be stated that the air pressure recorded on the gauge in the tunnel, on the gaug

work were all the same, namely, 34 pounds.

In regard to the first recommendation made by the Coroner's jury that some adequate means should be devised to prevent the workmen from giving their passes to any outsiders, and thus enabling them to go to work without a proper physical examination, it may be stated that the Contractors have taken the precaution of hanging notices at various places before the eyes of the workmen, telling them of the dangers to be encountered by any person or persons in doing the work without proper physical examination. If any person being thus informed still persists in entering the tunnel without a physical examination, it does not seem quite proper to hold the Contractors

In regard to the second recommendation that the Board of Health be more strict in the supervision of this work, and in seeing that all precautions possible are taken to prevent further loss of life, it may be stated that sufficient supervision is and has

been maintained.

SANITARY BUREAU. BOROUGH OF THE BRONX.

Compared with the year 1905, the work shows a decided increase, there having been more work performed in all divisions of the Department office.

Division of Inspectors.

In this division the energy of the Department was largely focused upon stables wherein cows were kept and milk produced, and also upon manufacturing plants, the various railway lines and other businesses which have in years heretofore by polluting the air with black smoke been the cause of very many complaints to the Department.

In pursuing our stable work every stable in this Borough wherein cows In pursuing our stable work every stable in this Borough wherein cows were kept has been inspected. In making these inspections addresses were obtained from our files of all persons to whom permits to keep cows had been granted since the establishment of the Borough government. Beside those, nearly sixty persons were found who were keeping cows without Department permits; against each one of the latter orders of the Board to remove cows were issued. The total number of stables found was 385. Against a great many of these stables orders of the Board were issued, many of which required radical structural changes. It is my belief, founded on many personal inspections of stables during the fall just past and the early winter, that in no previous year since the establishment of the Department of Health has there been such an improvement in the sanitary condition of cow stables as during the year just

personal inspections of stables during the fall just past and the early winter, that in no previous year since the establishment of the Department of Health has there been such an improvement in the sanitary condition of cow stables as during the year just past, and the resultant good to the public, especially to children, by the improvement of the milk produced in the dairies within this Borough, consequent upon the improvement of the sanitary condition of the stables and the methods in milking, cooling and handling the milk, can hardly be conceived of or computed.

Black smoke from factories, locomotives, etc., has for a long period of time been recognized by the Department as a nuisance and many orders of the Board have been issued against those responsible therefor. The instructions of the Sanitary Superintendent, a few months since, to criminally prosecute offenders, instead of the slower process of Board orders, have resulted in a remarkable change in conditions. In the spring and summer many were the complaints received at the Department relating to smoke; now there are practically none, nor have there been any for many weeks. The many arrests that have been made within the Borough, of offenders, have resulted in a remarkable clarification of the atmosphere along the railway lines and water from whereat many of the large factories are located. The amendment of section 96 of the Sanitary Code on March 14, 1906, by having become known to factory owners, has undoubtedly contributed to the betterment of conditions and many of the largest manufacturing plants have installed or are now installing smoke consumers. The old roundhouse of the New York Central and Hudson River Railroad on One Hundred and Friftieth street and Spencer place, the smoke from which was probably the cause of more complaints than any other premises or business, has been removed therefrom to a remote part of the Borough, and since its removal to its present location, not a complaint has been received relating thereto.

Board and Care of Children.

During the year just past the file of persons to whom permits to board and care for children had been issued since the establishment of this branch office has been gone over and every premises visited where a permit was in force. Many holding permits had removed or given up the business of caring for children. In all such cases permits were revoked. The total number revoked was 243.

Food Inspections.

Increase of work along this line has been very pronounced during the past year, as compared with the year 1905, both in the number of inspections made and the number of pounds of food destroyed. The appointment of an additional Food Inspector early in the year has contributed to the increase of work performed, while the transfer of our only Milk Inspector in February to Manhattan Borough has in a measure subtracted from the amount of work in the branch of the service which relates to inspection of milk. No inspections of milk are now being made in this Borough by Inspectors attached to this branch office tors attached to this branch office.

Division of Contagious Diseases.

There were more contagious diseases reported during the year than in 1905, largely due to the prevalence of measles during the first and second quarters. There was a very large increase in the number of visits to cases and the number of rooms disinfected and the number of persons removed to hospitals.

The increase of the number of children vaccinated during the year has been very

On December 11, 1905, the area in Manhattan Borough to be covered by The Bronx wagons for collection of goods for disinfection was fixed at One Hundred and Forty-fifth street to Ship Canal on the north, and during the year just past our wagons have covered said area. The area covered by our ambulances is still from Ninetieth street to City line on the north.

street to City line on the north.

On November 17, 1906, the lime-formaldehyde method of disinfection was discontinued and the permanganate of potash-formaldehyde method was inaugurated in its stead; after a few weeks' trial of the latter, by the order of the Acting Sanitary Superintendent, the lime-formaldehyde method was readopted.

The corps of Medical School Inspectors being a small one, the District Medical Inspectors are assisting in school work and each Inspector has two schools under his care; by this method about twenty schools are provided with Medical Inspectors, which is a great relief to our medical school work.

The schools in this borough, except in portions which are thickly built up, are widely separated, which means a great deal of time spent by Medical Inspectors in traveling from one school to another; therefore, but a few schools can be given to each Inspector and it has been necessary in certain of the outlying schools to have visits made only on alternate days. The corps of Medical Inspectors being small, the work which they have been called upon to do has been arduous, and although I have much desired to have physical examination made of pupils who are backward in their studies, to ascertain whether or not there were physical conditions which might account for dullness of mentality, I have not yet been able to do so. I would strongly recommend an increase in the number of Medical School Inspectors in our corps, that a physical examination of the pupils within our schools, conducted in a manner which has proved so satisfactory in the Borough of Manhattan, can be adopted within this borough. borough.

Comparative Table.

	1905. *	1906.
Division of Inspection.		
Number of citizens' complaints received	3,727	4,188
Number of complaints forwarded for orders	1,164	2,512
Number of complaints returned negative	1,979	2,135
Number of mercantile establishments visited	56	95
Number of manufactories and workshops visited	73	414
Number of stables visited	1,493	2,721
Number of sunken and vacant lots visited	875	1,775
Number of milk inspections	3,961	279
Number of pounds of food, fruit and meat destroyed	104,422	169,440
Number of fruit and food inspections	8,661	11,072
Division of Contagious Diseases.		
Number of visits to cases of contagious diseases	11,497	16,525
Number of visits to tenement houses	7,380	10,539
Number of visits to schools	6,010	6,637
Number of visits to private dwellings	3,801	5,411
Number of miscellaneous visits	1,035	1,110
Number of primary vaccinations	1,821	2,36;
Number of revaccinations	1,365	1,86
Number of vaccinations in schools	2,827	2,960
Total vaccinations	6,013	7,188
Number of certificates of vaccination issued	3,332	4,676
Number of children excluded from schools	887	1,041
Number of cases of diseases cared for by school nurses	22,508	36,095
Number of examinations of children by school nurses	2,574	58,295
Number of persons removed to contagious disease hospitals	456	834
Number of houses visited for disinfection	2,943	5,002
Number of infected rooms disinfected	5,610	8,545
Number of times ambulances and vehicles disinfected	628	. 858
Number of pieces of infected goods disinfected	5,501	7,245
Number of pieces of infected goods destroyed	743	1,125
Total number of inspections	21,173	29,402
Mercantile Establishments.		
Number of children interviewed applying for certificates	1,842	2,602
Number of employment certificates granted	1,295	1,515
Number of employment certificates refused	86	46

SANITARY BUREAU.

BOROUGH OF BROOKLYN.

Division of Inspections.

Division of Inspections.

Complaints—The number of complaints received during the past year is slightly less than the year 1905, which is due to the fact that a great many complaints are now sent direct to the Tenement House Department. There were 2,371 original complaints made during the past year. This is much less than the year 1905, one of the reasons being that during the summer of 1905 many original complaints were made by Inspectors investigating the prevalence of typhoid fever in this Borough.

Enforcement of Orders—The method of enforcing orders during the past year has been the same as heretofore. This method has not proven effective in a large majority of cases, for the reason that it is not even possible to secure the attendance of the defendant in court, and most of the judgments obtained are taken by default. Again, many of the Judges of the Municipal Courts are not disposed towards giving judgments for the Department, holding that proceedings are improper from a legal standpoint. The method used in former years, namely, that of instituting criminal proceedings against all those who fail to comply with the order of this Department, was far more successful, and the number of orders not complied with was always at a low figure. I most heartily recommend that this system be re-established.

Smoke Nuisance—A very small number of complaints of citizens in regard to the nuisances of this nature are received at this office. In cases where complaints are received it is almost impossible to obtain the necessary evidence of the violation of the Sanitary Code, as required by the Courts in this borough, for the reason that the complainants are averse to appearing in court to give their testimony. One hundred and one original complaints by Inspectors relative to the smoke nuisance were received; 41 arrests, 9 convictions, and \$725 was collected in fines.

Renovation After Cases of Tuberculosis—During the year 1906, 779 orders for the renovation of apartments which have been occupied by consumptives have been i

Shop inspections are also made throughout the borough. The appointment of additional meat Inspectors has made it possible to largely increase the number of shop inspections, consequently the efficiency of this work has been greatly increased.

Food Inspections—Two Inspectors are employed in the inspection of fruit, vegetables and foods other than meat and milk which are offered for sale in the stores in

tables and foods other than meat and milk which are offered for sale in the stores in this borough. Our reports in the matter of fruit condemned you will find to be much lessened this year over previous years, by reason of the fact that the inspection of all imported fruit is now done by the New York Office Inspectors, and credit, therefore, is given to the New York Office.

Employment Certificates—The work of issuing employment certificates is carried on as in former years, amendatory legislation tending to considerably eradicate cases of hardship which arose under the law as originally enacted.

Inspection of Mercantile Establishments—While no force of Inspectors has been provided to do this work, we are having our regular District Inspectors of the Division of Inspections make these inspections in the course of their usual work in their own districts, and have established a card system showing their inspections from time

own districts, and have established a card system showing their inspections from time to time. The number of convictions for violation of the Mercantile Law and the employment of minor labor in this borough has been very few.

The Sanitary Squad as at present constituted is entirely inadequate to meet the requirements placed upon it, and it is necessary in view of the rapid growth of the suburbs in this borough that at least ten (10) additional Patrolmen be added to the Sanitary Squad in order that the borough may be properly covered. Our force of eleven (11) Patrolmen and one (1) Roundsman is absolutely overworked under the

Division of Contagious Diseases.

The work of the Contagious Disease Division has proceeded very satisfactorily during the past year. At the beginning of the year we had an exceedingly great number of measles cases reported, which continued up to about the first of July. The borough is now divided into twenty-two (22) inspection districts, and the Inspectors are doing very excellent work.

The Medical School Inspection is carried on remarkably well, notwithstanding the fact that for the greater part of the year we had a very insufficient staff, due to the fact, in a great measure, that we had to place fourteen (14) extra men at work in the

district inspecting, owing to the prevalence of the measles epidemic above mentioned.

At the opening of school, September 10, 11 and 12, 1906, a general inspection was made of all the schools in the borough; a total number of 154,644 children being exam-Of this number, 1,320 were found to have pediculosis; 667 were found who had trachoma, of which 299 were excluded; 200 cases of skin disease were found, of which 25 were excluded; 266 were found who had conjunctivitis, of which 123 were excluded; and 160 were found who had blepharitis. This general inspection proved to be a very great blessing to the School Inspectors, simplifying their work very much as to their future inspections, placing all this vast number of children under observation, and, consequently, reducing the source of contagion to other children. The great diminution of the number of children is the best possible testimonial to the thorough work done during the first three days of school.

work done during the first three days of school.

In connection with the regular school inspections, the Medical Inspectors have performed vaccinations in this borough other than those performed at the Central Office by the physician detailed for that purpose, and by one Medical Inspector whose time is devoted to vaccinating those who apply by mail for vaccinations to be done at home, when not employed on some other special work. The total number of vaccinations for the year was 18,853, which is approximately 2,000 more than we succeeded in obtaining last year (1905). The increase in vaccinations may be accounted for by the fact that we have had some cases of small-row in this borough during the past four fact that we have had some cases of small-pox in this borough during the past four months, which may possibly have proven an incentive to people to secure a successful vaccination. The Medical Inspectors of Schools are doing very excellent and highly

creditable work. The Medical Inspectors detailed as Diagnosticians are doing most excellent work. They are working almost every day and even employed during the night, searching houses through the section of this borough occupied by colored people, for concealed cases of small-pox. In connection with the work of the Diagnosticians, they have caused to be removed to the Kingston Avenue Hospital for violation of quarantine, 137 cases. They have also caused to be closed 44 stores, due to an infectious or con-

137 cases. They have also caused to be closed 44 stores, due to an infectious or contagious disease in an apartment adjoining.

The Veterinarians of this Department, of which there are two, are doing very satisfactory work, maintaining a proper and strict supervision over all sales stables in connection with their regular routine work. During the past year cases of rabies have considerably increased, and in each instance we have been very zealous in obtaining the names and addresses of persons who have been known to be bitten, and sending the carcass of the dog to the Research Laboratory for examination, and thereby taking every means of safeguarding the public from any further infection of rabies.

The disinfectors of this Department have done most excellent work during the

The disinfectors of this Department have done most excellent work during the past year. Not once during the year has it been necessary to prefer charges against any one of them, excepting in one instance, and he was a man recently attached to this office and has since been transferred. Total number of houses visited, 19,145; total number of rooms fumigated, 23,866. This is far in excess of the work performed during the year 1905. As is apparent, the proportion of rooms fumigated to the number of visits is in excess of last year. This is due to the large number of rooms ordered fumigated by the Inspectors attached to the Division of Communicable Diseases, as it frequently occurs that the Inspectors of the Division of Communicable Diseases order

requently occurs that the Inspectors of the Division of Communicable Diseases order six and sometimes seven rooms to a case. Number of pieces of goods disinfected, 44.606: number of pieces of infected goods destroyed, 8,846.

The office staff is very efficient at the present time. The various files of the division were never in better shape. During the past year we have had added to the work of the division, the supervision and inspection of the babies boarded outside by institutions. That work was formerly looked after by an inspector, but we have found that the great increase in numbers called for the detailing of another inspector to assist the first. At the present time we are having visits made to every person to assist the first. At the present time we are having visits made to every person holding a permit to board and care for children, and we hope very shortly to make a recommendation to have, probably, as many as two hundred permits revoked for various reasons. After the old permits are revoked, and the number sifted down, we will have about three hundred and fifty children boarded out in this Borough which will require occasional inspection. The inspection of these children, and the calls made to new applicants will, undoubtedly, keep two inspectors busy. For that purpose we have two female inspectors detailed to this work, and their work is very satisfactory.

During the past year, also, we have undertaken to have the Day Nurseries visited regularly, and inspected the same as other institutions harboring juveniles. That is regularly, and inspected the same as other institutions harboring juveniles. That is once a month, and to intelligently keep a record of same. We are using an ordinary index card properly stamped, setting forth the average attendance, light, heat, etc.—in fact the pre-requisites to an intelligent and efficient record. This work is also done by a female inspector who has been for the past two years assigned as a regular

SANITARY BUREAU. BOROUGH OF QUEENS.

Work Performed by Inspectors, etc., During 1906.	
Inspections and reinspections	55,437
Number of orders issued	1,600
Number of pounds of foodstuffs condemned and destroyed	35,061
Permits issued	1,206
Number of employment certificates granted	1,015
Number of visits to contagious diseases	9,492
Number of children examined	178.003
Number of animals examined	8.810
Number of houses visited for disinfection	2,884
Number of rooms disinfected	3,404
Number of pieces of goods disinfected	2,195
Number of pieces of infected goods destroyed.	1,780
Number of stables inspected	3,915
Number of stables vacated	238
Number of cows removed from unsanitary stables	
Number of dairy stables now in existence	1,343
Number of things could stable new in contract	83
Number of "single cow" stables now in existence	55

Increase of Population in the Borough.

For some years past, beginning possibly at the time of the incorporation of the now Borough of Queens with the Greater City of New York, a steady increase of the population of this Borough commenced, and has steadily kept up. By this increase I do not mean the great crowds of pleasure and recreation seekers, coming for a longer or shorter stay, at the seaside resorts and amounting to above 100,000 on many days during the summer, but parties, families, etc., who find this Borough to suit their ideas of fresh air and healthful surroundings; they usually settle down for good, buy ground and build a home, or procure one already in existence—these form the increase of population. According to the figures of the Bureau of Vital Statistics, this increase is seen in the following schedule:

opulation of the borou	n in	1905	200.686
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And it must be remembered, all this, in the face of the rather scant means of transportation, the absence of an adequate sewerage system, and an increased price of ordinary commodities over those existing in the Borough of Manhattan.

Division of Inspections.

Division of Inspections.

Toward the end of September, 1906, a Division of Inspections for the Borough of Queens was created by the Board, and all inspectors at work in this borough were placed under its supervision, except those directly under the direction of the Division of Communicable Diseases. This was necessary for the reason that all Medical Inspectors do sanitary work as well as school work; these men therefore act in three capacities, viz.: School inspection work, Sanitary work and Contagious Diseases work, which answers well enough at present; there must, however, be a separation of the work in the near future, as the medical and contagious disease work increases with the increase in population. The sanitary work is also constantly increasing, faster than the increase in population for the reason given on the next pages, consequently absorbing too much time of the Medical Inspectors to properly attend to their duties. The few Sanitary Inspectors, not being able to largely increase their field of activity, it seems clear that if the Medical Inspectors are expected to do their work properly and attentively, the sanitary work must be performed by Sanitary Inspectors, and their number largely increased. The technical work they are called upon to do requires that experienced laymen should be assigned to do that kind of work, having practical training and whose mind is not burdened with a medical side of their duties.

During the year 1906, the total number of inspections amounted to 55,437; this must be considered as representing a great deal of work in a borough which spreads over so much territory, and which is divided in but twelve districts.

The sanitary work alone required 36,935 inspections caused by every possible kind of complaint, from the barking of a dog to the drainage or filling in of acres of swamp land. The most often recurring complaints are naturally those which deal with offensive odors, real, imagined or sentimental, but they all call for inspection, and if sufficient to cause a nuisan

Cesspools and Privy Vaults.

Cesspools and Privy Vaults.

Streets are laid out by private parties, such as realty companies, who buy up tracks of land from 5 to 500 acres, and by laying the land out in buildings lots, produce streets, sometimes way below or much above the grade which will finally become the real one, when taken over by the City. These companies often times provide for water and gas, but never for any sewerage facilities; when therefore the buyer of any such lots has his house built, he finds he has no drainage except that which the ground will absorb; he then builds a privy by digging a hole in the ground and placing a shed over it, the waste water is thrown upon the ground; this goes on, until the settlement which forms sooner or later crowds the original settler on all sides, and the method of disposing the waste and night soil becomes offensive—he is then in a bad fix, as well as his neighbor; the City has probably not taken over the street he lives on, and he can then only do two things, either build a private sewer alone, or together with his neighbors, or build a cesspool for himself, as the first is not always possible or practicable, the second is feasible and possible in all cases, but if the cesspool is tight, which it ought to be, the expense to have it emptied frequently if the cesspool is tight, which it ought to be, the expense to have it emptied frequently amounts to as much as the interest on the capital investment, as from \$10 to \$40 are charged by scavengers for emptying cesspools of but ordinary size; often we receive complaints on the same cesspools every two or three months. These conditions are done away with wherever sewers have been built and a water supply furnished. It follows logically that the next important matter is

Sewerage and Water Supply.

Sewerage and Water Supply.

From above described conditions can be gathered the fact that this borough is poorly off as to a sewerage system. In the older portions of the borough, sewers have been in existence for many years, but in the newly located and built up sections the sewers are few, although the Bureau of Sewers, under the present Borough President, has done all in its power to increase the number of sewers as much as possible, but the great territory to be covered makes this improvement a very expensive job, and necessarily slow. Wherever a sewer has been laid and a water supply is at hand, connections are ordered to be made by this Department. All public water supplied to the inhabitants of this Borough comes from driven wells located in various convenient localities for rapid distribution; there are at present seventeen pumping stations in existence, samples of water from each of which are taken each month and a complete sanitary analysis is made. They are reported usually of good quality, although those near the shores of bay or ocean contain a certain quantity of sea water, the sand through which the water pours being non-resistant and together with the natural chloride due to the nearness of the sea brings the chloride and mineral matter up to a high degree.

There is still a great deal of water used from wells, springs, and cisterns, the old inhabitants clinging with great tenacity to their springs and wells, most of which are wholesome and fit for use; cistern water depending on rain water from the roofs is still in existence, but its use is being discouraged and it is now only in certain sections where it is impossible to get any other kind of water that it is used to any great extent. It is for this reason that the keeping of pigeons is ordered to be discontinued wherever rain water is used for drinking purposes. It is surprising with what zeal the owners of these birds try to hold on to them, notwithstanding the fact that few are kept for any useful purpose.

Vacant and Sunken Lots.

Complaints against premises of that kind are constantly entered upon our books; they exist everywhere, the most usual cause for complaint is either the dumping or collection of rubbish upon them; the owner living probably far away and holding same only for a rise in value, neglects to look after their condition, and is usually most unwilling to do anything which might involve him in expense, as he receives no return from them. Fortunately we have a strong section in the Sanitary Code under which we can proceed successfully.

we can proceed successfully.

Such lots, however, upon which water has collected or collects from drainage, or the water is supplied by springs, or, as frequently happens, through raising the grades of streets surrounding them, are a constant source of trouble on account of the expense of filling in such lots until the grades are even with the surrounding ground. If, as before stated, a good sewerage system existed there would be but little trouble; the absence of such a system makes it impossible to get rid of the water except by filling in. A pond existed behind the Jamaica Station of about four blocks in extent, costing \$30,000 to fill up; if the material used had to be paid for, the amount of expense would have been \$75,000.

Cow Stable Inspections.

The Borough of Queens possesses to-day more cow stables and cows than any of the other boroughs of Greater New York, notwithstanding the fact that the number of cow stables has been reduced from 450 to 138, and the cows from 10,000 to 2,100. The greatest number housed at the present time under one continuous roof being 267.

Great progress has been made within the past five months—as the comparative table below shows:

the box house full of how extend to be soon as my working to the following the followi	August 1, 1906.	December 31 1906.
Number of cows in borough	2,782	2,155
Number of cow stables	219	138
Number of applications for permits pending		39
Number of sites approved by the Board	20	42
Number of plans and specifications approved by Board	4	21
Number of stables in process of building and renovation	51	109

Of the 138 stables now in existence, about 83 are dairy stables, and 55 are "single cow" stables. These single cow stables must comply with the following conditions:

1. A permit will be granted by the Board of Health for the keeping of one fresh

I. A permit will be granted by the Board of Health for the keeping of one fresh milch cow; milk to be used exclusively by the family of the owner.

2. Stable or stall eight (8) feet wide must be provided, with water tight floor (cement or asphalt not required), with shallow gutter in rear of same, with tight drain to sewer or cesspool. Glazed window, four (4) feet square, opening inward at proper angle so that current of air ascends, must be provided. The ceiling must be so arranged to prevent the sifting of dust from hay, etc., on the cow. The sidewalls of the stable and stall must be painted or whitewashed at frequent intervals.

3. Eight hundred (800) cubic feet of air space must be provided.

4. Proper and sufficient supply of uncontaminated water must be provided.

5. Cow to be kept clean at all times, and milking utensils not to be kept in stable.

stable

Manure kept in a tight box outside stable, and removed twice each week.

Dairy Stables.

The dairy interest in Queens is quite extensive and much money is invested in The dairy interest in Queens is quite extensive and much money is invested in farms, stables, cows and feed. In 1905, when the first rules and regulations for cow stables were formulated and became known among dairy farmers, they were quite astounded and very incredulous, because it was never known that any one could request more than a whitewash, more or less carefully applied, and the replacing of a rotten plank or two in the floor. All those who had this idea too securely fixed in their mind are now out of business, and in this, as in other mundane matters, it was "the survival of the fittest," the man who could see the need and use of a clean cow stable won out. What has been accomplished can be clearly stated:

1. Clean walls all around the inside of the stable.

3.

A sanitary base at the foot of the wall permitting no "dirty corners." Plenty of windows, plenty of light and sunshine. Ventilation by windows on the sides of the stable and above the roof by extending same.
5. Good drainage, good manure boxes and no saturation of the surrounding

ground. Healthy cows, improvement in the milk supply and cleaner cows.

SANITARY BUREAU.

BOROUGH OF RICHMOND.

The Sanitary Division in this borough consists of five Sanitary Inspectors, one detailed to each of the five districts comprising the five wards in the Borough of Richmond. Their duties consist of investigating citizens' complaints and general sanitary work in their respective districts. The work in this division has somewhat decreased in the last year, due to the lessening of citizens' complaints, as all houses on the line of public sewers have been properly sewer connected and the nuisances caused by privy vaults and cesspools abated. There is, however, a large area on this island, in the village of Southfield, which, from a sanitary point of view is in very bad condition, there being no public sewers, causing conditions which necessarily become a public nuisance. This matter has been taken up by the Department of Health and recommendations forwarded to the President of the Borough, which I have been informed has been the means of the construction of a large sewage system. have been informed has been the means of the construction of a large sewage system,

have been informed has been the means of the construction of a large sewage system, which will be begun in the very near future, and will abate this nuisance.

The vacant lots and stagnant pools which have been due to the contour of the ground and the construction of streets, have been largely abated by permission granted to the Street Cleaning Department to fill in with fresh earth and clean ashes, thus abating a nuisance which, prior to their having been filled in, were a source of complaint and a breeding place for mosquitoes.

All the ponds and the marshes surrounding the borough have been drained, the work having been done by Commissioner Doty under a special appropriation by the Board

The building of bulkheads along the water front and their filling in, and the carrying out of the sewer system to beyond low water mark, has improved the sanitary condition of the entire water front.

Contagious Diseases—The number of contagious disease cases during the past year exceeded that of the previous year, the increase being in the number of cases of diphtheria and measles. We have had no cases of smallpox in this borough, and typhoid fever has been decidedly on the decrease.

All cases of contagious diseases have been inspected by the Medical Sanitary Inspectors of this Department, and the household goods have been removed to the disinfecting plant for sterilization. This, however, has also been carried out in all cases coming under the division of Communicable Diseases, and in all cases of typhoid and tuberculosis

Stables—A general inspection has been made of all the stables in the Borough of Richmond, and a large number of orders issued, resulting in a very great improvement in their condition, one feature, in connection with their sanitary condition, being the prompt removal of the manure daily, or providing a properly constructed manure pit, which has been allowed in the outlying districts of this borough for the reason that farmers are compelled to keep the manure for fertilizer for their farms.

Milk Inspection—The milk inspection in this borough has been transferred to the Borough of Manhattan, consequently, the supervision and reports have been sent to the Central Office direct. There is but one Milk Inspector in this borough, and I am of the opinion that to keep a proper supervision over the milk dealers, there should

of the opinion that to keep a proper supervision over the milk dealers, there should

be at least three.
Cow Stables—There were in this borough at the beginning of the year 1906, one Cow Stables—There were in this borough at the beginning of the year 1906, one hundred and twenty-six cow stables where milk was produced and sold to the public and coming under the head of dairies. The inspection of the sanitary conditions of these stables was placed in charge of Dr. Nichols, the Veterinarian in this borough, who made a very exhaustive examination and found that they were by no means in proper sanitary condition. Orders were issued compelling them to bring their dairies up to the standard of those in other boroughs and issued from the Department in New York, requiring them to make certain changes in construction to conform to the rules and regulations of the Department of Health. This necessitated such extensive improvements that a majority of them were compelled to give up their business and dispose of their cattle. There are a few remaining who did not comply with the orders issued, and recommendations were made to the Department that their places be declared public nuisances, which orders were served upon them. It being impossible to remove cattle to the Pound in this borough, where premises are declared a public nuisance, their permits to keep cattle and sell milk were revoked, and criminal proceedings brought against them, so that I believe, at present, that all the dairies producing milk in this borough are up to the standard required by the rules of the Department.

in the Borough of Richmond in the thickly populated district is inspected every day

in the Borough of Richmond in the thickly populated district is inspected every day and in the outlying country district three times a week.

I believe that this systematic inspection of the schools has been the means of lessening epidemics of contagious disease which have cropped out in previous years.

More attention has been paid to the eyes of school children for the purpose of detecting trachoma and preventing its spread. All children thus infected have been excluded from the schools unless under treatment privately, or at some dispensary. Systematic vaccination in the public schools has been carried on by the Medical Inspectors, and there are no children attending school that have not been vaccinated. School Nurses—The District School Nurses appointed in this borough have done excellent work, but the territory is so large that they are only able to cover ten schools, five schools each.

There are thirty-three schools in this borough. The outlying country district schools

There are thirty-three schools in this borough. The outlying country district schools have received no benefit whatever from the school nurse system. I would recommend that at least three additional Nurses be appointed covering these schools, to carry on this

very important work.

The condition of the children in the public schools has very decidedly improved in the past year, due to the efforts of these Nurses in visiting their homes and in-

structing their parents where it was necessary.

Culture Stations—The establishment of culture stations has been of very great service to the physicians, and especially those living in the country districts, where they

are unable to get an early diagnosis or obtain antitoxin at short notice.

It is my opinion that this office should be kept open at night for the reception of cultures, distribution of antitoxin and ambulance calls.

Very great demands have been made for antitoxin, and it is being depended upon for immunization and treatment by physicians generally.

Ambulance Service—The ambulance service has been more prominently in demand this year than in prayious years, for the reason that the general practitioners are re-

Ambulance Service—The ambulance service has been more prominently in demand this year than in previous years, for the reason that the general practitioners are requesting that the cases of scarlet fever and diphtheria be removed to the Reception Hospital of the S. R. Smith Infirmary.

I would recommend that an additional Ambulance Driver be appointed to be on duty at the ambulance station during the night, as we receive numerous calls for the ambulance after four o'clock, and at present we are dependent upon the Night Watchman to remove the cases, and when he leaves the plant, there is no one to care for the fires or the hoiler.

man to remove the cases, and when he leaves the plant, there is no one to care for the fires or the boiler.

Meat Inspection—The inspection of meat has been carried on as in former years, especial attention being given to carcasses after slaughter. With our present force, which consists of one Inspector, the inspections of the shops are not as frequent as they should be. The Inspector detailed as Meat Inspector is also detailed as a Fruit and Food Inspector, and all other foods which may be offered for sale in markets or

There has been a large quantity of decayed fruit and vegetables destroyed during the past year, and also an inspection kept over the ice boxes and other places where

This work has been very satisfactorily carried on by Inspector Kerr.

Orders-There has been a very decided falling off in the number of cases brought for non-compliance with orders within the past year and we have but very few cases pending in court. Compliance with a very large majority of the orders has been brought about by personal effort on the part of the Inspector, the fact being generally known that if orders are not complied with, they will be prosecuted.

There are no lodging houses in the Borough of Richmond and very few tenement houses. We have had some trouble in tenement houses in having orders complied with, where references have been made to the Tenement House Commission. This matter I brought to your attention some time ago, and I believe since then the matter has been taken up and the reference orders more promptly executed.

Disinfecting Plant-The disinfecting plant has been in operation during the entire year with very satisfactory results.

When consolidated with the Greater City of New York, the working force was nearly twice as large as at present. From time to time it has been reduced by resignation or death until at present we are working with a very much reduced force and a decided increase in the demands made upon us.

The clerical force in the office is of sufficient size to keep the work up, but the force working in the field is small.

I have forwarded a request that certain divisions be increased, such as School Nurses, Sanitary Inspectors, additional Ambulance Driver and at least two additional men on the disinfecting and goods delivery wagon.

I believe that the work performed by the employees of the different departments in this borough has been done to the best of their ability, is of a high standard and has

NURSES' WORK IN THE DIVISION OF CONTAGIOUS DISEASES, INCLUD-ING THE MEDICAL INSPECTION OF SCHOOL CHILDREN.

The following report covers the work of the School Nurses and Contagious Staff in the boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond during the year 1906:

School Nurses—The year just finished has proved one of remarkable interest and profit to the school children, owing to the persistent teaching of cleanliness by the Nurses. The most gratifying result, perhaps, is the bright intelligent look in the faces of many of the children who used to look tired and careworn. This is principally due to the care given to the eyes, and the constant efforts of the Nurses in obtaining glasses for the children with defective sight, in many instances paying for the glasses themselves rather than see the children go without. The Nurses have taken a number of children to hospitals and dispensaries for the removal of adenoids and enlarged tonof children to hospitals and dispensaries for the removal of adenoids and enlarged ton-sils when the mother was unable to do so. The results are remarkable. Children formerly considered "defectives" are among the brightest and most studious in the class. The children are more careful in keeping the skin and hair clean; filthy clothes are now an unusual feature, and the air in the class rooms is decidedly better owing to the prevailing cleanliness.

Visits to Homes—The visits to the homes and parents of the children have increased owing to the more rigid examinations made by the Medical Inspector. When any defect of eyes or throat, such as enlarged tonsils or adenoids, has been recorded, the Nurses have visited the homes and urged the parents to have the defects remedied. A large per cent. respond and have the matter attended to at once.

Numerous cases of unreported disease, such as measles, scarlet fever, diphtheria tuberculosis have been found when making the visits. These were reported at and tuberculosis have been found when making the visits. These were reported at once and the cases isolated or removed to hospitals. Many other cases have been reported to the relief agencies through this office.

Contagious Staff-No change has been made in this staff. Two Nurses cared for the cases of scarlet fever and measles in the homes of the very poor when reported. Instructions were given as to the proper isolation and disinfection, etc., of each patient, the Nurses giving baths, making beds and helping prepare food where assistance was required. Through this instruction, many cases were reported to the Department of Health where formerly they were afraid to do so.

Suggestions—As the present staff of 53 Nurses is entirely inadequate for the amount of work required of them in the schools of Greater New York, I would suggest that the staff be increased to 100 Nurses. In Manhattan, each Nurse is required to inspect 8,887 children, treat any minor contagious disease found among them, assist the doctor while treating trachoma in the school and then visit as many of their homes as needs indicate.

(There are only 25 school hours in the week.) The average number of children inspected daily is..... The average number of children treated daily is..... The average number of visits to homes daily is.....

partment.

Medical Inspectors—There are five Medical Inspectors in the Borough of Richmond who also do general school work and their medical inspections. Every school and supervision is given by the Nurses.

DIVISION OF COMMUNICABLE DISEASES.

(General Progress.)

Well marked advances have been made along all the lines of work of the division. A few of the more important points will be noted.

Organization-The organization of the division has been perfected and is at the present time as follows:

- 1. Executive Office-The headquarters of Chief and Assistant Chief of division.
 - Five Borough Offices-Each in charge of an Inspector-in-Charge. 2.

3. Tuberculosis Clinics (Manhattan, Brooklyn and The Bronx)—All under the direction of the Chief of Clinics. 4. Diagnosis Laboratory-Under the charge of an Acting Assistant Director.

Culture Stations and Collection of Specimens-Under the charge of a specially designated Inspector.

All the above officers confer with the Chief of Division at the executive office every Wednesday at 10 a. m., when all matters pertaining to the work of the division are discussed, new procedures initiated, etc.

Executive Office.

On April 1, 1906, the congested condition of the executive office was greatly relieved by the removal of the office of the Inspector-in-Charge of the Borough of Manhattan to the rooms formerly occupied by the old chemical laboratory, the room vacated by him being taken by the Assistant Chief of Division and Chief of Clinics. During 1906 the offices were renovated, bookshelves installed, and at present they are most satisfactory in every way.

Carfare and Telephone Bills-The payment of the carfare and telephone bills of Nurses and Inspectors was transferred to this office from that of the Chief Clerk in the early autumn, materially increasing the clerical work of the office and placing considerable undesired financial responsibility on the Chief of Division. Owing to complaints having been made that the elevated railroad tickets issued to tube collectors were being sold, the purchase of such tickets was discontinued, thus increasing the amount of money which has to be advanced personally by the Chief of Division each month to about \$225. Even with the greatest promptness in forwarding bills, etc., the total amount thus advanced is often in the neighborhood of \$500. To obviate this, which is manifestly unfair, the emergency fund of the department in the hands of the Secretary should be increased about \$500, said increase to be at the disposal of the Chief of Division for advance payment of carfare bills. of Nurses and Inspectors was transferred to this office from that of the Chief

Manhattan Office—As stated above, the offices of the Inspector-in-Charge of the Borough of Manhattan were removed to the rooms formerly occupied by the chemical laboratory in the building at Fifty-fifth street and Sixth avenue. These rooms were ample in size, but in very bad condition. It being impossible to have the needed renovation performed by contract, the work was done satisfactorily by employees of the division, to whom thanks are due. For further particulars regarding the work of the office, reference may be had to the attached report of the Inspector-in-Charge.

Brooklyn Office—Because of the injunction obtained by persons residing in the neighborhood of No. 75 Henry street the offices of the division were removed on October 1, 1906, to No. 361 Jay street, a much smaller building but amply sufficient for the needs of the division. For information regarding the Brooklyn Clinic see report of the Chief of Clinics.

The Bronx Office—The Bronx office of the division was removed, along with the other offices of the Department of Health in that borough, to a new building at No. 3731 Third avenue. A large, light room was assigned to the division, where the work has been carried on very satisfactorily. For report of The Bronx Clinic see report of the Chief of Clinics.

Queens Office—During 1906, owing to the small number of employees assigned to this branch of the division, the office was maintained at the Manhattan headquarters. Arrangements have, however, been made for opening an office in Jamaica in the same building with the general offices of the department. This will be done about February 1, 1907, when the Inspector-in-Charge will take up his residence in the borough. A tuberculosis clinic should be opened in the Borough of Queens, probably in Long Island City.

Richmond Office—No changes have been made in the work in this borough. A tuberculosis clinic, held not oftener than once or twice a week, should be opened in this borough.

Tuberculosis Clinics—As shown by the report of the Chief of Clinics, great progress has been made along this line. A new clinic has been opened in the Borough of Brooklyn and all preparations made for the opening of one in the Borough of The Bronx. Some progress has been made in regard to the appointment of salaried attending physicians to the clinic, and it is hoped that these appointments will be made early in 1907. A lead-lined booth has been installed in

the X-ray room and a radiographic dark room in the cellar of the Manhattan Clinic, and it is hoped to begin active radiographic work early in 1907. New and improved history and record cards have been drawn up. These are intended for use in all the tuberculosis institutions of the department. Many favorable, incipient cases of tuberculosis have been sent to Ray Brook and Otisville. By arrangement with the Board of Education a number of children desirous of taking up athletics were examined at the Manhattan and Brooklyn clinics. Eighty-two boys were examined, and of these four were rejected, all for cardiac lesions. The dividing of the city into districts, each covered by a particular tuberculosis dispensary, has worked very well, and it is proposed to extend the system during 1907, new dispensaries entering into the arrangement. Attention is especially called to that part of the report of the Chief of Clinics dealing with this matter. Some 200 more new patients were treated in the Manhattan Clinic during 1906 than during 1905, and 1,800 more visits were paid to the clinic. The distribution of milk and eggs in suitable cases was further safeguarded by the assistance of visitors of the Charity Organization Society and of the Brooklyn Bureau of Charities. It is rumored that this distribution is to be discontinued during 1907 owing to lack of funds. It is a most valuable part of the work of the clinic, and it is hoped that arrangements will be made for its continuance.

Riverside Sanatorium-During 1906 the capacity of Riverside Sanatorium was increased by 46 beds. It now accommodates 116 patients. There being practically no accommodations for tuberculosis patients in the Borough of Brooklyn, 20 beds have been assigned to that borough. The sanatorium is full practically all the time, and there is a long waiting list. A number of favorable cases were transferred to Otisville during the year.

Stereopticon Tuberculosis Exhibitions—These exhibitions were a great success, every one being attended by a large number of people, and undoubtedly a great deal of good was done by them. In order to save expense a complete outfit consisting of lantern, lenses, oxy-hydrogen apparatus, etc., has been purchased, and it is proposed to give similar exhibitions in various halls throughout the city during the winter. The outdoor exhibitions will be resumed in the summer of 1907. Moving pictures and dissolving views will also be given.

Diagnosis Laboratory—Great improvements have been made in the Diagnosis Laboratory. Two rooms have been added and the entire laboratory renovated throughout, the walls and woodwork painted, new linoleum laid on the floor, new wall tables, gas and water supply installed. For particulars see report of the Acting Assistant Director. Almost 10,000 more diphtheria cultures port of the Acting Assistant Director. Almost 10,000 more diphtheria cultures were examined during 1906 than during 1905, the increase being almost entirely in cultures from other boroughs than Manhattan. This is very gratifying, showing that physicians in the outlying boroughs are utilizing the services of the laboratory. Three thousand more specimens of sputum were examined, the total being over 21,000, an increase of over 20,000 in ten years. Almost one-third of these showed tubercle bacilli. The number of specimens examined for the Widal and Diazo reactions and for the presence of malarial organisms was slightly increased over 1905. Eight thousand more preparations were made in the laboratory and 11,000 more culture tubes than in 1905.

Culture Stations-The culture station service throughout Greater New York during 1906 has been satisfactory in all respects. An improved tin box for supplies has been devised and distributed to 150 substations, and all the regular stations in Brooklyn were supplied with large steel cabinets. Very few complaints have been received from physicians.

Supervision of Communicable Diseases.

- I. Tuberculosis—For the first time the Department of Health can bring forward proof of improvement in the tuberculosis situation in the Borough of Manhattan. Almost 2,000 fewer new cases of the disease were reported during 1906 than during 1905, although additional precautions were taken to insure as complete registration as possible. It would seem as if the continued efforts of the Department of Health along this line are at last beginning to bear fruit. Late in the year the following important changes were made in the system of registration and investigating cases of tuberculosis:
- (a) The postal card notification by institutions was discontinued. Information as to all admissions, discharges and deaths is now obtained by telephone daily, three times a week, or weekly.
- (b) All such primary reports, including postal card reports from physicians, are filed according to the source of report, thus doing away with the necessity of keeping an institution book and a separate physicians' index.
- e) All cases are assigned to Inspectors and Nurses by telephone, the original blue record card being kept in the office and not sent out to the Inspectors.
- (d) Inspectors and Nurses are supplied with special note books, in which all data are entered. Samples of these are given herewith.

No. 1. Inspectors' Diphtheria Antitoxin Note Book.

DIPHTE NAME P	ATIENT OCTOR	PATIENT ADDRESS DOCTOR	Age	Date Rec'd	(How	Culture	Larynx Inv.	Intubate	Extubate		Day of Disease	Units Ant.	Later Inj.	Units	and Visit	3rd "	th ::	5th "	Number Imm.	Units	Devel. Diph.	Sent to Hosp.	Died	Hours after 1st Inj.	Cause
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No. 2. Inspectors' Tuberculosis Note Book.

TUBERCULOSIS NAME ADDRESS — FLOOR	REPORTED BY	Date	Age	M. F.	M.S.W.	Nation	Occup.	F. R.	THE	Complaint	Vol. Renov.	Fumig. To be done	Char. Premises	No. Rooms	Cu. F.	Bedding	Destroy Return.	Will Patient Return?	Should he do so?	At Home	Obs. Card	K. U. O.?	Not Found	日本の日本
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No. 3. Inspectors' Miscellaneous Note Book.

2849, '06, 1,500 Bks. (P)

MISCELLANEOUS NAME ADDRESS —FLOOR	REPORTED BY	Date	Age	M. F.	M. S. W.	Nation	Occup.	Disease	INSTRUCTIONS	
		REM	ARKS							
	-	REM	ARKS							
										*
		REM.	ARKS						-	
		REM	ARKS							
							-			, ,
No.		REM	ARKS							

221 L-1907

No. 4. Nurses' Tuberculosis Note Book.

2849, '06, 1,500 Bks. (P)

NURSE NAME ADDRESS —FLOOR	REPORTED BY	Date	Age	M. F.	M. S. W.	Nation	Occup.	/-	At Home	Not Found	K. U. O.?	F. R.	Char. Aid	Hosp.	Should Patient Return?	Disinf. Needed	Sanitary Inspection			
								1												
		REM	ARKS																	
													*							
		REM	ARKS																	
			s resy								9									
H was a second		REM	ARKS								ŧ									
		REM	ARKS																	
		REM	ARKS		-													141		

(e) The reports of all inspections and investigations during the preceeding twentyfour hours are obtained from the Inspectors and Nurses by telephone daily.

The above system has been introduced in all boroughs and has proved most satisfactory. There is a great saving of time, fumigations being done four or five days earlier than previously, less clerical work is called for, and the system of indexes simplified.
During 1907, it is proposed to begin periodic disinfection of the clothing, etc., of
tubercolosis cases at their homes. With the exception of Manhattan, the number of
new cases of tuberculosis reported in all boroughs was increased. Information was
obtained from the attending physician in every private case of tuberculosis on file in obtained from the attending physician in every private case of tuberculosis on file in Greater New York August 1, 1906. Results are given in the following table.

Tabulated results in the five boroughs of letters sent out to private physicians regarding tubercular patients under their observation:

	Manhat- tan.	Queens.	The Bronx.	Brooklyn.	Rich- mond.	Total Number.
Letters sent out	5,736	134	300	1,261	81	7,512
Replies received	4,126	105	203	822	81	5,337
Failed to reply	1,445	29	18	439		1,932
Returned, doctors not found	165	**		77		242
Cases recovered	266		22	39	8	335
Cases improved	231	43	31	156	35	496
Cases died	835	69	46	198	9	1,157
Cases worse	29	12	5	36	8	90
No change	52		6	30	5	93
Out of town	444		32		8	484
Out of borough	29					29
Under observation (in file)	2,001		60		7	2,068
Don't know, or out of doctors' super- vision	1,699	67	43	286	23	2,118

Typhoid Fever-Almost 33 per cent. fewer cases were reported during 1906 than during 1905, the great decrease taking place in Brooklyn (700). The number of deaths, however, remained about the same, the case fatality being 18 per cent. as compared with 15 per cent in 1905. There was another slight outbreak of the disease in the Borough of The Bronx in the same area in which an outbreak occurred in 1905. New folding cards have been devised to take the place of the old large history cards. The data obtained from the histories of all cases of typhoid fever reported have been tabulated and are attached to this report.

Cerebro-spinal Meningitis-Less than one half as many cases of this disease occurred during 1906, as compared with 1905—the death rate being reduced from 5.03 to 1.94. The case fatality was slightly increased, however. All data obtained from histories of all cases of cerebro-spinal meningitis reported, have been tabulated

and are attached to this report.

Pneumonia—The number of deaths and the death rate of this disease were about

the same as during 1905.

the same as during 1905.

Malarial Fever—As shown in a special report by Dr. Victor Neesen, M. D., concerning the deaths supposed to be due to malarial fever, it seems probable that a large proportion of such deaths are in reality due to typhoid fever or other causes.

Administration of Diphtheria Antitoxin—Diphtheria was more prevalent and more fatal in New York during 1906 than during 1905. About 1,000 more cases occurred (mostly in The Bronx, Brooklyn and Queens), and 430 more deaths. The death rate was increased from 3.6 in 1905, to 4.5 in 1906, and the case fatality from 10.7 per cent. to 12.8 per cent. The lowest death rate and case fatality occurred in The Bronx, being respectively 2.9 and 7.9 per cent. The work of the Inspectors of the Department shows the same good results as heretofore, the case fatality in their cases being only 6.9 per cent., including the moribund cases. A great majority of the fatal cases were those in which the Inspectors were called in on or after the third day of the disease. The majority of the patients received from 5,000 to 10,000 units of day of the disease. The majority of the patients received from 5,000 to 10,000 units of antitoxin. Of the 8,000 persons immunized against diphtheria, only two-tenths of one per cent. developed the disease. See the tabulations of results attached to this report.

Publications.

During the year the following books and pamphlets were prepared and issued.

1. "Report of the Clinic for the Treatment of Communicable Pulmonary Diseases." This was a bound volume, fully illustrated, and met with general approval.

2. "Handbook of the routine procedure and regulations of the Division of Communicable Diseases" (form No. 202L). This was prepared for the use of the Inspectors and Nurses, and leather bound, interleaved copies were supplied to each employee. It gives a full description of the work of the Division and has been widely distributed to physicians and laymen.

3. Pocket handbook giving list of culture stations, list of services rendered physicians by the Department of Health, etc. (form No. 206L).

4. Hand bills calling the attention to the danger of dry dusting and sweeping; printed in English, German and Yiddish (form Nos. 176L and 200L). (Sample herewith given.)

In addition, almost all the circulars and blanks of the Division have been revised and added to.

This opportunity must be taken to commend the work of Dr. Victor Neesen, Inspector in charge of the Borough of Queens, who rendered most valuable assistance in the preparation of the above mentioned publications and who had entire charge of the statistical tabulations of the Division.

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1461, '06, 5,000 (P)

DEPARTMENT OF HEALTH

THE CITY OF NEW YORK.

DIVISION OF COMMUNICABLE DISEASES

SWEEPING AND DUSTING.

In sweeping a room raise as little dust as possible, because dust, when breathed, irritates the nose and throat and may set up catarrh. Some of the dust breathed reaches the lungs, making portions of them black and hard and useless.

If the dust breathed contains the germs of consumption-tubercle bacilli-

If the dust breathed contains the germs of consumption—tubercle bacilli—which come from consumptives spitting on the floors, the risk is run of getting consumption. If consumptives use proper spit cups and are careful in coughing or sneezing to hold a handkerchief over the nose and mouth so as not to scatter spittle about in the air, the risk to others of getting the disease by living in the same rooms with the consumptives is mostly removed.

To prevent making a great dust in sweeping, use moist sawdust on bare floors. When the room is carpeted, moisten a newspaper and tear it into small scraps and scatter these over the carpet. In sweeping, brush these scraps of paper along with the broom and they will catch most of the dust and hold it fast, just as the sawdust does on bare floors. Do not have either the paper or the sawdust dripping wet, only moist.

the paper or the sawdust dripping wet, only moist.

In dusting a room, do not use a feather duster, because this does not remove the dust from the room, but only brushes it into the air. Walking

On floors does this also unless the floors are clean.

Use soft, dry clothes to dust with and shake them frequently out of the window; or use slightly moistened cloths and rinse them out in water when finished. In this way the dust can be gotten out of the room.

In rooms which have bare floors, in houses, stores, shops, school-rooms, etc., all dust can be easily removed after it has settled, by passing over the floor a mop, which has been wrung out so as to be only moist, not dripping

THOMAS DARLINGTON, M. D.,

President, Board of Health.

HERMAN M. BIGGS, M. D., Medical Officer.

Recommendations.

It is recommended: 1. That tuberculosis clinics be established in the boroughs of Queens and Richmond.

That the diagnosis laboratory be enlarged as described in the report of the Acting Assistant Director.
 That the necessary steps be taken for the early appointment of thirty attend-

3. That the necessary steps be taken ing Physicians for the tuberculosis clinics.
4. That the distribution of milk and eggs in suitable cases of pulmonary tubercu-

BOROUGH OF MANHATTAN.

Report of Inspector-in-Charge.

Office—During the first week of March the Borough offices of the Division at Fifty-fifth street and Sixth avenue were removed from the second to the fourth mezzanine floor (the old Chemical Laboratory). The old quarters were very small, badly ventilated and entirely lacking in facilities for the proper performance of the steadily increasing work. The new quarters afford ample room and every convenience. They culosis; files, indexes, etc.; (c) a room for all clerical work in the received new instructions and to complete the received new instructions. culosis; files, indexes, etc.; (c) a room for all clerical work in connection with the assemble to receive new instructions and to complete the record of their work for the past week; (b) a separate room for all clerical work in connection with tuberculosis; files, indexes, etc.; (c) a room for all clerical work in connection with the reports and records of bacteriological examinations in the Diagnosis Laboratory for diphtheria, sputum, typhoid fever, etc.; (d) office of Inspectors in charge of the boroughs of Manhattan and Queens; (e) office of Inspector in charge culture stations and telephone operator; (f) a large storeroom for all stationery and circulars of the division, which are arranged in numerical order, according to the form number of the blank, thus minimizing the work of taking stock.

When first occupied the new quarters were in a deplorable state, the walls, woodwork, etc., being sadly in need of renovation. Such renovation has since been done and the floors of the rooms covered with linoleum, so that the offices are very presentable and entirely satisfactory.

and the floors of the rooms covered with linoleum, so that the offices are very presentable and entirely satisfactory.

A plan of the offices and photographs of the various rooms are given herewith.

A Stenographer has been added to the office force, replacing two former Clerks, one resigning and the other being transferred to the Borough of The Bronx.

The work of the office having greatly increased, it was found necessary during the latter part of the year to detail a Medical Inspector and a Nurse to assist in the routine work. Numerous minor changes and improvements have been made in the methods of handling the various communicable diseases all of which will be described. methods of handling the various communicable diseases, all of which will be described later under their respective headings; as a whole the work has been carried out along about the same lines as heretofore.

The following chart shows the weekly number of new cases of and deaths from communicable diseases in the Borough of Manhattan during 1906.

Map of the Borough of Manhattan.

Illustrating the different districts assigned to the Medical Inspectors, Nurses and tuberculosis dispensaries. Red lines, Inspectors' district; blue, Nurses' district; green, dispensaries.

Inspectors.

District 1. District 2.

District 3.

Battery to Canal, Rutgers east of Broadway.
Canal, Rutgers east of Broadway to Broome street.
Broome east of Broadway to Stanton and Prince.
East of Broadway. Stanton, Prince to Eighth street, St. Mark's place, District 4. Astor place.

District 5. District 6.

District 5. East of Broadway, from St. Mark's place to Astor place.
District 6. East of Fifth avenue, Thirtieth to Seventy-ninth street.
District 7. East of Fifth avenue, Seventy-ninth to One Hundred and Third street.
District 8. East of Fifth avenue, One Hundred and Third to One Hundred and Twenty-fifth street.

District 9. North of One Hundred and Tenth street to Harlem river; west of Fifth avenue to One Hundred and Twenty-fifth street; north of One Hundred and

Twenty-fifth street to river.

District 10. North of Forty-fifth street, west of Fifth avenue to river.

District 11. Fourteenth street, north to Forty-fifth street; west of Fifth avenue

iver. District 12. Battery, west of Broadway, to Fourteenth street.

District 1. Battery, Grand east of Broadway.
District 2. Grand street to Prince, Stanton, east of Broadway.
District 3. Prince, Stanton, east of Broadway to Thirty-eighth street.
District 4. Thirty-eighth street, east of Fifth avenue, to Ninety-sixth street.
District 5. Ninety-sixth street, east of Fifth avenue to Harlem river; also One
Hundred and Tenth, west of Fifth avenue, to river.
District 6. Thirty-seventh street to One Hundred and Tenth street, west of

Broadway.
District 7. Battery to Thirty-seventh street, west of Broadway.

District 1. Department of Health Clinic—All of the West Side and The Bronx. District 2. Gouverneur—From Brooklyn Bridge, east of the Bowery to Grand street and East river.

District 3. Bellevue—Grand street, Bowery, Fourth avenue, Broadway and Fifth

to Fifty-ninth street and East river.

District 4. Presbyter street and the East river. Presbyterian-Fifty-ninth street and Fifth avenue, to Ninety-sixth

District 5. Harlem-Ninety-sixth street and Fifth avenue to Harlem river and

East river.

In order to facilitate the assignment of the work to the Inspectors and Nurses, In order to facilitate the assignment of the work to the Inspectors and Nurses, the above chart of the City is kept with the various districts outlined by, by means of different colored worsted, held in place by small tacks. The red lines indicate the Inspectors' districts; blue, the Nurses, and yellow, those of the tuberculosis dispensaries. As the districts are often changed during the year according to the amount of work in them, it frequently becomes necessary to change the boundary line of the Inspectors and Nurses, in order to equalize the work. Naturally, this can be done very easily by simply moving the tacks and thus avoid having to buy a new map each time.

Inspectors—The total number of Inspectors has remained the same, although two new Inspectors were assigned to the Division during the year—one to fill a vacancy caused by death, and the other being assigned to the Clinic.

The work of the Inspectors has been very satisfactory, 27,566 inspections having been made by them for the past year. Since the new procedure of assigning all work, and receiving all reports by telephone, went into effect, the work given out each day is completed within twenty-four hours. Complaints receive prompt attention and inspection and fumigations are done without delay or loss of cards, etc. in the mail spection and fumigations are done without delay or loss of cards, etc., in the mail. One unsatisfactory feature of the new system is, that in the inspection of dead cases, the Inspector occasionally calls so promptly that he finds the funeral in progress or being held, he not only disturbing the family, but being compelled to revisit a wake being neid, he not only the premises.

Nurses—The assignment of work to the nurses is done by telephone, just as in the case of the Inspectors. The advantages are many: (a) early instruction of the

patient and his family and prompt distribution of circulars of instruction regarding prophylaxis; (b) if patient should be kept under observation or is in need of assistance, the necessary action can be taken earlier; (c) information is obtained as to the failure of the patient to return to the address given after leaving the hospital; this information is important for the proper record of the case in the office and to prevent the exposure of others not properly informed as to the nature of the disease.

The force of Nurses has remained the same throughout the year, two having resigned and two having been appointed in their stead. The total number of their in-

spections amounted to 26,801, nearly the same as last year, notwithstanding the fact they had a less number of cases to keep under their observation at the various tuberculosis clinics, including that of the Department of Health, sent out their own Nurses to care for those cases they had under treatment.

The following table shows the number of visits made by Nurses to cases of tuberculosis under their observation:

Tabulation of the Work Performed by the Nurses of the Borough of Manhattan, Showing the Number of Visits to Tubercular Patients Under Observation in Their Respective Districts.

Year of the War party by	January.	February.	March.	April.	May.	June.	July.	August.	September.	October	November.	December.	Total.
District I	145	139	155	145	106	71	82	52	52	80	56	78	1,161
District II	85	59	64	54	58	37	44	34	33	31	31	42	572
District III	121	138	162	168	181	135	66	57	43	76	66	59	1,282
District IV	78	108	102	94	80	75	110	43	36	45	39	25	835
District V	86	59	54	68	61	57	46	52	57	57	50	64	711
District VI	115	94	66	61	73	54	49	40	37	43	46	43	721
District VII	174	163	161	159	162	120	127	35	43	84	63	87	1,378

The figures show that the greater number of cases needing a Nurse's care reside in the lower west side of the city, probably because there is no large hospital or

tuberculosis dispensary in that section.

Dispensaries—As previously stated, four tuberculosis dispensaries (including that of the Health Department) have agreed to district the city between them. (See map, page

When a Nurse finds a case of tuberculosis in need of medical care, she refers the patient to the dispensary in the district in which the patient resides.

The following table shows the number of cases under observation at the five tuberculosis dispensaries on a given date in March and August, 1906:

Table Showing Number of Tubercular Cases Under Observation by the Various Clinics.

	Cases	Under O Repo	bservation	n and		nder Ob Not Rep		n and			v Cases U				Under On Our Fil		Total N	umber of Observa	Cases I	Under
- 4	190	5.	199	6.	190	5.	190	6.	190	5.	199	6.	190	5.	190	6.	190	5.	190	6.
	April.	Aug.	Mar.	Aug.	April.	Aug.	Mar.	Aug.	April.	Aug.	Mar.	Aug.	April.	Aug.	Mar.	Aug.	April.	Aug.	Mar.	Aug
Gouverneur	4.	44	78	85			38			++			++		84	135	89	69	116	85
Vanderbilt			99	130			19	6	44			6	4.7		148	133	74	30	118	136
Bellevue Out-Patient Department.			131	79					**	**					150	166	114	101	131	79
Harlem Dispensary			29	35						44.				11	44	71			29	35
Presbyterian			112	66			75				**				157	202	121	66	127	66

Tuberculosis—The number of new cases of tuberculosis reported during 1906 was 12,693, a decrease of 1,388 cases from 1905, showing that the Department has made considerable progress in checking the disease. This decrease is evidently not due to the fact that hospitals, institutions, physicians, etc., have not complied with the regulations of the Department; on the contrary, the hospital census shows a marked improvement in the result obtained at each census. It is probably due in large part to the persistent and efficient work along various lines of the Department in enlightening the public at large of the dangers of the disease and how to employ proper prophylaxis.

in enlightening the public at large of the dangers of the disease and how to employ proper prophylaxis.

Of the 12,693 cases reported, the majority (6,975) institutions, 2,713 were reported by sputum, 1,626 by private physicians, 157 from other sources, 1,222 cases were reported by death certificates. These last comprised (a) cases not under the care of a physician at the time of death; (b) where the physician signing certificate had only been in attendance for two or three days prior to death; (c) institution cases dying within a few hours or days after admission, and (d) cases which the physicians failed to report during life; these were very few, and satisfactory explanations have been obtained in most instances. been obtained in most instances.

The following table shows the localization according to wards of the new cases reported during each month for the years 1904, 1905 and 1906:

Tuberculosis Ward List, Borough of Manhattan, 1904, 1905 and 1906.

		Tanua	ry.		Februa	ıry.		Marc	ch.		April	
	1904.	1905	. 1906.	1904.	1905.	1906.	1904.	1905	1906	1904	1905	1906
Ward No. 1	12	12	12	17	17	12	18	15	12	17	17	10
Ward No. 2		2		1	1		2	16		2	20	- 2
Ward No. 3	4	6	1	2	4	4	8	21	4	2	17	- 2
Ward No. 4	24	20	38	19	19	42	32	52	60	29	26	44
Ward No. 5	7	14	9	11	.8	10	9	29	15	13	20	6
Ward No. 6	19	8	18	18	10	14	19	44	16	32	30	10
Ward No. 7	51	42	78	47	72	67	68	132	138	67	134	85
Ward No. 8	. 41	28	19	25	30	20	21	54	27	20	52	29
Ward No. 9	44	23	57	41	40	38	44	54	43	42	42	37
Ward No. 10	53	62	38	42	74	43	80	97	63	74	48	36
Ward No. 11	37	46	30	27	29	24	55	65	34	39	62	25
Ward No. 12	191	187	180	181	183	215	202	192	288	219	235	216
Ward No. 13	21 ,	16	13	18	23	14	39	34	25	38	15	12
Ward No. 14	12	5	17	11	6	10	29	25	22	41	18	14
Ward No. 15	17	8	23	16	12	13	20	35	18	27	29	9
Ward No. 16	30	50	40	24	36	27	34	44	42	36	39	26
Ward No. 17	56	59	81	66	45	62	89	76	120	120	60	80
Ward No. 18	52	50	49	52	42	43	59	40	74	57	81	32
Ward No. 19	126	137	120	113	107	114	142	144	174	161	152	133
Ward No. 20	77	49	51	61	33	39	72	47	70	79	54	65
Ward No. 21	64	21	33	50	26	20	52	28	50	45	66	36
Ward No. 22	94	87	113	90	75	94	122	138	156	125	125	119
Total	1,032	932	1,020	932	892	924	1,216	1,382	1,451	1,285	1,342	1,028

				May.			Jun	e.		July.			Augus	st.
		1	1904	1905.	1906.	1904	. 1905.	1906.	1904.	1905-	1906.	1904.	1905	. 1906
Ward	No.	1	21	9	6	16	12	6	15	7	8	20	10	,
Ward	No.	2	1	5	4	1	16	3	20	3	2	2	12	
Ward	No.	3	2	28	4	1	19	4	22		2	2	13	
Ward	No.	4	18	11	14	9	23	18	25	10	8-	23	36	18
Ward	No.	5	10	19	5	10	11	10	33	10	10	8	21	16
Ward	No.	6	27	14	15	16	19	28	28	18	9	21	18	20
Ward	No.	7	59	164	56	69	138	82	159	65	55	50	125	69
Ward	No.	8	32	47	23	28	37	19	33	7	28	11	4,1	33
Ward	No.	9	38	44	51	48	26	64	31	53	55	52	37	47
Ward	No.	10	39	53	36	40	38	61	34	62	33	42	48	60
Ward	No.	11	33	28	23	35	26	34	30	47	51	25	36	38
Ward	No.	12	204	184	206	186	163	263	195	201	210	197	228	230
Ward	No.	13	36	10	23	15	17	23	11	21	23	21	29	34
Ward	No.	14	26	10	20	14	11	20	17	17	16	17	10	22
Ward	No.	15	25	29	17	16	23	5	27	17	12	18	38	18
Ward	No.	16	39	25	32	24	31	38	28	4.5	26	23	32	44
Ward	No.	17	. 88	65	68	94	74	92	66	97	67	62	89	80
Ward	No.	18	58	62	49	51	58	55	37	51	38	50	49	57
Ward	No.	19	157	148	125	129	131	154	140	140	95	110	132	134
Ward	No.	20	83	15	59	94	33	58	18	86	56	67	24	67
Ward	No.	21	53	69	39	45	67	52	97	60	37	42	66	49
Ward	No.	22	103	76	121	158	127	138	160	131	112	134	107	132
	Tota	d	1,152	1,125	996	1,099	1,100	1,227	1,226	1,148	953	997	1,201	1,182

		S	eptembe	er.		Octobe	r.	N	ovemb	er.	D	ecembe	er.
		1904.	1905.	1906.	1904.	1905.	1906.	1904.	1905.	1906.	1904.	1905.	1906.
Ward No.	1	13	25	4	16	12	10	12	7	4	22	15	12
Ward No.	2	2	29		2	17	1		19	1	5	18	2
Ward No.	3	2	22		6	5	2	7	17	1	6	13	3
Ward No.	4	22	32	5	15	16	5	6	17	6	26	30	
Ward No.	5	15	38	11	9	19	.12	4	23	4	10	17	
Ward No.	6	18	38	19	24	15	23	23	22	18	28	20	1
Ward No.	7	49	175	71	62	130	59	49	97	66	66	106	6
Ward No.	8	28	47	26	16	41	15	7	40	15	34	27	2
Ward No.	9	39	60	54	73	24	21	49	32	43	52	62	5
Ward No.	10	65	56	70	61	19	49	63	28	27	62	34	4

Ward No. 20.....

57

	S	eptemb	er.		Octobe	er.	N	lovemb	er.	D	ecemb	er.
	1904.	1905.	1906.	1904.	1905.	1906.	1904.	1905.	1906.	1904.	1905.	1906.
Vard No. 11	44	35	42	34	14	31	. 18	22	34	51	40	31
Ward No. 12	150	239	222	190	149	166	156	203	170	233	147	222
Ward No. 13	18	33	31	16	15	30	8	13	17	24	14	38
Ward No. 14	11	29	11	9	12	13	. 6	8	12	13	13	20
Ward No. 15	5	42	17	11	14	12	6	10	7	31	17	13
Ward No. 16	25	51	32	49	12	25	30	13	31	55	32	41
Waid No. 17	68	113	74	90	84	66	64	90	63	91	88	105
Ward No. 18	50	4.4	52	54	15	50	36	31	49	56	35	48
Ward No. 19	87	159	122	145	94	103	121	95	113	168	112	134

	S	eptemb	oer.		Octobe	er.	N	ovemb	er.	D	ecemb	er.
	1904.	1905.	. 1906.	1904.	1905.	1906.	1904.	1905.	1906.	1904.	1905.	1906
Ward No. 21	59	81	40	58	51	26	34	44	23	51	46	30
Ward No. 22,	99	177	127	115	108	112	76	119	101	112	107	108
Total	926	1,568	1,096	1,119	898	893	827	986	851	1,272	1,030	1,085

The reason that the greatest number of cases was reported from the Twelfth is probably due to the fact that it comprises a greater area and contains many ne larger hospitals; the Ninth and Seventeenth Wards, which are very much er in area and situated on the lower east side, contained many more cases in arison. The First Ward, which is chiefly a business district, had the leasting the week ending August 25, 453 new cases were reported, which happened just the time the hospital census was completed, accounting for this high figure; reek ending September 10 showed the least number (188).

Deaths from Tuberculosis-Below is a chart showing the number of deaths tabulated according to wards for the years 1905 and 1906:

Tabulation of Dead Cases of Tuberculosis According to Wards in the Borough of Manhattan for 1905 and 1906.

73

76

37

	Jan	uary.	Febr	uary.	Ma	rch.	Ap	pril.	M	ay.	Ju	ine.	J	uly.	Au	gust.	Septe	mber.	Oct	tober.	Nove	mber.	Dece	mber.
	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Ward No. 1	1	4	3	5	5	2	5	6	2	4	4	3	7	6	6		3	4	3	4	8	5	5	3
Ward No. 2				ī			1						1		1	1	1			1	1000	1		**
Ward No. 3	1			3	1	2		4	2		1	2	2			2	10		1		2		1	2
Ward No. 4	4	7	7	4	9	15	13	10	7	6	8	12	5	8	5	7	11	11	8	9	5	6	9	9
Ward No. 5	2	3	4	1	1	3	4	2	3	2		4	6	3	1	5	4	5	3	2	4	1	5	4
Ward No. 6	8	. 7	10	7	9	10	10	6	6	9	5	12	6	8	4	9	12	6	5	9	10	9	13	5
Ward No. 7	10	13	13	13	7	17	11	9	12	12	8	19	6	8	8	11	12	10	7	7	6	11	8	12
Ward No. 8	7	10	4	5	8	9	7	7	5	9	8	6	5	7	4	9	8	2	2	4	5	6	8	5
Ward No. 9	13	21	12	16	16	29	24	23	22	17	20	20	18	13	15	14	14	14	18	10	10	14	18	25
Ward No. 10	9	10	9	15	. 11	13	17	15	5	10	8	14	11	6	5	9	7	9	9	11	5	3	19	11
Ward No. 11	12	11	9	12	19	15	18	18	16	11	8	10	14	11	5	13	8	8	13	. 7	15	11	11	. 10
Ward No. 12	62	68	70	66	86	114	79	61	82	70	72	83	69	64	47	76	65	73	70	54	81	67	77	87
Ward No. 13	4	2	8	3	9	6	7	5	5	3	5	4	5		5	7	7	7	2	3	2	4	4	5
Ward No. 14	3	11	8	3	2	9	10	6	3	10	. 5	4	7	1	3	3	10	5	5	2	4	5	5	8
Ward No. 15	5	6	7	10	8	7	8	3	9	5	5	9	.6	8	6	6	8	3	7	2	8	3	5	7
Ward No. 16	13	9	17	10	9	19	15	13	11	12	10	16	14	11	9	9	22	17	12	15	9	11	11	18
Ward No. 17	22	20	20	20	19	20	- 24	14	17	21	19	16	16	16	13	19	27	22	5	9	11	17	22	27
Ward No. 18	15	15	15	14	23	17	20	15	11	12	17	23	16	20	10	15	20	11	18	12	14	12	16	21
Ward No. 19	48	58	46	50	61	78	75	66	58	47	52	62	69	49	62	57	51	63	34	40	41	51	70	74
Ward No. 20	25	20	27	16	26	27	36	29 1	13	35	19	16	25	21	17	19	31	22	21	21	24	33	22	37
Ward No. 21	22	13	16	20	16	23	17	18	13	19	23	20	18	22	20	10	21	23	16	12	8	19	29	25
Ward No. 22	36	41	46	32	47	50	64	46	43	53	27	56	34	38	19	40	4,2	52	38	31	41	44	52	45
Total	332	299	351	325	392	485	465	374	345	367	324	411	360	320	265	341	384	367	207	265	313	323	410	440

The largest number of deaths (170) occurred during the week ending November 17, the least (82) during that ending September 1. The Irish race lead in proportion to population, but no particular locality is affected, they being more or less scattered throughout the city. The Norwegian nation had the least, according to their

Tuberculosis Maps—The same tuberculosis maps are being used upon which have been recorded all new cases of tuberculosis occurring in the Borough of Manhattan for the past three years. Solid circles in different colored inks are used to indicate

each case. Black for 1904. Red for 1905.

Green for 1906.
And for the coming year brown will be used.
Private Physicians' Cases—As in previous years, information regarding every "private" case of tuberculosis was sought for from the physician who reported the

Tabulation of the replies gave the following results:
Letters sent out
Replies received
Failed to reply
Returned, doctors not found
Patient recovered
Patient improved
Patient dead
Patient worse
No change
Out of town
Out of Borough
Under observation (in file)
"Don't know" or out of doctor's supervision

In those cases where no information was received from the attending physician, it was obtained by nurses who called at the address given. In many instances it was found that some of the patients had died, others had left the borough, while some were being treated by other physicians. In only a few cases it was found that they had recovered.

A census of all cases of pulmonary tuberculosis in public institutions was taken March I and August I.

The table below shows the results of such census for the past three years:

		1903.		19	04.	19	05.	190	6.
	Jan.	May.	Oct.	May.	Sept.	Mar.	Aug.	Mar.	Aug.
Total number cases	899	1,170	1,303	1,557	1,553	1,828	1,830	1,993	1,719
New cases	166	36	229	197	47	246	186	183	187
Male cases							1,200	1,325	1,069
Female cases		****					630	668	650
Duplicates	733	1,040	1,074	1,360	1,506	1,582	1,644	1,810	1,532

The comparison of the census with the Departmental records should be minimized this coming year, as the institutions, in place of reporting, as heretofore, all cases by postals, now do so daily by telephone; the reports being acknowledged by postals on the day of receipt. All cards are filed under the respective institutions reporting same. This procedure obviates the possibility of any reports going astray while in transit to the Department. When the next census is taken (March 1), the cases on file in the Department should agree exactly with the reports from the hospitals.

Institutions—A few more hospitals treating tuberculosis have been added to the table showing the number of cases treated (obtained from their published annual reports) as compared with the number of cases reported to the Department of Health.

Table Showing Annual Number of Cases of Tuberculosis Treated and Number Reported to the Department of Health for Eleven Large Hospitals.

	1903.	1904.	1905.	1906.
St. Joseph's—				
Treated	1,565	1,707	1,699	1,699
Reported	1,090	1,240	1,406	1,474
St. Vincent's-				
Treated	122	111	37	
Reported	65	58	21	26
Seton—				
Treated	865	1,198	524	1,279
Reported	607	870	1,011	1,241
Lincoln—				
Treated	177	284	211	
Reported	170	222	295	
Metropolitan-				
Treated	1,009	2,507	2,928	
Reported	2,073	2,160	3,377	2,545
Manhattan State—				*
Treated				
Reported			60	107
Riverside—				
Treated				
Reported			23	110
Bedford Sanitarium—		4		
Treated			****	359
Reported			121	

or other party and the property of the propert	1903.	1904.	1905.	1906.
Bellevue—	10000		-	-
Treated				1,247
Reported			1,321	1,481
Montefiore—			N. William	1000
Treated		****		93
Reported			537	556
House of Relief—				
Treated	16.00			159
Reported			325	327

Lincoln Hospital no longer receives patients suffering from tuberculosis. The institution book which formerly recorded the weekly reports of tuberculosis from the various institutions will now be discontinued, as it will be a very easy matter to refer at any time to the report card index and obtain the desired information.

Duplicate Cases—The number of duplicate cases was 7,560, 1,546 less than last

Not Found Cases—The number of cases not found at the address given were in excess of those of 1905, probably due to the fact that more extended inquiry was made into the condition and whereabouts of the private cases.

Forcible Removals—It was necessary in only twenty-three instances to remove cases of tuberculosis to Riverside Hospital against their will.

A new order went into effect during the latter part of the year which made it more difficult to have patients removed against their will; (1) the consent of the attending physician had to be obtained; (2) a record of patient's sputum having been examined by the Department showing the tubercular bacilli; (3) or, physically examined by one of our inspectors, confirming the diagnosis; (4) others being exposed to the disease, especially children; (5) non-observance of prophylaxis.

Voluntary Renovation—Premises previously occupied by consumptives were voluntarily renovated by the owners in 388 instances; the landlord attending to same before a compulsory order was instituted against him.

Deaths from Pneumonia—Every death from pneumonia was compared with the

Deaths from Pneumonia—Every death from pneumonia was compared with the tuberculosis records, and very few, possibly no more than a half dozen, were found to have been reported previously as tuberculosis. Investigations were made in every such case and almost invariably a satisfactory explanation was obtained.

Typhoid Fever—This disease, as per accompanying chart for the last three years, shows very little deviation as regards the time of year when the greatest number of cases and deaths occur. During 1906, 1,713 cases were reported, 144 less than in 1905. The greatest number of cases occurred during the week ending September 15 (85), while the least, 5 in all, were during the week ending June 9. In addition there were also reported 153 cases which proved on investigation not to be typhoid fever.

The chart given below, tabulating the cases according to wards, shows that the greatest number of cases were reported from the Twelfth Ward. This, of course, is due to the fact that that ward is the largest and most populous. Ward I had the least, being a business district.

Tabulation of Cases of Typhoid Fever According to Wards in the Borough of Manhattan for 1905 and 1906.

	Jan	ary.	Febr	uary.	Ma	rch.	A	pril.	M	ay.	Ju	ne.	J	uly.	Au	gust.	Septe	mber.	Oct	ober.	Nove	mber.	Dec	ember
	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906
Ward No. 1	1	4			44		1	1		3			2		1	1	1	1	1	3	2		1	
Ward No. 2					1								. 1	1	1			2						13
Ward No. 3	**			1	1		1							4		1		4						
Ward No. 4			1		4	1			Y		1		1	1	3	1	1		1		3		1	
Ward No. 5						1		1		3	1	1			3	1	3	3		2			3	
Ward No. 6			1 .	1			2	1					3	ı	5	1		1	1	1	2			
Ward No. 7	3	2	3	3	2	2	6	4	4	4	5	4	8	6	12	13	22	20	12	0	15	10		
Ward No. 8	1	1		2		2	1				1,	1		2	1	2	1	2	1	2	1	1	2	
Ward No. 9	2		1		2		5	3	5		3	1	18	2	10	13	25	10	10	8		7		
Ward No. 10			2	4	1	1	3	1	r	3		4	3	5	8	5	4	9	6	8	2	6	8	
Ward No. 11	7	5	3	4	6	2	4	1	1		4	3	11	7	16	5	15	12	9	13	16	12		
Ward No. 12	35	27	18	17	13	17	18	16	13	17	19	18	44	32	89	49	119	131	46	75	46	69	62	
Ward No. 13	1	2		2	1		3		1		4	9	11	1	6	4	3	9	8	. 0	2	11	2	4
Ward No. 14		1			2	2		1	1		2			2		2	6	7		3			2	
Ward No. 15	2				1	1		3	2				3	1		6	2	6	4		2	3		
Ward No. 16	2	2	5	4 .	1	5	6	5	3		4	2	9	1	13	10	13	3	11	7	3	6		
Ward No. 17	2	2	2	1	3	3	3	. 1	3		3	2	10	4	13	3	9	-	4	6	,			
Ward No. 18	5	4	3	8	5	2	2	2	6	2	4	5	9	6	8	6	20	12	9	10	2	1		
Ward No. 19	7	7	4	14	8	13	10	8	5	3	9	9	17	12	34	26	33	32	17	28	16	32		
Ward No. 20	6	7	6	3	4	5	2	6	6	3	10	4	12	6	19	13	11	16	19	19	8	7	6	25
Ward No. 21	7	3	5	4	5	2	1	2	2	6	8	4	8	4	11	10	12	17	.,	15	10	13	8	11
Ward No. 22	13	6	10	8	10	2	9	4	. 11	6	30	5	24	17	60	36	43	50	47	39	33	27	17	21
	94	73	64		70	61		60	61		708		704	124		217	343	352		262	172	216	157	157

Disinfection and Fumigation—Bedding was fumigated in ninety-two instances; almost twice as many as last year, probably due to the fact that postals were sent to the Attending Physician requesting him to inform the Department when the case had terminated or gone to a hospital so that fumigation could be performed.

Routine Procedure and Forms—Beginning January 1, 1907, the large typhoid history will be replaced by a smaller folding card. This will be a great improvement over the one already in use. The old card was of such size that it became folded in the mail, making it hard to file or carry around by the Inspectors, while the new one will be in unison with the tuberculosis card, being the size of a postal.

Every case has been plotted on a large map, as was done in 1905. A photograph of the map is given herewith, showing that there was no special localization of the disease in any particular section of the city.

Inspection of Milk Stores—This was done in every instance where the source of infection was stated as being possibly due to drinking of infected milk. Some two hundred inspections were made, but in no instance did the Inspectors find anything wrong, either as to unsanitary conditions, or lack of care.

Dead Cases—The total number of deaths from typhoid was 325. During the week ending October 6, the largest number occurred, 20 in all; while the least was one, for the weeks ending Ianuary 13. March 3 and 24.

for the weeks ending January 13, March 3 and 24.

Tabulation of Dead Cases of Typhoid Fever According to Wards in the Borough of Manhattan for 1905 and 1906.

	Jan	uary.	Febr	ruary.	Ma	rch.	A	ril.	M	ay.	Ju	ne.	J	uly.	Au	gust.	Septe	mber.	Oct	ober.	Nove	mber.	Dece	mber.
	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Ward No. 1	1			1		44				1				ì		1	46-		.,		1			
Ward No. 2								**																
Ward No. 3																								
Ward No. 4																		1						
Ward No. 5										1				1			1	1		1				
Ward No. 6			1												1	1		1	1			u		
Ward No. 7					1	1		1		2	1	1	1	1	1	2	2			3				1
Ward No. 8		1	1													1		2						
Ward No. 9				1	1		1	2	2		r		1	2	1	2	1	2	4	3	2	1		1
Vard No. 10				1			2								1	2	1	1		1				
Vard No. 11		1							1						1	3	3	3		5		1	1	
Vard No. 12	6	4	3	7	4	3	4	5	3	3	3	6	8	8	8	5	16	12	17	16	7	13	9	10
Vard No. 13		r		1								1						1		1	1	2	1	1
Vard No. 14								1					1				1			1				
Vard No. 15						.,	1	1					1			2	1		2	2		. 2		
Vard No. 16	1						1	2		1		1	1		1		3			2		2		4
Vard No. 17	1		1		1							2	1	2	1		1	2		3	r	3	14.60	
Vard No. 18	2					1			1		2	1	1		1 .		4	1	2	1	1	2	2	3
Vard No. 19	1	1	4	3	2	2	2			3	1		4	3	7	2	8	7	4	4	1	4	2	7
/ard No. 20	1	1	2	4 -	1	1	1	2	1	2	2	3	1 -			1	3	4	5	4		5	2	2
Vard No. 21	1	44 .	1	2	1		1	3		1		1	2	2	2	1	2	1	2	1				
Vard No. 22	2	1	2		2		1	3		1	4	1	4	3	5	6	5	4	6	8	4	3		
										_	_									_			-	
	16	10	15	20	13	8	14	20	8	15	14	17	26	23	30	29	52	43	43	56	19	41	18	29

Cerebro Spinal Meningitis-The prevalence of cerebro spinal meningitis greatly diminished during 1906 as compared with the two previous years, only 679 cases being reported; two and a half times less than the year 1905. Of these, 36 the greatest number, occurred during the week ending February 21, while during the week ending December 29, there were only two. It is possible that this decrease was partly due to the fact that the Department of Health treated cerebro spinal meningitis as a communicable disease. Quarantine was extablished, disinfection and fumigation was done wherever it was necessary and all possible precautions taken against the spread

The percentage of mortality ran high, there being 545 deaths. In addition to the above, 80 cases were reported which on investigation, proved to be cerebro spinal meningitis.

All cases of tubercular meningitis are now investigated.

Disinfection and fumigation was done in 464 instances. In 228 cases the first report received was the death certificate. Many of these were hospital cases.

All cases were plotted on a large map as heretofore. The photograph of this map,

given herewith, shows the same distribution of the cases as in 1905—i. e., in the poorer quarters, around the periphery of the island, especially in the localities where Italians are most numerous.

Erysipelas—Of the 626 cases reported in the Borough of Manhattan this year, the majority were reported by the various hospitals and institutions. As yet the Department of Health has not strictly enforced the reporting of cases of erysipelas by physicians. It is hoped eventually to do this. The number of deaths were 190, the mortality

Malaria—Two hundred and twenty-four cases were reported; 31 of these were cases that died not having been reported during life. Every death from malara has been rigidly investigated, as it is so frequently found that the patient really died of some other disease, such as typhoid fever, puerperal septicaemia, etc.

(See separate report.)

Glanders-Only one case was reported. Abortion—There were only 56 cases reported for the entire year and these were principally reported by the hospitals and institutions. No definite action has been taken, as yet, as regards the compulsory reporting of this condition by the profession. A new form card, similar to the others in use by the Division has been devised.

Septicaemia—Only 25 cases were reported in the entire Borough of Manhattan.

Likewise, little cognizance has been taken of this for the present.

Tetanus—Of the 20 cases reported, all were visited by Inspectors. Injection of tetanus antitoxin was offered in every instance, but only 11 patients accepted same. The amount of antitoxin injected to each patient ranged from 5 to 20 c. c. The Inspector revisited the patient in ten to fourteen days, and in no instance, did they develop tetanus. The time of year when most of the cases were reported, was, naturally, the month of July month of July.

Administration of Diphtheria Antitoxin in the Borough of Manhattan.

The results obtained by the free administration of antitoxin in cases of diphtheria

in the Borough of Manhattan for the past, year are given in a separate report.

Immunization was performed in 5,586 cases. The slight decrease in the number of immunizations from last year's figures may be due to the fact that there were not so many outbreaks of diphtheria in the large institutions for children where widespread immunizations are necessary.

It may be of interest to mention the prompt and efficient work of the Inspectors. For the past year a record was kept of the time each Inspector attended to the call sent in, and it was found that in the majority of cases, they made their inspection within one and two hours of the time the case was reported.

Pneumonia-The prevalence of pneumonia for the past year has doubled; 1,456

deaths against 716 for 1905. Obituary—In the death of Dr. Thos. De L. Burckhalter, Medical Inspector in this Division, the Department lost the services of an efficient, faithful and honorable physician and one whose special training in contagious diseases, having been resident physician to the Willard Parker Hospital for a number of years, made him especially fitted for the work connected with this Division, and whose loss is regretted by all who were fortunate enough to be associated with him.

REPORT OF THE INSPECTOR IN CHARGE OF CULTURE STATIONS. BOROUGH OF MANHATTAN.

There are at present in the Greater City 297 drug stores acting as culture stations, of which 95 are "regular" stations visited daily by the Collector, and 202 "substations" sending specimens and obtaining supplies through the nearest regular station. These stations are divided as follows:

	Regular.	Sub- stations
Borough of Manhattan	26	154
Borough of The Bronx	10	29 2 16
*Borough of Brooklyn	41	2
Borough of Oueens	IO	16
Borough of Richmond	8	1

In The Bronx two new stations have been established and none discontinued. In Manhattan nine new stations have been established and four discontinued. In Brooklyn one new station has been established and one discontinued. In Queens two new stations have been established and one discontinued. The Brooklyn service has been improved by the illustration of thirty-three cability is the applies at the stations in Manhattan and eight large time. inets similar to those placed in the regular stations in Manhattan, and eight large tin boxes (see photographs). It is expected that the regular stations in the other boroughs will be supplied with cabinets during the coming year.

In Manhattan 135 of the substations have been furnished with large boxes which are properly divided to contain the various outfits, and as a consequence are kept in much better order than the small boxes formerly used. It is expected that all the sub-

stations will be furnished with these boxes in the near future.

During the year a vest pocket booklet (Form 206 L) containing a list of all the culture stations, the time of day when each regular station is visited by the Collector, the station to which each substation delivers specimens, and also condensed information for physicians in regard to the work of the Department of Health, was prepared and distributed and met general approval. distributed and met general approval.

A number of the substations are situated at a considerable distance from the near-est regular station, making it necessary for the Messenger to use the street cars, and agreements have been made with the proprietors of these stations to pay the carfares

In October the auditing of these carfare bills was turned over to me and I found that several of these stations regularly turned in bills which represented a visit every day in the month. In order to determine if this service was actually performed, I sent to each station a package of cards stamped with the name of the station and dates for the month of November, with instructions that every day that the Messenger called at the collection station a card, corresponding to the date of visit, must be left in the

These cards have been brought in by the Collectors, stamped with the date of rethese cards have been brought in by the Collectors, stamped with the date of receipt and turned over to me for filing. As this system has been in operation for only two months, it is impossible to give exact figures for comparison, but I believe that considerable saving will result. The regular stations have been visited once in two weeks by one of the Laboratory Assistants in a Department wagon and the stock of supplies replenished.

The substations have been inspected each month by the Nurses and requisitions for supplies made out when necessary. I have also personally inspected the condition of

In general, the condition of the stations has been very satisfactory and few com-plaints have been received from physicians, either in regard to lack of supplies or delays in the deliveries of specimens.

*Of the regular stations in Brooklyn, six only are visited on Sundays and holidays, the

The majority of the proprietors of the stations appear to take considerable interest in the work of the Department and are anxious to keep their supplies in good condition and make deliveries promptly. Considering the fact that the service is purely voluntary and without compensation, I think the results are as satisfactory as can be

There are still a number of culture stations which are not supplied with antitoxin and vaccine owing to the fact that the Chief Clerk declines to issue contracts for the same. The proprietors either do not keep the Department antitoxin or are obliged to purchase it and, of course, cannot supply it to physicians on free slips. This makes trouble for the druggists as physicians do not understand why one station should differ from another. It seems to me that this divided arrangement of stations is not satisfactory and that it would be better to have the distribution of all supplies and products under the control of the Division of Communicable Diseases.

STEREOPTICON PICTURE EXHIBITIONS ON TUBERCULOSIS. BOROUGH OF MANHATTAN.

The Department has long realized that the most important feature of the organized efforts to limit the spread of pulmonary tuberculosis now being made so generally throughout the world, is popular education. In its work it has sought to educate the public in various ways: By the publication and distribution of literature on the subject; by instruction given, verbally, by its Physicians and Nurses; by formal lectures and by co-operation with the various charitable and other organizations interested in the problem of the prevention of tuberculosis.

It is necessary, before any good results can be expected, to teach the simple everyday truths about the disease; its ready prevention; the possibility of its cure, and the proper care of those suffering from it. It is important, further, to interest others who, though not ignorant, are indifferent to the necessity of united energetic action on the part of the municipality in order to control this modern plague.

To further extend this work of popular education, stereopticon exhibitions were given in twenty-three of the public parks of Manhattan during the summer of 1906, illustrating various points in connection with the disease, and what is being done in various ways by the City to control it and to care for its victims. These pictures showed the ways in which the bacilli causing the disease are transmitted by the cough and expectoration of those who have it; by dust and air filled with particles of their dried sputum; the effect of the disease on the lungs; how overcrowded, dirty, badly ventilated rooms and tenements cause and spread it; how these conditions are being remedied by new building laws; how this Department cares for rooms infected with the germs of consumption by fumigation, and the removal and disinfection of the bedding and furnishings; how it cares for patients in Riverside Hospital and, finally, the possibility of the arrest and even the cure of the disease in country sanatoria such as that recently opened by the Department at Otisville Orange County the possibility of the arrest and even the cure of the disease in country sanatoria such as that recently opened by the Department at Otisville, Orange County, New York.

In addition, the following terse sentences of advice in English and Yiddish were interspersed with the views on the screen:

Consumption causes more deaths than any other disease. Nearly one-third of all the people who die between twenty and forty-five years of age die of consumption.
 If you want to know how to protect yourself and your family from consumption.

tion, take time to read these bulletins Consumption attacks especially those who live in crowded or badly ventilated

rooms. 4. Consumption is caused by the poison present in the consumptive's spit. The poisonous spit dries and goes as dust into other people's lungs.

5. A little poisonous spit, when scattered in dust, is enough to affect dozens of people. People who spit on the floors of their homes spread the disease.

6. Consumption is caused by the dust from dried spit. Workmen who spit on the floors of their workshops spread the disease.

7. People who spit on the sidewalks where women get it on their dreeses and

7. People who spit on the sidewalks where women get it on their dresses and take the poison home spread the disease.

Stop spitting, excepting into spittoons or into the gutters; you may have consumption and not know it.

9. Don't spit on floors. Don't spit in corners of rooms. You may have consump-

tion and not know it.

10. Don't spit on stairs. Consumption is caused by the dust from dried spit.

Don't spit on sidewalks.

If you have consumption don't give it to others by spitting. If you have not,

don't let others give it to you.

12. A consumptive who coughs and spits anywhere and everywhere is a danger to the community.

13. He is a danger to the neighborhood. He is a danger to the family. He will poison the house he lives in.

No. 14. A consumptive, who coughs and spits anywhere and everywhere, must be made to stop it. He is a danger to his family.

No. 15. If he will not stop spitting he must be reported to the Board of Health as a dangerous nuisance.

No. 16. A consumptive should spit into a cloth or paper which can be burned. If he spits anywhere else he is a source of danger to you and your family.

No. 17. A careful consumptive, one who coughs into a handkerchief and spits into it, or into anything that can be boiled or burned, is perfectly safe to be about you.

No. 18. Be kind to the careful consumptive, as you would have others be kind to you if you work of the careful consumptive, as you would have others be kind. you if you were sick.

No. 19. The only consumptive to be afraid of is the careless consumptive. He is a danger to the neighborhood. He coughs and spits anywhere and everywhere. No. 20. Sunlight and fresh air kill the poison in the consumptive's spit. In dark, damp or poorly ventilated rooms, the poison remains for months source of danger.

No. 22. Rooms which have been occupied by a consumptive should be thoroughly

No. 23. See that you have fresh air in your homes.

No. 24. See that you have fresh air in your work-shops. Don't live in a room where there is no fresh air. Don't work in a room where there is no fresh air. Don't sleep in a room where there is no fresh air.

No. 25. The trouble is that people don't let air enough or sunlight enough into

No. 26. If you suspect that you have consumption—if you have a slight persistent No. 20. If you are gradually, steadily losing weight—
No. 27. If you are beginning to feel tired all the time—
No. 28. If you have a slight feeling of feverishness every afternoon—
No. 29. Go at once to your family physician, or if you are not able to do that,

go at once to a dispensary. No. 30. Don't waste time or money on patent medicines or "Consumption Cures."

They don't cure. No. 31. Consumption may be cured, if taken in time, but usually not otherwise.

No. 32. Patent medicines do not cure consumption, most of them are practically alcoholic drinks in disguise.

No. 33. They brace you up for a little while, after that you are worse than before.

No. 34. "Consumption Cures" do not cure consumption. While you are taking them you are losing time, and time you cannot afford to lose.

No. 35. The treatment of consumption is fresh air day and night; rest, as much

No. 35. The treatment of consumption is tresh air day and light, rest, as much as possible; food, as much as you can take.

No. 36. Fresh air—day and night, summer and winter. Rest—all you can get.

Food—all you can eat—plain food, bread and butter and milk.

Fresh air rest food. These give you your chance to get well of con-

sumption.

No. 38. Medicine will help but it is not so important. Avoid alcoholic drinks if

have consumption. No. 39. Alcoholic drinks are particularly bad for persons suffering from con-ption. They do not cure—they kill.

sumption. No. 40. Few people were ever benefited by the use of alcohol. Thousands of peohave been ruined by it. No. 41. Self-indulgence and intemperance are very bad for the body. Vice, which

weakens the strong, kills the weak. Exhibitions were given at the following parks on the dates given below: July 30, Battery Park, foot of Broadway.

August 1, City Hall Park, Broadway and Chambers street.

August 3, Mulberry Bend Park, Mulberry and Bayard streets. August 6, William H. Seward Park, Canal and Jefferson streets. August 8, Corlears Hook Park, Corlears and South streets. August 10, Hamilton Fish Park, Houston and Willett streets.

August 10, Hamilton Fish Park, Houston and Willett streets.

August 12, Abingdon Square Park, Abingdon square.

August 13, Hudson Park, Hudson and Leroy streets.

August 14, Recreation Pier, Christopher street.

August 15, Washington Square Park, Fifth avenue and Waverly place.

August 16. Recreation Pier, Third street and East river.

August 17, Tompkins Square Park, Avenue A and Seventh street.

August 20, Park bounded by Seventeenth and Eighteenth streets and East river.

August 22, Stuyvesant Park, Rutherford place and Sixteenth street.

August 24, Unon Square Park, Broadway and Fourteenth street.

August 27, Madison Square Park, Broadway and Twenty-third street.

August 29. Alexander Hamilton Park, Twenty-seventh and Twenty-eighth streets,

Ninth and Tenth avenues.

August 30, Recreation Pier, Twenty-fourth street and East river.

August 30, Recreation Pier, Twenty-fourth street and East river. September 2, Park bounded by Thirty-fifth and Thirty-sixth streets, First and

Second avenues. September 5, Bryant Park, Sixth avenue and Forty-second street. September 6. De Witt Clinton Park, Fifty-second and Fifty-fourth streets and

September 7, Recreation Pier, Fiftieth street and North river.

September 10, Central Park, The Green.

September 12, John Jay Park, Seventy-sixth and Seventy-eighth streets and East

September 14, East River Park, Eighty-fourth to Eighty-ninth street and East

September 14, East River Park, Eighty-fourth to Eighty-ninth street and East river.

September 17, Jefferson Park, One Hundred and Eleventh to One Hundred and Fourteenth streets and First avenue and East river.

September 18, Mount Morris Park, Mt. Morris to Madison avenue, One Hundred and Twentieth to One Hundred and Twenty-fourth streets.

September 28, St. Nicholas Park, One Hundred and Thirtieth to One Hundred and Forty-fifth streets, St. Nicholas to Tenth avenue.

September 29, Recreation Pier, West One Hundred and Twenty-fourth street.

These exhibitions were most successful. Lasting about an hour, in each case they attracted and held crowds of people of all ages and social conditions, and, doubtless, many persons who could not be reached in any other way were influenced. With this encouragement and with a desire to extend their influence as much as possible, similar exhibitions were given on certain of the Recreation Piers.

The National Association for the Prevention and Study of Tuberculosis, impressed

The National Association for the Prevention and Study of Tuberculosis, impressed

with the novelty and value of these exhibitions, prepared copies of the slides for use in a traveling exhibition, in other cities of the country.

These exhibitions will be made more interesting and instructive by new photographs taken especially for them; the preparation and distribution to the spectators of a printed leaflet or card of information and instruction and the preparation of moving pictures, and continued during the winter as popular illustrated lectures, if possible, in connection with the Department of Education's lectures in the public schools. Arrangements will be made to give the picture exhibits again in the parks during the coming

REPORT OF THE INSPECTOR IN CHARGE.

BOROUGH OF THE BRONX.

The year just ended has been one of great accomplishment for the Division of Communicable Diseases in the Borough of The Bronx, and it closes with results eminently satisfactory to those whose duty it has been to assist in the work connected

with the Division.

During the year the office force has remained the same in number, although the personnel has been somewhat changed owing to the resignations and transfers. The general routine of work in the office has remained practically the same with the exception of a radical change in the method of handling the tuberculosis records, this change having been introduced by the Chief of the Division during the month of November. Details of this change will be found in the report of the Chief of

Tuberculosis Clinic.

Tuberculosis Clinic.

During the year preparations have been made for the opening of a public clinic for the treatment of communicable pulmonary and throat diseases, on the ground floor of the building now occupied by the Bronx Borough branch of the Department of Health at No. 3731 Third avenue. Plans were filed, contracts let, etc., and at the close of the year everything is practically completed. Most of the furniture and apparatus has been delivered from the manufactories, and unless something unforeseen occurs, the clinic will undoubtedly be opened by February 1, 1907. The space in the building devoted to clinic purposes has been divided into six rooms and two toilets, all arranged so as to allow of free ventilation by transoms, doors and air shafts. The rooms are:

(a) registration room; (b) patients' waiting room; (c) drug and coat room; (d) throat room; (e) female examination room; (f) male examination room; (g) toilet and wash room for Physicians; (h) toilet for patients. Each examination room and the Physicians' toilet and wash room are supplied with hot and cold running water. The furnishings of the clinic are of the same type as those in use in the other clinics maintained by the Department of Health in Greater New York for the treatment of communicable pulmonary diseases. The methods of keeping the records, the formulary, etc., will be the same as is now in use in these clinics. The establishment of this clinic will undoubtedly fill a long felt want in the Borough of The Bronx, as there are very many consumptives living in this borough who are without the treatment and without the treatment and without the treatment and without manufactories living in this borough who are without the treatment and without the treatment ment of this clinic will undoubtedly fill a long felt want in the Borough of The Bronx, as there are very many consumptives living in this borough who are without treatment and without means to procure the same from a private physician, and who will unquestionably eagerly embrace the opportunity to procure good treatment near their homes free of cost. The establishment of this clinic will also relieve to some extent the pressure on the clinic in the Borough of Manhattan, to which all The Bronx cases have now to be referred. A competent corps of physicians will be in attendance on the patients, and the clinic will be under the general supervision of the Chief of the Tuberculosis Clinics and under the immediate charge of the Inspector in charge of the Borough. in charge of the Borough.

Administration of Diphtheria Antitoxin.

The work of the Inspectors during the year has been commendable. Promptness and thoroughness has been the rule. The work in the administration of diphtheria antitoxin and in intubating has been successful in a high degree, as shown by the very small number of cases of secondary infection. In the matter of intubation we have been greatly aided by the staff of Physicians under Dr. Watson, Resident Physician at Riverside Hospital, North Brother Island. Calls upon him in cases for intubation where our Inspectors have not been immediately available, owing to absence upon other calls at the time, have been cheerfully responded to at once and the lives of many children suffering from laryngeal diphtheria have been preserved by this prompt and effectual action on the part of his hospital staff. There are at present forty cul-

Typhoid Fever.

During the latter part of the fall there was a sudden rise in the number of cases of typhoid fever reported to the Department in this borough. It was also noticed of typhoid fever reported to the Department in this borough. It was also noticed that a very large percentage, about 75 per cent., lived in a certain section of the borough not much more than half a mile square. The cases for a few days increased rapidly in number and reached on one day eighteen—a very large number for one day in this borough. Immediate steps were taken for the purpose of ascertaining, if possible, the cause of the outbreak, and for the purpose of eradicating the disease before it might gain a foothold which would make it a serious menace. The following measures were at once adopted: ing measures were at once adopted:

A house to house canvass of the infected district to locate hidden or unreported

cases, if any, or any cases not under the care of a physician.

2. The distribution of circulars of information to as large a number of families

living in the said district as possible. The visiting of all reported cases by Inspectors, and the instruction by means

of literature in precautionary measures.

4. The disinfection of apartments and bedding after the termination of the cases by death, recovery or removal to the hospital.

The inspection of all milk stores in the said district (there are thirty-four

of these).
6. The inspection of all stores selling raw food stuffs which might be a source of infection. This entailed the inspection in the said district of groceries, fish, fruit and meat stores to the number of seventy-six.

and meat stores to the number of seventy-six.

7. A chemical and bacteriological examination of the city water drawn from ten hydrants in different parts of said district.

8. An inspection of the watershed, its streams, lakes and shores, and of the reservoir in which this water is stored for consumption.

9. An inspection of the dairies and creameries from which milk is sent to the distributing stations for consumption in the said district. This of course could be done only in the case of the large suppliers of the district.

10. The keeping of all reported and discovered cases under observation of the Inspectors of the Department.

These measures were well carried out and an epidemic was fortunately averted. With the exception of the rise in the number of cases of typhoid fever previously mentioned, there has been a moderate number of cases only during the remainder of the year, a very small percentage for the size of the borough and its population, which is approximately about four hundred thousand.

Cerebro-spinal Meningitis.

Cerebro-spinal meningitis has gradually died out and there have been relatively very few cases reported during the year. Fumigation has been done at the termination of each case, except for some special and adequate reason.

A strict record of all other communicable diseases (pneumonia, erysipelas, abortion, malaria, etc.) has been kept during the year for statistical purposes and for future reference.

Deaths from malaria (so reported) have been investigated by the Inspectors in order to demonstrate whether the death might not have been due to typhoid fever.

All deaths from pneumonia have been investigated to see if the case has not been previously reported as one of tuberculosis. If so found, the attending physician has been communicated with and the premises fumigated and renovated if necessary. The matter has then been referred to the Assistant Registrar of Records for action if necessary.

Tuberculosis.

The supervision of tuberculosis constitutes one of the most important branches of the work of this Division. The nurse, in addition to her other regular work in tuberculosis, inspection of culture stations, etc., has had an average of over fifty cases of tuberculosis under her constant observation in their homes. The aid received by many of these patients from the various charity organizations of the City is worthy of mention and of great commendation. There were a moderate number of forcible removals of consumptives to the Riverside Sanatorium owing to bad sanitary conditions at the home and also to the dangers of infection of other members of the family.

conditions at the home and also to the dangers of infection of other members of the family.

There was a considerable increase in the number of cases of tuberculosis reported this past year over 1905. This is due apparently to large increase in population during the year—a fair proportion of this increase coming from the crowded and less sanitary portions of Manhattan. Physicians in general are more carefully reporting their cases, as are also the hospitals and dispensaries. General enlightenment of the public at large through the lay press and through the distribution of circulars in many languages by the Department of Health to afflicted families and others has caused the laity to be on the alert and to seek earlier medical advice than heretofore. The Bronx also shelters a very large number of tuberculosis cases in Seton and St. Joseph's hospitals, both of which are constantly filled with these afflicted people. A goodly number of cases of tuberculosis have been sent from this borough to Ray Brook and Otisville Sanatoria and to St. Vincent's Hospital on Staten Island.

The new clinic will be able to take care of a large number of ambulatory cases,

The new clinic will be able to take care of a large number of ambulatory cases, and, altogether, the outlook for the year 1907, in the caring for the supervision over consumptives, is one of good promise.

In conclusion it is to be said that the standard of the work of the Division in the borough has been greatly raised during the past year, due in great measure to the faithful and conscientious work of the Inspectors, Nurses and employees.

REPORT OF THE INSPECTOR IN CHARGE.

BOROUGH OF BROOKLYN.

Recapitulating the work of this division in the Borough of Brooklyn during 1906 and the progress made, I beg to report as follows:

The offices of the division, located for some eighteen months at No. 75 Henry street, were removed on the 1st of October, 1906, to No. 361 Jay street, this change having been made necessary by the opposition of residents of Henry street and the vicinity to the opening of the tuberculosis clinic, they having secured a permanent injunction against the same, and while the new building is not so spacious as the old, yet it is far more central, and arrangement of its rooms more suitable for our purposes.

more suitable for our purposes.

The constantly increasing work of the division rendered necessary, early in the year, the employment of two additional Clerks and two Medical Inspectors.

The new telephone system of registration and assignment for inspection of tuberculosis cases has worked very well, as far as the Inspectors are concerned, there being eight of them on district duty. Since its commencement their work has not been heavy. With the Nurses, however, it has not been possible for the four between whom the entire borough is divided to cover the necessary ground so as to complete all work assigned within the allotted twenty-four hours. It is so as to complete all work assigned within the allotted twenty-four hours. It is hoped, however, that the services of an additional Nurse for district duty can be secured, which would, in all probability, solve the problem.

To show the distribution of the cases of pulmonary tuberculosis an enlarged map of the borough was purchased, and each and every case reported was indicated thereon with a tack, and this chart now adorns the entire side of one room

(see photograph).

Tuberculosis.

Our principal work, the sanitary supervision of tuberculosis, has been carried on along the old lines, but these have perhaps been followed out more thoroughly than ever before, resulting in, first, the total report during the year of some 5.400 cases of pulmonary tuberculosis, 400 cases in advance of 1905. Of this number those that the department was permitted to visit received 13,256 visits from our Inspectors and Nurses. More circulars of information regarding this disease were distributed than ever before by Inspectors, by Nurses, and at various meetings concerning this disease held in the borough during the year under private auspices. The new dusting circular figured prominently, and one was private auspices. The new dusting circular figured prominently, and one was issued by Nurse or Inspector on each visit without respect to the nature of the disease.

We have been continually on the lookout for infected houses, and in order to prevent the possibility of such developing, issued during the year some 778 renovation orders, an increase over the previous year of about 200.

Typhoid Fever.

This disease has been less prevalent, the 1,200 cases reported being 700 less than last year, and through the circulars of information concerning this disease distributed in every instance, the department may claim some credit in having prevented in many cases direct infection.

Cerebro-Spinal Meningitis.

Only 200 cases of cerebro-spinal meningitis having been reported during 1906, the disease may be considered to have become sporadic, and the fumigations and disinfections done and the circulars distributed may again claim some good ef-

Diphtheria.

This disease has been rather more prevalent during 1906 than during 1905.

As one good result of the department's work I may mention the fact that out of 1,982 persons immunized against the disease by the Inspectors (and they have

injected everyone to their knowledge exposed to the disease) only three developed diphtheria, and each in this instance was a very mild form.

On the 12th of November the long-delayed tuberculosis clinic was opened and

started under the most promising auspices, with a most excellent corps of Attending Physicians and Nurses. The attendance runs from two to five new cases tending Physicians and Nurses. The attendance runs from two to five new cases daily, and from five to fifteen revisits, but this number is constantly augmenting. Through the kind offices of the Brooklyn Bureau of Charities, daily distribution is made of two quarts of milk and three eggs each to some forty of the clinic's patients who have been adjudged suitable for such extra diet.

The clinic is now open for patients from 2 to 4 p. m. daily, but it will soon be necessary to have morning and evening hours similar to those of the Manhattan

clinic.

REPORT OF THE INSPECTOR IN CHARGE.

BOROUGH OF QUEENS.

I.—Inspectors.

No change in the number or personnel of the Inspectors occurred during the year, the division continuing to have one Inspector of its own, plus the services of a Diagnostician for antitoxin injection, loaned by the Division of Inspections. That this force is hardly adequate for nor commensurate with the size of the borough is apparent at a glance.

Size of Borough—Length, 24 miles; width, 15 miles; area, 107 square miles. Population, 250,000, divided as follows: First Ward, 65,000; Second Ward, 65,000; Third Ward, 29,000; Fourth Ward, 42,000; Fifth Ward, 10,300.

(a) For antitoxin injection the borough was divided into two districts, the first comprising the First and Second Wards, the second the Third, Fourth and Fifth Wards. These two districts compared show the major part of the antitoxin work was done in the first district.

	First District.	Second District.
Primary injections	61	53
Persons immunized	239	76
Total diphtheria visits	286	159

(b) For tuberculosis, typhoid, C. S. M., and all other inspections, the borough was covered in its entity by the one Inspector. The total area of the district being 107 square miles, liberal allowances had to be made for delay in reaching premises within the prescribed time limit.

II.-Nurses.

Up to November 20 a Nurse was assigned to work two days a week in this borough, the balance of her time being divided between Richmond borough and the Manhattan Tuberculosis Clinic. This proved to be so unsatisfactory, by reason of the increase of work and the delay in visiting cases (patients frequently being reported as dead before first visit of Nurse was made) that on November 20 a Nurse was assigned exclusively to the borough.

BOROUGH OF QUEENS. Comparative Table I.

The state of the s	19	05.	19	006.
Disease.	Cases.	Deaths.	Cases.	Deaths.
Diphtheria	577	72	627	94
Tuberculosis	504	278	603	308
Typhoid	146	31	166	30
Cerebro-spinal meningitis	38	48	21	16
Pneumonia	105	384	534	483
Malaria	2	4	23	7
Erysipelas	2	6	20	10
Sepsis	11	16	24	16
Abortion	4	10	1	3

Note.—Where the above figures do not correspond with the sum of the daily reports it is because of the subtraction at the end of the year of the total number of "no cases"—i. e., cases that have been counted but returned "no case."

III.-Records.

During the year the following changes in gathering and keeping the records were inaugurated:

The method of reporting tuberculosis cases by institutions and of assigning these cases to Inspectors and Nurses was changed from the mail to the telephone (for the detail of this arrangement see Chief of Division's report).

The operation of this system in this borough was attended with some difficulty. Out of the five hospitals in the borough, one had no telephone and one had recently adopted a rule to receive no more cases of tuberculosis. The telephone service to Astoria was and still is so wretched it is only with great difficulty that messages can be transmitted with any degree of accuracy, and that no momentous errors have occurred is only an indication of the carefulness of both the operator in Manhattan and the Inspector in Oueens.

and the Inspector in Queens.

Maps—As in 1905, the localities of all cases of tuberculosis, cerebro-spinal meningitis, typhoid and pneumonia were indicated on large maps of the borough by means

of colored tacks.

These maps show at a glance the segregational tendency of these diseases, clumps of tacks pointing plainly to foci of contagion. For example, the worst two spots for tuberculosis are Hunter's Point, in Long Island City, and Ridgewood, adjacent to the Brooklyn boundary line.

Chart-A chart was kept indicating by colored lines the weekly rise and fall of

the communicable diseases. In this borough, the weekly reported number of the various diseases so nearly corresponded that the frequent criss-crossing of the colored lines on the chart was confusing. I therefore recommend that the chart for 1907 be modified as per plan

The reproductions of each disease separately, as here submitted, were so made in order to obviate the bewilderment incident to a contemplation of the whole.

IV.—Diphtheria.

The time of year in which diphtheria was most prevalent in the borough was the week ending December 22, with thirty-two (32) cases reported and four (4) deaths.

The locality of the greatest occurrence was Hunter's Point, in Long Island City. Total number of cases reported during the year..... Total number of deaths.....

Of the 105 cases injected by the Department, only nine were intubated. This, with the small number of deaths (8), would seem to indicate that the cases were visited promptly and injected early in the course of the disease.

Private Physicians' Cases—Every physician reporting a case of diphtheria but declining the offer of antitoxin injection was interviewed by an Inspector, with a view to ascertaining if antitoxin was administered privately; if not, why not, and offering again the services of the Department.

The Inspectors reported to the Inspector in Charge from time to time that many of the physicians so interviewed grew angry at the fancied interference of the Health Department in their affairs; but the employment of tact usually elicited the information without causing such offense as to result in a formal protest to this office.

A brief summary of this work follows: A brief summary of this work follows: Number of physicians interviewed. Number of interviews. Privately injected "Does not believe in antitoxin" "Case too mild for antitoxin" "Does not use it in croup" "Didn't have to" "Doing well without antitoxin" "Called too late". "Child too nervous" "Did not wish to use it". "Injection not warranted" "Case convalescent" 'Case convalescent" Case not diagnosed as diphtheria"......

Quarantine Release—Complaints having been received that quarantine was raised the Division of Contagious Diseases of the borough before later cultures showed diphtheria bacilli to have disappeared, or without any later cultures having been taken, the matter was investigated and the charge found to be true. Since that time daily scrutiny of quarantine releases has been maintained by the Inspector in Charge, and the Assistant Sanitary Superintendent communicated with in each case of omission.

V.—Tuberculosis.

The time of the year in which tuberculosis was most prevalent in the borough was the week ending April 7, with twenty (20) cases reported and eight (8) deaths. The locality of the greatest occurrence was Hunter's Point (Long Island City),

with Ridgewood (in the Second Ward) a close second.	
Total number of cases reported during the year	604
Total number of deaths	308
Cases reported by institutions	QI
Cases' reported by private physicians	220
Cases reported by dead list	99
Cases reported by sputum	138
Cases reported by other boroughs	53
Cases reported miscellaneously	6
Duplicate reports	206
Cases not found	166
Cases entering hospitals	50
Mistaken diagnosis	3
Voluntary renovations	251
Fumigations	360
	_

The last two items, compared, indicate a gratifying willingness on the part of the inhabitants of Queens to augment the efforts of the Health Department in dealing with this disease. There were only twenty-nine (29) ordered renovations.

Forcible Removals—There were only two forcible removals during the year.

Hospitals—The census of cases of tuberculosis in hospitals was taken twice,

March I and August I. March I and August I.

The returns made it obvious that in spite of frequent visits by the Inspector in Charge, letters of instruction, etc., the hospitals were not reporting all cases as they should. The chief cause of this negligence was the custom of leaving this duty for the house physician to perform. As these physicians receive no incentive in the shape of remuneration for exercising care in the performance of such duties, as there is no penalty for failure to perform them, and as the incumbent of the position is changed every six months or oftener, the problem of getting full and accurate reports. changed every six months or oftener, the problem of getting full and accurate reports seemed insolvable until the idea occurred of using the telephone instead of the mail. Record books were furnished to the institutions and they are now called up once a

week for the required information.

St. John's Hospital, Long Island City—Decided, about June 1, to receive no more cases of tuberculosis.

Private Cases-The annual letter to private physicians requesting information as to their private cases of tuberculosis was sent out (in this borough for the first time) on June 1, with the following results:

Letters sent out	
Replies received)5
Failed to reply	20
Cases improved	13
Cases worse	12
Cases died 6	Ó
Unsatisfactory 6	17

The cards for which no reply was received were given to the Nurse for inspection and the "Private Case" file was then corrected to date.

The	private physicians' file	of "non-reported cases" shows the following data:	
Number	of physicians failing t	o report one case	28
Number	of physicians failing to	report two cases	13
Number	of physicians failing to	report three or more cases	4
Number	of physicians requiring	two letters before replying	17
Number	of physicians requiring	three letters before replying	

Cases of Tuberculosis Reported as Having Died from Other Cause-Four (4) of these cases were investigated with very unsatisfactory results, the physicians maintaining the cases were not tuberculous in spite of our records (sputum, etc.) to the

VI.-Typhoid Fever.

The time of year in which typhoid was most prevalent in the borough was the

Of the 166 cases reported, forty-nine (49) were treated in hospitals, the remainder at their homes. Cases which physicians failed to report before death..... Number of disinfections.

Number of milk stores inspected. Number of oyster stores inspected.....

VII.—Cerebro-Spinal Meningitis.

The time of year in which cerebro-spinal meningitis was most prevalent in the borough was the week ending November 17, with three (3) cases reported and no deaths.

The locality of the greatest occurrence was the Ridgewood section, adjacent to Brooklyn: Total number of cases reported during the year..... Wrong diagnosis Total number of deaths.

Cases which physicians failed to report before death.

Number of fumigations and disinfections.

BOROUGH OF QUEENS

Tuberculosis Cerebro-Spinal Meningitis and Typhoid Fever, as Reported by Weeks and Arranged by Wards.

	Ward I.			Ward II.				Vard III.			Vard IV.		Ward V.			
Week Ending	Tuber- culosis.	C. S. M.	Ty- phoid.	Tuber- culosis.	C. S. M.	Ty- phoid.	Tuber- culosis.	C. S. M.	Ty- phoid.	Tuber- culosis.	C. S. M.	Ty- phoid.	Tuber- culosis.	C. S. M.	Ty phoi	
January 6	3		1	3		14.0	1			2	1					
January 13	1	**	2	4	**	**	3		2	2		1	1			
January 20	6	1		2		11	** ;			4						
January 27	2			7			4		1	3					150	
February 3	5		1	5			2		3	2		44				
February 10	1				**	2	1	**		1		1				
February 17	3			4	14		2		17		4.	1				
February 24	6		1	. 2		11	1			1	**	1				
March 3	4		***	7		2	3	4.		3						
March 10	4			2		1	2			1			2		0.	
March 17	2			3	**	**	2		1	2		1				
March 24	3			4	-	1	1			5						
March 31	6	44	1	6		1	2		1	3						
April 7	10			5	**		1	*		3			i			
April 14	2			6	**		**			1			1			
April 21	5		1	6		1				5						
April 28	2			3			3			1			1			
May 5	2	1	3	5			1	**		4						
May 12	3		1	4	14.4	1	4			2						
May 19	1		2	3			1			1						
May 26	5		3	2	**		1		1	1		1	r			
une 2	1		1	5	2		1			3		2				
une g	1		2	3		1	1					1				
une 16	3	- • •	**	2		3	1			1			3			
une 23	2	1		9	***	2	1			3		1				
une 30	*		1	4		I	3	1		2	1					
uly 7	5 .	2		7	- **		1			1						
uly 14	4		1	7	**					4						
uly 21	1 .		1	4					2	1		1	-1		2	
'uly 28	2			5			1			1		1				
August 4	7		2	.7		1	1		1				2			
August 11	2			5	**		1		1	2		1	1			
August 18	4		3	6	1	4	2		1	4		2				
August 25	5		1	3			1			2		1	1	1.0		
September 1	3		2	5	1	1	1						2			
eptember 8	6		3	5		3	3		4	3						
eptember 15	7	4.4		6	1	2			1	4				**	2	
September 22	2		1	4		3			1	1			**	• • •	1	
eptember 29	3		5	5				1	3	2		2				
October 6	4		5	3		1	6		ī							
ctober 13	6			9		1	2	***		2		2			2	
ctober 20	8		2	6				1		2		2		11		
october 27	5		1	2		1	4		1	1				• •	**	
ovember 3	4			1	1	1	3		1	1						
ovember 10	2		2	3					1	2		1		••		
ovember 17	2		2	8	3		3			1			**	• •		
ovember 24	. 2			3			4		1	1		2		••		
ecember 1	6		4	4	1					2		1	1	••		
ecember 8	3		1	4		1						1	4.0			
ecember 15	2		1	2			1				***		,,	• •	••	
ecember 22	3			6		1	1	1		1		1	4.2	**		
ecember 29	1		1	3							1			••	•••	
		_	_	_												
Total	183		58	229	10	36	77	4	28		1					

VIII.—Pneumonia.

Of these only fifty-nine (59) were living cases, the balance (483) being reported by dead list.

IX.—Malaria. Total number of cases reported during the year.....

All deaths from this disease (11) were investigated, and in four instances it was found that other causes than malaria were responsible for death, so the death certificates were corrected accordingly.

X.—Erysipelas. Cases reported during the year.....

Reports filed, no investigation. XI.—Abortion.

Cases reported during the year.....

Reports filed, no investigation.

bation. Other than these, the pharmacists evinced a willingness to do as directed, and the boxes, although in some instances too small, are now in good order and condition.

XIV.—Tabulation of Histories and Compilation of Statistics for the Division.

It was decided at the beginning of the year that this work would be better done continuously (from week to week) throughout the year, instead of being left for the closing weeks. The task was assigned to the Inspector-in-Charge of Queens, who drew up sheets for each borough and for each disease. The histories, when completed were

sheets for each borough and for each disease. The histories, when completed were sent to his office by the Inspectors-in-Charge of each borough, and were returned stamped "Tabulated," for filing.

This plan should have worked very well, the one flaw being the sending of incomplete histories to be tabulated. This lack of care caused much inconvenience and delay. In order to obviate this difficulty it is recommended that the histories for each borough be hereafter tabulated by the Inspector-in-Charge of each borough.

Added force is lent to this suggestion by the fact that the steady increase in the office work of the Borough of Queens will compel the appointment of a Clerk, unless the above recommendation is adopted.

Recommendations.

- I. Establishment of a tuberculosis clinic either in Long Island City or Jamaica. The necessity for such a clinic grows daily with the increase of the population of the

equitably divide the work, is a pressing need which bids fair to be supplied within the next few months by the transferrence of a Manhattan Inspector, at his own request, to

REPORT OF THE INSPECTOR IN CHARGE. BOROUGH OF RICHMOND.

Commencing January I, 1906, all inspections, administration of antitoxin, etc., which formerly was done by the various district Inspectors of the Division of Contagious Diseases, have been done by the Inspector-in-Charge and one Nurse, the latter spending two days per week here until December I, since when she has spent four week here

All disinfections have been made by our own disinfector, promptly and thoroughly. This small force, with the very large territory to be covered, added to the very poor public transit facilities, has had at times very hard work to get the work done on time, but I am glad to report that the work has always been promptly and efficiently conformed. ciently performed.

There has been no epidemic of any of the communicable diseases under the supervision of this Division in this borough—all cases reported being sporadic, and in only one instance (a case of typhoid) was there any suspicion of direct infection.

Typhoid Fever.

There were two less cases of typhoid fever this year than last, and the death rate was 1.3 per 1,000 of population as against 1.5 per 1,000 last year.

Tuberculosis.

There were 20 per cent. more cases of tuberculosis reported this year than last, while the number of previously unreported dead cases has fallen from 41 in 1905 to 28 in 1906, thus showing that the physicians are reporting their cases better. The death rate per 1,000 has fallen from 21.2 per 1,000 in 1905 to 17.1 in 1906. The presence in this borough of a sanitorium for tuberculosis which receives most of its cases from other boroughs, brings this death rate higher. If we subtract the deaths of patients in this sanitorium from the total deaths from this cause we get a revised death rate for this borough of 12.4 per 1,000.

Pneumonia.

There have been a great many more cases reported during 1906 as the physicians understand more and more that this is a reportable disease. The death rate per 1,000 has fallen markedly, however, from 22. in 1905 to 18.9 in 1906.

Diphtheria.

Twenty-one cases of diphtheria received 35 curative injections of antitoxin, with no deaths due to diphtheria proper. Twelve intubations were made with no deaths. Two hundred and twenty exposed individuals received immunizing doses of antitoxin and only one of these cases subsequently contracted diphtheria, and as it developed in less than 24 hours after the immunization was performed, the child probably had the disease at that time. The case proved a very mild one.

CLINICS FOR THE TREATMENT OF COMMUNICABLE PULMONARY DISEASES.

Report of the Chief of Clinics.

A review of the work of the Clinic for the Treatment of Communicable Pulmonary Diseases for the year 1906 is interesting, quite as much for the large share it has had in the various efforts made for the care and relief of tuberculous patients by municipal, private and charitable organizations, as for the steady progress and effectiveness of its own work.

The dispensary system, so much more tardy in development in this country than in France or Germany, has, in the past year, grown rapidly, becoming daily more satisfactory and more an essential part of the modern anti-tuberculosis machine.

When, therefore, it is said that the Department Clinic has thoroughly justified the purposes for which it was established; that it has been a clearing house for the various classes of consumptives as well as an individual school of instruction, or preventorium; that it has served as a model for similar institutions elsewhere in this country, and that it has shared actively with similar dispensaries here in concerted measures for the relief, care and control of the City's consumptives, it is evident that the year has been one of success and progress.

History Cards.

An improved set of history cards has been devised which is more comprehensive and is designed for use in and to secure uniformity of the records of all the tuber-culosis institutions of the Department.

Otisville Sanatorium,

Since the opening of the sanatorium for incipient patients at Otisville, all applicants have been examined in the clinic and admitted by the Chief of Clinic. To the Assistant to the Chief of Clinic has been assigned the conduction of each party of patients to the sanatorium.

State Sanatorium.

Applicants for admission to the State Sanatorium at Ray Brook, N. Y., have also been examined at the Clinic, subject to review by the Chief of Clinic and final examination by the Chief of Division.

Extra Diet.

Extra diet in the form of milk and eggs has been supplied on recommendation of the physicians in attendance and subject to the approval of the Chief of Clinic to incipient and favorable second-stage cases only, and only after careful investigation by a nurse of their financial need and fitness for such aid, previous experience having shown the necessity of great care and constant control to prevent abuse of this valuable adjunct to treatment. Further, only those who become and remain patients of the Clinic now receive the extra diet, its distribution by the Manhattan office of this Division having been discontinued early in the year. As heretofore, both eggs and milk have been distributed through the depots of the New York Diet Kitchen Association at the expense of this Department. The appended tabulations indicate the limitations which it has seemed wise to make in the distribution of extra diet.

Nurses.

The assignment of an additional Nurse to the work of visiting patients in their homes has assisted in the extension of the clinic's sphere of influence and has made it possible to keep more patients needing such attention under observation. It is recommended again, as in the report of 1905, that this feature of dispensary work is essential and should be extended as rapidly as possible along the lines of legitimate nursing, the instruction and care of patients and the disinfection and fumigation from time to time of their personal and bed clothing in their homes.

Brooklyn Clinic.

In accordance with the plan of this Department to establish dispensaries in the other boroughs of the City, the Brooklyn Clinic was opened in the building of this Division, at No. 361 Jay street, on November 12, 1906. It is similar in equipment, methods of operation and purpose to the Manhattan Clinic. Occupying the ground and first floors, there are provided a registration room, a waiting room for patients, an examination room each for men and women and a throat room. Owing to many delays the latter is not yet equipped, and the Clinic as a whole has scarcely established itself, but the work done so far has been very satisfactory.

Chief of Clincs, Supervising Nurse, Clinic Nurses.

With this, the first extension of the Department dispensary system, the organization and immediate direction of the Brooklyn Clinic, as well as all those soon to be put in operation elsewhere, was assigned to the Chief of Clinic under the title of Chief of Clinics, and Miss Lois Davidson was detailed as Supervising Nurse of Clinic nurses. For the Manhattan Clinic, in addition to three nurses assigned to

Clinic work, two nurses are detailed from the Willard Parker Hospital. For the Brooklyn Clinic three nurses are detailed from the Kingston Avenue Hospital.

X-Ray Work.

Unfortunately, little use has been made of the X-Ray plant except for radio-scopic examinations, as, owing to lack of a suitable dark room, no photographic work could be done. However, since the removal of the drug laboratory from the cellar of the Clinic, a completely equipped dark room has been designed and is now being installed there. Improvements have been made in the efficiency of the plant and the ease and safety of its operation, and under the direction of Dr. L. G. Cole, who has kindly offered his services, it is hoped during the coming year to make some studies, by means of photographic plates, of incipient lesions.

Attending Physicians.

Some changes have been made in the personnel of the attending physicians. Their services, given without remuneration, have been for the most part faithful and efficient. The work is exacting, not without hazard, and requires skill, judgment and a knowledge of the tuberculosis problem, which only men trained in this work possess. This Department cannot expect to secure and retain the services of such clinical assistants without making them some financial return; certainly, it cannot demand their services to the detriment of their own private work, and it is therefore strongly recommended, in order to secure more constant attendance and fewer changes in the attending staff, that, as has been promised for so long a time, adequate salaries be

Dispensary Districts.

An exceedingly important feature of the year's work to which attention is especially directed, is the co-operation of the Manhattan Clinic with other tuberculosis dispensaries of that borough and under the auspices of the Charity Organization Society's Committee on the Prevention of Tuberculosis, in the Society's relief work, and the development from this of a system of dispensary districts which promises in the future to be an important factor in the municipal control of pulmonary tuberculosis.

Certain charitable persons having given to the Charity Organization Society a considerable sum of money to be expended for the relief of tuberculosis patients, a sub-committee was appointed consisting of the Secretary of the Committee, Mr. Paul Kennaday; the Assistant Secretary of the Society, Mr. C. C. Carstens; Mr. Gaylord White, interested in the society's work; Dr. S. F. Hallock, closely identified with the district work of the society, and the folowing physicians:

Dr. Jas. Alexander Miller, chairman; director of the tuberculosis dispensaries of Bellevue and Allied Hospitals.

Dr. J. H. Huddleston, in charge of the tuberculosis work of Gouverneur Hospital Dispensary. An exceedingly important feature of the year's work to which attention is especially

Dispensary.
Dr. Henry L. Shively in charge of the tuberculosis work of the Presbyterian

Hospital Dispensary.

Dr. Henry W. Patterson, in charge of the tuberculosis work of Vanderbilt Clinic.

Dr. B. H. Waters, in charge of the clinics of the Department of Health.

Early in the year this Committee, sitting once a week, began reviewing cases referred to it by the district agents of the Charity Organization Society and deciding the best disposition to make of each; in some cases removing them to better quarters and paving the excess rent; in others paying the wage loss while patients were in a and paying the excess rent; in others, paying the wage loss while patients were in a sanatorium, providing beds for the separate use of patients, sending patients for periods of several weeks or months to the country, besides giving much financial assistance. (For more detailed information see below and also the special report of this Committee.)

It was soon found that such work required preliminary medical examinations and reports, and while at first such reports were obtained from the dispensary at which the patient was attending, it was later thought desirable that the respective chiefs, being members of the Committee, could best do this work.

Many patients, too ill to attend the dispensary, required to be visited in their homes. The greater part of this visiting has been done by the physicians of this

Department.

Still later, in order to facilitate the work of the dispensary nurse and to avoid duplication of their visits, it was decided to assign to each dispensary represented on this Committee a definite district and, after June 1, to require each dispensary to refer every new patient, as soon as a final diagnosis of pulmonary tuberculosis could be made, to the dispensary in whose district he or she lived, further treatment being thereafter refused in the dispensary of original application.

The districts as first laid out were:

Bellevue, bounded on the south by East Tenth street, on the west by the Bowerv. Broadway and Fifth avenue, on the north by Fifty-ninth street, and on the east by

Gouverneur, bounded on the south by the Brooklyn Bridge, on the west by the New Bowery, on the north by Grand street, and on the east by the river.

Presbyterian, bounded on the south by Fifty-ninth street, on the west by Fifth avenue, on the north by Ninety-fifth street, and on the east by the river.

Harlem, bounded on the south by Ninety-fifth street, on the west by Fifth avenue,

the north and east by the river. The Department of Health, the rest of Manhattan Borough and the other boroughs of the City.

Later, Bellevue district was increased by the extension of the southern boundary to Grand street. Still later, on the admission of Vanderbilt Clinic to the system, certain changes in boundaries were made, so that at present they are:

changes in boundaries were made, so that at present they are:

Bellevue, on the south by Grand street, on the west by the Bowery, Broadway and Fifth avenue, on the north by Forty-second street and on the east by the river.

Gouverneur, on the south by Dover street, on the west by the New Bowery and the Bowery, on the north by Grand street and on the east by the river.

Presbyterian, on the south by Fifty-ninth street, on the west by Fifth avenue, on the north by One Hundred and Tenth street and on the east by the river.

Harlem, on the south by One Hundred and Tenth street, on the west by Eighth avenue and on the north and east by the river.

Vanderbilt, on the south by Fiftieth street, on the west by the river, on the east by Eighth avenue and Central Park West, and on the north by the borough limits.

As will be seen by reference to the statistical tables, this procedure has affected little, if at all, the attendance at the Manhattan clinic of the Department. This is probably due to the fact that there has been during the year a steady increase in the number of patients applying for admission. Whether the recent assignment of a district to Vanderbilt Clinic, which occurred about December I, will greatly diminish our attendance remains to be seen. Even if it should it will, within certain limits, be an attendance remains to be seen. Even if it should it will, within certain limits, be a advantage, as it is not possible now to give to so many patients the careful individual attention demanded in a tuberculosis dispensary.

This scheme has been of such advantage and has been so easily put into opera-This scheme has been of such advantage and has been so easily put into operation, securing, as it does, convenience for the patients, facility and saving of time for the dispensary Nurses, and an orderly distribution of patients, that the question may well be considered of extending and strengthening the system, not as a part or only a part of the Charity Organization Society's relief plan, but as a definite municipal system. True, objection has already been made by teachers of medicine that it tends to deprive them of teaching material. It remains then only for the institution in which teaching is done to establish in their respective dispensaries special classes for tuberculosis patients. In one instance this has already been done. This objection has been overruled and the dispensary in question has entered into the arrangement.

In an interesting and exhaustive report on the hospital and dispensary problem made for the Committee on the Prevention of Tuberculosis of the Charity Organization made for the Committee on the Prevention of Tuberculosis of the Charity Organization Society by Mr. Christopher Easton, he recommends that a system of tuberculosis dispensaries be established under a uniform administration. This in many of its essentials has already been accomplished by this group of associated dispensaries, with benefit to each, and the logical development and extension of any such dispensary plan would seem also to involve and necessitate a requirement which would be entirely justifiable on preventive grounds and entirely within the powers of this Department, namely: That tuberculosis patients be permitted to attend only special tuberculosis dispensaries. Such patients are not received now in any of our general hospitals. Why should we receive them in our general dispensaries and subject the other patients in overcrowded waiting rooms to the danger of infection?

It is recommended that this dispensary plan and the suggestion here made be considered by the Department during the coming year.

124

1,664

Children sent to institution.

The following tabulations indicate how great a share the clinic of the Department has had in the relief work of the Charity Organization Society referred to at length above, and the appended tabulations of the work of the clinic for the year and of the Brooklyn clinic for the last two months indicate the following facts of especial interest.

Tabulation of Cases Referred to the Relief Committee of the Committee on the Prevention of Tuberculosis of the Charity Organization Society by the Manhattan Clinic, January 30 to December 31, 1006.

Chine, January 30 to December 31, 1900.	Cases.
Number of cases examined and reported upon for this committee	
Diagnosis, pulmonary tuberculosis	222
Diagnosis, negative	41
Aid recommended by Manhattan clinic	
Hospital recommended	
Country care recommended	28

The state of the s	
Action Taken by Tuberculosis Relief Committee in These Cases.	
Patients sent to hospital	52
Patients sent to country	29
Assistance, food, clothing and rent to patient's family	35
Employment obtained	4
Families removed to new apartments from old, dirty ones, moving expenses, rent, etc., paid	(
Emergency relief supplied	3
Rent only paid	3
Insurance paid	. 7

After June 1, according to the dispensary system suggested by this committee, there

Advanced cases referred to the District Committees.....

Referred to other tuberculosis dispensaries	Patients.
Referred by other tuberculosis dispensaries to this clinic	124
Referred to Gouverneur	127 39
	307

	307
Referred by Gouverneur	30
Referred by Bellevue	60
Referred by Presbyterian	9
Referred by Harlem	16

Tuberculosis Clinic.

	Man	hattan.	Brooklyn Nov. 12
	1905.	1906.	to Dec. 3
Total new patients treated	3,815	4,088	118
Total new patients treated, male	2,443	2,579	70
Total new patients treated, female	1,372	1,509	48
Total old patients treated	15,580	17,109	452
Total old patients treated, male	10,608	11,165	289
Total old patients treated, female	4,972	5,944	163
Total number of patients treated	19,395	21,197	570
Average daily attendance	64	70	14
Number of Russians treated	474	424	11
Number of Austrians treated	145	203	3
Number of Germans treated	110	92	3
Number of Irish treated	120	169	4
Number of colored treated	32	39	1
Number of United States treated	588	244	14
Various	201	281	6
Tailors, furriers, sweatshops	428	615	16
Tailors	105	128	3
Operators	313	143	9
Furriers	10	10	1
Cigarmakers	18	32	
Factory	193	60	. 3
Housework	293	375	10
Various	484	753	8
Foreign born patients	1,064	888	27
Foreign born patients who contracted tuberculosis before arrival in this country	65	50	
Residents of Manhattan	3,272	3,397	
Residents of The Bronx	147	141	
Residents of Brooklyn	341	496	570
Residents of Oucens	24	29	
Residents of Richmond	31	7	
*Number of quarts of milk supplied to clinic patients	†12,510	†22,299	
*Number of eggs supplied to clinic patients	19,757	†44,544	
Total number of new cases	3,815	4,088	118
Diagnosis tuberculosis, sputum positive	881	781	
Diagnosis tuberculosis, sputum negative	789		25
Total number of positive cases transferred to hospitals		1,005	14
Total number of positive cases transferred to hospitals	554	607	1
Under treatment at clinic	119	189	
Not found at address given	451	870	191
Not found at address given	409	210	2

^{*} Diet supplied to 187 patients.

t Number admitted, 116.

within the safe time of the district of the safe of th	Manh	attan.	Brooklyn, Nov. 12
Service and Control of the Control o	1905.	1906.	to Dec. 31 1906.
Deaths	137	128	-1/1/2019
Cases under treatment, diagnosis doubtful	327	176	74
Cases not found tuberculous, transferred to general hospitals and dispensaries or discharged	2,145	2,126	
Cases examined for Ray Brook	651	270	
Cases recommended as suitable for admission	107	\$131	****
Number of specimens of sputum examined	2,231	2,315	75
Tubercle bacilli found	881	781	25
Tubercle bacilli not found	1,350	1,534	50
Number of patients treated in throat clinic	521	1,548	*****

Laryngeal examination was made of 2,307 patients. Of these 1,621 presented the following pathological conditions:

Not Tubercular.		
Chronic hypertrophic rhinitis	244	
Chronic laryngitis	195	
Chronic pharyngitis	572	
Chronic rhino-pharyngitis	508	
Tonsillar hypertrophy	42	
		1,561
Tubercular.		
Laryngitis	102	
Pharyngitis	I	
	_	103
	-	-

Of the remainder various lesions were presented by 166.

The percentage of laryngeal tuberculosis in patients having pulmonary tuberculosis is shown to be about 5½ per cent.

ANNUAL REPORT OF TUBERCULOSIS CLINICS. BOROUGHS OF MANHATTAN AND BROOKLYN.

Manhattan Tuberculosis Clinic-Attendance Table.

20.001	1	New Cases	5.		Old Cases			Total.	
Month.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
January	193	119	312	1,044	530	1,574	1,237	649	1,886
February	149	81	230	927	449	1,376	1,076	530	1,606
March	208	127	335	1,031	528	1,559	1,239	655	1,894
April	228	140	368	970	529	1,499	1,198	669	1,867
May	251	143	394	1,056	602	1,658	1,307	745	2,052
June	238	133	371	1,036	509	1,545	1,274	642	1,916
July	213	127	340	937	429	1,366	1,150	556	1,706
August	214	155	369	819	409	1,228	1,033	564	1,597
September	239	109	348	798	417	1,215	1,037	526	1,563
October	248	142	390	1,019	594	1,613	1,267	736	2,003
November	211	128	339	760	498	1,258	971	626	1,597
December	187	105	292	768	450	1,218	955	555	1,510
Total	2,579	1,509	4,088	11,165	5,944	17,109	13,744	7,453	21,197

Daily average attendance, 70.

Brooklyn Tuberculosis Clinic-Attendance Table.

Month.	1	New Cases	3.		Old Cases			Total.	
Month.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
November 12-30	42	27	69	104	65	169	146	92	238
December	28	21	49	185	98	283	213	119	334

Manhattan Clinic.

Of 1,132 foreign born patients only fifty, or less than one-half of 1 per cent. contracted the disease previous to their arrival in this country.

The number of new patients, the number of revisits and the daily average attendance was increased, despite the increased number of special tuberculosis dispensaries, and the number of patients (see above) transferred to them by this clinic in excess of those transferred by them to this clinic.

In only 176 instances was the diagnosis considered doubtful, as against 327 last year. This seems to indicate better observation of patients and greater skill and decision on the part of the clinic physicians.

observation of patients and greater si and decision on the part of the clinic physicians.

The small number of "not found" cases, the large number of visits made (over 86 a week) and the number of patients (318) visited more or less frequently during the year, shows commendable work by the Nurses.

during the year, shows commendable work by the Nurses.

Only a little over 33½ per cent. of sputum examinations proved to be positive. This seems to be too small a percentage, and steps have been taken to make special searches of those specimens which have been twice negative, when the clinical diagnosis is tuberculosis.

The reduction in the number of applicants for admission to the State Sanatorium at Ray Brook and the increased proportion of those recommended as suitable for admission is perhaps best explained by the better understanding which a year's experience has given both physicians and patients of the conditions imposed by the sanatorium requirements.

The total amount of milk issued includes that issued during the first four months of the year by the Manhattan office of the division. Of this, 22,299 quarts were issued to clinic patients, and since May I the monthly average for the clinic has been about 1,800 quarts. Approximately the same reduction was made in the number of eggs issued. in the number of eggs issued.

Investigation of Deaths Due to Malarial Fever.

Death from malarial fever in this climate and in this age should occur very rarely, if at all. The exceptional cases, it would seem, would be those cases of pernicious malarial fever imported from the tropics. With the accurate means of bacteriological diagnosis now within the knowledge and at the command of

[†] Quarts of milk supplied by the Division, 50,142. Eggs supplied by the Division, 96,480.

every physician in New York City, mistakes in diagnosis and the confounding of malaria with typhoid, etc., ought to be reduced to the minimum. With the specific quinine intelligently employed, and with the recently acquired knowledge of the cause and prevention of the disease, and with the authorities, municipal and state, putting into practical effect the prophylactic suggestions of scientists, fatalities from "malaria" per se should be practically unknown.

For the purpose of ascertaining just what proportion of the reported deaths from malaria should be attributed to other and more potent causes, the following card was designed for the use of Inspectors of this division in gathering the information and for tabulating the results.

MALARIA

DEPARTMENT OF HEALTH

DIVISION OF COMMUNICABLE DISEASES

	Borough of		Date	
Reported. Date By	Age Γο	Occu. M. Address	F. M. S. W. Nat	i.
175 L-1907			2919, '06, 5,000 (P)	
Chills	Sweating Wi	dal Spleer dal Quotidian Res If so, where?	Temp. n enlarged Results Quartan ults	
Bitten by Mosquitoes Diagnosis based on	?			
				• •
Remarks:				
				• •
Date			M. I),
			Inspector.	

Routine—These cards are issued from the borough office, from returns received from the Registrar's office, where the information is obtained from the original death certificates. The cards are then sent by mail to the Inspector in whose district the attending physician resides. The Inspector makes an ap-

pointment with the physician, then calls upon him, and in as diplomatic a manner as possible seeks elucidation on the following points:

On what basis the diagnosis was made; whether blood examination or

ner as possible seeks elucidation on the following points:

1. On what basis the diagnosis was made; whether blood examination or clinical signs.

2. If no blood examination was made, the reason why; the Inspector politely pointing out the facilities offered by the Health Department, free of charge, and urging that in future cases of the kind they be utilized.

3. The Inspector's own opinion, based on the remarks, manner and apparent scientific sincerity of the physician, also on the entrance into the case of insurance and the necessity of adjusting the cause of death to fit the requirements of the insurance company.

Upon the return of these histories from the Inspectors they are forwarded to the Registrar's office, where correction of the death certificates is made where it is deemed advisable. The cards are then returned to the borough office for tabulation and filing.

Results—A review of these histories for all the boroughs for 1906 shows Manhattan to have had 22, The Bronx 3, Brooklyn 6, Queens 11 and Richmond none; a total of 42 for the Greater City. Of this total 23, or more than half, were between the ages of 20 and 40, 15 had preceding attacks, the duration of illness in 9 was 1 to 2 weeks, in 4 less than 1 week, in 3, 2 to 3 weeks, and in 22 over 3 weeks. The temperature was intermittent in only 15 cases, 27 had chills, 27 had sweats, 28 had enlargement of the spleen, 2 had rose spots. In most cases the type of the exacerbation was not stated. Where it was 14 were tertian, 4 quotidian and 1 quartan. The blood was examined in only 7 cases, 6 of which showed malarial plasmodia and none Widal. Ten (10) of the 41 resided out of the city before attacked; 9 were bitten by mosquitoes—whether the anophales was not stated. In 31 cases the physician made his diagnosis by clinical signs. In only 9 cases was the death certificate altered, although the Inspectors returned a contrary opinion in 12 cases. trary opinion in 12 cases.

These opinions tonous.		
Considered to be—		
Typhoid		
Alcoholism	 	 . 1
"Pulmonary trouble"	 	 . I
Cerebral Compression	 	 . I
Tuberculosis		
Acute gastritis		
Broncho-pneumonia		
Puerperal septicaemia		
Nephritis		
Meningitis	 	 . 1
		-
		12

So that in only 6 instances (14 per cent.) could it be positively stated that the patient had malarial fever, and in 12 (28 per cent.) it was almost certain that the patient did not die from that cause.

TABULATION OF CASES OF DIPHTHERIA IN WHICH ANTITOXIN WAS ADMINISTERED.

Diphtheria Table.

	Manhattan.		. The Bronx.		Brooklyn.		Queens.		Richmond.		Total.	
	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Number of cases of diphtheria reported	7,553	7,444	992	1,251	4,307	5,211	577	627	257	224	13,686	14,757
Number of deaths	660	731	200	252	519	793	72	94	18	28	1,469	1,899
Death rate, per cent	3.11	3.36	7.32	8.68	3.80	5.64	3.61	4.48	2.46	3.77	3.64	4-57
Case fatality, per cent	8.7	9.8	20.2	20.1	12.0	15.2	11.5	14.9	7.0	12.5	10.7	12.8
Manhattan, cases died in			134	166			****			****	****	
Corrected death rate	3.74	4.12	2.41	2.96				****				
Corrected case fatality, per cent	10.3	11.7	7-7	7.9			****		****			

Antitoxin Injected By Inspectors.

	Man	hattan.	The I	Bronx.	Broo	klyn.	Que	eens.	Richmond.		Total.	
A	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Total cases injected	2,949	2,987	222	402	320	679	54	104	20	24	3,458	4,196
False or removed to hospital	1,223	1,398	41	135	140	257		24	13	15	1,417	1,829
Considered as diphtheria	1,726	1,589	181	267	180	422	54	80	7	9	2,148	2,367
Died	95	80	14	17	14	49	4	. 8	1	****	128	154
Moribund	36	32	4	7	7	22	1	4	ī		49	65
Cases fatality, per cent	5.5	5.3	7.7	6.8	7.7	13.1	7.4	11.1	14.2		5.9	6.9
Cases fatality, moribund deducted, per cent	3.4	3.2	5.6	4.1	4.0	7.6	5.6	5.8	****		3.7	4.1
Cause of death—												
Asthenia		19		9	****	25		8	****			61
Asphyxia		10		2		14	****				****	26
Sepsis	****	22	****	6	****	10		****			****	38
Cardiac-paralysis	****	22			****	****	****	****	****	****		22
Pneumonia		7		****	****	****		****	****		••••	7
Died, Hours After First Injection—												
I to 24		32	****	7	****	22		4	****		••••	65
24 to 48		11	****	1	****	9	****	2		****		23
48 to 72		8	****	1	****	9	••••					18
72 to 96	• • • • •	7					****	••••	••••			7
Over 96		22	****	8	****	9	****	2	****	****		41
Died, Day of Disease—												
First	****	1	****	****	****	1		••••			****	2
Second		4		****		5	****	2			****	11
Third		11		4		6	****	2				23
Fourth		14		2		5	****	1	****			22
Fifth		12		1		9		1	••••	****		23
Fifth to roth		29	****	5		20	****	1	****	****		55
Tenth to 20th		9		5	****	3		****	****	****	****	17
Over 20th	****							1				

	Ma	nhattan.	The	Bronx.	Bro	oklyn.	Qu	eens.	Rich	mond.	T	otal.
that thereign makes the desired addition	1905:	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Total Cases, Day of Disease Injected—	-	1 100	100	The same	116					1	- 67	1 100
First		235	****	27	of section	42		6		4		314
Second		742		106		212		35		. 5	****	1,100
Third		445		83		123		28		8		687
Fourth		203		35		63	****	8				309
Fifth		58		18		18		5		T		100
Fifth to 10th		60		22		24		1				107
Tenth to 20th		11		1		2		ı				15
Subsequent injections		134		40		52		12		4		242
Units under 5,000		270		19		101		71		5		466
5,000 to 10,000		1,377	****	166		366		13		12		1,934
Over 10,000		107		107		17				1		232
Laryngeal Cases—												
Cases	240	264	23	54	37	99	8	15	2	3	310	435
Deaths	41	49	3	8	10	. 36	2	4	r	1	57	98
Case fatality, per cent	17.00	18.5	25.00	14.8	22.00	36.3	25.00	26.6	50.00	33.3	18.3	22.5
Moribund deducted	23	26		6	5	21	1	3	1		30	56
Cases fatality, per cent	8.2	9.6		4.1	15.6	19.2	14.2	8.3		33.3	7.6	11.00
Laryngeal Cases (Intubated)—						7.00				45.5	4,00	
Cases	48	43	. 8	11	8	47	2	8	, 1		67	109
Deaths	11	25	2	1	3	25		1			16	52
Case fatality, per cent	22.00	58.1	.25	.09	37 - 5	53.2		12.5			.24	47.7
Moribund deducted	5	8	1	1	1.	14					7	23
Case fatality, per cent	14.00	48.5	14.2		28.5	33.3		12.8			.15	33.7
Immunizations	6,133	5,064	453	1,276	913	1,753	74	291	153	98	7,726	8,482
Developed diphtheria	5	13	1	3	2	1					8	17
Per cent.	.08	.25	.22	.23	.21	.05					.10	.20

Antitoxin 1	Injected	by	Private	Physicians.
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	Man	hattan.	The B	ronx.	Broo	klyn.	Ou	eens.	Richt	nond.	Tot	al.
	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Potal cases injected		1,079		256		1,236		186		104		2,681
False or removed to hospital		221		38		158		9		16		
Considered as diphtheria	565	858	119	218 .		1,078	80				****	442
Died	57	66	100		715			177	74	88	1,553	2,419
	21	22	11	9	88	131	10	16	10	9	176	231
Moribund			3	1	32	41	5	8	4	1	65	73
Case fatality, per cent	10.00	12.7	9.2	6.4	12.3	20.5	12.5	19.00	13.5	16.1	11.3	16.00
Case fatality, moribund deducted, per cent	6.4	8.8	6.8	5.7	8.2	15.00	6.2	10.5	9.5	14.5	7 - 4	11.5
Cause of Death—		1 22										
Sepsis		21		1		43		3	****	1		69
Suffocation		8		2	****	22	1111	5		****	****	37
Asthenia	****	25	****	4		50	****	6		6		91
Pneumonia	****	5		2		6						13
Not stated		7	****			10	****	2		2		21
Died, Days After First Injection-												
First	5	22	****	1	****	41	1111	8	****	-1		73
Second		9		1		26						36
Third		8	****	3		10		3		1		25
Fourth		6	****			6				****		12
Fifth		2				7		2		2		13
Over five		11	****	3		29		3		4		50
Not stated		3		1		12				1		22
	****		3									22
First		216		53		166		46		19		500
		259		47		313		26		35		680
Second										8		
Third	••••	146		37		203	****	13				407
Fourth	****	46	****	9		70		8		5	****	138
Fifth		18	****	8	****	17		1	****	4	****	48
Over five		28	****	6	****	42		5	****	2		83
Not stated			****	****	****	16	****	10		****		26
Units-												
Under 5,000		562	****	99	****	657	****	82		39	****	1,439
5,000 to 10,000		121	****	46		121	* ****	27	****	29		344
Over 10,000		27		15		49		****		5		96
Not stated		* 3	****		****				****		****	3
Rash—												
Erythema	****	50		7	****	35		4		2		98
Urticaria		20		-8		20		1		3		52
Appeared Days After Injection—												
o to 5	e	35		5		30		5		2		77
5 to 10		17		9		17				3	****	46
10 to 20		3				1						4
Over 20	****	****										1200
Not stated			****		****			****				1
arynx—	100	206	7.5	21	107	161		22	10	12	289	444
Involved	125	206	15	31			23	33	19			443
Intubated		70	****	10		57		8	****	8	****	153
mmunizations		638	••••	213		704		59		32	****	1,646
Developed diphtheria		****	****	****		4	****	••••			****	100
Per cent,			*****	****		.56						.24

TABULATION OF CASES OF TYPHOID FEVER IN 1906.

Typhoid Fever, 1906.

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	Total
Male	965	134	653	95	49	1,89
Female	638	123	464	56	19	1,300
Not stated	28		37		2	6
Age—						
o to 1	3		2	* **		3
1 to 5	55	10	24	6	**	9:
5 to 10	131	30	77	25	1	264
10 to 20	397	70	308	49	16	840
20 to 50	984	140	693	65	53	1,93
50 or over	61	7	. 49	6		12;
Commercial business men	58	5	20	2	1	86
Clerks	165	30	136	14	4	349
Factory workers	23	3	22	6	1	55
Firemen	6		**			
Houseworkers	346	61	258	22	13	700
Laborers, indoor	89	4	12	4		109
Laborers, outdoor	161	17	94	18	3	29;
Literary workers	5		1			
Manual trades	82	23	115	7	3	230
Policemen	2	3	4	1	2	1:
Professional	84	12	43	4	3	140
Skilled artisans	27	5	13	5		50
School attendants	322	6	202	47	5	582
Storekeepers	32	5	31	3	1	72
Sailors	24	3	41	2	29	99
Sewers	49	3	17			69
Soldiers	2	3			2	
Private house	197	75	466	95		860
Boarding house	60	1	33	95	27	96
Boats	26		22	1	28	1100
Lodging house	26	2	6		20	77
Hotels and institutions	149	6				36
Stable	1		24	2	3	184
Tenements	1,121	148	478	36	**	0
Tents				4 7	1	1,784
Sanitary condition bad	189	12	76	••	**	. 1
Blood examined	200			2	5	284
Widal positive	1,275	175	675	86	68	2,279
Urine examined	1,023	118	530	70	61	1,802
Diazo positive	1,086	91	496	64	41	1,778
	475	37	302	45	31	890
Spleen enlarged	1,161	155	828	129	44	2,317
Rose spots present	1,067	157	801	111	52	2,188
Other cases, family	144	28	84	18	2	276
Other cases, house	84	14	57	1	. 1	157
Other cases, friends	32	2	15	1	4	54
Patient has separate room	771	177	678	108	21	1,755
Vater bottled	110	18	54	2	2	186
Vater, Croton	1,306	109	945	131	30	2,521
Vater, tank	115	22	85	16	33	271
recautions taken	1,464	230	1,031	146	63	2,934
ource—						
Milk	357	80	261	37	5	740
Oysters	65	5	44	2	4	120
Exposure	191	33	106	17	6	353
O. O. T	484	57	291	17	38	887
Unknown	534	82	452	78	17	1,163

TABULATION OF CASES OF CEREBRO-SPINAL MENINGITIS FOR 1906.

Cerebro-spinal Meningitis, 1906.

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	Total.
Male	338	32	115	10	16	611
Female	286	28	90	9	2	415
Not stated	3	** -	4			7
Age—						
o to 1	100	20	28	3.	1	152
I to 5	192	15	64	6	4	281
5 to 10	127	4	39	3	5	178
10 to 20	113	12	43	2	6	176
20 or over	95	9	35	5	2	146
Not stated		4.4				
United States	263	28	67	11	10	379
England-Scotland	3					6
Ireland	26	3	8		1	38

				CDAT, NO	V EMID.	EK 30, 19	,u,.
		Manhattan.	The Bronk.	Brooklyn.	Queens.	Richmond.	Total
	Japan	t		100			1
	Germany	39	4	7	4		58
	France	1	**		**	**	1
5	Russia	76	1 -	25	**	**	102
,	Black	109	9	44	1	**	163
	Not stated						5
	Tenement	597	39	149	to	11	806
	Halls dirty	178	7	6ì		2	248
1	Area dirty	178	3	46		1	228
	Yard dirty	188	. 7	50		2	247
5	Street dirty	199	14	40	1	1	255
	hood	126	11	21	- 1	7	166
	Ventilation bad	101	5	35 28	••	,1	142
	Plumbing bad	99	2	19			133
	No cleanliness	113	7	50		2	172
	Dust, yes	125	11	65	5	2	208
	Parasites, yes	61	5	22	4	2	94
	Pets, yes	59	15	23	3	4	104
5	Present health, bad	13	**	5	**	44	18
	Food and clothing, bad	45	2	13	**	••	60
	Personal cleanliness, bad	34	3	6	** -	1	60
	Susceptibility to colds Exposure to cerebro-spinal meningitis.	50 25	3	10	4	5	66
	Exposure to overheating, etc	50	3	2		1	. 56
	Exposure to cold, etc	81	5	13	**	2	101
	Health at onset, bad	42	7	7			56
	Onset slow	39	4	13		4	60
	Stiffness of neck	556	47	192	17	14 .	826
	Headache	437	37	151	16	16	657
	Convulsions	348	36	122	12	8	526
	Vomiting	538	46	171	16	16	787
	Eruption, petech	131	13	29 32	7	1	178
	Nasal discharge	92	7	41	8	5	153
	Kernig's sign	386	27	129	12	15	569
	No temperature			1			1
	Leucocytes counted	202	10	2	1	2.96	215
1	Eye involved	85	17	35	1	**	138
1	Ear involved	31	3	3		**	37
1	Paralysis	30	7	6 24	2	1	67
	Diagnosed by clinical signs	387	45	168	19	13	632
	Diagnosed by lombar puncture	240	15	41		5	301
	Treatment, medical	607	52	191	19	13	882
1	Death on first day	37	, 2	10		1	50
1	Death on second day	34	3	19	4	1	61
1	Death on third day	38	4	12	••	**	54
1	Death on fifth day	37	5	15	3	1	61
1	Death on fifth day Death in five to ten days	70	12	35	3	1 .	48
1	Death in ten to twenty days	108	8	33	3	4	156
1	Death in twenty days or over	126	9	30	5	9.	170
1	Day not stated	6	3	5	**		15
1	Sent to hospital			3	0.	44	3
1	From convulsions	91	3	5	1	1	101
1	From coma and exhaustion	381	41	159	17	8	606
1	From pneumonia	13	6	43	**		15
1	Recovery complete	114	7	43 28	1	7	157
1	On one to seven days	2		1			3
1	On seven to fourteen days	13	2	3			18
1	On fourteen to twenty-one days	17	44	. 8	**	3	28
1	On twenty-one to twenty-eight days	19	1	2	••	1	23
1	On twenty-eight to thirty-five days	15	**	2	1	**	18
1	On thirty-five days or over Not stated	48	4	6			58
п	Recovery incomplete	24 .	3	9		, 1	37
ш	Micro-organism in spinal fluid	185	5	27		4	221
1	Fumigation and disinfection ordered	495	50	174	19	11	749
1	Antitoxin administered	16		2	**	**	18
1	Antitoxin recoveries	6	**	1			7
1	Antitoxin deaths	10	**	1	**	**	11
ı	No case, doubtful		**			**	
1	No diagnosis	6	**	18		**	8
	Fraumatic M						
	Tubercular M	13	5	16	4	-	38

16

..

5

13

** *

Tubercular M.....

Syphilitic M.....

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	Total.
Pneumonia	16	1.0	i			17
Gastro, intestinal	4		6			10
Typhoid	1	3.4	***		**	1
Bronchitis	i -	- 111	44		17.00	1
Strip meningitis	4		**	40	**	4
Nephritis				2.66		1
Influenza	1					1
Measles	1		1 .		39	2
Endocarditis	1					1
Not found	11					11
Septicaemia	**		1	44	2 **	. 1
Otitis			1			1
Tuberculosis			2			2
the second secon						

DIAGNOSIS LABORATORY.

Report of the Assistant Director.

It is with much pleasure that I can report the renovation of the entire Diagnosis Laboratory. No money being available for the purpose, the work of painting the woodwork, kalsomining the walls and making repairs in general, devolved upon the Laboratory force and they displaying an admirable "esprit de corps," each one contributed his share of work to the general improvement of the Laboratory, with the result that the Diagnosis Laboratory from a poorly ventilated, poorly equipped and ill lighted assortment of rooms, now has the appearance and tone of a first class Laboratory.

ment of rooms, now has the appearance and tone of a first class Laboratory.

There is still room for improvement. If a supply room could be built on the roof and connected with a door cut through the wall at the head of the main stairway, it would facilitate the work of the Laboratory (and prevent much interruption of the same) by changing the course of traffic. The numerous persons coming to the Laboratory for supplies, etc., would no longer enter the Laboratory proper, but their course would be deviated directly to the supply room. An additional examining room should also be added (see chart), the present quarters of the Laboratory Assistants being somewhat cramped somewhat cramped.

Following is a chart of the Laboratory with proposed changes, in red lines.

For further plans of Laboratory, see accompanying photographs.

The Laboratory staff at present consists of the Acting Assistant Director, three Assistant Bacteriologists, three Bacteriological Diagnosticians, seven Laboratory As-Assistant Bacteriologists, three Bacteriological Diagnosticians, seven Laboratory Assistants, two Laborers, one Hospital Clerk and three Clerks.

The Assistant Bacteriologists and Laboratory Assistants are provided with white linen suits,, which are worn while they are working in the Laboratory.

The statistical work of the Laboratory is given on a separate sheet.

Following is a report of the work performed in the various branches during 1906: The routine work consists in

Examination of cultures for diphtheira bacilli, Examination of sputum for tubercle bacilli, Examination of blood for Widal reaction. Examination of urine for Diazo reaction,

Examination of blood for malarial organisms, Examination of smears for diplococcus intracellularis meningitidis,

Examination of smears for pneumococcus of Frankel

Examination of Cultures for Diphtheria Bacilli.

A slight improvement has been made in the routine preparation of specimens; three films instead of two being placed on an ordinary glass slide, this saves time both for the maker of the specimen as well as the examiner, besides reducing the expenses of the Laboratory. In all other respects the work is carried on in the same manner as in the previous year. Fifty thousand six hundred and nine culture tubes were examined; 18,950 being proven positive, and 369 negative specimens; these were confined to two boroughs, Manhattan and Brooklyn.

Tuberculosis.

The work during the past year has greatly increased, a daily average of over eighty (80) specimens having been examined, thereby testifying to the work accomplished. We are grateful for having been furnished with a separate room, in which the preparation of films is carried on by two Laboratory Assistants, from six until eleven in the morning. No sooner is this work completed than the entire room is disinfected with

During 1906 there were 21,773 specimens examined, with a total of 6,752 positive results, yet, the number of positive specimens found might be increased, if the Laboratory staff were enlarged, permitting a still more thorough searching of negative specimens

All positive examinations, on request of the physicians of Greater New York, are telephoned to their residences no later than 10 a. m. the next morning.

Typhoid.

In regard to the Widal examination, the one to ten dilution has been dropped and the one to twenty alone employed, with a time limit fixed at one half hour. Since this has been done, there is no longer a request by the physicians to kindly explain the results of examination. Mr. J. S. C. Stelling, a Bacteriological Diagnostician, has had some difficulty in preserving the vitality of the Bacillus Typhosus, but since the latter have been transferred from bouillon to agar agar instead of bouillon to bouillon, and the former used as to stock solution for a week, this trouble has been obviated.

For the year 1906, the total examinations were 6,181, of these 1,502 were proven itive, 4,091 negative, and 588 doubtful.

In the examinations of urine for Ehrlich's diazo-reaction, there has been no change; it might be advisable to have the physicians notified to send in early specimens, for instance, where duration of disease is ten days or less, as the positive result of examination of the urine can be obtained much earlier than the Widal reaction. The total number of examinations was 1,226, of which 405 were proven positive; 765 negative; 56 doubtful. The methylene blue reaction for the same purpose as the diazo reaction, did not give satisfactory results.

Culture Tubes.

During 1906 all culture tubes for substations have been sealed with paraffin instead of rubber caps.

This change has brought about a great saving in expense. During 1907 all stations

The price of rubber caps has been two hundred dollars (\$200) per ten thousand (10,000), while it costs but five dollars (\$5) to paraffin the same number and the results attained as to the keeping of the tubes moist and sterile, are better than in previous

Opsonic Index.

During the latter months of 1906 investigations in connection with the determina-tion of the tuberculo-opsonic index were begun. It is hoped to continue these during 1907, paying special attention to the tuberculo-opsonic index of healthy persons of various nationalities. Should the results prove of value, the appointment of additional Bacteriologists will be necessary.

REPORT OF THE RIVERSIDE SANATORIUM, NORTH BROTHER ISLAND, CITY OF NEW YORK,

The capacity of the Riverside Sanatorium on January 1, 1906, was four (4) pavilions, with eighty (80) beds. The capacity of the Riverside Sanatorium January 1, 1907, is six (6) pavilions with one hundred and sixteen (116) beds.

Plant.

The present accommodations are six pavilions, Nos. 6, 8, 9, 10, 11 and 12. Of these, 8, 10, 11 and 12 are for males; capacity, seventy-eight (78) beds. Pavilions 6 and 9 are used for females; capacity, thirty-eight (38) beds.

In description in detail it may be said that Pavilion 6 has one ward of 14 beds Pavilions 8 and 9 have four wards each of 6 beds Pavilions 11 and 12 have two wards each of 12 beds Pavilion 10 has one ward in use, 6 beds	48 48
Total	

Pavilion 10 is in use partly as administration centre for the tuberculosis division. One ward is divided into two rooms which serve respectively as office and laboratory; a second ward serves as a male dining room, seating forty, and a third ward is occupied by six patients. The fourth ward is occupied by Orderlies who were formerly tuberculosis patients. This pavilion contains also a small room which was formerly used for the isolation of objectionable cases, but has during the year been stited up for the treatment of the eye car nose and throat cases for the treatment of the eye, ear, nose and throat cases

Favilion II has been provided during the year with partitions eight feet high, which extend nine feet between the beds at right angles to the walls, so that each ward is separated into four separate rooms. The room effect is increased by curtains which hang from a rod crossing the space between the partitions. The cubic feet of air space varies from about 1,000 in pavilion 6 to 1,200 in each of the other pavilions. The windows are all large and vary in number from four in wards with six beds to ten in each of the larger wards.

to ten in each of the larger wards.

Pavilions II and I2 each have one bath and two toilets in each ward. Every pavilion has a store room and a room which is provided with a gas stove and is used as a temporary kitchen.

Sun Rooms.

One each for males and females, one summer house for males and one tent house. The sun house for men is 10 by 60 by 8 feet high, inclosed with glass windows that can be opened from above or below. The one for women is 19 by 19 by 8 feet high, inclosed with glass windows on hinges that can be hooked to the ceiling above, making an open air pavilion.

The summer house is about 19 by 19 by 8 feet high, open on all sides.

The tent house is large enough to accommodate two patients with dressing room

The wards and the sun rooms are steam heated. The wards are lighted by elec-

Care of Plant.

The grounds around the pavilions are cared for by two men whose duty it is

to pick up all waste, etc., keep grass in good condition.

The floors of all wards, toilets and bath are washed daily with soap and water

with washing soda and 10 per cent, ammonia, and with creolin twice a week.

Tables, beds, stands and window sills are wiped off with 1-40 carbolic acid solu-

All cleaning in wards is done between the hours of 6.30 and 10.00 a. m. No dry sweeping is permitted. The wards are fumigated with formalin on an average of every ten days.

There are fifteen Nurses in the tuberculosis service. They are employed by the Superintendent of Nurses, at \$40 per month and maintenance, and come from the various training schools of the United States and Canada. The duties of the Nurses are taking temperatures, giving medication, baths, doing dressings, preparing extra diets, supervising the Orderlies and Cleaners and regulating the ventilation of the

Orderlies.

There are seven Orderlies. For the past ten months we have been employing men who were formerly tuberculosis patients. They are employed by the Superintendent of Nurses at \$30 per month and maintenance. Thus far they have given entire satisfaction. The Orderlies do the general waiting on bed patients, making of beds, the care of the linen and distribution of same and other necessary duties.

Cleaners.

There are thirteen Cleaners, including Helpers in the dining room, and are employed by the Superintendent of Nurses at \$16 and \$18 per month and maintenance. They are usually secured through the employment agency, although at the present time there are some who were former tuberculosis patients.

Care of Sputum.

Seabury & Johnson sputum cups are used exclusively. They are collected three

times daily; at 7.30 a. m., and 1 and 6.30 p. m.

The man whose duty it is to collect the sputum carries a large white enameled covered pail, in which he puts the cups which have been in use in each ward, collecting all the cups in one pavilion and then emptying the contents into a garbage can provided for that purpose. This can is emptied into the crematory every morning of rips of clock. ing at nine o'clock.

The pail and garbage can which are thus used are carbolized every day, and the brass frames for the pasteboard cups are carbolized once a week.

Care of Patients.

Food—The cooking for all the pavilions is done in the general kitchen. It is transferred from the kitchen to the wards and dining room in a wagon provided with

The meals for ambulatory cases are as follows:

Breakfast.

Cereal, meat, eggs, toast, coffee, bread (white, graham or rye) and butter.

Soup, meat, vegetables, toast, dessert, tea and coffee.

Hot or cold meat, eggs, toast, coffee and tea, fruit.

Extra for all Cases.

Raw scraped beef, rare roast beef, cooked scraped beef, beef juice.

The food for all bed cases is served in the wards on bed trays. Besides the extra food, the Nurses prepare several delicate dishes for the more enfeebled patients. Eggs and milk are kept in the wards at all times, so that the patients may have access to them during the day. Many take from this extra supply six eggs a day.

On admission to the hospital, each patient is stripped of his or her clothing, given a bath and issued:

14 - 1 - 1 - 1

One undershirt.

One pair drawers,

One pair socks,

One pair shoes,

One top shirt, One pair pants,

One cardigan jacket,

One cap, One pair pajamas,

One overcoat, —and the women are given the clothing they require. The clothing worn by the patients to the hospital is fumigated and sent to a room where it is labeled and numbered. It remains there until the patient is discharged or dies. In the first case they are returned to the patient, in the latter they are turned over to relatives or

Admission of Patients.

All admission cards are issued by the Chief of the Division of Communicable Diseases, and under no circumstances will a case be received into the hospital without first consulting his office. After receiving a card, the patient is sent to the Reception Hospital at the foot of East Sixteenth street or Health Department dock at the foot of East One Hundred and Thirty-second street, where they are transferred to the hospital on the steamship "Franklin Edson."

Class of Patients.

First-Voluntary cases.

Second—Compulsory cases.

Cases of the second class are those which are forced in by the Health Department as being a menace to the public health. These are removed by ambulance, and it is sometimes necessary to have an officer at the house to assist in the removal.

Discharge.

The method by which a patient procures a discharge is as follows:
Application is first made to the physician in charge who communicates the wishes of the patient to the Chief of the Division of Communicable Diseases. An Inspector is then directed to the home of the patient, and if he finds the premises conform to the Department regulation, he or she is then discharged. In case the Inspector's report is adverse, the patient is compelled to remain in the hospital.

Visiting Days.

The visiting days are Tuesday and Thursday, 10 a. m. to 12 m.; Sundays, 1 p. m. to 3 p. m. The boat leaves the Department of Health dock, foot of East One Hundred and Thirty-second street, fifteen minutes after the hour.

Medical Care of Patients.

On admission, a full history is taken.

Form of History—The same as that used in the tuberculosis clinics of the Department and at Otisville Sanatorium.

The temperature, pulse, respiration are taken between 5 and 6.30 a. m., and 2 and 4 p. m. Patients with a temperature above 100 are kept quiet in bed. Those that are normal are allowed to take a moderate amount of exercise.

Ventilation of Wards.

The wards are kept under forced ventilation at all times. The temperature varies between 50 and 60 degrees in winter. In summer they are open on all sides.

General Supervision.

The work is directly under the supervision of Dr. S. P. Watson, Resident Physician; Dr. F. S. Westmoreland, Assistant Resident Physician. The visiting staff consists of Drs. Knopf, Huddleston and Pulley. During the period of their service they visit the hospital once a week and can be called whenever it is found necessary to have their advice.

During the year 1906, 322 patients (male and female) were admitted.

The following table shows the nationality, occupation, age at entrance and the district in which they lived prior to their admission to the hospital:

Nationality.	
United States	158
Ireland	56
Russia	42
Germany	17
England	10
Scotland	
Italy	6
Sweden	4
Switzerland	3
Hungary	5
Austria	
Roumania	2
Norway	
Portugal	I
Poland	I
	====
Occupation.	
Laborer	62
Civil Engineer	I
Miner	1
Tailor	
Bookkeeper	
Truckman	
	0

Laborer	
Civil Engineer	1/1
Miner	
Tailor	
Bookkeeper	
Truckman	
Carpenter	
Clerk	
Plumber	
Musician	
Painter	
Druggist	
Cook	
Cigarmaker	
Peddler	
Fireman	
Soldier	
Housework	
Electrician	
Machinist	
Stenographer	
Butcher	

Barkeeper	
Factory	
Conductor	
Barber	
Porter	
Printer	
Waiter	
Pianomaker	err.
News agent	
Minister	2
Blacksmith	
Baker	1
Photographer	1
Janitor	7
Brewer	1
	====

Ten years	
Fifteen years	12
Twenty years	48
Twenty-five years	54
Thirty ware	34
Thirty years	50
Thirty-five years	46
Forty years	40
Forty-five years	28
Fifty years	22
Fifty-five years	IC
Sixty years	3
Sixty-five years	4
Seventy years	1
	===
Districts.	
Harlem Dispensary	***
	12
Presbyterian	28
Bellevue	
Gouverneur	42
Vanderbilt	4
Health Department Clinic	44
Brooklyn	63
Staten Island	5
Control actions in the control of th	2

The following table shows the results in the cases during the year 1906. The classification in stages is in accordance with that recommended by the National Association for the Prevention of Tuberculosis at entrance, duration in sanatorium and condition at exit:

	One Week.	One Week to Three Months.	Three Months to Six Months.	Six Months to Nine Months.	Nine Months to One Year.	Total
First stage	3	20	4	1		8
Second stage	8	57	29	5	8	107
Third stage	19	98	37	21	12	187
Dead	16	39	17	5		77
Progressed	10	96	28	12	10	156
Improved	4	40	25	* 10	10	89
Discharged	9	75	43	9	4	140
Hospital	5	61	10	13	16	105

Rules for Patients.

Rules for Patients.

1. Never spit on the grounds, on the floor of the wards or toilet rooms, into the sinks or anywhere except into the cup or bottle provided for that purpose.

2. You are required to carry your sputum cup or bottle with you wherever you go. Never leave it lying about on the grounds. If your cup is more than half full, exchange it for a fresh one at the place appointed for that purpose. If you have a bottle you must clean it yourself, according to the instructions you will receive from the Nurse. If you should accidently spill the contents of your sputum cup, inform the nurse or orderly of the fact, so that the place may be properly disinfected.

3. Never swallow your sputum. Don't cough unless you have to. Hold a piece of gauze before your face when coughing or sneezing. Avoid soiling your hands, face or clothing with sputum. Wash your hands before each meal.

4. Unless instructed by the doctor or Nurse to remain in bed, all patients able to walk must arise with the bell at 6 a. m. Patients must go to bed not later than 9.30 p. m., after which hour no games will be allowed in the ward.

5. Patients are not allowed in the wards while the same are being cleansed, nor at any other time during the day excepting by special permission of the doctor or nurse.

or nurse

6. The use of whiskey or alcoholic beverages other than those prescribed by the doctor is absolutely prohibited. There must be no smoking in the wards or toilet rooms. Boisterous conduct, profanity and load talking or quarreling are strictly pro-

8. Patients must not brush their clothing nor shake their blankets or bedding in

the wards Patients are not allowed to raise or lower the windows nor to meddle with

o. Patients are not anowed to raise or lower the windows not to medide with the valves of the radiators. If there is too much draught, or if it is too hot, inform the Nurse and she will make the necessary correction.

10. Your chances of getting well depend largely upon the observance of these rules. It is, therefore, to your interest to obey them and to see that they are followed by the other patients. The individual who breaks these rules is your enemy, and health the assembly recently to the Doctor or Nurse. If you have any other comshould be promptly reported to the Doctor or Nurse. If you have any other complaint to make, state the case to the Doctor.

DIVISION OF COMMUNICABLE DISEASES.

GENERAL STATISTICAL TABLE. Section 1-Communicable Diseases.

	Manhattan.	The Bronx.	Brooklyn.	Queens	Richmond.	Total
Population, 1904	2,061,907	256,924	1,321,403	189,046	71,743	3,901,023
Population, 1905	2,117,375	273,007	1,362,352	199,099	72,947	4,024,780
Population, 1906	2,174,335	290,007	1,404,569	209,686	74,173	4,152,860

		Manhattan.		The	Bronx.	Bro	oklyn.	Que	eens.	Rich	mond.	To	otal.
	1904.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906
General death rate per 10,000	218.2	187.4	*****	202.5		175.7		160.3	••••	190.4	.,,,	183.1	

	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		Total.		
	1904.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1900
(a) Tuberculosis.													
Total number of new cases reported	12,579	14,081	12,693	955	1,198	4,897	5,324	504	603	394	267	20,831	20,08
Total number of duplicates reported	8,199	9,106	7.537	358	664	2,026	2,202	19	206	133	132	11,642	10,74
Total number of cases reported by physicians and sputum	****	4,621	2,713	375	620	1,497	2,980	108	358	85	145	6,686	6,81
Total number of cases reported by institutions	****	6,492	6,975	235	424	1,189	1,896		91	280	122	8,196	9,50
Total number of deaths from tuberculosis	4,114	4,237	4,450	1,441	1,450	2,420	2,557	. 278	308	159	190	8,535	8,99
Death rate, pulmonary tuberculosis	998	20.01	20.00	52.78	49.99	614	18.20	74	14.68	41	28	1,714	1,97
Cases died in Manhattan	19.95		20.00	916	864		4	13.96	14.00	21.70	25.61	21.21	21.0
Cases died in The Bronx									****		. 56		
Cases died in Brooklyn					37				11		3		
Cases died in Queens				8			3						
Cases died in Richmond		****		3			****						
Corrected death rate		24.33	24.72	19.23	18.58		18.51		14.64		17.93		
Number of tuberculosis inspections	27,964	31,005	41,931	2,724	4,280	6,733	13,256	375	1,222	264	681	41,101	61,3
Number of living cases visited by Inspectors	6,724	6,945	6,164	242	637	1,683	3,207	104	251	70	76	9,044	10,33
Number of dead cases visited by Inspectors	3,919	3,638	3,568	353	701	1,690	2,519	214	447	47	87	5,942	7,32
Number of inspections made by Nurses	17,321	20,422	32,199	2,129	2,951	3,360	7,530	57	524	147	518	26,115	43,72
Number of cases not found at reported address Number of cases reported without a "home" address	••••	1,971	4,699	103	222	390	758	20	166	24	55	2,508	5,90
Number of cases reported to this office, but living in other boroughs	****	274	22	33	16	11	77		****	3	2	321	11
Number of cases gone out of town		****	1,271	117	65		62			****			***
Number of original complaints (renovations)	803	358	140	255	450	580	905	26	48				
Number of premises renovated voluntarily		705	384	21	44	342	706	26	251	1	17	1,219	1,54
Number of fumigations ordered	4,093	4,781	3,946	350	727	1,962	2,924	381	426	104	126	7,578	8,14
Number of cases forcibly removed to Riverside Hospital	35	17	23	2	12	13	24	2	2	1	3	35	(
Number of cases referred to charitable organizations	381	841	159		21	23	24			10	15	874	21
Number of cases referred to hospital	416	1,352	590	24	70	194	35	1	50	8	17	1,579	76
Number of patients supplied with milk		518	683	,			300					518	98
Number of patients supplied with eggs		642	677				301					642	97
(b) Typhoid Fever,													
Number of new cases reported	1,916	1,867	1,713	327	301	1,913	1,215	146	166	73	72	4,326	3,46
Number of deaths from typhoid fever	277	273	325	37	44	297	230	31	30	11	10	649	63
Number of deaths not previously reported		51	119	1	8	9	11	3	4		3	64	14
Death rate, typhoid fever, per cent	1.38	1.28	1.03	1.35	1.51	2.18	1.63	1.55	1.43	1.50	1.34	1.61	1.5
ase fatality, per cent	15.5	14.6	18.9	11.3	14.6	15.5	19.0	21.2	18.0	15.0	13.8	15.0	18.4
Number of typhoid inspections	3,248	1,400	2,421		333	1,861	1,421		181	4	26		4,38
Number of typhoid fumigations	****	50	92	6	62	20	154	4	29	1	7	81	34
Number of oyster inspections		****	27		8		4		1		8		4
Number of milk inspections		****	200		25	****	157		19		1	****	40:
(c) Cerebro-Spinal Meningitis.				716									
Tumber of new cases reported	1,044	1,892	679	118	72	689	241	38	21	18	19	2,755	1,03
Number of deaths from cerebro-spinal meningitis	1,003	1,424	545	87	55	455	184	48	10	12	12	2,026	80
Jumber of deaths not previously reported	. 06		228	4	17	24		****	5	1	3	29	25:
Death rate, cerebro-spinal meningitis	4.86	6.72	2.56	3.18	1.89	3.33	1.31	2.41	0.47	1.64	1.61	5.03	1.94
ase fatality, per cent		75.2	80.4	73.7	76.3	66.0 322	76.3		47.6	66.6	63.1	73.5	78.1
lumber of cerebro-spinal meningitis fumigations		900	2,346 464	54	20	304	188	16	54	50	7	2,557 1,288	3,135
		900	404	34		304	100	10	,	. 14	,	1,200	680
(d) Pneumonia.			1 416		747		3,761		-		286		£ -0.
umber of deaths from pneumonia	4,226	2,733	2,850	364	747 453	2,148	2,097	284	534 271	159	96	5,688	5,767
Death rate, pneumonia, per cent	20.49	12.90	13.10	13.33	15.62	15.76	14.92	14.26	12.92	21.79	12.94	14.13	13.88
fumber of deaths, broncho-pneumonia	3,181	2,889	3,141	153	238	951	1,460	100	212	33	50	4,126	5,101
eath rate, broncho-pneumonia, per cent	15.42	13.64	14.44	5.60	8.20	6.98	10.39	5.02	10.11	4.52	6.74	10.25	12.28
(e) Malarial Fever.	1977	2.11									3136		
fumber of new cases reported		172	221	24	26	70	76	2	23	91	78	359	424
umber of deaths	20	14	26	5	1	29	29	3	7	1	1	52	64
eath rate, per cent	0.09	0.06	0.11	0.06	0.03	0.21	0.20	0.15	0.33	0.14	0.13	0.12	0.15
(f) Erysipelas.													
umber of new cases reported		538	626	22	22	7	85	2	20	24 .	35	593	788
umber of deaths from erysipelas		179	190	9 .	12	69	8r	6	6	1	3	264	292
eath rate, per cent		0.84	0.87	0.32	0.41	0.50	0.50	0.30	0.28	0.13	0.40	0.65	0.70
(g) Puerperal Septicaemia.													
umber of new cases reported		5	25	11	21	3	28	11	24	9	18	39	116
umber of deaths	152	151	132	38	25	94	79	16	20	7	7	300	263
eath rate, per cent	0.73	0.71	0.60	1.39	0.86	0.68	0.56	0.80	0.95	0.97	0.94	0.76	0.63
Diagnosis Laboratory.													
umber of bacteriological diagnoses of suspected diphtheria		*13,362	14,104		2,111	7,051	7,792	653	906	514	503	21,580	25,416
amber showing K. L. B		*5,446	4,818		814	2,999	3,163	226	352	179	156	8,823	9,303
umber not showing K. L. B		*7,510	8,372		1,199	3,794	4,250	380	496	310	320	12,061	14,637
amber indecisive		*406	914		98	258	379	47	58	25	27	696	1,476
amber later cultures		*12,169	12,476		1,270	7,629	9,638	507	482	512	277	19,273	24,143
amber taken by Medical School Inspectors		*313	322				88					313	410
amber of trial cultures		*342	455	****	. 8	227	11				2		476
Tuberculosis Sputum.													
amber of specimens examined			4,730		1,273		5,044		405		327	18,639	21,779
umber showing tubercle bacilli		****	4,172		447		1,915		148		100	6,424	6,782
					452		3,129						11000

	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		Total.	
1904.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.	1905.	1906.
Widal Reaction.	1.1	1							1 5.1			
Number of specimens of blood examined	****	3,411		649		1,663		226		211	5,754	6,160
Number showing reaction	4444	753		151		461		71	****	57	1,229	1,493
Number not showing reaction		2,354		421		1,039		136	****	132	3,646	4,082
Number indecisive		304	****	77	****	163		19		22	879	585
Diazo Reaction.				. 5								n 5000'S
Number of specimens examined		618		102		421	****	71	1111	8	1,082	1,220
Number showing reaction		182		34		143	****	30		4	313	401
fumber not showing reaction	****	405		65		258		38		4	691	762
Tumber indecisive	****	31		3		20		3	45.1	****	78	57
Malaria.												
lumber of specimens examined	4494	697		115	****	291		38	****	57	1,035	1,198
Number showing malaria plasmodium		74		9	****	17		9		13	150	122
umber not showing malaria plasmodium	****	623		106		274		29		44	885	1,076
Miscellaneous.												
lumber of visits to collect specimens	****	9,164		3,640	****	12,824		3,276		2,547	31,999	31,451
fumber of laboratory preparations made	****	****		****	****	****			****		72,132	80,750
Number of culture tubes made	****							****			86,124	97,848
Number of swabs made	****								****		97,245	99,009
Number of sputum jars prepared						****				****	****	18,665
Number of Widal outfits prepared												5,597
Number of diazo outfits prepared			****					****				1,370
Number of malaria outfits prepared												2,230
lumber of cerebro-spinal meningitis outfits prepared						****				*		250
Cerebro-Spinal Meningitis,												
Number of specimens examined	****	24				2		****			****	26
Number showing meningococci		9				1						10
Number not showing meningococci	****	15				1	****				****	16

Antitoxin Injections-Inspectors' Records.

	Within One Hour.	Within Two Hours.	Within Three Hours.	Over Three Hours.	Total Visits
Manhattan—					
Brown	70	65	24	11	170
Burckhalter	90	59	14	24	187
Ennis	113	56	26	59	254
Finkelstein	46	83	24	9	162
Ghertler	225	99	16	34	374
Goetchius	128	77	15	37	257
Goldstein	210	157	37	16	420
Goodman	102	68	17	19	206
Kremer	151	84	26	14	275
MacAdam	123	62	15	47	247
Mahnkin	71	67	36	35	209
Rothwell	3	4	4	9	20
Schultze	52	32	20	23	127
Stevenson	208	45	16	36	305
Tannenbaum	336	21	15	6	378
Wilson	23	39	18	8	88
he Bronx—					
Dillenberg	87	60	10 .	8	165
Elliot	60	46	8	14	128
Klein	79	36	13	16	144
Pinckney	1	1		****	2
Brooklyn—					
Bedford	28	26	111	16	81
Beery	23	32	24	39	118
Blateis	43	33	32	62	170
Bowen	7	19	13	23	62
Eberle	5	10	3	15	33
Jones	80	38	13	17	148
Knause	26	36	38	54	154
Peacock	3	7	4	22	36
Peck	37	29	9	30	105
lucens—					
Lehman	19	50	23	9	101
Sheridan	33	12	9	8	62
Richmond—			100		
Patterson	20	10		6	36

RESEARCH LABORATORY.

The following report covers the essential features of the work carried out during 1906. After the ending of 1905 the practical refining of diphtheria antitoxin was definitely accomplished. Since then we have been treating all cases of diphtheria in Greater New York with this refined and concentrated antitoxin. In the hospital we have carefully watched the effect of this refining. We have done this by giving to half the children the serum in its non-refined state and then treating the other half of the children with the refined antitoxin.

the advantage of producing fewer rashes and other disagreeable symptoms. We have improved our methods of producing diphtheria antitoxin so that with less horses than in 1905 we produce more than twice as much diphtheria antitoxin. During 1906 more than 1,000 liters of serum were obtained from the horses, so that we now have quite a large supply on hand and have at present only ten horses in the stables.

Upon tetanus antitoxin we have done considerable experimental work. This has enabled us to refine it the same as diphtheria antitoxin. Wt have also shown by animal experiments that every minute of delay after the beginning of symptoms is a great loss in the probability of doing good by the injections of antitoxin. When during the early symptoms very large doses are given intravenously, we found not only in animals but also in men that good results were frequently obtained. It is interesting to note that the number of deaths from diphtheria in Greater New York was less during 1906 than any previous year.

There has been a good deal of activity in the study of hydrophobia as well as a great increase in the number of patients treated for the bites of rabid dogs. During the past year 323 persons have been treated. This, which is a considerable increase over 1905, took place largely in the fall, and is due to our development of mailing the Pasteur vaccine to the suburbs and to distant places. Much work has been done under the direction of Dr. Williams upon the cause of hydrophobia. This has divided itself into two different parts. First, the routine study of all brains sent in for diagnosis, and according to the product of the product of the parts of the parts.

into two different parts. First, the routine study of all brains sent in for diagnosis, and second, experimental work in guinea pigs to determine (a) the rapidity of development of the disease and the correspondence between the course of the disease

and second, experimental work in guinea pigs to determine (a) the rapidity of development of the disease and the correspondence between the course of the disease and the morphology and time of appearance of bodies; (b) the possibility of growth of the micro-organism in fresh brains removed from the animal.

The results obtained in the study outlined under 1 and 2a have been very helpful. In the first place, in confirming our work on the diagnostic value of the negri bodies, and secondly in adding new evidence in favor of the protozoan nature of the bodies. The work under 2b has just been begun, so we cannot give results.

The work on the etiology of vaccinia and variola has been continued and consists in the study of development of the vaccine bodies under the microscope in the living corneal tissue, and we are getting results which encourage us to think that we may be able to add the final proof as to the protozoan nature of these bodies. We have begun the serious study of the cause of scarlet fever. The section work on the etiology of scarlet fever is progressing slowly because of the few deaths which are occurring at the height of the disease. We have succeeded, however, in getting some good autopsy material which is being carefully studied.

A very important piece of work has been undertaken upon the agglutination of cultures of glanders bacilli by the blood of horses with either latent or developed glanders. This test indicates that a great many horses that were only suspected of having glanders really are infected. The great advantage of the agglutination test over the mallein test is that it does not disable the horse at all and does not keep the horse from work, even for a moment. There are still a number of points to be decided, as what degree of agglutination indicates strongly that the horse has glanders and what degree of agglutination makes the diagnosis positive. We are still actively engaged in the study of this question. Mallein is still being produced for the use of the Department and for those

We have been carrying on tests of the Opsonic index in cases of tiberculosis, which are being treated with the bacterial substances of the tubercle bacillus.

We have been aiding the New York County Medical Society in the supervision of a number of dairies, the examination of the milk being done free of charge in the

laboratory. Much work upon pasteurization has been started.

Disinfection continues to be overlooked by the laboratory, but no important

Disinfection continues to be overlooked by the laboratory, but no important work except of a routine nature has been carried on. Over 8,000 tests from rooms that have been disinfected have been made.

At the end of the year we are engaged upon the following problems: The refining of antitoxin, the use of vaccines in tuberculosis and other diseases, the value of the Opsonic test, the prevalence of glanders in the horses of New York and the use of the agglutination test in detecting it, the effect of different temperatures applied for different lengths of time upon the disease germs that occur in milk.

A routine manufacture of diphtheria antitoxin, tetanus antitoxin, mallein, tuberculin and vaccines for several diseases is being carried on as before.

VACCINE LABORATORY.

Report of the Work Performed at the Vaccine Laboratory During the Year 1906. The routine work has been carried on as in previous years and the accompanying table gives the statistical items.

Plant-On account of the expected construction of a new laboratory, few changes in Greater New York with this refined and concentrated antitoxin. In the hospital we have carefully watched the effect of this refining. We have done this by giving to half the children the serum in its non-refined state and then treating the other half of the children with the refined antitoxin.

The results of this observation have proven conclusively that the refining of the antitoxin not only has the advantage of giving a stronger antitoxin, but it also has

Routine—There have been few changes during the past year in the process of preparing vaccine virus. The ratio of pulp to glycerine mixture has been continued at 1 to 4. All the calves are now clipped closely on entrance to the stable, and the resulting increase in cleanliness of the animals is marked. No pathological condition was observed in the calves at autopsy during the entire year.

Since the demonstration in this laboratory of tetanus bacilli in calf faeces, it has been the practice to make an anaerobic culture from every collection of virus and test it for the presence of tetanus toxine. This work is performed as follows: A 3-inch test tube containing nutrient bouillon is inoculated with the contents of one capillary tube of vaccine virus. A 6-inch test tube is then prepared with one and one-third grains of pyrogallic acid and a short piece of potassium hydrate stick. The tube is one-half filled with water and the 3-inch tube is placed in the 6-inch tube so that the rim of the smaller tube rests on the rim of the larger. Both tubes are then covered with an inverted glass test tube and placed in a glass containing enough water to cover the mouth of the inverted tube, and thereby to prevent the entrance of air. The whole apparatus is then placed in an incubator at 37 degrees centigrade for forty-eight hours. On the removal the bouillon is filtered through a Berkfeld filter and the filtrate, which would contain any tetanus toxine present, is injected to the amount of ½ a cubic centimeter into a guinea pig. The pig is kept under observation for three days, and if there are no symptoms of tetanus the virus is deemed free of tetanus toxine. Since the adoption of this routine examination no virus has been found to show the presence of tetanus. To determine the presence of ordinary pyogenic organism, the contents of one capillary tube of vaccine virus are injected beneath the skin of another guinea pig, and this pig is kept under observation five days. During the year all the guinea pigs have shown no reaction

virus.

During the last three months of the year 769 tubes were so reclaimed and an

equal number of fresh tubes issued.

Experimental Work—When glycerine was first used as an emulsifying agent, the statement was made, and in part supported by experiments made in this laboratory, that the glycerine has an antiseptic effect on the germs contained in the vaccine pulp, that the glycerine has an antiseptic effect on the germs contained in the vaccine pulp. and that contact with the glycerine for a few weeks is sufficient to render the virus sterile, as far as the ordinary bacteria are concerned. It became early evident that while certain bacteria are easily killed, certain others are practically unaffected, and when these varieties are present, glycerinated virus a year or more old may contain many bacteria. While these bacteria are as a rule non-pathogenic, it cannot be positively asserted that in all cases there is no possibility that they may not contribute to inflammation at the site of inoculation. It is desirable, therefore, to get rid of these bacteria as far as possible, and experiments have been conducted to this

end.

It must be recognized, however, that the prime requisite of vaccine virus is not the production of a sterile fluid, but the production of a virus, which, when inoculated, will produce the disease vaccinia. It has been demonstrated in the laboratory, for example, that it is possible, by incubating the tubes of glycerinated virus for twenty-four to forty-eight hours, to increase the bacterioidal power of the glycerine, and to produce nearly sterile virus quickly, but the process of incubation is found to diminish the efficiency of the virus.

Experiments have been made by adding ½ per cent. carbolic acid to the glycerinated emulsion, and while it is found that this addition notably diminishes the number of bacteria present, it does not render the virus sterile. One per cent. carbolic acid in glycerine, however, kills the germs rapidly. It is the custom of the laboratory to make plate cultures and counts on each of two tubes of virus on the seventh day after collection, again on the fourteenth, again on the twenty-first, and finally on the twenty-eighth day after collection.

The counts vary considerably for the following reasons: The skin of one calf and the vesicles produced on it contain more bacteria than the skin and vesicles of another calf—the quantity of virus used in the count is not precisely fixed, for all the tubes do not contain exactly the same amount; the virus being an emulsion and not a liquid shows an uneven distribution of the bacteria, so that two drops of the same size from the same emulsion may give somewhat different counts. In other words, the count is recognized simply as an index of cleanliness.

The following table exhibits the average number of bacteria per tube found on each of the four dates from ten calves (a) while 50 per cent. glycerine was the only antiseptic, (b) while ½ per cent. carbolic acid in glycerine was the only antiseptic, and (c) after the introduction of 1 per cent. carbolic acid in glycerine:

Day.	Glycerine.	One-half Per Cent. Carbolic,	One Per Cent. Carbolic.	
7th	Innumerable	4,372	867	
14th	Innumerable	3,103	582	
21st	Innumerable	1,578	492	
28th	Lowest number in 80 plates, 2,629	622	285	

To determine the effect of carbolic acid upon the efficiency of the virus, the pulp taken from twenty-five successive caltues was mixed in each case one-half with ½ per cent. carbolic acid in 50 per cent. glycerine and the other half with 1 per cent. carbolic acid in 50 per cent. glycerine. The two sets of material from each calf were tested by repeated use in primary vaccinations over a period of months, and it was found that there was no difference between the two in the life

During the latter months of the year, therefore, the routine preparation of virus has been to emulsify it in 1 per cent. carbolic acid, 50 per cent. glycerine

and 49 per cent. water.

There have at times appeared observations on the possibility of producing the disease "vaccinia" by inoculating material taken from a vaccinated animal apart from the site of the vesicle, and this laboratory has made a number of tests on the presence of the specific organism of vaccinia in the inguinal glands of the calves inoculated. These observations are worthy of a special respect, because the glands were removed at autopsy after the skin containing the scars of the curetted vesicles had been removed, and because the autopsy was performed in the slaughter-house at a distance from the laboratory by a veterinary surgeon, who does not come in contact with the vaccine material, so that it may be safely assumed that there was no possibility that these glands became inbe safely assumed that there was no possibility that these glands became in-fected by contact with vaccine material. Parts of the glands were cut up and the glands mixed with 50 per cent. glycerine, and the material so obtained was examined bacteriologically and then used for primary vaccinations. It should be said here that cultures made from these were sterile in all but one instance, in which a diplococcus was found. Tests were made on glands taken from twenty-five calves, and the glands were removed at periods following the vaccination of the calves varying from six to twenty-two days. In two instances only out of the twenty-five were positive results obtained in primary vaccination. In one the gland had been removed thirteen days after vaccination of the calf, and in the other six days after vaccination. It is apparently demonstrated, therefore, that exceptionally the inguinal glands of the vaccinated animal may contain the specific organism of the disease. The spleen was tested in like manner twice, but in neither instance did a positive result follow use in primary vaccin-

made in this laboratory to determine the effect on the efficiency of virus of various degrees of dilution. It may be stated, first, that all'degrees up to one part of pulp in six parts of glycerine emulsion yield virus which is uniformly efficient if the virus is used promptly. A series of preparations in which the ratios of virus to excipient have been 1 to 2, 1 to 2½, 1 to 3, 1 to 3½, 1 to 4 and 1 to 5, have been watched and tested over periods of time extending in some cases to two years. Conclusions are difficult, because a strongly efficient virus in any of these dilutions will last much longer than a mildly efficient virus, but the tabular view of the results obtained indicates that up to the dilution of 1 to 4 there is no appreciable difference in the duration of the efficiency of the virus. High dilutions are uncertain because it is not at present possible to divide the pulp finely enough to permit its even spread through many times its weight of liquid. A dilution, for example, of one part of pulp to twenty-four of excipient has been found in many cases to be efficient when used in primary vaccination, but in a hundred primary vaccinations its percentage of efficiency is small. Experimentally dilutions have been prepared and tested ranging all the way from one part of pulp to six of excipient to one part of pulp to five hundred of excipient. Successful vaccinations are common with all dilutions up to one part of pulp and two hundred and fifty of excipient. Higher dilutions than the last rarely give successful "takes."

The amount of immunity granted by a single vesicle has been the subject of some debate.

cessful "takes."

The amount of immunity granted by a single vesicle has been the subject of some debate. Experiments have been made in the laboratory on the immunity against vaccinia produced by a single small vesicle on the calf. It is somewhat difficult to produce a small vesicle on the calf because even when the virus is pricked into the skin by one thrust of a needle the resulting vesicle may be of considerable size, one-quarter of an inch in diameter, for example. Three calves, however, were vaccinated so as to produce the smallest vesicle possible, and revaccinated two to three weeks after the original vaccination. In each case the revaccination failed, and it is inferred that at least against early revaccination the smallest vesicle possible to obtain on a calf affords immunity.

PATHOLOGIST.

Report of Work Performed During the Year 1906.

Autopsies have been conducted on cases dying of suspected communicable diseases when further investigation was deemed important. Also upon horses dying while being used for the development of antitoxins.

A larger part of the work is, however, represented by the production of antitoxins, the duties consisting of regular inspections of the horses and stable, supervision of injections and bleedings of the horses, and handling of the antitoxin in bulk. The total number of horses under treatment during the year was thirty-seven (37). Most of these were employed in the production of diphtheria antitoxins, and from twenty-six (26) of them so used antitoxin was obtained. This diphtheria antitoxin product is represented by a total of 1,680,685c.c., of which amount 165,355c.c. was in the form of serum and 1,515,330c.c. was citrated plasma.

From two horses injected with tetanus toxin there was obtained tetanus antitoxin to the extent of 24,450c.c.

A few horses were used for experimental inoculations with the toxins of dysentery bacilli, typhoid bacilli, streptococci and rabies.

A few horses were used for experimental industrial hydrogeneous bacilli, typhoid bacilli, streptococci and rabies.

The total number of injections was 662 and of the bleedings 319, the latter yielditerated plasma having a combined bulk of 1,704,975c.c.

KINGSTON AVENUE HOSPITAL.

Medical Work.

Three thousand seventy-eight (3,078) with three hundred seventy-two (372) accompanying have been treated as follows:

	Cases.
Remaining	165
Diphtheria, mortality rate, 31.3 per cent	399
Scarlet fever, mortality rate, 12.1 per cent	609
Measles, mortality rate, 12.6 per cent	
Small-pox, mortality rate, 5.5 per cent	108
Measles, scarlet fever and varicella	
Varicella, mortality rate, 5.6 per cent	
Pertussis, mortality rate, 5.8 per cent	11
German measles	
Diphtheria and measles, mortality rate, 21.7 per cent	
Diphtheria and scarlet fever, mortality rate, 22. per cent	
Diphtheria and varicella	I
Diphtheria and pertussis	1
Typhoid fever, mortality rate, 100. per cent	
Scarlet fever and measles	
Scarlet fever and varicella	
Scarlet fever and pertussis	
Measles and pertussis	
Measles and varicella	
Measles, scarlet fever and diphtheria	7
Measles, varicella and pertussis	
Measles and mumps	
Mumps	-
Measles, scarlet fever and pertussis	5
Varicella and pertussis	8
Scarlet fever and pertussis	

Of the diphtheria cases six (6) died within twelve (12) hours, fourteen (14) within twenty-four (24) hours, thirteen (13) within thirty-six (36) hours, and ten (10) within forty-eight (48) hours after admission. There were one hundred and fourteen (114) intubation cases, of which seventy-two (72) died.

It will be seen from the foregoing figures that the high death rate may be explained by the deaths occurring in those cases that were profoundly toxicated upon admission or in cases requiring intubation, but if the intubation and moribund cases are eliminated, the death rate is very much lower. I would also call your attention to the fact that a large percentage of the cases sent to our institution are in a poorly nourished condition and physically unable to combat the disease.

I would respectfully call your attention to the necessary cost of the treatment of mixed infections. You will observe that there have been five hundred and twenty-six (526) mixed infections in the hospital distributed over a range of nineteen (19) different mixed infections. It not infrequently happens that it is necessary to take care of a

ent mixed infections in the hospital distributed over a raise of infections in the hospital distributed over a raise of the cases are of a large number of different infections at one time, necessitating a Day Nurse, Night Nurse and a Ward Attendant for every infection. In most instances there would be only one or two cases to one isolation ward. The facilities of this hospital are wholly inadequate for taking care of these cases. At the present time there should be provided a number of admission wards where the cases admitted daily could be kept for the case admitted da observation until the incubation period of the various contagious diseases to which the patient is liable has passed. To prevent the spread of mixed infections in this hospital, where there are so many foreign patients admitted, from whom, and of whom, there is no possibility of getting histories, demands the utmost care on the part of the officials of the institution and the very best methods of isolation. Both of these factors are absolutely essential, the absence of either of them makes the spread of infection almost

There have been made (exclusive of diphtheria) five thousand six hundred and thirty-nine (5,639) examinations in the Pathological Laboratory, as follows:

Urines, four thousand six hundred and sixty-two (4,662); bacteriological examinations, exudates, etc., nine hundred and seventy-seven (977); of these five hundred and sixty-two (562) smears have been made from cases suffering from vaginitis, of that exceptionally the inguinal glands of the vaccinated animal may contain the specific organism of the disease. The spleen was tested in like manner twice, but in neither instance did a positive result follow use in primary vaccination.

The degree of dilution of the pulp by the glycerine mixture is one of the points of difference in vaccine laboratories' practice. Experiments have been and skry-two (502) shears have been finder hade them take been finder hade them from Cases stateling from the result follows the presence of an organism having which two hundred and ten (210) have shown the presence of an organism having the morthological and staining characteristics of the gonococcus, and the clinical aspect of the cases has been that of specific vaginitis. This disease has been of such an infectious character as to demand its isolation and treatment as that of a most communicable disease. All the female children admitted are held in an observation room until it can be determined whether vaginitis is present. This disease is so persistent that frequently a child has to be retained for some time after its recovery from the contagious disease for which it was admitted. The most favorably recommended therapeutic measures have been employed to cure this disease and for the last month systematic vaccinations have been employed with the view of raising the resistance of the children to such a degree that a cure will be effected. Too few cases have been observed to draw any conclusion as to the value of this mode of treatment. During the year a systematic study of the pathological lesions of the diseases treated in this hospital has been carried on in the Research Laboratory and will be continued during the year 1007.

Administrative Work.

Administrative Work.

There are on the grounds of the Kingston Avenue Hospital, thirty-one (31) buildings, as follows: Administration building, stable with annex, disinfecting station, kitchen, ice plant, storehouse and laundry, five (5) pavilions, diphtheria building, scarlet fever building, six (6) cottages, four (4) wigwams, boiler house, two (2) morgues, paint shop, two (2) incinerator houses, one (1) green house and the Nurses' home.

There are employed in the institution one hundred and ninety-nine (199) persons, as follows: Two (2) Hospital Physicians, five (5) Medical Internes, one (1) Matron ten (10) Hospital Clerks, of whom three (3) are detailed to the Tuberculosis Clinic in Jay street, one (1) is detailed to the Chief of the Ambulance service, two (2) are detailed to the Borough headquarters at Nos. 38 and 40 Clinton street, one (1) Superintendent of Nurses, fifty-one (51) Nurses, of whom three (3) are detailed to the Tuberculosis Clinic in Jay street, fifty-six (56) Domestics, of whom one (1) is detailed to the Tuberculosis Clinic in Jay street, five (5) Firemen, three (3) Carpenters, one (1) Telephone Operator, one (1) Gardener, one (1) Watchman, two (2) Orderlies, thirty-seven (37) Laborers, of whom two (2) are detailed to the Headquarters of the Borough, Nos. 38 and 40 Clinton street, two (2) are detailed at the Disinfecting Station of the Borough, eighteen (18) Drivers, of whom one (1) is detailed at Nos. 38 and 40 Clinton street, one (1) Driver detailed to the Visiting Physician of the Kingston Avenue Hospital and seven (7) Drivers detailed to the Disinfecting Station of the Borough, one (1) Helper, four (4) Engineers.

In estimating the cost of administration of this institution, the money expended on these special details should not be charged against the hospital.

During the past year permanent improvements have been added to the hospital, as follows: Pine trench completing the installation of the provise retaining

these special details should not be charged against the hospital.

During the past year permanent improvements have been added to the hospital, as follows: Pipe trench, completing the installation of the new steam system; retaining wall about the store house and laundry; enclosing the stairway of the dormitory; the erection of four portable wigwams for isolation purposes; the completion of new stable; completion of new incinerating plants; division of the rear half of pavilion No. 3 into four isolation rooms; painting interior of wards 2, 3, 5 and 6; the renovation of lavatories of wards 2, 3, 5 and 6.

The grounds of the hospital are being gradually filled in, there having been deposited several thousand loads of dirt during the year. This is being so distributed that in the spring the grounds will present a much better appearance. The difficulty of getting contractors to proceed rapidly with contracts awarded them on this plant, on account of men not wishing to work in the grounds of a contagious disease hospital, has made it necessary for us to have as much as possible of the repair and improvement work of the institution performed by our own employees. That you may have some information regarding the extent of this work it is detailed to you by Departments as follows:

Carpenters.

During the year 1906 the following permanent improvements have been made by the Carpenters of this institution: The raising of cottage No. 10 for the purpose of allowing the pipe gallery to be constructed under it and resetting it on its foundation (the lowest estimate submitted for this particular piece of work was over \$800); the erection of five tent platforms; the renovation and reconstruction of the bath rooms in pavilions 2, 3, 5 and 6; the subdivision of the north end of pavilion 3 into pavilions 2, 3, 5 and 6; the subdivision of the north end of pavilion 3 into four isolation rooms; the erection of platforms for four wigwam cottages, together with the sheathing inside of the same; the erection of 4,070 linear feet of shelving in the store rooms of the hospital; the erection of 400 feet of fencing; the partitioning off and sheathing the room of 2,000 cubic feet of space in the basement of the administration building; the installation of transoms for ventilation in the inside room of the stable dormitory; the partitioning off of a dormitory in the south half of the basement of the scarlet fever pavilion; the partitioning off of a storage room in the ice plant.

In addition to the permanent improvements, the carpenters have kept up the repairs of woodwork in the institution, as well as a number of days of repair work at the borough building at Nos. 38 and 40 Clinton street.

Engineering Department.

The following permanent improvements have been made by the Engineering De-

Installing new gas ranges in the administration building; running gas to doctor's room in basement; installing new steam line under pavilion 1 for cooking purposes; installing new gas range in pavilion 1; repairing steam coil in pavilion 1, and running new return line under building from heating system; installing new steam coils in pavilions 2 and 3; installing new return under pavilion 4 and new nipples in radiators in pavilions 4 and 5; installing new returns under pavilion 6; cutting out old water line in rear of pavilion 6 and putting in new one; putting boilers in running order; removing No. 3 sewer pump from boiler room to engine room and putting same in good order, thereby making practically a new pump out of same; redrilling blowers on Nos. 4-5 boilers; putting new grate bars in No. 3 boilers; putting new gas line in front of all of the five boilers; rebushing pulley for extractor in laundry; taking laundry engine apart and making same as good as new; taking down two old Nason straps from laundry drying room mangle and connecting same with our return system; putting new 2-inch steam line in laundry for heating sleeping apartments upstairs; taking extractor apart and putting same in good working order; repairing mangle; cutting new floor drain in laundry; lowering sewer line from stable that runs through tunnel: putting generator in stable for ambulance station; taking small sterilizer from old building; installing same in disinfection station; cutting through wall and building new wall around No. 1 sterilizer; drilling through wall to raise tracks; putting new gas ranges in Nurses' Home; putting new gas line in Nurses' Home to light the ice box; installing gas piping and fixtures in wigwams; running new cold water line under platform of wigwams; putting steam, hot and cold water, gas and sewer connections in wicwams after they had been removed to cottage platform, using on this job 200 feet of ½-inch pipe, 128 feet of 4-inch sewer pipe and 250 feet of 1-inch steam pipe, covering same with hair felt, as Installing new gas ranges in the administration building; running gas to doctor's inch return line between pavilions I and 2; taking coal elevator apart and putting same in good order; taking engine for coal elevator apart and repairing same: making new concrete floor between boiler room and coal shed; concreting floor in engine room where old boilers stood; new steam connection for sewer pumps; putting No. 2 sewer pump in first c'ass order; running gas in hallway of dormitory, over laundry and dormitory over storehouse: digging trench for new line of suction pipe from engine room to tank: calked all the joints on old 8-inch suction line; installed two new radiators in administration building.

In addition to the permanent improvements, the engineering department has kept up all of the current repairs for the year.

Painters.

All of the painting performed at this hospital during the year has been done by its own employees. Scraping and painting on the outside of pavilions 5 and 6; painting of the interior of pavilions 2, 3, 5 and 6, and the interior of pavilion 7, the painting of the interior of the wigwams and cottages and the enameling of the hospital furni-

ture.

The needs for further permanent improvements of this hospital are great, especially for dormitories, laundry and a kitchen.

The present dormitory facilities are entirely inadequate, it being necessary at the present time to house certain of the ward helpers in the basement of the scarlet fever pavilion. There is not in the institution a dormitory in which Orderlies can be housed. It has been the policy of the management of this institution to encourage male employees to lodge at their own homes. There should be kept on the plant a sufficient number of male employees at all times to meet any fire emergency. I would respectfully recommend that the proposed new administration building be provided as soon as possible and that the present administration building be made into a dormitory for domestics. Such a change would allow of the present female dormitories being used for male help.

Laundry.

The laundry of the present institution is entirely inadequate. It consists of one thousand four hundred and forty (1,440) square feet of floor space, two washers, one extractor, five stationary washtubs, one mangle and six hundred and eighty-eight (688) cubic feet of drying space. The number of articles passing through this laundry during the year was six hundred and forty-four thousand four hundred (644,400). The number of persons employed in the laundry is four-

You will see that in addition to the inadequate facilities the plant has been overcrowded by the employees. I would therefore respectfully recommend that the first improvement that takes place in the Kingston Avenue Hospital, after providing a new dormitory, be that of the erection of a laundry of a capacity sufficient not only for our present needs but for the needs of this institution ten (10) years hence.

Kitchen.

About thirty-six thousand (36,000) meals were served from the diet kitchen

About thirty-six thousand (30,000) meals were served from the diet kitchen of this institution during the year 1906.

The kitchen is one-half (½) of one of the old wooden pavilions. It has seven hundred and seventy (770) square feet of space, contains one (1) large coal range and is not provided with hot water system. For the first half of the year there was one steam cooker, the second one being installed in July. It has none of the furnishings of a modern kitchen. It is therefore recommended that the building next provided after the laundry be that of a kitchen adequate to the demand of this institution ten years hence. this institution ten years hence.

RECEPTION HOSPITAL.

Medical Work-1,954 cases with 52 accompanying have been treated as fol-

	Remaining	12
	Diphtheria	358
	Scarlet fever	489
	Measles	607
	Smallpox	44
	Mumps	1
	Varicella	21
	Pertussis	12
	German measles	4
	Diphtheria and scarlet fever	20
	Diphtheria and measles	87
	Diphtheria and varicella	3
	Diphtheria and pertussis	I
	Diphtheria, scarlet fever and measles	5
	Scarlet fever and measles	3
	Scarlet fever and varicella	2
	Diphtheria, scarlet fever and pertussis	1
	Measles and pertussis	9
	Measles and varicella	2
	Glanders	1
	Hydrophobia	1
	Cerebrospinal meningitis	16
ĺ	Tuberculosis	106
ı		===

Administration Work—26 persons are employed in the hospital work, as follows: I Supervising Nurse, 7 Nurses, 4 Orderlies, 6 Domestics and 8 Helpers.

The report of permanent improvements and general repairs to buildings is included in the report of the Willard Parker Hospital.

Respectfully submitted,

ROBERT J. WILSON, Superintendent of Hospitals.

Department of Health, Corner of Fifty-fifth Street and Sixth Avenue, New York, February, 1907.

Dr. WALTER BENSEL, Assistant Sanitary Superintendent, Department of Health:

Dear Sir—I have the honor to submit to you the following report of the work the Willard Parker Hospital for the year 1906.

The hospital did not receive any patients until March 14, 1906, so that the report actually shows about nine months' work.

Medical Work.

Nine hundred and eighty-eight cases, with 6 accompanying, have been treated as follows: 935 cases of diphtheria, 53 cases of scarlatina, 6 accompanying. The death rate in the diphtheria was 24.9 per cent. This high death rate is accounted for by the number of cases admitted, either profoundly intoxicated with diphtheria poison, as intubation cases, or cases complicated with broncho-pneumonia. The number of cases dying within 48 hours after admission was 81, 36 within 12 hours, 24 between 12 and 24 hours, 14 between 24 and 36 hours and 10 between 36 and 48 hours after admission. Thus it will be seen that 60 cases died before 34 hours after admission and it can be assumed that the majority were too much hours after admission, and it can be assumed that the majority were too much

poisoned to respond to treatment.

Intubation Cases—The total number of tube cases treated from March 14, 1906, to December 31 was 323. Of this number 153 were discharged cured and 170 died. When the fatal intubation cases are eliminated it is found that the mortality is only 8.4 per cent.

A complication that has caused a very great deal of annoyance and the most rigid adherence to isolation to prepare its spread has been various. There has

rigid adherence to isolation to prevent its spread has been vaginitis. There has been a large number of these cases, and in many instances they have persisted long after the contagious disease was entirely cured. Every therapeutic measure

been a large number of these cases, and in many instances they have persisted long after the contagious disease was entirely cured. Every therapeutic measure has been used to hasten their recovery. During the last month a number of cases have been vaccinated, with the hope of effecting a cure by the increase of opsonins in the blood. There have been too few cases to draw conclusions, but if results warrant it the treatment will be continued in the chronic cases.

On December 24, 1906, two wards in the new scarlet fever pavilion were opened, and cases of scarlet fever were admitted. Up to the 31st of December 53 cases were treated, with two deaths, with the mortality rate of 3.77 per cent.

Your attention is especially called to the expense of treating mixed infections. Each case suffering with a mixed infection with contagious diseases needs isolation, with one day Nurse, one night Nurse and one day Attendant. It is especially necessary that the hospital be provided with the proper receiving wards, where the cases admitted daily can be watched until after the incubation period of the acute contagious diseases. There is no proper place for isolation, excepting the Reception Hospital, which is inadequate. From the beginning of my administration, on April 1, 1906, a systematic study of the skin and mucous membranes of the diseases treated in the hospitals has been conducted. This work is being done in the Research Laboratory of the hospital, and is to be continued during the present year. The system of keeping histories in the hospital cases has been simplified by a new chart that it is hoped will make the clinical records of the hospital complete and easily accessible.

Visitors—Your attention is called to the necessity of regulating hours of visiting patients at the hospitals. On visiting days it is a common occurrence to see every child in a ward with thirty beds crying at once. The depressing, not to say dangerous, effect on very sick cases cannot be over-estimated. I would therefore recommend that visiting be

that only one person at a time be allowed to visit. In all cases of very sick patients the hospital notifies the interested persons that they may see the case at any time, under conditions approved by the physician in charge.

All visitors to the contagious hospitals are vaccinated.

Administration Work.

Two hundred and three persons are employed in the hospital work, as follows: Two Hospital Physicians, working in the Willard Parker and Reception Hospitals; I Hospital Physician, assigned to the Otisville Sanatorium; 4 Internes, working in the diphtheria and scarlet fever wards of the Willard Parker Hospital; 2 Hospital Clerks, working in the hospital; I Hospital Clerk, assigned to the tuberculosis clinic at Fifty-fifth street; I Hospital Clerk, assigned to the President's office; I Hospital Clerk, assigned to the Division of Communicable Diseases; I Hospital Clerk, assigned to the Vaccine Laboratory at the Willard Parker Hospital plant; I Matron of the Willard Parker Hospital; I Supervising Nurse; 37 Nurses, 2 of whom are assigned to the tuberculosis clinic; 2 Helpers, 3 Engineers, 8 Firemen, I Carpenter, I Elevator Man; 2 Drivers, assigned to the President's office; I Driver, assigned to the Division of Communicable Diseases; I Driver, assigned to the Disinfecting I Driver, assigned to the Division of Communicable Diseases; I Driver, assigned to the Assistant Sanitary Superintendent; 6 Drivers, assigned to the Disinfecting Station; 4 Ambulance Drivers; I Watchman, assigned to the drug laboratory; 2 Laborers, assigned to the Research Laboratory of the hospital; 2 Laborers, assigned to the vaccine laboratory; I Laborer, assigned to the Division of Communicable Diseases; I Laborer, assigned to Borough of Richmond; I Laborer, assigned to the Disinfecting Station; 2 Laborers, assigned to Fifty-fifth street building. Total number of assigned Laborers, 27. Total number of Domestics, 81. Four Domestics, assigned to the Fifty-fifth street building; I Domestic, assigned to the vaccine laboratory, and 10 Domestics, assigned to the Research Laboratory building. Your attention is called to the large number of employees of this institution who are on special detail. And in considering the expense of administration should not be charged against the hospital in estimating the cost of treatment per patient.

of treatment per patient.

I consider the various buildings, with the employees working therein, at the foot of East Sixteenth street, essentially of the hospital plant, but in estimating cost of maintenance each should be considered separately.

At the Willard Parker Hospital there are twenty buildings, as follows:

Disinfecting Station. Gatehouse. Ambulance Station. Vaccine Laboratory. Old Willard Parker. Boiler house. Coal storage house. Animal house. Morgue. Plague Laboratory building Research Laboratory building. Administration building. Reception kitchen. Inspector's house. Scarlet fever pavilion. Scarlet fever kitchen. Reception Hospital. Dock house. Reception storehouse. Avenue C annex.

During the year the following permanent improvements have been made: Avenue C Annex—Renovation of sidewalk; repairing rain leader with new cast iron pipe; alteration of the gaspipe system so that all gas is now controlled

by one meter.

Disinfecting Station and Dormitory—The second and third floors of the Disinfecting Station have been renovated and turned into a dormitory for hospital help, with 16 rooms and 48 bed capacity.

Ambulance Station and Vaccine Laboratory—New floors have been placed in the horse stalls of the ambulance station and the stalls placed in first-class condition. The Croton water supply pipe of the ambulance station, which formerly was defective, has been repaired. New electric fixtures have been installed throughout the ambulance station and Vaccine Laboratory.

Plague Laboratory—A new Nason steam trap, with necessary steamfitting, has been installed, so that the hot water supply is completely controlled and a permanent supply of hot water provided. The cold water supply pipe of this building has been replaced by a new pipe.

Morgue—The Morgue has been painted.

New Boiler House and Coal Storage—Have been completed. A new malleable iron blow-off pipe from the boiler house to the river has been installed. The electric lighting has been installed in the boiler house and coal storage.

Willard Parker Hospital and Annex—The Willard Parker Hospital has been renovated throughout, and was occupied for the first time since renovation on March 14, 1906. This building is now modern and up to date in every respect. Screens and awnings furnished throughout.

Administration Building—Has been turned over to the department and accepted, and is now fully occupied, the ground floors being used for administrative purposes and the floors above the ground floors being used for administrative purposes and the floors above the ground floors being used for administrative purposes and the floors above the ground being used as a Nurses' home. Since the building has been occupied the cellar has been partitioned off into storerooms for the Engineer, Hospital Clerk and storage for groceries and general storage.

New Research Laboratory—Shades and awnings have been furnished for this

New Research Laboratory—Shades and awnings have been furnished for this building. Vacuum pipes have been installed for the laboratory parts of the building. Two new chemical tables, with all appliances, water, gas, etc., have been supplied on the fourth floor. Windows and doors of the storeroom on the first floor and windows and doors throughout the cellar have been protected by heavy wire. Hot water bath for the chemical tables on the third floor have been installed.

Scarlet fever pavilion has been completed and opened, and on December 31

contained fifty-three patients.

The new kitchen for the Reception Hospital is nearly completed.

The Reception Hospital and Wating Room—Plumbing work has been repaired throughout and new cisterns furnished for the toilets. The waiting room on the dock has been painted.

The difficulty of getting emergency work done quickly in this hospital on account of the fear that workmen have that they may contract contagious disease here, and the subsequent delay and annoyance, has made it advisable to have all possible repair and permanent improvement work done by our own employees. I call your attention to the following improvements made in this way:

Engineering Department-Five-inch blow-off line from the boilers to the river. Sewers cleaned three times. Overhauling of the pumps and elevator in the Willard Parker Hospital. The making of all steam, gas and water connections and the installation of the sterilizing apparatus in the operating room.

Reception Hospital—One hundred and ten feet of defective water piping and

70 feet of steam piping renewed.

Scarlet Fever Building—Overhauling of pumps and one elevator. Renewing 30 feet of defective water piping and 20 feet of steam piping. Extending 10 new gas lines and the installation of 8 new electric fixtures.

Research Laboratory Building—Installation of gas piping for sterilizers. Installation of the vacuum apparatus in bottling room. Installing the gas attachments to one chemical table. Installation of the steam piping for the water baths in the Chemical Laboratory.

Administration Building—Overhauling 2 pumps, 2 steam traps, 1 elevator and the electric call bells.

Ambulance Station-Renewing 20 feet of water piping. Overhauling elevator

Vaccine Laboratory—Renewing 60 feet of water piping. Installing call bells. Renewing 30 feet steam piping and repairing of the vacuum pump.

Plague Laboratory—Renewing 25 feet of water piping. Renewing 20 feet of

Plague Laboratory—Renewing 25 feet of water piping. Renewing 20 feet of piping on the main steam line.

Boiler House—Overhauling of 2 pumps and 1 pump regulator. Repairing of the main steam lines. Repairing 2 blow-off valves, 1 steam trap. Repairing 4 stock valves. Repairing 3 regulators. Installation of 13 electric lights.

Annex Building—Overhauling of furnace. Installation of 10 feet of new pipe to furnace. Renewing 15 feet of water piping.

Besides this work, which represents permanent improvements, the engineering department has kept up all of the ordinary repairing in the water supply, gas and electricity.

and electricity. Carpenter Shop-The following permanent improvements have been made by

Carpenters: The erection of a fence around the grounds of the Willard Parker Hospital building. The erection of a fence making an animal yard. The partitioning off of storerooms in the cellar of the Research Laboratory and administration buildings. The erection of one large work table in the Chemical Laboratory and the erection of one work table in the Research Laboratory. In addition to this the Carpenters have kept up all minor repairs, such as repairs to doors and windows of the institution, besides the making of closets, shelves, etc., throughout the buildings of the hospital plant.

In the last year the greatly increased capacity for patients at this hospital has made it necessary to very much increase the number of employees, and your attention is called to the necessity of furnishing the hospital with the following:

buildings:

Dormitories for the Help—Under the present conditions about one-half of the female help is housed in what is called the Avenue C Annex, at Avenue C and Sixteenth street. The Domestics working in the administration building are accommodated on the top floor of that building, while the ward maids, as far as possible, are accommodated in the new dormitory over the Disinfecting Station. None of these buildings were intended for the purposes for which they are used, and as this plant group it will be absolutely preserve to provide proper dorminates. and as this plant grows it will be absolutely necessary to provide proper dormitory facilities for the care of the female help. I would respectfully recommend that the first improvements made by the Department of Health be that it furnish the proper dormitory for the female help employed in this plant.

the proper dormitory for the female help employed in this plant.

Male Help—All of the male employees have been encouraged to live on the outside. It would be impossible to keep them under the present conditions, but we are forced to provide sufficient room for enough men for fire protection. Aside from that no provision has been made to house male help. In the event of a new dormitory for the female help being provided it would give us the new dormitory over the Disinfecting Station, which is at present occupied by the female help, and which was originally intended for the male help. This would be sufficient for the needs of the hospital for about ten years.

Laundry—This hospital has no laundry, and is entirely dependent upon Riverside Hospital for its laundry work, with the exception of that done for the executive officers. This lack of a laundry has frequently seriously handicapped the executives of the hospital in keeping their wards in good condition. Furthermore, it is necessary under the present conditions to have one-third, if not a half, more articles in use than would be necessary were the laundry on the hospital grounds, this being occasioned by the fact that the actual amount of goods subject to laundry use is found in duplicate on the boat going to North Brother Island, in duplicate again on the boat being returned from North Brother Island. Furthermore, there is constantly trouble about getting the laundry returned properly, so that frequently it is necessary to wash diapers and other absolutely essential goods of the hospital and dry them in attics or over radiators as best we can. I

goods of the hospital and dry them in attics or over radiators as best we can. I would therefore respectfully recommend that the second building considered for this plant be a laundry, to be furnished as soon as possible.

Machine Shop—The engineering department is very much handicapped in their work by the fact that all steam, gas and water fittings must be purchased by the usual requisition routine, which takes so long a time that it frequently forces us to have work done on emergency requisition, which we would otherwise do

the usual requisition routine, which takes so long a time that it frequently forces us to have work done on emergency requisition which we would otherwise do ourselves. If the proper machine shop was installed in the hospital plant, a great many of the fittings that are now purchased would be made by our own men, and what is more to the point, can be furnished immediately when needed. I would therefore respectfully recommend that when the laundry building is provided that the basement story be fitted up as a machine shop, so that the power of the laundry may be utilized for the machinery in the machine shop.

Storehouse—The present storehouses are wholly unequal for the work they are called upon to do. At the present time we have one storeroom in the westerly end of the administration building and three rooms on the first floor of the same building, which are used for storage purposes. All of these are overcrowded and do not meet the demands of the hospital at its present size. When the new buildings now contemplated are completed it will be absolutely necessary to have new storehouses. It is therefore recommended that the Department of Health acquire immediately that portion of the gas company's grounds west of the east side of Avenue D, and that they appropriate the two-story brick building on those grounds for storehouse purposes.

The following is a report of the amount of work performed in the chemical labora-

The following is a report of the amount of work performed in the chemical laboratory during the year ending December 31, 1906:

The amount of work accomplished in number of analyses and variety has exceeded

that of any previous years.

It has comprised the examination of a varied class of substances, including foods, drugs, Health and other department supplies, medico legal examination, the testing of new methods and experimental work. Though principally for the Department of Health, it also represents a considerable amount for other departments, as will be seen

in the itemized statement. In addition to the analytical work should be considered the time of the chemists

spent in the courts as expert witnesses.

These results of the year's work are primarily due to the fact that the new laboratory at the foot of East Sixteenth street was ready for occupancy early in the year. The moving of the laboratory stock of apparatus and reagents for the Health Department building at Fifty-fifth street and Sixth avenue was begun about the first of February, and occupied two weeks.

This laboratory is much more convenient in its equipment of water, steam, electricity and light and much better arranged in its room division for analytical work.

The following is a detailed statement, alphabetically arranged, of the analytical

Alcoholic Beverages.

25 samples of alcoholic beverages were examined.
4 samples were examined for wood alcohol only, and were found to be free from it.
21 samples were examined for alcoholic composition and injurious ingredients with the following results:

Received From. Result. Cognac brandy B...... Martin Weiser, No. 1142 Second avenue...... Alcohol by weight, 37.31 per cent.; alcohol by volume, 44.43 per cent.; methyl alcohol, none. Jamaica rum...... F. Fischer, No. 203 East Sixtieth street...... Methyl alcohol, poisonous metals and arsenic, none.

No.	Sample.	Received From.	Result.
24857	Kummel	Dr. Nelson, No. 1413 Prospect avenue	Free from poisonous substances.
26851	Liquid (brown)	Arthur Louen, One Hundred and Seventy-first street and Brook avenue	Alcohol by weight, 44.59 per cent.; alcohol by volume, 52.15 per cent.; total solids (extract), 0.2 per cent.; methyl alcohol, none; tannic acid, high.
25006	Whisky No. 1	Chief Clerk's Office	Alcohol by weight, 37.55 per cent.; alcohol by volume, 44.67 per cent.; extractive matter, 0.52 per
25007	Whisky No. 2	Chief Clerk's Office	cent.; artificial coloring matter (coal tar colors), wood alcohol and ash, none. Alcohol by weight, 34.21 per cent.; alcohol by volume, 41.00 per cent.; extractive matter, 0.52 per cent.; alcohol by volume, 41.00 per cent.; extractive matter, 0.52 per cent.; extractive matter cent.
25008	Whisky No. 3	Chief Clerk's Office	cent.; artificial coloring matter (coal tar colors), wood alcohol and ash, none. Alcohol by weight, 34.94 per cent.; alcohol by volume, 41.79 per cent.; extractive matter, 0.32 per
25009	Whisky No. 4	Chief Clerk's Office	cent.; artificial coloring matter (coal tar colors), wood alcohol and ash, none. Alcohol by weight, 38.40 per cent.; alcohol by volume, 45.95 per cent.; extractive matter, 0.74 per
25391	Whisky	Wagon of D. Engle, No. 37 Clinton street, Yonkers	cent.; artificial coloring matter (coal tar colors), wood alcohol and ash, none. Alcohol by weight, 37.00 per cent.; alcohol by volume, 44.06 per cent.; methyl alcohol, extractive
25392	Whisky	Wagon of D. Engle, No. 37 Clinton street, Yonkers	matter and ash, none. Alcohol by weight, 31.75 per cent.; alcohol by volume, 38.18 per cent.; methyl alcohol and ash
25458	Whisky	Max Pollak & Bros	Alcohol by weight, 26.06 per cent.; alcohol by volume, 32.19 per cent.; extractive matter in 100 c. c.
25459	Whisky	Max Klein, No. 94 Avenue B	2.3612 gms.; artificial coloring matter (coal tar colors) and wood alcohol, none. Alcohol by weight, 36.31 per cent.; alcohol by volume, 43.26 per cent.; extractive matter in 100
25626	Whisky, rye	Andrew Sheridan, No. 375 First avenue	c. c., 0.5840 gms.; artificial coloring matter (coal tar colors) and wood alcohol, none. Free from wood alcohol.
26053	Whisky	Mr. Hauser, No. 510 East One Hundred and Nineteenth street	Free from wood alcohol.
26054	Whisky	J. Wolken, No. 2312 Second avenue	Free from wood alcohol.
26908	Whisky No. 1	Chief Clerk's Office	Alcohol by weight, 36.96 per cent.; alcohol by volume, 44.00 per cent.; extract, 00.32 per cent.
26909	Whisky No. 2	Chief Clerk's Office	Alcohol by weight, 37.02 per cent.; alcohol by volume, 44.06 per cent.; extract, 00.32 per cent.
26939	Whisky	John Steinberg, No. 322 Tenth avenue	Alcohol by weight, 39.27 per cent.; alcohol by volume, 46.75 per cent.; methyl alcohol, none.
27554	Whisky	Mrs. Mary Quinn, No. 243 West Sixty-first street	Free from wood alcohol.
24833	Wine	John Solari & Co., No. 336 Greenwich street	Alcohol by weight, 10.07 per cent.; wine gives reaction for traces of wood alcohol.
24872	Wine	John Solari & Co., No. 336 Greenwich street	Alcohol by weight, 12.71 per cent.; residue at 100 degrees C., 1.7 per cent.; ash, 0.244 per cent. total acidity, 42.3 c. c. N-10 acid per 50 c. c.; non-volatile acidity, 32.2 c. c. N-10 acid per 50 c. c.; volatile acidity, 10.1 c. c. N-10 acid per 50 c. c.
24892	Wine (white)	Freund, Tremont avenue, The Bronx	Free from poisonous substances.
25738	Wine	Captain Lantry's precinct	Alcohol by weight, 11.36 per cent.; alcohol by volume, 14.18 per cent.; extractive matter, 1.57 per cent.; ash, 0.1644 per cent.; artificial coloring matter, preservatives, benzoic and salicylic acids none; poisonous metals and chloral hydrate, none.
6188	Wine	Dr. Robert's office	Extractive matter, 11.38 per cent.; ash, 0.299 per cent.; alcohol by weight, 14.37 per cent.; alcohol by volume, 18.48 per cent.; heavy metals, artificial coloring matter, preservatives, benzoic ansalicylic acids, none.

Baking Powder.

No. Brand.	Where Purchased.	Results.	Available Carbon Dioxide.
24794 Egg	R. H. Macy, Thirty-fourth street and Broadway	Phosphate powder Phosphate and alum powder Tartrate powder Tartract powder Tartract powder Phosphate and alum powder	10.60 per cent. 5.12 per cent. 7.88 per cent. 12.02 per cent. 13.98 per cent.

Bread and Flour.

Vo.	Brand.	Where Purchased.	Results.						
733	Rye bread	L. Siegman, No. 67 East One Hundred and Ninth street	Free from dirt and other foreign substances.						
			Ash, o.80 per cent.; microscopic examination failed to show adulterations with foreign star						

Candy, Ice Cream, etc.

No.	Brand.	Sample.	Where Purchased,	Results.
27296 27297		Candy in bag No. 1 Candy in bag No. 2	Father Family Candy Store, No. 90 North Sixth street, Brooklyn Father Family Candy Store, No. 90 North Sixth street, Brooklyn	Free from poisonous metals and coloring matter. Free from poisonous metals and coloring matter.
25474 25475		Wild cherry drops	Franklin and De Kalb avenues, Brooklyn Franklin avenue and Park place, Brooklyn	Free from paraffin and poisonous metals; colored with a coal tar dye. Free from paraffin and poisonous metals; colored with a coal tar dye.
25476		Wild cherry drops No. 3	Franklin avenue and St. John's place, Brooklyn	Free from paraffin and poisonous metals; colored with a coal tar dye.
25477	Royal	Section 1 and a section of the contract of the	Adolph Hecht, No. 207 East Twenty-fifth street	Free from paraffin and poisonous metals; colored with a coal tar dye.
25553	Royal		E. Greenfield Sons & Co., No. 44 Barclay street	Free from paraffin, coloring matter and poisonous metals.
		B red		Free from paraffin and poisonous metals; colored with a coal tar dye; starch present.
27756		Pineapple No. 1	H. Sipe, No. 20 Desbrosses street	Sulphites in traces present.
27757		Pineapple No. 2	H. Sipe, No. 20 Desbrosses street	Sulphites in traces present.
27795	***************************************	Pineapple slices	.,	Free from sulphites.
25674		Caramels	James Mattor & Co., No. 113 Avenue B	Free from paraffin.
25675		Caramels	Ernest Hagedorn, No. 113 Avenue C	Free from paraffin.
25686		Caramels	Herman Boehlings, No. 273 First avenue	Free from paraffin.
25687		Caramels	L. Hoberg & Co., Nos. 119 and 121 Third avenue.	Free from paraffin.
25688		Caramels	Pietro Caparall & Calamaty, No. 124 Third avenue.	Free from paraffin.
25689	······	Caramels	Hemetrious Coomoolos, No. 238 East Fourteenth street	Free from paraffin.
25690		Caramels	Joseph Anrig, No. 983 Amsterdam avenue	Free from paraffin.
25691		Caramels	Plump's, No. 684 Columbus avenue	Free from paraffin.
25692		Caramels	Jacob Stechmann, No. 888 Amsterdam avenue	Free from paraffin.
25693		Caramels	Henry Fajen, No. 716 Columbus avenue	Free from paraffin.
25694		Caramels	I. M. Ossenbruggen, No. 746 Columbus avenue	Free from paraffin.
25695		Caramels	Pape's, No. 646 Columbus avenue	Free from paraffin.
25696		Caramels	Knippenberg's, No. 802 Columbus avenue	Free from paraffin.
25697		Caramels	W. R. Ersfeld, No. 848 Amsterdam avenue	0.17 per cent. paraffin present.
25698		Caramels	Henry Frerck's, No. 891 Columbus avenue	0.19 per cent. paraffin present.

No.	Brand.	Sample.	Where Purchased.	Results.
25699		Caramels	Henry Luming, No. 881 Columbus avenue	0.436 per cent. paraffin present.
25700		Caramels	Peter Jurg, No. 938 Amsterdam avenue	0.215 per cent. paraffin present.
25701	***************************************	Caramels	R. Eckhoff, No. 928 Columbus avenue	Free from paraffin.
25706	***************************************		Frank J. Mutterer, No. 483 Amsterdam avenue Henry Wittrock, No. 173 Amsterdam avenue	The state of the s
25707		Caramels		1.365 per cent. paraffin present.
25709		Caramels	Frederick Hoppe, No. 24 Amsterdam avenue	0.678 per cent. paraffin present.
25710		Caramels	Catherine Murray, No. 582 Columbus avenue	. 2.10 per cent. paraffin present.
25711		Caramels	J. Hollinger, No. 142 Columbus avenue	
25714	***************************************	Caramels	Elizabeth Kopf, No. 272 Third avenue	o.327 per cent. paraffin present. o.38 per cent. paraffin present.
25715		Caramels	H. Marcks, No. 453 Third avenue F. Woolworth, No. 262 Sixth avenue	Free from paraffin.
25718		Caramels	Henry Siegel & Co., Fourteenth street and Sixth	
		Canamala	The Mirror, Sixth avenue and Seventeenth street	Free from paraffin. Free from paraffin.
25719		Caramels	Siegel-Cooper Company, Sixth avenue and Eight-	
			D. F. Caramel Company, No. 463 Greenwich street.	Free from paraffin.
25721		Caramels	Dells, No. 1369 Broadway	Free from paraffin. 2.04 per cent. paraffin present.
27263		Chocolate creams	Dells, No. 1369 Broadway	1.03 per cent. paraffin present.
27295	***************************************	Chocolate cocoanut	Geo. Huncke, No. 1824 Amsterdam avenue	Free from paraffin.
25479		Chocolate	Adolph Hecht, No. 207 East Twenty-fifth street	
25551	U. N. O	Chocolate	Crave & Martin Company, Nos. 309 and 311 East	From from confine and too door and injurious transitions
~~~~	O. I. C. U	Chocolate	Twenty-second street	Free from paraffin, coal tar dyes and injurious ingredients.  Free from paraffin, coal tar dyes and injurious ingredients.
25552		Chocolate covered		
25716		Chocolate covered	Herman Hunsoth, No. 627 Second avenue	Free from paraffin.
24842		Chocolates	John Klein, No. 316 Third avenue  Loft's, Park row and Nassau street	Free from starch, poisonous metals and terra alba; artificial color trace.
24843	Powell's	Chocolate almonds	Moses Jandorf, No. 201 West Fifty-eighth street	Unadulterated.
25926	Powell's	Chocolate cream drops	Moses Jandorf, No. 201 West Fifty-eighth street	Unadulterated.
25450		Candy	A. Lombardo, No. 339 East One Hundred and Sixth street	Free from poisonous metals and mineral substances.
25478		Candy	Adolph Hecht, No. 207 East Twenty-fifth street	
25478		Candy	Adolph Hecht, No. 207 East Twenty-fifth street	Free from poisonous metals; colored with coal tar dye; 1 per cent. paraffin.
26263		Strawberries	John Boschen, No. 589 Amsterdam avenue	
26534				
25554	Cupid		Adrizzone F. Figli, No. 524 East Fourteenth street.	Free from poisonous metals; colored with a coal tar dye; paraffin present.  Coal tar dye and starch present; free from paraffin and poisonous metals.
25667			Emanuel Psardudakis, No. 381 Sixth avenue	Free from poisonous metals, starch and artificial coloring matter; 1.34 per cent. paraffin present.
25728			Emanuel Psardudakis, No. 381 Sixth avenue	Free from adulterants.
24825		Candy		Free from heavy metals; artificial coloring matter; coal tar colors present.
24842				Colored with a coal tar dye; artificial flavor present; free from mineral adulterants and poisonous metals.
25927	Extra Fine	And the second s	Moses Jandorf, No. 201 West Fifty-eighth street Moses Jandorf, No. 201 West Fifty-eighth street	Contains starch; free from artificial coloring matter, paraffin and poisonous metals; mineral matter normal.  Unadulterated.
25928	Hess Bros		Mrs. Belle Ravitch, No. 326 West Sixteenth street.	Free from heavy metals; artificial coloring matter; coal tar colors present.
27057			Abr. Shubkin, No. 830 Third avenue	Coal tar dyes and starch present.
27382			Dr. W. B. Robinson, No. 264 Crescent street	Coal tar dyes present; free from poisonous metals.
27549	Hawley & Hoops.		Hawley & Hoops, No. 267 Mulberry street	Free from wood alcohol and artificial colors.  Free from wood alcohol and artificial colors.
27550	Hawley & Hoops.		Hawley & Hoops, No. 267 Mulberry street  H. Sacher, No. 86 Forsyth street	Free from heavy metals; artificial coloring matter and starch present.
27568			H. Sacher, No. 86 Forsyth street	Free from heavy metals; artificial coloring matter present.
27509			A. Peterson, No. 2469 Broadway	Free from heavy metals and artificial coloring matter; starch present.
27704	Hildreth's	Original velvet candy.	H. A. Salman, No. 468 Canal street	Free from paraffin, artificial coloring matter and heavy metals.
27852			A. Frankfurter, No. 68 St. Mark's place	Free from artificial coloring matter and heavy metals; starch and licorice present.  Free from artificial coloring matter and heavy metals; starch and licorice present.
27797	Heide's		Alfred Erglander, No. 1651 First avenue	Artificial coloring matter and heavy metals absent; starch and licorice present.
27798			Herman Unger, No. 1643 First avenue Herman Unger, No. 1643 First avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.
27799			Finke Bros., No. 1655 First avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.
27801			Henry Mushin, No. 1545 First avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.
27802		And address to the contract of	Liedes, No. 1573 Avenue A	Free from artificial coloring matter and heavy metals; starch and licorice present.  Free from artificial coloring matter and heavy metals; starch and licorice present.
27803	·····		Lorenzed Benjamin No. 212 East Eighty-second	
27804	Duches	Flexible licorice	Bernard Benjamin, No. 312 East Eighty-second street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27805	100100000000000000000000000000000000000		Louis Kolsch, No. 1487 Avenue A	Free from artificial coloring matter and heavy metals; starch and licorice present.  Free from artificial coloring matter and heavy metals; starch and licorice present.
27847		Licorice tubes	A. Frankfurter, No. 58 St. Mark's place	Artificial coloring matter and heavy metals absent; starch and licorice present.
27848		Licorice squares	Louis Katz, No. 200 East Seventh street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27850		Licorice squares	Herman Brussow, No. 1493 Avenue A	Free from artificial coloring matter and heavy metals; starch and licorice present.
27851		Licorice raspberries	Louis Katz, No. 200 East Seventh street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27853			John Alberti, No. 113 Avenue B	Free from artificial coloring matter and heavy metals; starch and licorice present.  Free from artificial coloring matter and heavy metals; starch and licorice present.
27873		Licorice	Christopher Tietjen, No. 1660 Second avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.
27874		Licorice drops	Harry Greenberg, No. 1632 First avenue  Mark Rosenberg, No. 210 East Sixty-third street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27875	11001100100000		Samuel Hoffmann, No. 1836 Second avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.
27877		Licorice shoes	Mark Rosenberg, No. 210 East Sixty-third street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27878		Licorice balls	Harry Greenberg, No. 1632 First avenue	Artificial coloring matter (carbon) present; free from starch, heavy metals and licorice.
27879	***************************************	Licorice gum drops	Solomon Frechtmann, No. 1696 Second avenue	Free from artificial coloring matter and heavy metals; starch and licorice present.  Free from artificial coloring matter and heavy metals; starch and licorice present.
27880		Licorice pellets	Benjamin Strauss, No. 1685 Second avenue  David Haber, No. 193 Avenue B	Free from artificial coloring matter and heavy metals; starch and licorice present.
27912	Select	Licorice squares	Barnet Cooper, No. 307 East Eighth street	Free from artificial coloring matter and heavy metals; starch and licorice present.
27914			John Alberti, No. 113 Avenue B	Free from artificial coloring matter and heavy metals; starch and licorice present.
27916		Licorice strawberries.	Ferdinand Wolf, No. 96 East Fourth street	Free from artificial coloring matter and heavy metals; starch and licorice present.

No.	Brand.	Sample.	Where Purchased.	Results.	
27917		Licorice faces	Max Hein, No. 114 East Fourth street	Free from artificial coloring matter and heavy metals; starch and licorice present.	
27918		Licorice strings	Sam Manowitch, No. 196 East Fourth street	Free from artificial coloring matter and heavy metals; starch and licorice present.	
			Mrs. Belle Ravitch, No. 326 West Sixteenth street.		
71.00			G. B. Seely's Sons, No. 319 West Fifteenth street.	Free from heavy metals, artificial coloring matter and preservatives.	
			Louis Appelbaum, No. 376 Broome street	Sample is not polluted; free from poisonous metals.	
			Henry Heide, No. 84 Vandam street	Free from mineral acids.	
			Henry Heide, No. 84 Vandam street	Free from mineral acids.	

### Coloring Matter for Confectionery, Meats and Sausages.

No.	Brand.	Sample.	Where Purchased.	Results.
7230		Red color	H. Baron & Co., No. 311 Broome street	Sample is a coal tar color; minerals, none.
3159				Sample corresponds to carmine.
4883		Congo brown	G. Guigerich, No. 70 Amsterdam avenue	Sample is Congo brown G; is a harmless color.
4884			G. Guigerich, No. 70 Amsterdam avenue	Corresponds in reaction to a mixture of orange G and acid yellow G.
5911			Sussman Volt, No. 88 Delancey street	Contains coal tar dye.
25936		And the second s	M. Ettlinger & Co., No. 97 Front street	Contains coal tar dye,
25979		Color liquid	S. Oppenheimer, No. 100 Pearl street	Contains coal tar dye.
25980			S. Oppenheimer, No. 100 Pearl street	Contains coal tar dye.
25982			Geo. Bauer, No. 1208 First avenue	Contains coal tar dye.
5935			M. Ettlinger & Co., No. 97 Front street	Corresponds in reaction to Bismarck brown; is a coal tar dye.
26229		Sugar color	H. Baron & Co., No. 311 Broome street	Contains caramel.
26287		Silent blood color	E. P. Ham, No. 211 Washington street	Corresponds in reaction to Bismarck brown; is a coal tar dye.
7303				Contains a vegetable color; minerals, none.
7304		Candy coloring, vege- table green	F. G. Brewster & Co., No. 306 East Sixty-first street	Contains a vegetable color; minerals, none,
27306	***************************************	Candy coloring, car- mine red	F. G. Brewster & Co., No. 306 East Sixty-first street	Cochineal and aluminum present; aluminum probably base of color.
7308		Candy coloring	Auerbach & Sons, No. 334 West Thirty-ninth street	Sample is a coal tar color; minerals, none.
7309		Candy coloring	Auerbach & Sons, No. 334 West Thirty-ninth street	Sample is a coal tar color; trace of aluminum present.
7310		Candy coloring	Auerbach & Sons, No. 334 West Thirty-ninth street	Sample is a coal tar color; minerals, none.
7321		Pure red fruit color.	Conron & Co., No. 265 West Broadway	Sample is a coal tar color.
	Conron's	Orange color	Conron & Co., No. 265 West Broadway	Sample is a coal tar color.
7364	Lion	Red color	Rex Extract Company, No. 166 Duane street	Sample is a coal tar color.
7365		Red (coal tar deriva-	Des Festerat Company No. (C Description)	Sample is a goal tay solar
7366		Yellow (coal tar de-	Rex Extract Company, No. 166 Duane street	Sample is a coal tar color.
7452		Color, orange candy	Rex Extract Company, No. 166 Duane street Advance Novelty Company, No. 629 East Six-	Sample is a coal tar color.
7453		Color, yellow candy	Advance Novelty Company, No. 629 East Six-	Sample is a coal tar color; aluminum trace.
7454		Color, violet candy	Advance Novelty Company, No. 629 East Six-	Sample is a coal tar color; aluminum and iron trace.
7455		Color, orange candy	Hartog & Beinbauer Company, No. 617 West	Sample contains coal tar color, cochineal and aluminum.
7456		Color, red candy	Forty-seventh street	Sample is a coal tar color; aluminum trace.
7457		Color, lemon candy	Forty-seventh street	Sample contains eosin; minerals, none.
		Candy coloring	Forty-seventh street  Henry Heide, No. 84 Vandam street	Sample is a coal tar color; iron and aluminum traces.  Sample is a coal tar color; rosin present; minerals, none.
7519			Henry Heide, No. 84 Vandam street	Sample is a coal tar color; copper present.
7520			Henry Heide, No. 84 Vandam street	Minerals, none.
7521			H. Baron & Co., No. 311 Broome street	Artificial color (coal tar dye) present; methyl alcohol, none.

# Condensed Milk and Evaporated Creams.

	Brand.		Results.									
io.		From Whom Purchased.	Fat. Per Cent.	Proteids. Per Cent.	Cane Sugar. Per Cent.	Milk Sugar. Per Cent.	Ash. Per Cent.	Total Solids. Per Cent.	Milk Solids. Per Cent.	E. F. in O. M. Per Cent.	F. in M. S. Per Cent.	
864	Butler	James Butler, No. 1042 Second avenue	8.14	7.30	43.96	11.79	1.75	72.94	28.98	3.35	28.09	No. Ant. Unadul.
1865	Liberty	James Butler, No. 1042 Second avenue	9.54	8.31	43 - 54	12.39	1.75	75.53	31.99	3.93	29.82	No. Ant. Unadul.
899	Bouquet	Fourteenth Street Store, Fourteenth street and Sixth avenue	11.08	8.12	42.04	11.47	1.61	74.32	32.28	4.95	34.32	No. Ant. Unadul.
900	Sweet Clover	J. H. Holsten, No. 238 East Fifty-sixth street	10.32	8.29	40.84	11.48	1.75	72.68	31.84	4.25	32.41	No. Ant. Unadul.
1938	Essie	James Butler, No. 1141 Second avenue	9.90	7.56	42.32	10.22	1.71	71.71	29.39	4.16	33.69	No. Ant. Unadul.
939	Alderney	T. Anderson, No. 1136 Second avenue	9.87	8.91	43.23	12.32	1.76	76.09	32.86	4.04	30.04	No. Ant. Unadul.
1940	Grandmother	G. A. and P. Tea Company, No. 774 Third avenue	9.10	7-73	42.89	11.19	1.69	72.60	29.71	3.86	30.63	No. Ant. Unadul.
194	Coin	M. Frazer, No. 207 East Fifty-seventh street	11.53	8.49	39.93	11.59	1.87	73.41	33.48	4.43	34.44	No. Ant. Unadul.
195	Red Line	M. Frazer, No. 207 East Fifty-seventh street	11.32	8.67	39.27	11.09	1.94	72.29	33.02	4.20	34.28	No. Ant. Unadul.
196	Fox River Valley	M. Frazer, No. 207 East Fifty-seventh street	11.27	9.82	38.45	12.27	1.95	73.76	35.31	4.20	31.92	No. Ant. Unadul.
197	Sun	M. Frazer, No. 207 East Fifty-seventh street	11.45	9.13	38.86	10.75	1.88	72.07	33.21	4.40	34.48	No. Ant. Unadul
198	Snow	M. Frazer, No. 207 East Fifty-seventh street	11.01	8.67	39-49	11.62	1.85	72.64	33.15	4.29	33.21	No. Ant. Unadui
199	Lily	Dick Meyer, No. 1029 Second avenue	8.38	7.94	40.16	12.58	1.80	70.86	30.70	3.35	27.30	No. Ant. Unadul
200	Lion	J. Holsten, No. 238 East Fifty-sixth street	11.35	9.15	37.26	11.44	1.93	71.13	33.87	4.24	33.51	No. Ant. Unadul.
201	Wood Lane	J. Holsten, No. 238 East Fifty-sixth street	11.63	8.42	39.76	10.97	1.92	72.70	32.94	4.36	35.31	No. Ant. Unadul.
202	Nabob	M. Frazer, No. 207 East Fifty-seventh street	11.66	8.94	36.18	10.15	1.92	68.85	32.67	4-37	35.69	No. Ant. Unadul.
203	Cream	M. Frazer, No. 207 East Fifty-seventh street	11.40	8.64	39.29	12.39	1.88	73.60	34.31	4.37	33.23	No. Ant. Unadul.
204	Hunter	M. Frazer, No. 207 East Fifty-seventh street	8.71	8.15	43.87	11.36	1.68	73-77	29.90	3.74	29.13	No. Ant. Unadul.
		E. D. Meyer, No. 688 Third avenue	9.19	8.44	40.30	11.70	1.73	71.36	31.06	3.83	29.59	No. Ant. Unadul.
261	Crown Astor	A. F. Beckman, No. 1327 Second avenue	11.78	9.00	37.41	12.41	1.87	72.47	35.06	4.53	33.60	No. Ant. Unadul.
444	Our Best	R. I. Brooks, No. 714 Third avenue	9.35	7.94	41.75	10.39	1.70	71.13	29.38	3.96	31.83	No. Ant. Unadul.
445	Vermont	Bloomingdale Bros., Third avenue and Fifty-ninth street	9.21	8.15	43 - 47	10.26	1.74	72.83	29.36	3.81	31.36	No. Ant. Unadul.

			Results.										
No.	Brand.	From Whom Purchased.	Fat. Per Cent.	Proteids. Per Cent.	Cane Sugar. Per Cent.	Milk Sugar. Per Cent.	Ash. Per Cent.	Total Solids. Per Cent.	Milk Solids, Per Cent.	E. F. in O. M. Per Cent.	F. in M. S. Per Cent.	1 1 1 1 1 1 1 1 1	
25446	Republic	C. F. Riegger, No. 435 East Forty-ninth street	11.65	8.03	41.69	11.59	1.65	74.61	32.92	5.07	35-39	No. Ant. Unadul.	
25676		Charles E. Muller, No. 286 Howard avenue, Brooklyn	Samp	le is free	from tyr	otoxicon.			*				
25677		Charles E. Muller, No. 286 Howard avenue, Brooklyn	Samp	le is free	from tyr	otoxicon,							
25773	Darling	Andrew Davey, No. 1063 Second avenue	9.57	7.89	44.20	11.96	1.70	75.32	31.12	4.06	30.75	No. Ant. Unadul.	
25774	Meadow Brook	Andrew Davey, No. 1063 Second avenue	8.85	8.24	42.98	12.03	1.74	73.84	30.86	3.69	28.68	No. Ant. Unadul.	
25775	Champion	Andrew Davey, No. 1063 Second avenue	10.57	8.03	40.34	13.01	1.79	73.74	33.40	4.25	31.65	No. Ant. Unadul.	
25776	Hunter	John Holsten, No. 238 East Fifty-sixth street	8.66	8.32	43.23	11.21	1.78	73.20	29.97	3.51	28.89	No. Ant. Unadul.	
25777	Sweet Clover	Andrew Davey, No. 1063 Second avenue	9.82	8.70	42.56	13.22	1.89	76.19	33.63	3.73	29.20	No. Ant. Unadul.	
25778	Rustic	Andrew Davey, No. 1063 Second avenue	9.38	8.06	43.05	12.36	1.87	74.72	31.67	3.61	29.65	No. Ant. Unadul.	
26401	Butler's	James Butler, No. 353 Ninth avenue	8.99	8.05	44.30	10.31	1.86	74.40	30.10	3.48	33.48	No. Ant. Unadul.	
26402	Essie	James Butler, No. 353 Ninth avenue	8.65	8.23	45.06	12.91	1.96	73.85	28.79	3.18	30.05	No. Ant. Unadul.	
26774	Sweet Clover	Andrew Davey, No. 1063 Second avenue	10.00	8.02	42.95	13.29	1.83	76.09	33.14	3.94	30.17	No. Ant. Unadul.	
26775	Lily White	R. H. Macy & Co., Broadway and Thirty-fourth street	9.27	8.62	40.41	13.09	1.79	73.18	32.77	3.72	28.29	No. Ant. Unadul.	
26838	The Best	Joseph Schuss, No. 516 East Thirteenth street	8.99	7.93	38.71	12.13	1.74	69.50	30.79	3.67	29.20	No. Ant. Unadul.	
26839	Star	Joseph Schuss, No. 516 East Thirteenth street	9.22	8.44	43.82	11.23	1.91	74.62	30.80	3.48	30.00	No. Ant. Unadul.	
27097	Champion	L. Meyer, No. 813 Ninth avenue	10.00	7.89	41.77	-11.17	1.60	72.43	30.66			No. Ant. Unadul.	
27098	Silver Cord	H. N. Roehack, No. 749 Ninth avenue	12.45	7-45	40.86	11.16	1.58	71.92	31.06			No. Ant. Unadul.	
27425	Liberty	James Butler, No. 1042 Second avenue	8.63	8.07	41.33	10.55	1.70	70.34	29.01			No. Ant. Unadul,	
27426	Butler's	James Butler, No. 1042 Second avenue	7.79	7.89	44.22	12.42	1.73	74.05	29.83	****		No. Ant. Unadul.	
27427	Essie	James Butler, No. 1042 Second avenue	8.33	8.16	43.80	12.76	1.78	74.83	31.03			No. Ant. Unadul.	
27428	Jaxon		6.32	8.16	40.18	10.09	1.79	66.54	26.36	****		No. Ant. Unadul.	
27430	Jaxon		6.82	8.22	39.69	11.11	1.84	67.48	27.79	****		No. Ant. Unadul.	
27868	Oxford	F. D. Levine, No. 208 West Twenty-eighth street	10.03	8.16	40.89	12.29	1.56	72.93	32.04			No. Ant. Unadul,	
27945	Aldico	Allen Ditchett, No. 305 Greenwich street	6.80	10.34	42.06	10.77	1.58	71.58	29.52			No. Ant. Unadul.	

### Evaporated Creams.

			Results.									
No.	Brand.	From Whom Purchased.	Fat. Per Cent.	Proteids. Per Cent.	Cane Sugar. Per Cent.	Milk Sugar. Per Cent.	Ash. Per Cent.	Total Solids. Per Cent.	Milk Solids. Per Cent.	E. F. in O. M. Per Cent.	F. in M. S. Per Cent.	
24866	Silver Cow	James Butler, No. 1042 Second avenue	8.8r	****			1.83	30.41		3.47	28.97	No. Ant. Unadul
24867	Diamond	James Butler, No. 1042 Second avenue				is. Heavy	coagula	tion. Ac	id reaction	n, odor a	id taste.	0.40365 per cent
24897	Our Pet	Fourteenth Street Store, Fourteenth street and Sixth ave-		etic acid 1			1.62	29.09		3.72	28.81	No. Ant. Unadul
24898	St. Charles	Fourteenth Street Store, Fourteenth street and Sixth avenue	8.38 Conte	nts of car	curdled.	1.58625				3.72	20.01	
24937	Diamond	James Butler, No. 1042 Second avenue	Conte	nts of car	n heavily	curdled.	Content	of can	required	96.25 c.	c. tentl	normal alkali to
25262	Van Camp's	George Neckermann, No. 188 East Sixty-fourth street	8.21	eutralize e	quivalent	to 0.86625	1.44	26.51	ic acid,	4.11	30.97	No. Ant. Unadul
25263	Pet	A. F. Beckman, No. 1327 Second avenue	8.40				1.69	28.46		3.57	29.51	No. Ant. Unadul
25486	Van Camp's	Nich. Rosenberger, No. 1989 Third avenue	7.50				1.39	25.89		3.89	28.97	No. Ant. Unadul
25772	Borden's Peerless	Andrew Davey, No. 1063 Second avenue	8.55				1.59	28.76		3,89	29.73	No. Ant. Unadul
25771	Gold Cross	Andrew Davey, No. 1063 Second avenue	8.40				1.74	28.87		3.49	29.10	No. Ant. Unadul
26770	Gold Cross	Andrew Davey, No. 1063 Second avenue	8.66					28.20		3.61	30.71	No. Ant. Unadul.
26771	Van Camp's	Bloomingdale Bros., Fifty-ninth street and Third avenue	8.40					30.62		3.19	27.43	No. Ant. Unadul,
26772	Lily White	R. H. Macy & Co., Thirty-fourth street and Broadway	8.45					28.50		3.67	29.65	No. Ant. Unadul.
26773	Highland	Bloomingdale Bros., Fifty-ninth street and Third avenue	8.88					27.02		4.29	32.86	No. Ant. Unadul.
27096		H. N. Roehack, No. 749 Ninth avenue	8.14					28.26				more than 25 per
27429	Silver Cow	James Butler, No. 1042 Second avenue	8.90	****				30.93	Sample u	milk solid nadulterate milk solid	d. Fat	more than 25 per
24910		Dr. Robert's office. Marked Mrs. Lottie Curry, No. 242		ered the t		amount of	farsenic	equivale				grammes, equal to

## Condiments, Catsup, Pickles, etc.

No.	Sample.	Brand.	From Whom Purchased.	Results.
24837	Catsup	Long Island	samuel Roth, No. 1132 First avenue	Sample colored with coal tar dye. Benzoic acid present,
24841	Catsup	Heinz		Free from artificial coloring matter-coal tar dye, benzoic and salicylic acids.
24868	Catsup	Pride of the Farm	f. Pollak, No. 873 Third avenue	Free from artificial coloring matter—coal tar dye and benzoic acid.
24914	Catsup			Free from artificial coloring matter-coal tar dye. Benzoic acid present.
25683	Catsup	Blue Bell		Free from artificial coloring matter-coal tar dye. Benzoic acid present.
26626	Catsup	Long IslandF	ranz Keller, No. 1888 Second avenue	Free from artificial color (coal tar), salicylic and boric acids and borax. Benzoic acid present.
27484	Catsup	Sunbeam		Free from artificial color (coal tar), salicylic and boric acids and borax. Benzoic acid present.
27499	Catsup	Heinz		Free from artificial color (coal tar), salicylic, benzoic and boric acids and borax.
27854	Catsup	Columbia	Columbia Conserve Company, No. 247 West Broadway	Free from artificial color (coal tar). Benzoic acid calculated to sodium benzoate, 0.12 per cent.
4015	Worcestershire sauce	********************		Free from artificial coloring matter and preservatives.
6463				Free from artificial coloring matter, preservatives and poisonous metals.
26762			tainbandt & Strassbourger Fighty-sixth street and	Free from hydrochloric acid, sulphuric and phosphoric acids. Total solids, 2.70 per cent.; ash, 0.24 per cent.; acidity (acetic acid), 4.14 per cent.; ash per cent. Total solids, 8.74 per cent. Sample is cider vinegar.
7196	Salt	F	ischer & Co., No. 2325 Second avenue	Free from sulphurous acid.
27483		¥		Free from mineral acids, copper and zinc salts. Acetic acid present.
7497				Free from mineral acids, copper and zinc salts. Acetic acid present.
27498	Committee of the Commit			Free from mineral acids, copper and zinc salts. Acetic acid present.
27562	Mixed pickles	R	echt & Rosenbaum, No. 419 East Seventy-seventh	Free from mineral acids, copper and zinc.

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No.	Sample.	Brand.	From Whom Purchased.	Results,
27563	Gherkins	Recht	& Rosenbaum, No. 419 East Seventy-seventh	Free from mineral acids, copper and zinc.
27777	Sweet mixed pickles	Edw.	Rafter, No. 630 Hudson street	Free from mineral acids and copper,
27776	Mixed pickles	Edw.	Rafter, No. 630 Hudson street	Free from mineral acids and copper.
27493	Chow chow	Crosse & Blackwell		Free from mineral acids, copper and zinc. Acetic acid and turmeric present.
27494	Chow chow	Heinz		Free from mineral acids, copper and zinc. Acetic acid and turmeric present.
27564	Chow chow	Recht	& Rosenbaum, No. 419 East Seventy-seventh	Free from mineral acids, copper and zinc. Turmeric present.
27495	Apple butter	Heinz		Free from artificial color (coal tar), salicylic, benzoic and boric acids and borax,
26190	Salt			Sample consists of the chlorides and sulphates of sodium and potassium.
26102				Sample is a distilled product, containing some acetic acid and some mineral aci
27332			ahlstadt, No. 699 Tenth avenue	Solids 4.20 per cent., ash 0.542 per cent. Total acidity, 4,20 per cent. as acet acid, mineral acid 2.12 per cent. as sulphuric acid; hydrochloric absent; su phuric acid present.
27487	Vinegar			Specific gravity, 1.0181; acidity (acetic acid), 4.56 per cent.; ash, 0.36 per cent. Total solids, 2.38 per cent. Mineral acids, none.
27502	Vinegar, pure cider	Heinz		Specific gravity, 1.0183; acidity (acetic acid), 5.40 per cent. Total solids, 2.5 per cent.; ash, 0.38 per cent. Mineral acids, none.
25210	Horse radish	Fatt 1	Bros., No. 1161 Second avenue	Free from preservatives other than acetic acid.
27921				Free from artificial color (coal tar). Benzoate of sodium, 0.19 per cent.

#### Disinfectants and Preservatives.

No.	Sample.	From Whom Received.	Result.
4823	Formaldehyde	Dr. Wilson	Formaldehyde, 39.34 per cent.; specific gravity, 1.060.
24904		Dr. Wilson	Formaldehyde, 39.72 per cent.
4964		Dr. Wilson	Formaldehyde, 39.48 per cent.
25169		Dr. Wilson	Formaldehyde, 38.60 per cent.
25238		Dr. Wilson	Formaldehyde, 7.25 per cent.
27894	Winter of formaldshude and notacium	Dr. Wilson	Formaldehyde, 1.00 per cent.
		Borough of Brooklyn	Sample forwarded to Bacteriological Laboratory and reported from there.
25779			Sample forwarded to Bacteriological Laboratory and reported from there.
5780		Borough of Brooklyn	Sample forwarded to Bacteriological Laboratory and reported from there.
5781			Sample forwarded to Bacteriological Laboratory and reported from there.
5782		Borough of Brooklyn	Sample is a mixture of sodium chloride and borax.
6242		Dr. Bensel	
6243		Dr. Bensel	Sample is a mixture of sodium chloride, potassium nitrate and borax, and is colored with an anili dye.
6244		Dr. Bensel	Sample is a mixture of sodium chloride, potassium nitrate, borax and boric acid.
		Dr. Bensel	Sample is a mixture of sodium chloride and boric acid.
6246		Dr. Bensel	Sample is a mixture of sodium sulphite and sulphates.
6247	Zanzarine	Dr. Bensel	Sample is a coal tar dye, and gives a reaction for bismark brown.
		Purchased From-	
5442	Borax, "20 Mule Team Brand"	Leon Hirsch, No. 368 Greenwich street	Corresponds to requirements of U. S. P., 1900.
	Borax, "20 Mule Team Brand"	Bloomingdale Bros., Fifty-ninth street and	Corresponds to requirements of U. S. P., 1900.
		Third avenue	Sample contains a coal tar dye. Borax, boric acid, sulphites and paraform absent,
495	Preservative powder	Otto Stahl, No. 2332 Second avenue	Sample contains a coal tar dye. Borax or boric acid and sodium chloride.
933	Preservaline	J. Heussner, No. 24 Forest avenue, Queens	Sample contains a coal far dye. Borax or boric acid and sodium chioride.
301	Liquid used on tripe	Swift & Co., Eleventh avenue, between Thirty-fourth and Thirty-fifth streets Swift & Co., Eleventh avenue, between	Free from borax.
302	Liquid used on beef	Swift & Co., Eleventh avenue, between Thirty-fourth and Thirty-fifth streets	Free from borax,
829	Exhausted paraform	Dr. Wilson	Formaldehyde, 0.975 per cent.
893	Paraform	Dr. Wilson	Formaldehyde, 94.9 per cent.
-	Preservaline	Division of Inspections	Found borax, sodium chloride and probably a nitrate. A coal tar dye is present.
024	Preservaline	Division of Inspections	Sample contains borax, salt and sulphates.
020		Division of Inspections	Sample contains borax, salt, sulphates, nitrates and coal tar dye.
088	Preservative	Division of Inspections	Sample contains borax, salt and coal tar dye.
977	Sausage preservative	Division of Inspections	Sample contains borax, salt and sulphates,
5978		Division of Inspections	Sample contains borax, salt, sulphates and nitrates.
6087		Division of Inspections	Sample contains nitrates with a trace of chlorides.
	Beef pickle	Division of Inspections	Sample contains borax and salt.
		Division of Inspections	Sample contains borax, salt, sulphates and nitrates.
6019		Division of Inspections	Sample contains nitrates, salt and sulphates.
5021		Division of Inspections	Sample contains nitrates, salt, sulphates and borax.
6022		Division of Inspections	Sample contains borax, salt and sulphates.
	And the second s	Division of Inspections	Sample conforms to the requirements of the U. S. P.
7157		Division of Inspections	Sample conforms to the requirements of the U. S. P.
		Division of Inspections	Sample conforms to the requirements of the U. S. P.
7159		Division of Inspections	Sample conforms to the requirements of the U. S. P.
7160	Anna	Division of Inspections	Sample conforms to the requirements of the U. S. P.
27161			Sample conforms to the requirements of the U. S. P.
7162		Division of Inspections	Sample conforms to the requirements of the U. S. P.
7163			Chlorides, bicarbonates and boric acids present. Free from phosphates and sulphates,
7431	Borax, Crescent brand	Division of Inspections	Constitution and south acres became a see brooking and authorities.

^{*} Should follow Borax 26443.

I water

### Drugs and Medicines.

lo.	Sample.	From Whom Received.	From Whom Purchased.	Results.;			
242	Acacia, gran	Drug Laboratory		Sample complies with the requirements of the U. S. P.	- 47	-	
25	Aloes, pil	Drug Laboratory		Pills are made of soap and aloes.			

No.	Sample.	From Whom Received. From Whom Purchased.	Results,
25126	Aloes, pil	Drug Laboratory	Pills are made of soap and aloes.
25127	Aloes, pil	Drug Laboratory	
25304	Aloes	Drug Laboratory	Moisture, 6.71 per cent. Water soluble, 69.85 per cent. Fairly clear solution, 1 gm. to 5 cm.3 alcohol (95 per cent.).
25305	Aloes, gum	Drug Laboratory	Moisture, 6.05 per cent. Water soluble, 78.59 per cent. Fairly clear solution, 1 gm. to 5 cm.3 (alc., 95).
25343	Aloes, barbadoes	Drug Laboratory	Moisture, 5.81 per cent. Water soluble, 74.63 per cent. Fairly clear solution, 1 gm.
25075	Aconita leaves A est	Drug Laboratory	to 5 cm.3 (alc., 95).
25317	Aconite, ground	Drug Laboratory	Found 0.274 per cent. alkaloids.
25318	Charles of the second of the s	Drug Laboratory	
25569	Aconite, fl. ext		Found 0.12 per cent. alkaloids.
25581		Louis Youngwitz, No. 1855 Lexington avenue	
25788		Drug Laboratory	
25798	Aconite root, powdered	Drug Laboratory	그 것이 하는 아이들이 하는 것이 되었다면 하는데 얼마나 가는 것이 하는데 가지 않아 하는데
25894		Drug Laboratory	
24742	Alcohol, absolute	E. R. Squibb & Sons	Sample is chemically pure.
25860			
25588			
25050		Drug Laboratory	
25152		Drug Laboratory	
25154	and the second s	Drug Laboratory	
25155	Control of the Contro	Drug Laboratory	
25286		Drug Laboratory	
25287		Drug Laboratory	
25298		Drug Laboratory	
25600		Drug LaboratoryH. C. Miner, No. 203 Bowery  Drug Laboratory	
25789		Drug Laboratory	
25797 25801	Belladonna leaf, powd		
25897	Belladonna, fol	Drug Laboratory	
26792	Belladonna, radix		
26793	Belladonna root	Drug.Laboratory	
26794	Belladonna root	Drug Laboratory  Drug Laboratory	
26795		Drug Laboratory	
25796		Drug Laboratory	
25621	Bismuth subnit	F. Franciulli, No. 223 Grand street	Bismuth oxide on ignition of 1 gram, 0.80. Free from heavy metals, copper, lead and arsenic. Sample conforms to requirements of Pharmacopæia.
27166		E. Nall, No. 48 Grand street	
25057			Found 19.598 gms. solids per 100 cc. Ether extract from the acid solution equals
	D 1 0	Descr I sharetow	3.311 gms. per 100 cc.  Found 20.03 gms. solids per 100 cc. Ether extract from the acid solution equals
25058			4.015 gms. per 100 cc.
25328		Drug Laboratory	
25329		Drug Laboratory  Drug Laboratory	
25330		Drug Laboratory	
25331	Buchu, powd	Drug Laboratory	
25410	Buchu, tinct	Drug Laboratory	Found 0.6422 per cent. extractives with ether from weak acid solution.
25411	Buchu, tinct	Drug Laboratory	
25412	Buchu, fl. ext	Drug Laboratory	
25413	Buchu, fl. ext	Drug Laboratory	
25414		J. B. Fragner, No. 522 West One Hundred and	
25455		Fifty-first street	Conforms to the requirements of the U. S. P., 1900.
24855	Bovinine	Drug Laboratory	Found 16.54 per cent, protein by weight. Borax, .1098 gms. per 100 cc. Free from alcohol, alkaloids, chloral. Borax, 1.684 grs. per 100 cc. and cocaine.
25138	The state of the s	Drug Laboratory	
25139	Control of the Contro	Drug Laboratory	
25140	The state of the s	Drug Laboratory	
25427	The state of the s	Drug Laboratory	
25428	And the second of the second o		Residue equals 29.67 per cent., which is somewhat low. Free from wood alcohol.
25555			Found 34.92 per cent. acetanilid. Starch used as a filler. Free from quinine,
		Brooklyn	morphine, opium, alkaloids, chloral and cocaine.
25131	Commission and the State of the	Drug Laboratory	
25132	Cannabis indica, powd. ex	Drug Laboratory	Found 11.402 gms. of etherial extract from the ammoniacal solution per 100 gms. of the drug.
25282	Cannabis indica herb, powd	Drug Laboratory	Found 20.937 per cent. extractive with fluid extract menstruum.
25299		Drug Laboratory	
25426		Drug Laboratory.	
25565		D. Shapira No are Ninth average	
		P. Shappiro, No. 740 Ninth avenue H. Guelmans, No. 423 Second avenue	
25729		Bockshitzky Bros. & Co., No. 69 Avenue C	
25730			
25731	Carbolic wash	Selig Lesser, No. 59 Avenue D	Sample contains 1.65 per cent. carbolic acid.
25737		Bockshitzky Bros. & Co., No. 69 Avenue C	
25302	Control of the Contro	Drug Laboratory	
25323		Drug Laboratory	
25060		Drug Laboratory	
-			

No.	Sample.	From Whom Received. From Whom Purchased.	Results,
_		Drug Laboratory.	Samples a zaz ams calchicine per tan ee
25061	Colchicum seed, fl. ext	Drug Laboratory	
25062			
25063	Colchicum seed, fl. ext	Drug Laboratory	
25103	Colchicum, vin	Drug Laboratory	Sample, 0.0321 per cent. colchicine.
25107	Colchicum seed, vin		Sample, 0.0297 per cent. colchicine.
25108	Colchicum seed, wine	Drug Laboratory	Sample, 0.0316 per cent. colchicine.
25109	Colchicum seed, wine	Drug Laboratory	Contains 0.0426 gms. colchicine per 100 cc.
25110	Colchicum sem. tr	Drug Laboratory	Contains 0.0422 gms. colchicine per 100 cc.
25111	Colchicum sem, tr	Drug Laboratory	Contains 0.0463 gms. colchicine per 100 cc.
25112	Colchicum seeds, tr	Drug Laboratory	Found 0.40 per cent. colchicine.
25283	Colchicum seeds, powd	Drug Laboratory	Found 1.376 per cent. colchicine.
25284		Drug Laboratory	Found 0.55 per cent. colchicine.
25303		Drug Laboratory	Found 0.0244 per cent. colchicine.
25430	Colchicum seeds, fl. ext	Drug Laboratory	Found 0.492 per cent, colchicine.
26787	Colchicum seeds, powd	Drug Laboratory	Found 0.912 per cent. colchicine.
26788		Drug Laboratory	Found 0.68 per cent. colchicine.
26789		Drug Laboratory	Free from chlorides. Shows no yellowish fumes on heating with nitric acid. Sample
25046	Chloral hydrate cryst	Drug Laboratory	conforms to requirements of U. S. P.
25048	Chloral hydrate	Drug Laboratory	Sample contains trace of chlorine not combined with chloral hydrate.
25049		Drug Laboratory	Sample contains trace of chlorine not combined with chloral hydrate.
25045		Drug Laboratory	
25563		Jos. Feldman, No. 182 Canal street	
25583			
25587	The state of the s	Franz Bradtkes, No. 108 Avenue D	
27122	Codeine		Sample free from morphine.
25025		Drug Laboratory	Corresponds to U. S. P. requirements.
25034		Drug Laboratory	
25036		Drug Laboratory	
25615			Corresponds to U. S. P. requirements, 1900. Weight of powders, 3.842 gms. or
23013	CCIII DAMIGOTTI TITTI TI		59.3 grs. Average weight per powder, .320 gms. or 4.94 grs.
25622	Contraction of the Contract of	I. Friedman, No. 178 Henry street	
25648	Calomel	Drug Laboratory	Conform to the U. S. P. requirements, 1900.
25651	Charles of the Control of the Contro	Drug Laboratory	Conform to the U. S. P. requirements, 1900.
25764	Chase's constipation tab		Found average weight per tablet, 2.2 grs. Atropine, 0.0006 gr. Strychnine, 0.0032
	*	=	gr. Aloes present. Probably some licorice chocolate as a coating.
25156	Citrate of magnesia	Drug Laboratory	Consists of magnesium and potassium citrate and free citric acid. Sample free from foreign ingredients.
	Citate of magnesia	Drug Laboratory	Consists of magnesium and potassium citrate and free citric acid. Sample free from
25157	Citrate of magnesia	Ding Laboratory.	foreign ingredients.
25158	Citrate of magnesia	Drug Laboratory	Consists of magnesium and potassium citrate and free citric acid. Sample free from
	Citate of managin	Drug Laboratory	foreign ingredients.  Consists of magnesium and potassium citrate and free citric acid. Sample free from
25159	Citrate of magnesia	Ding Laudiatory	foreign ingredients.
25160	Citrate of magnesia	Drug Laboratory	Consists of magnesium and potassium citrate and free citric acid. Sample free from
	Citate of magnesia		foreign ingredients.
27345			
27346			Contoins to requirements of U. S. P., 1900.
27347	Citrate of magnesia	averues	Conforms to requirements of U. S. P., 1900.
26790	Conium maculatum, ground	Drug Laboratory	Found 0.146 per cent, alkaloids.
26791	Conium, powd	Drug Laboratory	Found 0.194 per cent. alkaloids.
26799	Coca, fol	Drug Laboratory	Found 0.768 per cent. alkaloids.
26800	Coca, fol	Drug Laboratory	Found 0.522 per cent. alkaloids.
24740	Chloroform	E. R. Squibb & Sons	Sample is chemically pure.
26895	Chloroform	Chief Clerk's Office	Boiling point, 61 degrees C. Specific gravity, 1.4901.
26907	Chloroform	Stock room in Laboratory	Boiling point, 60.5 degrees C. Specific gravity, 1.4902.
27165	Camphor liniment		Ence from mother stocket and estimated all
		and St. Nicholas avenue	Free from methyl alcohol and cottonseed oil.
25076	Digitalis, fl. ext	Drug Laboratory	Found 0.314 per cent. digitoxin.
25095	Digitalis, tr	Drug Laboratory	
25096	Digitalis, tr	Drug Laboratory	Found 0.026 per cent. digitoxin.
25253	Digitalis, infusion		Found o.o1 gm. of digitalin per 100 cc.
25340	Digitalis, ground	Drug Laboratory	Found 0.034 per cent. alkaloids by weight.
25350	Digitalis leaf, powd	Drug Laboratory	Found 0.0212 per cent. alkaloids by weight.
25503	Digitalin sol	D. H. M. Biggs.	
			bottle per drachm.
25564	Zeiginani Pantiti in the control of	Salvatore Scavo, No. 23 Monroe street	Found 0,22 gr. of leaves per powder; 1/45 gr. of leaves per powder.
25571	Digitalis, fl. ext	W. S. Rockey, Ninth avenue and Forty-second street	Found 0.053 per cent. digitalin.
25582	Digitalis, tinct	Ernst Boetzel, corner One Hundred and Sixth	
*		street and Lexington avenue	Found 0.0096 per cent. digitalin.
25777	Digitalis, infusion	J. F. Comerford, No. 921 Columbus avenue	Found 0.0048 per cent. digitalin.
25070	Ergot, fl. ext	Drug Laboratory	Found 0.052 per cent. ergotinin; 13.53 per cent. solids soluble in alcohol and water (gummy matter removed).
25071	Ergot, fl. ext	Drug Laboratory	Found 0.04 per cent. ergotinin; 17.33 per cent. solids soluble in alcohol and water
-30/1			(gummy matter removed).
25072	Ergot, fl. ext	Drug Laboratory	Found 0.046 per cent. ergotinin; 13.36 per cent. solids soluble in alcohol and water (gummy matter removed).
25082	Ergot, fl. ext.	Drug Laboratory	Found 0.041 per cent. ergotinin; 12.30 per cent. solids soluble in water and alcohol
25073			(gummy matter removed).
25074	Ergot, fl. ext	Drug Laboratory	Found 0.058 per cent. ergotinin; 8.74 per cent. solids soluble in alcohol and water (gummy matter removed).
251.10	Ergot fl ext	Drug Laboratory	
25128			(gummy matter removed).
25129	Ergot, ex. powd	Drug Laboratory	Found 9.28 per cent, to be soluble in alcohol and water after the removal of gummy matter.
25110	Ergot, ex. powd	Drug Laboratory	Found 7.45 per cent. to be soluble in alcohol and water after the removal of gummy
25130			matter.
25319	Front secale cornutum	Drug Laboratory	Found 0.0536 per cent, ergotinin.

No.	Sample.	From Whom Received. From Whom Purchased.	Results.
25320	Ergot, secale cornutum, pulv	Drug Laboratory	Found 0.0412 per cent. ergotinin.
25321	Ergot, powd	Drug Laboratory	Found 0.0432 per cent. ergotinin.
25322	Ergot, crushed	Drug Laboratory	Found 0.0372 per cent. ergotinin.
25567	Ergotae, fl. ext	S. J. Livingston, No. 723 Ninth avenue	Found 0.032 per cent. ergotinin.
24741	Ether	E. R. Squibb & Sons	Sample is chemically pure.
27164	Essence of peppermint		Beer from maked deal of
		and St. Micholas avenue	Free from metnyl alcohol.
25349		Drug Laboratory	
25035		Drug Laboratory	
25037		Drug Laboratory	
25021	Gibson's tablets	riegeman & Co., broadway, near Futton street	Average weight tablet, 2.1147 gms. Ash, 0.75 per cent. Free from chloroform, chloral, ammonia compounds and alkaloids.
25469			Sample is almost completely soluble in H2O. A gummy residue remains. Free from
-		Vineman's Dang Store One Hundred and Twenty-	substances soluble in acid, solution extracted with chloroform. Free from alkaloids, chloral and chloroform. Average weight, 2.22 per cent. Ash, .59.
25470	Gibson's tablets		Sample is almost completely soluble in water. A gummy residue remains. Free from substances soluble in acid, solution extracted with chloroform. Free from alkaloids, chloral and chloroform. Average weight per tablet, 2.1750 per cent. Ash equals .69.
25471	Gibson's tablets	E. C. Rich, No. 342 West Fourteenth street	Sample is almost completely soluble in water. A gummy residue remains. Free from substances soluble in acid, solution extracted with chloroform. Free from alkaloids, chloral and chloroform. Average weight per tablet, 2,0631 per cent.
25472	Gibson's tablets	E. C. Rich, No. 342 West Fourteenth street	Ash equals .69.  Sample is almost completely soluble in water. A gummy residue remains. Free from substances soluble in acid, solution extracted with chloroform. Free from alkaloids, chloral and chloroform. Average weight per tablet, 2.0323. Ash,
			.71 per cent.
25252		Geo. Vickroth, No, 574 Amsterdam avenue	
25164			Slight mineral residue. Butyric acid present. Turbidity with barium chloride.
25165			Slight mineral residue. Butyric acid present. Turbidity with barium chloride.
25166	Glycerine	Drug Laboratory	More than slight mineral residue. Butyric acid present. Turbidity with barium chloride. Conc. sulphuric acid gives a deep yellow. Reduces Fehling's solution.
25499	Glonoin sol	Dr. H. M. Biggs	
25333			Sample corresponds to U. S. P. requirements in its solubility in water and alcohol
-3333			but not in ether.
25336	Gum kino, powd		Sample corresponds to U. S. P. requirements in its solubility in water and alcohol, but not in ether.
25064		Drug Laboratory	
25065	Gelsemium, fl. ext	Drug Laboratory	
25066	Gelsemium, fl. ext		
25067	Gelsemium, fl. ext		
25068		Drug Laboratory	
25069		Drug Laboratory	
25113		Drug Laboratory	
25114		Drug Laboratory	
25115	Gelsemii, tinct	Drug Laboratory	
25285	Gelsemium, powd	Drug Laboratory	
25296	Gelsemii, ground	Drug Laboratory	Extract from 10 gms.; 100 cm 3 of 95 per cent. alcohol, 12.21 per cent.
25604		Paul Fels, Amsterdam avenue and Ninety-fifth	Sample is apparently synthetic oil of wintergreen. Amount of sample is too small to arrive at a definite conclusion.
25606	Gaultheriae ol., synthetic	L. E. Michal, Columbus avenue and Ninety-fourth	
25136	Henbane, powd. ex	Drug Laboratory	Found 0:068 per cent. alkaloids.
25137	Henbane, powd. ex	Drug Laboratory	Found 0.0866 per cent. alkaloids.
	Henbane leaves, ground	Drug Laboratory	Found 0.0138 per cent. alkaloids.
25311	Henbane leaves, powd	Drug Laboratory	Found 0.138 per cent. alkaloids.
25312	Henbane leaves, powd	Drug Laboratory	Found 0.013 per cent. alkaloids.
25313	Henbane leaves, ground	Drug Laboratory	Property Control of the Control of t
25339	Henbane, fl. ext	Drug Laboratory	Table 1 to 1 t
25435	Hyoscyamus, fl. ext	Drug Laboratory	Found 0.051 per cent. alkaloids.
25055	Hyoscyamus, fl. ext	Drug Laboratory	
25056	Hyoscyamus, powd. ext	Drug Laboratory	
25133	Hyoscyamus, powd. ext	Drug Laboratory	
25134	Hyoscyamus, powd. ext	Drug Laboratory	
25135		Drug Laboratory	
25326	Hyoscyami leaves, powd  Hyoscyami, tinct	Drug Laboratory	
25372		Drug Laboratory	
25373	Hyoscyami, tinct		Found 0.0068 per cent. alkaloids.
25374	Hudrogen perovide	Drug Laboratory	Found hydrogen peroxide, 3.36 per cent. Available oxygen, 11.09 vol. Conforms to requirements of U. S. P.
25520	Service Control of the Control of th		to requirements of U. S. P.  Found hydrogen peroxide, 3.05 per cent. Available oxygen, 10.07 vol. Conforms to requirements of U. S. P.
05555	Hyoscyami, fl. ext	Gebhard's Pharmacy, No. 357 Eighth avenue	Found 0.07 per cent. alkaloids.
25570		John Ziegler, corner One Hundred and Tenth street and Lexington avenue	
			*
25796	Hyoscyamus, powd	Drug Laboratory.	Found a car per cent alkaloids by the U. S. P. assay method.
25787	Hyoscyamus, powd. fol	Drug Laboratory	Found o ago per cent, alkaloids by the U. S. P. assay method.
25800	Hyoscyamus, powd	Drug Laboratory	Found 0.044 per cent alkalaide by the U.S. P. assay method.
25896	Hyoscyamus herb	Drug Laboratory	Found a fea per cent, alkaloids by the U. S. P. assay method.
25337	Hemlock poison, powd	Diag I aboratory	Found 0.242 per cent alkaloide
25342	Hemlock poison, ground	Drug Laboratory.	
27386	Hypodermic tablets, soluble		Found and per cent hydrastin
200		Drug Laboratory	
26801	Hyoscyamus, fol	Drug Laboratory	
26802	Hyoscyamus	Drug Laboratory	
25024	Iodine, resublimed	Drug Laboratory	
25254	Iodine, tinct		The first of the control of the cont
27342	Iodine, tinct		Sample conforms to the requirements of the U. S. P., 1900.
27343	Iodine, tinet		Sample conforms to the requirements of the U. S. P., 1900.
27244	Iodine, tinct		
	Iodine, tinet		
25572	223100		

No.	Sample.	From Whom Received. From Whom Purchased.	Results.
25088	Ipecac, fl. ext	Drug Laboratory	Found 1.07 gms. alkaloids in 100 ec.
25089	Ipecac, fl. ext	Drug Laboratory	Found 1.40 gms. alkaloids in 100 cc.
25090		Drug Laboratory	
25091		Drug Laboratory	
25092		Drug Laboratory	
25093		Drug Laboratory	
25345	Ipecac, ground	Drug Laboratory	
25346	Ipecac, powd	Drug Laboratory	
25347	Ipecac root, powd	Drug Laboratory	
25348	Ipecac root, ground	Drug Laboratory	
	The second secon	Drug Laboratory	Found 2.00 per cent. alkaloids.
26782		Drug Laboratory	Found 1.81 per cent. alkaloids.
26783	Ipecac root, powd	Drug Laboratory	Found 1.88 per cent. alkaloids.
26784	Ipecacuanhae rad		Found 1.67 per cent. alkaloids.
26785	Ipecacuanhae rad	Drug Laboratory	Found 1.81 per cent. alkaloids.
26786		Drug Laboratory	Found ether soluble resin, 1.64 per cent. Total resin, 10.46 per cent.
25292	Jalape, pulv	Drug Laboratory	Found ether soluble resin, 0.66 per cent. Total resin, 4.17 per cent.
25293	Jalape, powd	Drug Laboratory	Found ether soluble resin, 1.12 per cent. Total resin, 8.83 per cent.
25294	Jalape, ground	Drug Laboratory	Found ether soluble resin, 1.37 per cent. Total resin, 5.37 per cent.
25295	Kino, pulv	Drug Laboratory	Sample corresponds to the requirements of the U. S. P. in its solubility in water
25334			, and alcohol, but not in ether.
		Drug Laboratory	Sample corresponds to the requirements of the U. S. P. in its solubility in water and alcohol, but not in ether.
24990	Lozenges		Average weight tablet, 1.9970 gms. Ash, 0.62 per cent. Free from chloroform,
			chloral, ammonia compounds and alkaloids.  Found 0.16 per cent. lobelin.
25051	Lobelia, fl. ext		Found 0.118 per cent. lobelin, extracted in fluid extract menstruum.
25314	Lobelia, ground	Drug Laboratory	
25315	Lobelia, powd	Drug Laboratory	Found 0.065 per cent. lobelin, extracted in fluid extract menstruum.
100	Lobelia, powd	Drug Laboratory	Found 0.085 per cent. lobelin, extracted in fluid extract menstruum.  Found 0.0248 per cent. lobelin.
25364	Lobelia, tinct	Drug Laboratory	Found 0.0246 per cent. lobelin.
25365	Lobelia, tinct	Drug Laboratory	
30	Lobelia, fl. ext	Drug Laboratory	
	Lobelia, fl. ext		Found 0.1496 per cent. lobelin.
25368	Lobelia, fl. ext	Drug Laboratory	
25369	Lobelia, fl. ext	Drug Laboratory	Found 0.1536 per cent. lobelin.
25370	Lobelia, fl. ext	Drug Laboratory	Found 0.024 per cent. lobelin.
25371	Lobelia, tinct	John K. Oats, No. 658 Ninth avenue	Found 0.23 per cent, lobelin.
25568	Lobelia, fi. ext		Found o.o1 per cent. lobelin.
25579	Magnesia aperient granular	Drug Laboratory	Sample consists of magnesium sulphate, sodium bicarbonate and potassium bitartrate.
25047	Madicine	Coroner's Physician	This analysis was cancelled. A civil suit was planned upon the result of the analysis.
27505 25599	Morphine, sulphate	Bokschizky & Rotkowitz, No. 250 Rivington street.	Found 0.077 gms. equals 1.20 grs. morphine. Corresponding to 0.180 gms. equals 2,81 grs. morphine sulphate.
		Leo W. Geisler, No. 915 Amsterdam avenue	
25609	Morphine	Solomon Rosenthal, No. 23 Avenue D	Found 0.120 gms. morphine. Average amount per tablet, 0.020 gms. equals 5/16 grs.
25614	Morphine, tab. trit	Geo. W. Jarchow, No. 445 Second avenue	Found 0.073 gms. of morphine. Average amount per tablet, 0.012 gms. equals 3/16 gr.
25619	Morphine		Found 0.1158 gms. equals 1.8 gr. morphine.
25144	Nitroglycerin tablets	Drug Laboratory	Found 0.0104 grs. nitroglycerin per tablet.
5145	Nitroglycerin tablets	Drug Laboratory	Found 0.005 grs. nitroglycerin per tablet.
	Milloglyccim table	Dr. Herman M. Biggs	Found could get nitroglycerin per tablet.
	Tittogiyeeiii -	Dr. Stutterford Dr. Stutterford	Found 0.0120 grs. nitroglycerin per tablet.
002	Ivittogrycerin taster	Dr. Herman M. Biggs	
	Williogisaci in taster	Dr. Herman M. Biggs Dr. Herman M. Biggs	
	Nitroglycerin tablets	Dr. Herman M. Biggs	Found 1/107 (.0003) gr. nitroglycerin per tablet.
25501	Nitroglycerin tablets	Drug Laboratory	
25519	Nitroglycerin tablets	S. Lesser, No. 59 Avenue D	Found .037 gr. and 1/27 gr. nitroglycerin per tablet.
25586	Nitroglycerin tablets, trit		No nitroglycerin found.
25589	Nitroglycerin, hypodermic tabs.	Hy. Steinach, No. 870 Second avenue	Found 1/200 gr. nitroglycerin per tablet.
25590	Nitroglycerin, hypodermic tabe	Bockshitzky Bros. & Co., No. 69 Avenue C	Found 1/50 gr. nitroglycerin per tablet.
25593	Nux vomica, ground	Drug Laboratory	Found 0.259 per cent. alkaloids.
25281	Nux vomica powd	Drug Laboratory	Found 0.246 per cent. alkaloids.
25300	Nux vomica, ponderriting	Drug Laboratory	Found 0.188 per cent, alkaloids.
25301	Nur vomica tinct		Found 0.0344 per cent. strychnine.
25573 25595	Nuv vomica fl. ext		Found 1.45 per cent. strychnine.
2500	Nux vomica, powd	Drug Laboratory	Found 3.92 per cent. strychnine by U. S. P. assay method.
	Nur vomica powd. ex	Drug Laboratory	Found 2.286 per cent. strychnine by U. S. P. assay method.
25805	Nux vomica, powd. ex	Drug Laboratory	Found 2.025 per cent. strychnine by U. S. P. assay method.
27012	Nux vomica, tinct	Uallia M Barnes couthwest corner One Hundred	Residue equals .184 per cent., of which strychnine equals .028 per cent.
		Drug Laboratory	
25277	Onium nowd	Drug Laboratory	Found 11.71 per cent. morphine.
		Drug Laboratory	Found 11.992 per cent. morphine.
		Drug Laboratory	Found 10.13 per cent. morphine.
25280		E. C. Goetting, No. 820 Amsterdam avenue	
25608	Opii, pulv		Found opium.
		Drug Laboratory	Sample corresponds to the requirements of the U. S. P., excepting the presence of a
25618	Potassium bitartras	Diug Daboratory	
25618			trace of iron.
25618		Drug Laboratory	Sample corresponds to the requirements of the U. S. P., excepting the presence of a trace of iron.
25618 25028 25030	Potassium bitartrate, powd		Sample corresponds to the requirements of the U. S. P., excepting the presence of a

	Sample.	From Whom Received. From Whom Purchased.	Results.
650 P	Potassium hypophosphite	Drug Laboratory	Sample corresponds to the requirements of the U. S. P., 1900.
	Potassium iodidum	Drug Laboratory	Sample corresponds to the requirements of the U. S. P., excepting a trace of iron.
31 P	Potassium iodide	Drug Laboratory	Sample corresponds to the requirements of the U. S. P., excepting a trace of iron.
32 P	Potassium iodide	Drug Laboratory	Sample gives reaction for a considerable quantity of iron and traces of iodates. trace is insoluble in alcohol of .928 sp. gr., otherwise sample conforms to requirements of U. S. P.
21 P	Potassium nitrate	Dr. Fields	Sample is potassium carbonate.
16 F	Pepsin, powd	Drug Laboratory	Sample somewhat below the standard of the U. S. P.
17 I	Pepsin, aseptic	Drug Laboratory	Sample corresponds to the requirements of U. S. P.
18 P	Pepsin, concentrated	Drug Laboratory	Sample corresponds to the requirements of U. S. P.
19 F	Pepsin, scales	Drug Laboratory	Sample corresponds to the requirements of U. S. P.
20 F	Pepsin, pure	Drug Laboratory	Sample somewhat below the standard of the U. S. P.
21 F	Pepsin, scale	Drug Laboratory	Sample corresponds to the requirements of U. S. P.
22 F	Pepsin, scale, pure	Drug Laboratory	Sample somewhat below the standard of the U. S. P.
	Pepsin, aseptic, powd	Drug Laboratory	Sample corresponds to the requirements of U. S. P.
6 I	Pepsin, scales	Chas. H. Lowe, No. 761 Amsterdam avenue	Sample was not packed to withstand moisture, and consequently was gummy a not up to the standard of the U. S. P.
ji I	Pepsin, scales	Leister & Dohremoend, No. 134 First avenue	Sample corresponds to the requirements of the U. S. P.
21 1	Powder, white	O. C. Weimer, No. 173 Seventh avenue	Sample contains cocaine hydrochloride, 34.35 per cent.; adulterated with acetani
67 1	Powder	Commissioner's Office	Sample is antipyrin.
79 1	Powder, white	Dr. Bensel	Sample is cocaine hydrochloride.
6 1	Powder	Dr. Bensel	Sample melts at 117 degrees C, and on addition of a few drops of H2SO4 to hot aqueous solution, a turbidity is produced and also an aromatic odor. To corresponds to the tests given for terpin hydrate in the U. S. P., 1900.
56 1	Phenalgin	Drug Laboratory	Found 7.33 per cent. acetanilid by difference, 29.67 per cent. sodium bicarbonate.
	Pile oil	Drug Laboratory	Sample contains a little carbolic acid. Free from cocaine and morphine.
		Jas. Moran, M. D., No. 345 West Fifty-eighth street	Some contain ichthyol and some do not.
	Pessaries	Drug Laboratory	
	Rhubarb, fl. ext	Drug Laboratory	
	Rhubarb, fl. ext		
	Rhubarb, fl. ext	Drug Laboratory	
41	Rhubarb, powd	Drug Laboratory	
51	Rhubarb, sawdust	Drug Laboratory	
29	Rhubarb, tinct	Drug Laboratory	
78	Rhubarb, tinet	O. A. Meyers, No. 1822 Lexington avenue	
94	Rhubarb, fl. ext		
27	Rochelle salt	Drug Lahoratory	Sample conforms to the requirements of the U. S. P., except salt has a slight pin to brownish color when exposed to air, probably due to trace of iron; 1 gm salt after ignition requires 14.2 cc. N/2 sulphuric acid.
75	*		Sample conforms to the requirements of the U. S. P., except salt has a slight breath color when exposed to air, probably due to trace of iron; r gm. salt a ignition requires 14.4 N/2 sulphuric acid.
336	Rochelle salt		. Sample corresponds to the requirements of the U. S. P., 1900.
337	Rochelle salt		Sample corresponds to the requirements of the U. S. P., 1900.
		Holose's Pharmany Prospect and Longwood ave	
	Rochelle salt	nues	Sample corresponds to the requirements of the U. S. P., except for faint trac-
			From the form of both did a constitution of the state of
		Drug Laboratory	term than, one per count a morphism present.
239	the second second	I so W Coicles No our Amsterdam avenue	
625	Saccharmu lactis		
		Drug Laboratory	
	A CONTRACTOR OF THE PROPERTY O	Drug Laboratory	<ul> <li>Specific gravity (at 25 degrees C), 0.8198. Boiling point (approximately), 68 grees C. Ethyl nitrite (by nitrometer), 2.44 per cent.</li> <li>Alcohol by weight, 71.83 per cent. Alcohol by volume, 79.84 per cent. Cam</li> </ul>
			high owing to difficulty in dehydration. Soap, 7.10 per cent. Result on soa
		Drug Laboratory	high owing to difficulty in dehydration.
1/2		Drug Laboratory	(by polariscope), 4.50 per cent. Soap, 9.03 per cent. Result on soap is owing to difficulty in dehydration.
200		Zagat Drug Company, No. 2117 Eighth avenue	. Sample conforms to the requirements of the U. S. P., 1900.
585	Strychnine nitrate hypodermic tab.	Lawall & Searles, Avenue C and Eighth street	. Found 1/37 grain per tablet and 0.027 grain per tablet.
276		Dr. Herman Biggs	
5584	Strychnine tablets trit	Morris Drugasch, No. 157 Avenue B	
C 200 10 10 10 10 10 10 10 10 10 10 10 10 1		. Drug Laboratory	
	0-11	Deux I sharatory	
7.7		Drug Laboratory	
653		Drug Laboratory	
206			. Sample contorms to the requirements of the O. S. 1., 1900.
026		. Drug Laboratory	ignition requires 12.3 cc. N/2 sulphuric acid.
5038	Sodii salicylas	. Drug Laboratory	
5624			
		Leo Dreyfus, No. 231 Second avenue	
5616	Stramonium leaves, fl. ext	. Drug Laboratory	. Found 0.247 gms. per 100 cc. of alkaloids.
		. Drug Laboratory	. Found 0.086 gms. mydriatic alkaloids in 100 cc.
5081	Stramonium leaves, fl. ext		. Found 0.0517 gms. mydriatic alkaloids in 100 cc.
5081	Stramonium leaves, fl. ext	. Drug Laboratory	
5081 5082 5083	Stramonium leaves, fl. ext	Drug Laboratory	. Found 0.1607 gms. mydriatic alkaloids in 100 cc.
5081 5082 5083 5086	Stramonium leaves, fl. ext Stramonium leaves, fl. ext	. Drug Laboratory	Found 0.1607 gms. mydriatic alkaloids in 100 cc. Found 0.013 gms. mydriatic alkaloids in 100 cc.
5081 5082 5083 5086 5094	Stramonium leaves, fl. ext Stramonium leaves, fl. ext Stramonii, tinct	Drug Laboratory	. Found 0.013 gms. mydriatic alkaloids in 100 cc.
5081 5082 5083 5086 5094 5288	Stramonium leaves, fl. ext Stramonium leaves, fl. ext Stramonii, tinct Stramonium leaf, powd	Drug Laboratory Drug Laboratory Drug Laboratory	Found 0.013 gms. mydriatic alkaloids in 100 cc. Found 0.0564 per cent. alkaloids.
5081 5082 5083 5086 5094 5288 5289	Stramonium leaves, fl. ext Stramonium leaves, fl. ext Stramonii, tinct Stramonium leaf, powd Stramonium fol., ground	Drug Laboratory Drug Laboratory Drug Laboratory Drug Laboratory	Found 0.0564 per cent. alkaloids.  Found 0.0726 per cent. alkaloids,
	Stramonium leaves, fl. ext Stramonium leaves, fl. ext Stramonii, tinct Stramonium leaf, powd Stramonium fol., ground Stramonium, pulv	Drug Laboratory Drug Laboratory Drug Laboratory Drug Laboratory	Found 0.013 gms. mydriatic alkaloids in 100 cc.  Found 0.0564 per cent. alkaloids.  Found 0.0726 per cent. alkaloids.  Found 0.034 per cent. alkaloids.

No.	Sample.	From Whom Received. From Whom Purchased.	Results,
25574	Stramonium, sem. tr. fl		Found a good per cent alkeleids
		Street	
25592	Stramonium, sem. tr	Eimer & Amend, No. 205 Third avenue	Found 6.003 per cent. alkaloids.
5077	Senna, fl. ext	Drug Laboratory	Found 61.851 gms. solids per 100 cc.
5078	Senna, fl. ext	Drug Laboratory	Found 19.328 gms. solids per 100 cc.
5079	Senna, fl. ext	Drug Laboratory	Found 38.094 gms. solids per 100 cc.
5080	Senna, fl. ext	Drug Laboratory	Found 19.589 gms. solids per 100 cc.  Found 16.167 per cent extractives with fluid extract menstruum.
5324	Senna, powd	Drug Laboratory	
5325	Senna, ground	Drug Laboratory	Found 22.275 per cent, extractives with fluid extract menstruum.
5327	Senna Alexandria, powd	Drug Laboratory	Found 21.496 per cent. extractives with fluid extract menstruum.
5338	Senna, tinnev, powd	Drug Laboratory	Found 18.302 per cent. extractives with fluid extract menstruum.
5406	Senna, tinct	Drug Laboratory	Found 4.28 gms. solids per 100 cc.
5407	Senna, tinct	Drug Laboratory	Found 6.02 gms. solids per 100 cc.
5408	Senna, fl. ext	Drug Laboratory	Found 20.8 gms, solids per 100 cc.
5409	Senna, fl. ext	Drug Laboratory	Found 13.91 gms. solids per 100 cc.
7001	Senna, fl. ext	J. Gibian, northeast corner Thirty-fourth street and Eighth avenue	Residue equals 39.34 per cent., which is above the average. Free from wood alcoh
7339	Spirits of camphor		Sample reads in 200 mm. tube; on polariscope, 25.8; 25.8 degrees equals 11.17 r
7340	Spirits of camphor		cent. camphor. Free from wood alcohol.  Sample reads in 200 mm. tube; on polariscope, 18.2; 18.2 degrees equals 7.88 pcent. camphor. Free from wood alcohol.
7341	Spirits of camphor		Sample reads in 200 mm. tube; on polariscope, 23.0; 23 degrees equals 9.96 polariscope, 23.0; 24 degrees equals 9.96 polariscope, 25.0; 25 degrees equals 9.
7510	Spirits of camphor	O. C. Weinman, No. 173 Seventh avenue	Polariscope (100 mm. tube), 6.6; methyl alcohol none; 5 per cent. camphor soluti reads: Polariscope (100 mm. tube), 13.3.
7768	Spirits of camphor		Sample reads in 200 mm. tube; on polariscope, 11.39 per cent. Free from we alcohol.
7769	Spirits of camphor		Sample reads in 200 mm. tube; on polariscope, 26.50; 26.5 degrees equals 11.47 point. Free from wood alcohol.
7770	Spirits of camphor		Sample reads in 200 mm. tube; in polariscope, 22.4; 22.4 degrees equals 9.70 pcent. camphor. Free from wood alcohol.
5540	Silver nitrate		Found 100.19 per cent. silver nitrate.
5623	Tannice acidi	Bernstein Pharmacy Company, Hester and Eldridge streets	Found ash 0.158 soluble in water. Free from resinous matter. Sample confor
			to requirements of U. S. P.
6779	Tablets A and B		Sample A is salol and phenacetin. Sample B is salol and phenacetin.
5306	Valerian root, powd		Found 16.918 per cent. extractives with fluid extract menstruum.
5307	Valerian root, ground	Drug Laboratory	Found 15.123 per cent. extractives with fluid extract menstruum.
5308	Valerian, German, powd	Drug Laboratory	Found 17.092 per cent. extractives with fluid extract menstruum.
5309	Valerian, pulv	Drug Laboratory	
5310		Drug Laboratory	
5415		Drug Laboratory	
5416	Valerian, tinct	Drug Laboratory	Found 2.32 gms. solids per 100 cc.
5417	Valerian, fl. ext	Drug Laboratory	Found 20.73 gms. solids per 100 cc.
418	Valerian root, fl. ext	Drug Laboratory	Found 11.23 gms. solids per 100 cc.
5419	Valerian, fl. ext	Drug Laboratory	Found 11.97 gms. solids per 100 cc.
420	Valerian, fl. ext	Drug Laboratory	Found 14.27 gms. solids per 100 cc.
5421	Valerian, fl. ext	Drug Laboratory	Found 8.77 gms. solids per 100 cc.
422	Valerian, tinct	Drug Laboratory	Found 2.82 gms. solids per 100 cc.
999			Residue equals 1.45 per cent., which is somewhat low. Free from wood alcohol.
7002			Residue equals 1.81 per cent., which is somewhat low. Free from wood alcohol.
7003			Sample is free from wood alcohol.
100		Drug Laboratory	Sample conforms to the requirements of the U. S. P., 1900.
		Wasself Pharmacy, One Hundred and Seventh street and Columbus avenue	Residue equals .036 per cent. Tastes and smells like ginger.

### Fats and Oils-Vegetable.

No.	Sample.	From Whom Received. From Whom Purchased.	Results.
24822	Butter print	F. W. Smith, No. 197 Reid avenue, Brooklyn	Sample is genuine butter. Free from boric acid and borax.
24952	Butter	Park & Tilford, No. 784 Fifth avenue	Sample is genuine butter. Free from boric acid and borax.
25344	Butter	Levi Edsall, Far Rockaway	Sample is not genuine butter.
25457	Butter (renovated)		Foam test indicates renovated butter. Reichert Meissl No. 28.15. Sample is
27298	Butter	Samuel Klein, No. 1467 Second avenue	renovated butter.  Foam test and melting test respond for genuine butter.
27762	Butter		5 gms. of filtered fat give a volatile fatty acid number of 33.15. Sample is butter.
27855	Butter		
27760	Fat in can	Chief Sanitary Insp	Sample is butter.  Iodine number equals 49.6, Maumene number equals 19 degrees C., sol. pt. equals 41 degrees C.—37 degrees C., melting pt. equals 43 degrees — 46 degrees, refractive index equals 1.4535 at 48 degrees C., equals 1.4512 at 60 degrees C. Constants corresponds to tallow.
23973	Oil beading	Division of Inspections	Sp. gr., 0.9159. Free from cottonseed and sesame oils. Sample corresponds to
24796	Oil mustard	Division of Inspections	olive oil. Sample contains cottonseed oil. Sp. gr. equals 0.927, Kottstorfer value equals 193.
24834	Oil salad, "Santa Marcelo"	Frank G'tek, No. 1156 First avenue	Sample is adulterated. Sp. gr., 0.925. Saponification number 190. Cottonseed oil present.
25380	Oil, hydroleine		Sample is made up with pure cod liver oil.
24752	Oil, cod liver, "Wasboe's"	S. Piscanie, No. 163 West Twenty-seventh street.	Responds to the tests for purity of the U. S. Dispensatory. Sp. gr., 0.925;
24838	Oil, cod liver	Dr. Billing's office	Kottstorfer value, 170.6. Sample is unadulterated. Conforms with the requirements of the U. S. P., 1900. Saponification number 171.
27265	Oil	Mr. B. Teodor, U. S. Treasury Dept	Sp. gr. at 155 degrees C. equals 0.9145; refractive index equals 1.4667; free fatty acids as oleic acid equals 4.06. Sample is free from cottonseed oil.
27266	Oil	Mr. B. Teodor, U. S. Treasury Dept.	
	Oil		Sp. gr. at 155 degrees C. equals 0.9136; refractive index equals 1.4665; free fatty acids as oleic acid equals 3.72. Free from cottonseed oil.
27267	01	Treasury Dept	Sp. gr. at 155 degrees C. equals 0.9147; refractive index equals 1.4669; free fatty acids as oleic acid equals 3.195. Sample is free from cottonseed oil.
27268	Oil	Mr. B. Teodor, U. S. Treasury Dept	
			Sp. gr. at 155 degrees C. equals 0.9136; refractive index equals 1.4665; free fatty acids as oleic acid equals 3.64. Sample is free from cottonseed oil.
27269	Oil	Mr. B. Teodor, U. S. Treasury Dept	Sp. gr. at 155 degrees C. equals 0.9142; refractive index equals 1.4665; free fatty
27270	Oil	Mr. B. Teodor, U. S.	acids as oleic acid equals 4.65. Free from cottonseed oil.
	4.	Treasury Dept	Sp. gr. at 155 degrees C. equals 0.9138; refractive index equals 1.4664; free fatty acids as oleic acid equals 4.787. Free from cottonseed oil.
27333	Oil	•••••••••••••••••••••••••••••••••••••••	Sample is cottonseed oil.

No.	Sample.	From Whom Received. From Whom Purchased.	Results.
25020	Oil, olive	Chief Clerk's Office	Sample is free from peanut, cottonseed and sesame oils.
25465	Oil, olive	Drug Laboratory	Sample is free from peanut, cottonseed and sesame oils.
27755	Oil, olive, pure	D. Certero, No. 85 Christopher street	Sample gives Halphen's reaction for cottonseed oil; iodine number 98.9; refractive index at 22 degrees C. equals 1.4692; Maumene number 55 degrees C. Sesame oil, none.
28037	Oil, olive	Drug Laboratory	Refractive index, 1.4682; iodine number 88; Maumene number 35.5; free fatty acids as oleic acid equals 0.65. Free from cottonseed oil and sesame oil. Unadulterated.
27612	Oil, korno vegetable	Gilbert Parker Company, No. 306 Greenwich street	Iodine number 103.2; Maumene number 71 degrees; refractive index, 1.4717 at 20 C. Constants corresponds to tallow.

### Oils, Mineral, Soap and Coal.

No.	Sample.	From Whom Received, From Whom Purchased.	Results.
27858	Oil, dynamo	Bellevue Hospital	Flashing pt., 401 degrees F.; gravity at 155 degrees C., 31 degrees B. Cold test 26 degrees F.; viscosity at 70 degrees C., 110 Engler; viscosity at 100 degrees
27861	Oil, dynamo, "valvoline"	Bellevue Hospital	C., 100 Engler. Flashing pt., 392 degrees F.; gravity at 155 degrees C., 32 degrees B. Cold test 28 degrees F.; viscosity at 70 degrees C., 100 Engler; viscosity at 100 degrees C., 85 Engler.
24882	Oil, cylinder	Bellevue Hospital	Cold test, 38 degrees F.
4881	Oil, cylinder	Bellevue Hospital	Cold test, 40 degrees F.
5167	Oil, cylinder	Bellevue Hospital	Flash pt., 566.6 degrees F.; sp. gr., 0.892; viscosity, 177.
5168	Oil, cylinder	Bellevue Hospital	Flash pt., 560 degrees F.; sp. gr., 0.896; viscosity, 180.
	Oil, cylinder	Bellevue Hospital	Flash pt., 536 degrees F.; sp. gr. at 155 degrees C., 26 degrees B.; cold test, 6. degrees F.; viscosity at 100 degrees C., 275 Engler.
7862		Bellevue Hospital	degrees F.; viscosity at 100 degrees C., 275 Engler.  Flashing pt., 482 degrees F.; gravity at 155 degrees C., 24 degrees B.; cold test 62 degrees F.; viscosity at 100 degrees C., 183 Engler.  Flashing pt., 383 degrees F.; gravity at 155 degrees C., 22 degrees B.; cold test 30 degrees F.; viscosity at 70 degrees C., 115 Engler; viscosity at 100 degrees C., 115 En
7857	Oil, engine. "valvoline"	Bellevue Hospital	
4000			Flashing pt., 347 degrees F.; gravity at 155 degrees C., 32 degrees B.; cold tes 30 degrees F.; viscosity at 70 degrees C., 105 Engler; viscosity at 100 degree C., 93 Engler.
24879	Oil, engine	Bellevue Hospital	Flash pt., 403 degrees F.; sp. gr., 0.900; cold test, 28 degrees F.; viscosity, 412.
4880	Oil, engine	Bellevue Hospital	Flash pt., 406 degrees F.; sp. gr., 0.900; cold test, 29 degrees F.; viscosity, 420.
4873	Soap	Comptroller's Office	Moisture, 22.30; free alkali, 0.20; resin, 22.63. Soluble in 10 pts. of 94 per cen alcohol.
4874	Soap	Comptroller's Office	Moisture, 27.70; free alkali, 0.30; resin, 21.77. Insoluble in 10 parts of 94 per cent, alcohol.
4947	Soap	Chief Clerk's Office	Moisture, 19.52 per cent.; free alkali, trace.
4966	Soap	Bellevue Hospital	Moisture, 25.19 per cent.; free alkali, trace; resin, 21.80 per cent. Soluble in 1 parts 94 per cent. alcohol.
14967	Soap, chip	Chief Clerk's Office	Moisture, 19.94 per cent.; free alkali, 0.10 per cent.
4968	Soap, chip	Chief Clerk's Office	Moisture, 20.00 per cent.; free alkali, trace.
5223	Soap	Comptroller's Office	Moisture, 24.49 per cent.; free alkali, 0.20 per cent.; resin, 22.53 per cent. Soluble in 10 parts 94 per cent. alcohol.
5557	Soap	Department of Correction	Moisture, 21.60 per cent.; free alkali, 0.10 per cent.; resin, 22.57 per cent.
5558	Soap	Department of Correc-	Moisture, 21.35 per cent.; free alkali, 0.10 per cent.; resin, 26.95 per cent.
5872	Soap, chip	Riverside Hospital	Moisture, 19.87 per cent.; free alkali, o.10 per cent.
6193	Soap	Denute Fire Commis	and the same of th
0193		sioner, Brooklyn	Water present, 19.18 per cent.; fatty acids, 58.73 per cent. No free caustic alka present,
6194	Soap	Deputy Fire Commis- sioner, Brooklyn	Water present, 23.57 per cent.; fatty acids, 29.38 per cent. No free caustic alka
5850	Soap	Department of Charities	present, Moisture, 20.19 per cent.; resin, 10.31 per cent. Free caustic alkali, none. Foreig
	Coal		material, trace. Sample soluble in 10 parts 94 per cent. alcohol.
5722	2 2	Kingston Ave. Hospital	Moisture, 2.45 per cent.; vol. and comp., 5.91 per cent.; fixed carb., 73.15 per cent ash, 18.49 per cent.
5750	Coal	Kingston Ave. Hospital	Moisture, 2.97 per cent.; vol. and comp., 6.58 per cent.; fixed carb., 71.23 per cent.
5749	Coal	Kingston Ave. Hospital	Moisture, 2.89 per cent.; vol. and comp., 6.31 per cent.; fixed carb., 73.58 per cent. ash, 17.22 per cent.
7300	Coal	Dr. Wilson	Moisture, 3.14 per cent.; vol. and comp., 4.09 per cent.; fixed carb., 74.96 per cent. ash, 17.81 per cent.
7458	Coal	Kingston Ave. Hospital	Moisture, 3.85 per cent.; vol. and comp., 7.07 per cent.; fixed carb., 66.31 per cent. ash, 22.77 per cent.
	Coal	Kingston Ave. Hospital	Moisture, 0.76 per cent.; vol. and comp., 9.84 per cent.; fixed carb., 76.80 per cent. ash, 12.60 per cent.
7871			Moisture, 1.85 per cent.; vol. and comp., 5.73 per cent.; fixed carb., 81.87 per cent.
5785			Moisture, 2.60 per cent.; vol. and comp., 7.61 per cent.; fixed carb., 71.47 per cent. ash, 18.32 per cent.
6075			Moisture, 4.39 per cent.; vol. and comp., 5.92 per cent.; fixed carb., 77.66 per cent. ash, 12.03 per cent.
4912			Moisture, 1.37 per cent.; vol. and comp., 6.83 per cent.; fixed carb., 72.65 per cent. ash, 19.15 per cent.
4913			Moisture, 1.63 per cent.; vol. and comp., 6.11 per cent.; fixed carb., 74.96 per cent. ash, 17.30 per cent.
4934	Coal	ple lost in moving)	
4935	Coal	Bellevue Hospital (sam- ple lost in moving)	
5014	Coal		Moisture, 1.47 per cent.; vol. and comp., 6.32 per cent.; fixed carb., 74.29 per cent.
5015			ash, 17.92 per cent. Moisture, 1.43 per cent.; vol. and comp., 6.20 per cent.; fixed carb., 73.56 per cent.
5016			ash, 19.81 per cent. Moisture, 1.49 per cent.; vol. and comp., 6.39 per cent.; fixed carb., 69.50 per cent.
5017			ash, 22.62 per cent. Moisture, 1.83 per cent.; vol. and comp., 6.56 per cent.; fixed carb., 69.72 per cent.
5216			ash, 21.90 per cent. Moisture, 0.73 per cent.; vol. and comp., 6.64 per cent.; fixed carb., 71.72 per cent.
5390			ash, 20.90 per cent. Moisture, 3.09 per cent.; vol. and comp., 5.45 per cent.; fixed carb., 78.39 per cent.
5483			ash, 13.07 per cent.  Moisture, 2.36 per cent.; vol. and comp., 3.26 per cent.; fixed carb., 71.98 per cent.
5629			ash, 22.40 per cent. Moisture, 1.39 per cent.; vol. and comp., 7.23 per cent.; fixed carb., 72.08 per cent.
5684	Coal	Rellevue Hospital	Moisture, 2,27 per cent.; vol. and comp., 5,03 per cent.; fixed carb., 74.07 per cent.
5685	Coal	Bellevue Hospital	ash, 17.73 per cent. Moisture, 2.18 per cent.; vol. and comp., 5.58 per cent.; fixed carb., 73.16 per cent.
5765			ash, 19.08 per cent. Moisture, 2.06 per cent.; vol. and comp., 5.95 per cent.; fixed carb., 77.56 per cent
5385	Coal	Bivareida Hospital	ash, 14.43 per cent. Moisture, 2.86 per cent.; vol. and comp., 4.04 per cent.; fixed carb., 73.74 per cent
500			ash, 19.36 per cent. Moisture, 2.44 per cent.; vol. and comp., 4.41 per cent.; fixed carb., 82.20 per cent
386			ash, 10.95 per cent. Moisture, 3.76 per cent.; vol. and comp., 5.43 per cent.; fixed carb., 73.06 per cent
1984			ash. 17.76 per cent.
	Coal	Chief Clerk's Office	Moisture, 2.55 per cent.; vol. and comp., 4.90 per cent.; fixed carb., 71.97 per cent. ash, 20.58 per cent.  Moisture, 3.53 per cent.; vol. and comp., 7.19 per cent.; fixed carb., 67.18 per cent.
1997			ash, 22.10 per cent.; vol. and comp., 7.13 per cent.; fixed carb., 77.19 per cent. Moisture, 2.53 per cent.; vol. and comp., 5.73 per cent.; fixed carb., 74.97 per cent
			ash, 16.77 per cent.; vol. and comp., 5./3 per cent.; fixed carb., 74.9/ per cent. Moisture, 2.10 per cent.; vol. and comp., 4.84 per cent.; fixed carb., 76.52 per cent
5211			ash, 16.54 per cent.
5404			Moisture, 2.93 per cent.; vol. and comp., 4.63 per cent.; fixed carb., 74.08 per cent ash, 18.36 per cent.  Moisture, 0.72 per cent.; vol. and comp., 5.95 per cent.; fixed carb., 77.81 per cent
5271			ash, 15.52 per cent.
5272			Moisture, 2.50 per cent.; vol. and comp., 5.09 per cent.; fixed carb., 74.60 per cent.
25273			Moisture, 2.43 per cent.; vol. and comp., 3.85 per cent.; fixed carb., 77.81 per cent. ash, 15.91 per cent.
7282			Moisture, 3.28 per cent.; vol. and comp., 3.91 per cent.; fixed carb., 67.81 per cent. ash, 25.00 per cent.
	Cast		
5405			Moisture, 3.10 per cent.; vol. and comp., 5.16 per cent.; fixed carb., 72.85 per cent. ash, 18.89 per cent.  Moisture, 2.50 per cent.; vol. and comp., 4.13 per cent.; fixed carb., 74.46 per cent

No.	Sample.	From Whom Received. Fr	rom Whom Purchased.	Results.	and the second
26982	Coal	Chief Clerk's Office		Moisture, 3.27 per cent.; vol. and comp., 5.36 per ce	nt.; fixed carb., 74.97 per cent.;
		Kingston Ave. Hospital		ash, 16.40 per cent. Moisture, 2.47 per cent.; vol. and comp., 5.31 per ce	nt.; fixed carb., 76.39 per cent.;
		Kingston Ave. Hospital		ash, 15.84 per cent. Moisture, 3.41 per cent.; vol. and comp., 6.54 per ce	nt.; fixed carb., 73.82 per cent.;
		Kingston Ave. Hospital		ash, 16.24 per cent. Moisture, 3.18 per cent.; vol. and comp., 6.88 per ce	nt.; fixed carb., 74.25 per cent.;
		Kingston Ave. Hospital		ash is 70 per cent	
		Kingston Ave. Hospital		ash, 14.80 per cent. Moisture, 2.92 per cent.; vol. and comp., 4.56 per ce	
-				ash, 12.96 per cent. Moisture, 2.89 per cent.; vol. and comp., 5.16 per ce	
25213	Coal	Kingston Ave. Hospital		ash, 16.88 per cent.	
25214	Coal	Kingston Ave. Hospital		Moisture, 3.33 per cent.; vol. and comp., 6.40 per cent.	
	Coal	Bellevue Hospital		Moisture, o.80 per cent.; vol. and comp., 6.20 per cents, 21.41 per cent.	
25447	Coal	Kingston Ave. Hospital		Moisture, 2.12 per cent.; vol. and comp., 5.26 per ce ash, 15.33 per cent.	nt.; fixed carb., 77.29 per cent.;
25456	Coal	Kingston Ave. Hospital		Moisture, 2.50 per cent.; vol. and comp., 4.99 per cent.	nt.; fixed carb., 84.64 per cent.;
25512	Coal	Kingston Ave. Hospital		Moisture, 2.56 per cent.; vol. and comp., 6.26 per ed ash, 18.62 per cent.	ent.; fixed carb., 72.56 per cent.;
		Kingston Ave. Hospital		Moisture, 2.01 per cent.; vol. and comp., 6.55 per ce	nt.; fixed carb., 73.25 per cent.;
		Kingston Ave. Hospital		ash, 18.19 per cent. Moisture, 2.86 per cent.; vol. and comp., 4.76 per ce	ent.; fixed carb., 71.28 per cent.;
25522		Kingston Ave. Hospital		ash, 21.10 per cent. Moisture, 2.35 per cent.; vol. and comp., 4.79 per ce	
		Kingston Ave. Hospital		ash, 17.35 per cent. Moisture, 2.09 per cent.; vol. and comp., 5.44 per ce	
25537		Kingston Ave. Hospital		ash, 13.59 per cent. Moisture, 2.04 per cent.; vol. and comp., 4.72 per ce	
25560				ash, 19.25 per cent. Moisture, 2.29 per cent.; vol. and comp., 5.71 per ce	
25561		Kingston Ave. Hospital		ash, 20.68 per cent.	
25644	and the second s	Kingston Ave. Hospital		Moisture, 2.55 per cent.; vol. and comp., 5.18 per cent.	
25747	Coal	Kingston Ave. Hospital		Moisture, 4.03 per cent.; vol. and comp., 6.07 per cent.	
25748	Coal	Kingston Ave. Hospital		Moisture, 3.10 per cent.; vol. and comp., 6.10 per cent.	
25768	Coal	Kingston Ave. Hospital		Moisture, 4.40 per cent.; vol. and comp., 8.45 per cent.	ent.; fixed carb., 72.58 per cent.;

### Fish, Canned, Dried, etc.

No.	Sample.	Brand.	From Whom Purchased.	Results.
27834	Cod		Fair, Lennon & Co., No. 30 Gansevoort street	Sample is free from boracic acid and sulphites.
27835			B. M. Shipman, No. 73 Hudson street	Sample is free from boracic acid and sulphites.
27836			B. M. Shipman, No. 73 Hudson street	Sample is free from boracic acid and sulphites.
27705			D. Pargano, No. 178 Hester street	Sample is free from boracic acid and sulphurous acid,
27846	Fish		Toker Storage and Forwarding Company, No. 105 Hudson street	Sample is free from boracic acid and sulphites.
24358	Salmon	Lotus	H. M. Anthony, No. 48 West Broadway	Sample is free from cottonseed and sesame oils.
24359			Austin, Nichols & Co., No. 61 Hudson street	Sample is free from cottonseed and sesame oils,
24361			Kemp, Day & Co., No. 73 Hudson street	Sample is free from cottonseed and sesame oils.
24362			Austin, Nichols & Co., No. 61 Hudson street	Sample is free from cottonseed and sesame oils.
24364			Austin, Nichols & Co., No. 61 Hudson street	Sample is free from cottonseed and sesame oils.
24942			C. Vagt & Co., No. 335 Seventh avenue	Sample is free from cottonseed and sesame oils.
24994			G. A. & P. Tea Company, No. 583 Eighth avenue.	Sample is free from cottonseed and sesame oils.
25440			Omanoff Bros., No. 1673 Lexington avenue	Sample is free from cottonseed and sesame oils.
25786			P. Hornstein, No. 1539 First avenue	Sample is free from poisonous metals, artificial coloring matter and cottonseed oil.
24371			R. C. Williams, No. 56 Hudson street	Sample is free from cottonseed and sesame oils.
24374			R. C. Williams, No. 56 Hudson street	Sample is free from cottonseed and sesame oils.
24377			R. C. Williams, No. 56 Hudson street	Sample is free from cottonseed and sesame oils.
24869			M. Pollack, No. 873 Third avenue	Sample is free from cottonseed and sesame oils, heavy metals and borax.
24943			C. Vagt & Co., No. 335 Seventh avenue	Sample contains cottonseed oil. Sesame oil absent,
24995		Rosalind	Quinlan, 617 Eighth avenue	Sample is free from cottonseed and sesame oils.
25482	Sardines		John Scanlon, Seventeenth Precinct	No analysis made.

### Flavoring Extracts.

No.	Sample.	Brand.	From Whom Purchased.	Result.
23133	Almond			Sample is colored with a coal tar dye (tropaeolin),
27210	Bitter almond	Goodheart	R. M. Goodheart & Co., No. 174 Reade street	Free from artificial color, coal tar dye, methyl alcohol, nitrobenzol and hydrocyanic acid.
27285	Bitter almond	Burton	W. Burton, No. 75 Barclay street	Free from artificial color, coal tar dye, methyl alcohol, nitrobenzol and hydrocyanic acid.
27318	Bitter almond	Conron	Conron & Co., No. 265 West Broadway	Free from artificial color, coal tar dye, methyl alcohol and nitrobenzol. Hydrocyanic acid present.
27356	Bitter almond	Lion	Rex Extract Company, No. 166 Duane street	Free from artificial color, coal tar dye, methyl alcohol, nitrobenzol and hydrocyanic acid.
27368	Bitter almond	Bastine's	Bastine & Co., No. 19 Warren street	Free from artificial color, coal tar dye, methyl alcohol, nitrobenzol and hydrocyanic acid.
23974	Creme de menthe ess			Found 39.76 per cent. alcohol by weight, 47.00 per cent. alcohol by volume. Free from wood alcohol and artificial color.
24588	Coumarin		Magnus & Lauer, No. 257 Pearl street	Sample C contains no acetanilid; Sample B gives strong isonitril reaction.
24598	Coumarin		Magnus & Lauer, No. 257 Pearl street	Sample gives strong isonitril reaction.
27367	Cinnamon	Bastine's	Bastine & Co., No. 19 Warren street	Sample is free from artificial color (coal tar) and wood alcohol. Cinnamon of present.
27375	Clove	Bastine's	Bastine & Co., No. 19 Warren street	Sample is free from artificial color (coal tar) and wood alcohol. Clove oil present
25517	Candy flavor		Henry Heide, No. 84 Vandam street	Sample is free from ether, artificial color (coal tar). Sample is oil of limes.
27214	Coffee	Goodheart	R. M. Goodheart & Co., No. 174 Reade street	Sample is free from caramel and methyl alcohol. Caffeine present. True extraction of coffee.
27630	Coffee			Sample is free from artificial coloring matter.
27249	Ginger ale ess		Fischer Chem. Imp. Company, No. 14 Platt street.	Sample is free from methyl alcohol; artificial color; turmeric.
27359	Ginger ale ess	Lion	Rex Extract Company, No. 166 Duane street	Sample is free from methyl alcohol; artificial color (coal tar).
27407	Jamaica ginger	Thompson's	J. E. Thompson, No. 257 Greenwich street	Sample is free from methyl alcohol; artificial color (coal tar). Ginger present.
27216	Jamaica ginger	Goodheart	R. M. Goodheart & Co., No. 174 Reade street	Sample is free from artificial color (coal tar) and methyl alcohol. Ginger present
27233	Jamaica ginger		H. Baron & Co., No. 311 Broome street	Sample is free from artificial color (coal tar) and methyl alcohol. Capsicum

No.	Sample.	Brand. From Whom Purchased.	Result.
	Jamaica ginger	Conron's	Sample is free from artificial color (coal tar) and methyl alcohol. Ginger present.  Sample is free from artificial color (coal tar) and methyl alcohol. Lemon oil (by polariscope), 0.53 per cent.; alcohol by volume, 54.14 per cent.; alcohol by
24491	Lemon		weight, 46.41 per cent.  Sample is free from artificial color and methyl alcohol. Lemon oil (by polariscope), none. Alcohol by weight, 35.35 per cent.; alcohol by volume, 42.23 per cent.
25504	Lemon	Gunnison's	Sp. gr., 0.9779; lemon oil by polariscope, none; alcohol by weight, 14.6; alcohol by volume, 18.1. Sample free from coal tar color and methyl alcohol.
25505	Lemon	Premier	Sp. gr., 0.8723; alcohol by weight, 66.3; alcohol by volume, 73.2 Free from coal tar dye and wood alcohol. Lemon oil by polariscope, 3.59 per cent.
27051	Lemon	John Woodos, No. 446 Broadway	Free from methyl alcohol.
	Lemon	PeerlessJames Butler, No. 1042 Second avenue  EliteAndrew Davey, No. 1063 Second avenue	Free from methyl alcohol.  Free from methyl alcohol.
Book of	Lemon	EagleJames Butler, No. 1042 Second avenue	Free from methyl alcohol.
27068	Lemon	Our OwnJames Butler, No. 1042 Second avenue  AetnaC. Hencken, No. 1101 Second avenue	Free from methyl alcohol.
	Lemon	Sauer'sJ. H. Holsten, No. 238 East Fifty-sixth street	Free from methyl alcohol.  Free from methyl alcohol.
-,-,-	Lemon	Warfield, No. 1091 Second avenue	Free from methyl alcohol.
	Lemon	Princess	Free from methyl alcohol. Lemon oil (by polariscope), 0.88 per cent.; artificial color, trace.  Free from methyl alcohol. Artificial color (coal tar dye) present. Lemon oil (by
	Lemon	MonogramPekovitch Bros., No. 879 Ninth avenue	polariscope), 1.82 per cent.  Free from methyl alcohol. Artificial color (coal tar dye) present. Lemon oil (by
	Lemon	Chester'sA. F. Beckman, No. 840 Ninth avenue	polariscope), 0.12 per cent.  Free from methyl alcohol. Artificial color (coal tar dye) present. Lemon oil (by polariscope), none.
27111	Lemon	RepublicL. Meyer, No. 813 Ninth avenue	Free from methyl alcohol and artificial color (coal tar). Lemon oil (by polariscope), 2.94 per cent.
27112	Lemon	ReliableL. Meyer, No. 813 Ninth avenue	Free from methyl alcohol and artificial color (coal tar). Lemon oil (by polariscope), 0.41 per cent.
27204	Lemon	BloomingdaleBloomingdale Bros., Fifty-ninth street and Third	
27211	Lemon	Goodheart'sR. M. Goodheart & Co., No. 174 Reade street	4.53 per cent.
27217	Lemon		Free from methyl alcohol. Artificial color (coal tar dye) present. Lemon oil (by polariscope), 2.29 per cent.
27226	Lemon		on (by polariscope), 0.29 per cent.
27234	Lemon		oil (by polariscope), 0.41 per cent.
27260	Lemon	ExcellentA. H. Bullard, No. 51 Vesey street	oil (by polariscope), 4.11 per cent.  Sample free from methyl alcohol and artificial color (coal tar). Polariscope (100
27289	Lemon	Burton'sW, Burton, No. 75 Barclay street	Free from methyl alcohol. Artificial color (coal tar dye) present. Lemon oil (b. polariscope), 0.12 per cent.
27320	Lemon	Conron'sConron & Co., No. 265 West Broadway	<ul> <li>Sample free from methyl alcohol and artificial color (coal tar dye). Lemon oil (b. polariscope), 0.18 per cent.</li> </ul>
27361	Lemon	LionRex Extract Company, No. 166 Duane street	. Sample free from methyl alcohol. Artificial color (coal tar) present. Lemon of (by polariscope), 1.76 per cent.
27376 27277	Lemon	Bastine'sBastine & Co., No. 19 Warren street "Jackson's Compound"Bastine & Co., No. 19 Warren street	
27381	Lemon	Gunnison's	Sample is free from artificial color (coal tar). Alcohol by weight, 30.88 per cent. alcohol by volume, 37.04 per cent.; lemon oil (by polariscope), 0.71 per cent.
27403	Lemon	Hart'sJ. E. Thompson, No. 257 Greenwich street	polariscope), 5.71 per cent.
27405	Lemon	CrownA. H. Schultze Company, New York	polariscope), 0.59 per cent.  Sample is free from methyl alcohol and artificial color (coal tar). Lemon oil (b
27543	Lemon peel		. Sample is free from methyl alcohol. Artificial color (coal tar) present. Lemon o
27447	Lemon peel	Wood & Selick, No. 36 Hudson street	(by polariscope), 1.88 per cent.
27101	Maraschino	Red Cross M. Michalson & Son, New York	
24771	Orange	Ragus	<ul> <li>Sample is free from methyl alcohol and artificial color. Alcohol by weight, 37.7 per cent.; alcohol by volume, 44.86 per cent.; orange oil (by polariscope), 0.0 per cent.</li> </ul>
37227	Orange		
27288	Orange	Burton'sW. Burton, No. 75 Barclay street	(by polariscope), 0.226 per cent.
27315	Orange	Conron's	(by polariscope), 0.19 per cent.
27362	Orange	Date & Co. No. of Western Asset	polariscope), 0.08 per cent,
27373 27394	Orange		Sample is free from methyl alcohol. Artificial color (coal tar) present. Orange o
27402		. Thompson'sJ. E. Thompson, No. 257 Greenwich street	(by polariscope), 0.04 per cent.
27169	Oil, strawberry	J. N. Hickok, No. 85 Murray street	
27170	Oil, pineapple		
27171 27443	Oil, lemon		. Sample is free from sugar and artificial color (coal tar). Polariscope, (5 per cen solution 100 mm, tube), 11.1. Polarization much too high for lemon of
27444	Oil, orange	J. Cane & Son, No. 140 Reade street	Sample has odor of turpentine, but turpentine has not a high polarization.
27445	Oil, lemon		
27538	Oil, lemon		polariscope), 98.80 per cent.
27539			(by polariscope), 8.87 per cent.
27540 27542		. Star	1
27544	Oil wintergreen	Consumers' Flavoring Extract Company, No. 24	1
27540 27542	Oil strawberry Oil anise		. Sample is free from methyl alcohol. Artificial color trace.  Sample is oil of anise.

No.	Sample.	Brand. From Whom Purchased.	Result.
27548	Oil anise	O. J. Weeks & Co., No. 91 Murray street	Sample is oil of anise.
27633	Orange paste		Sample is free from artificial coloring matter.
27099	Pistache		Sample is free from methyl alcohol. Artificial color (coal tar dye) present. Synthetic compound.
27100	Pistache	Red Cross	Sample is free from artificial color (coal tar), methyl alcohol, nitrobenzol and hydrocyanic acid.
27213	Pistache	Goodheart	Sample is free from methyl alcohol, nitrobenzol and hydrocyanic acid. Artificial color (coal tar) present.
27286	Pistache	Burton's	Sample is free from methyl alcohol, nitrobenzol and hydrocyanic acid. Artificial
27391	Pistache		color (coal tar) present.  Sample is free from methyl alcohol, nitrobenzol and hydrocyanic acid. Artificial
27406	Pistache	Thompson'sJ. E. Thompson, No. 257 Greenwich street	color (coal tar) present.  Sample is free from methyl alcohol, nitrobenzol and hydrocyanic acid. Artificial
27200	Pineapple	Goodheart's	color, trace.  Sample is free from artificial color (coal tar) and methyl alcohol.
27225	Pineapple		Sample is free from methyl alcohol. Artificial color (coal tar dye) present- Synthetic compound.
27253	Pineapple essence	Fischer Chem. Imp. Co., No. 14 Platt street	Sample is free from methyl alcohol and artificial color (coal tar dye).
27257	Pineapple	ExcellentA. H. Bullard, No. 51 Vesey street	Sample is free from methyl alcohol and artificial color (coal tar dye).
27273	Pineapple syrup	Blue BellFourteenth Street Store, Fourteenth street and Sixth avenue	Sample is free from artificial color (coal tar). Benzoic acid present.
27314	Pineapple	Conron's	Sample is free from methyl alcohol. Artificial color (coal tar) present.
27357	Pineapple	Lion	Sample is free from methyl alcohol and artificial color (coal tar).
27369	Pineapple	Bastine's Bastine & Co., No. 19 Warren street	Sample is free from methyl alcohol and artificial color (coal tar).  Sample is free from methyl alcohol and artificial color (coal tar).
27398	Pineapple	Thompson'sJ. E. Thompson, No. 257 Greenwich street	Sample is free from methyl alcohol and artificial color (coal tar).
27399	Pure almond	Thompson'sJ. E. Thompson, No. 257 Greenwich street	Sample is free from methyl alcohol, artificial color (coal tar), nitrobenzol and
27235	Peach		hydrocyanic acid.  Sample is free from methyl alcohol. Artificial color (coal tar dye) present.
			Synthetic compound.
27250	Peach fruit essence		Sample is free from methyl alcohol. Artificial color (coal tar) present.
27545	reach	Greenwich street	Sample is free from methyl alcohol. Artificial color (coal tar) present.
27207	and the second s	Goodheart's	Sample is free from methyl alcohol. Artificial color (coal tar) present.
27228	Raspberry		Sample is free from methyl alcohol and artificial color (coal tar). Coloring matter gives reactions corresponding to cochineal.
27254	Raspberry fruit essence	Fischer Chem. Imp. Co., No. 14 Platt street	Sample is free from methyl alcohol. Artificial color, trace.
27258	Raspberry	Excellent	Sample is free from methyl alcohol and artificial color (coal tar).
27284	Raspberry	Burton's W. Burton, No. 75 Barclay street	Sample is free from methyl alcohol. Artificial color (coal tar) present.
	Raspberry	Conron's	Sample is free from methyl alcohol. Artificial color (coal tar) present.  Sample is free from methyl alcohol. Artificial color, trace.
27358	Raspberry	Bastine's Bastine & Co., No. 19 Warren street	Sample is free from methyl alcohol. Artificial color (coal tar) present.
27400	Raspberry	Thompson's J. E. Thompson, No. 257 Greenwich street	Sample is free from methyl alcohol and artificial color (coal tar).
26404	Raspberry		Sample is free from methyl alcohol. Artificial color (coal tar) present.
27577	Raspberry		Sample is free from methyl alcohol. Artificial color (coal tar), trace.
24770	Raspberry	Ragus	Sample contains artificial color.
24901		Max Steinberg, No. 1687 Park avenue	Sample is free from methyl alcohol. Artificial color (coal tar dye) present. Sample
27222	Rose		is adulterated.
27283	Rose	Burton's	Sample is free from methyl alcohol. Artificial color (coal tar dye) present.
27374	Rose	Bastine's	Sample is free from methyl alcohol and artificial color.
27401	Rose	Thompson's J. E. Thompson, No. 257 Greenwich street  Max Steinberg, No. 1687 Park avenue	Sample is free from methyl alcohol. Artificial color, trace.  Sample is free from methyl alcohol. Artificial color (coal tar) present.
27572	Sarsaparilla		Sample is free from methyl alcohol. Artificial color present. Oil of sassafras
			present.
		Excellent A. H. Bullard, No. 51 Vesey street	Sample is free from artificial color. Sassafras and wintergreen oils present.  Sample is free from artificial color. Sassafras and wintergreen oils present.
27259	Sarsaparilla	Conron's	Sample is free from methyl alcohol. Sassafras and wintergreen oils present.
./3.9			Artificial color (coal tar) present.
27631		Ragus	Sample is free from artificial coloring matter.  Artificial coloring matter present.
24709	Strawberry		Artificial coloring matter present.
24902 26403	Strawberry		Sample is free from preservatives. Coal tar coloring matter present.
26919	Strawberry		Sample is free from methyl alcohol. Coal tar color present.
27215	Strawberry	Goodheart'sR. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol and artificial color (coal tar).
27224		H. Baron & Co., No. 311 Broome street	Sample is free from methyl alcohol. Artificial color (coal tar) present. Synthetic
	Strawberry fault account	Fischer Cham Imp Co No Distriction	compound.
27255		Excellent A. H. Bullard, No. 51 Vesey street	Sample is free from methyl alcohol. Artificial color, trace.  Sample is free from methyl alcohol. Artificial color, trace.
27250	Strawberry	Conron's Conron & Co., No. 265 West Broadway	Sample is free from methyl alcohol. Artificial color, trace.
27360	Strawberry	Lion	Sample is free from methyl alcohol. Artificial color, trace.
27371	Strawberry	Bastine's Bastine & Co., No. 19 Warren street	Sample is free from methyl alcohol. Artificial color (coal tar) present.
27393	Strawberry		Sample is free from methyl alcohol. Artificial color (coal tar) present.
27409	Strawberry	Thompson'sJ. E. Thompson, No. 257 Greenwich street	Sample is free from methyl alcohol. Artificial color (coal tar) present,
27541			Sample is free from methyl alcohol and artificial color (coal tar).
27571	Contract of the Contract of th		Sample is free from methyl alcohol. Artificial color (coal tar) present.  Sample is free from methyl alcohol. Artificial color (coal tar) and sulphuric ether.
27578		A. Essing, No. 380 Pearl Street.	Sample is free from acetanilid.
	Vanilla	Ragus	Sample is free from methyl alcohol. Vanillin, 0.86 per cent.; coumarin, 0.06 per cent.; alcohol by weight, 17.98 per cent.; alcohol by volume, 23.01 per cent.
		Burton's	Caramel present.  Sample is free from methyl alcohol and artificial coloring. Vanillin, 0.18 per cent.;
		Gunnison Double	coumarin, o.oo per cent.; alcohol by weight, 31.20 per cent.; alcohol by volume, 39.00 per cent.  Sample is free from methyl alcohol and artificial color. Vanillin, 0.18 per cent.;
		Premium	coumarin, 0.04 per cent.; alcohol by weight, 12.43 per cent.; alcohol by volume, 15.86 per cent.  Sample is free from methyl alcohol and artificial color. Vanillin, 0.134 per cent.;
		G. Lowell & Co., No. 73 Murray street	coumarin, none; alcohol by weight, 17.40 per cent.; alcohol by volume, 22.27 per cent.  Sample is free from methyl alcohol.
27052	Vanilla		

# THE CITY RECORD.

No.	Sample.	Brand,	From Whom Purchased.	Result.
	**- **-	Continental A	ndrew Davey, No. 1063 Second avenue	Sample is free from methyl alcohol.
7073	Vanilla		H. Holsten, No. 238 East Fifty-sixth street	Sample is free from methyl alcohol.
7074	Vanilla	The second secon		Sample is free from methyl alcohol.
7075	Vanilla		tore, No. 1091 Second avenueeklovitch Bros., No. 879 Ninth avenue	Sample is free from methyl alcohol and acetanilid. Coumarin, 0.100 per cent.
7105	Vanilla	Taylor'sP	eklovitch Bros., No. 879 Ninth avenue	Sample is free from methyl alcohol. Coumarin, 0.06 per cent.; vanillin, 0.2 per cent.
	V!!!-	White Pose P	eklovitch Bros., No. 879 Ninth avenue	Sample is free from methyl alcohol and coumarin. Vanillin, o.o88 per cent.
7106	Vanilla		eklovitch Bros., No. 879 Ninth avenue	Sample is free from methyl alcohol. Coumarin, 0.095 per cent.; vanillin, 0.15 per cent.
7205	Vanilla	YaleR	. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol. Coumarin, 0.115 per cent; vanillin, 0.7 per cent.
7206	Vanilla	ManhattanR	. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol. Coumarin, 0.53 per cent.; vanillin, 0.10 per cent.
		0 11 d	. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol and coumarin. Vanillin, 0.154 per cent.
27208	Vanilla		M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol. Coumarin, 0.013 per cent.; vanillin, 0.14 per cent.
27218	Vanilla	R	. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol. Coumarin, 0.064 per cent; vanillin, 0.06 per cent.
				Sample is free from acetanilid,
27219	Vanilla	Goodheart'sR	t. M. Goodheart & Co., No. 174 Reade street	Sample is free from methyl alcohol. Coumarin, 0.044 per cent.; vanillin, 0.07 per cent.
27223	Vanilla	Е	I. Baron & Co., No. 311 Broome street	Sample is free from methyl alcohol. Coumarin, 0.042 per cent.; vanillin, 0.30 per cent.
	*			Sample is free from acetanilid.
27240	Vanilla	L	eo Benjamin, No. 1743 Avenue A	Sample is free from methyl alcohol. Coumarin, 0.192 per cent.; vanillin, 0.34 per cent.
27252	Vanilla	MexicanF	Sischer Chem. Imp. Co., No. 14 Platt street	Sample is free from methyl alcohol. Coumarin, 0.045 per cent.; vanillin, 0.04 per cent.
27261	Vanilla	Excellent	A. H. Bullard, No. 51 Vesey street	Sample is free from methyl alcohol. Coumarin, 0.016 per cent.; vanillin, 0.22
27293	Vanilla	Burton's V	N. Burton, No. 75 Barclay street	Sample is free from acetanilid. Coumarin, 0.116 per cent.; vanillin, 0.127 per cent
27629	Vanilla			Sample is free from artificial coloring matter,
27317	Vanilla	Conron's	Conron & Co., No. 265 West Broadway	Sample is free from methyl alcohol. Coumarin, 0.152 per cent.; vanillin, 0.2 per cent.
27380	Vanilla	Gunnison's		Sample is free from methyl alcohol. Coumarin, 0.444 per cent.; vanillin, 0.1 per cent.
27395	Vanilla	1	M. Tuscano, No. 163 Washington street	Sample is free from methyl alcohol. Coumarin, 0.190 per cent.; vanillin, 0.2 per cent.
				Sample is free from acetanilid,
27442	Vanilla	Royal	M. Bower & Co., No. 165 Chambers street	Sample is free from methyl alcohol. Coumarin, 0.168 per cent.; vanillin, 0.1
27392	Lemon		M. Tuscano, No. 163 Washington street	Artificial color (coal tar) present. Methyl alcohol, none.
-,09-	Constitution of the consti			Lemon oil (by polariscope), none.
27632	Lemon paste			Sample is free from artificial coloring matter,

### Fruits, Canned, Dried, etc.

No.	Sample.	Brand.	From Whom Purchased.	Results.
27634	Cherries			Sample is free from artificial coloring matter.
27695	Cherries		. Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from artificial coloring matter (coal tar dyes), and from salicylic benzoic and boric acids and borates.
24836	Peaches	National Bloomingdale Bros., Fifty-ninth street and Third avenue S		Sample is free from salicylic, benzoic acids and artificial coloring matter (coal tardye).
25487	Peaches	Mountain Beauty	.Isaac Friedmann, No. 1507 Second avenue	Sample is free from boric acid or borac, benzoic and salicylic acids, formaldehyde, sulphites, poisonous metals and artificial color.
25544	Peaches	Amcehat S		Sample is free from coal tar dye. Black color due to the presence of tannate of iron. Contains iron, expressed as Fe ₉ O ₈ —0.073 per cent.
27687	Pineapple		. Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from artificial coloring matter (coal tar dye), from salicylic, benzoic and boric acids and borates.
27688	Pineapple		Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from salicylic, benzoic and boric acids and borates, from artificial coloring matter (coal tar dye).
27689	Peach	***************************************	Crown Cordial and Extract Company, No. 18 Des- brosses street	Sample is free from artificial coloring matter (coal tar dye), from salicylic, benzoic and boric acids and borates.
27690	Peach		Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from salicylic, benzoic and boric acids and borates, from artificia coloring matter (coal tar dye).
27693	Raspberry		Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from artificial coloring matter (coal tar dye), from salicylic, benzoi and boric acids and borates.
27694	Raspberry	***************************************	Crown Cordial and Extract Company, No. 18 Des- brosses street	Sample is free from salicylic, benzoic and boric acids and borates, from artificia coloring matter (coal tar dye).
24941	Strawberries	Essie Br	Jas. Butler, No. 1042 Second avenue	Sample is free from artificial coloring matter (coal tar dye), from benzoic acid and
27496	Strawberries	Heinz		salicylic acid. Sample is free from artificial color (coal tar) and glucose. Cane sugar present.
27691	Strawberries		Crown Cordial and Extract Company, No. 18 Des- brosses street	Sample is free from artificial coloring matter (coal tar dye), from salicylic, benzoi and boric acids and borates.
27692	Strawberries	***************************************	Crown Cordial and Extract Company, No. 18 Desbrosses street	Sample is free from salicylic, benzoic and boric acids and borates, from artificial coloring matter (coal tar dye).

### Jams, Jellies, Honey, Preserves, etc.

No.	Sample.	Brand.	From Whom Purchased.	Results.
25468	Jam	Damson	H. Eitžen, No. 1284 Amsterdam avenue	Direct reading, 200 mm. tube at 13.0 degrees C. equals plus 102.2; invert reading, 200 mm. tube at 13.0 degrees C. equals plus 90.0. Contains benzoic acid and artificial coloring matter (coal tar dye).
24944	Peach jam	Extra Quality	C. Vagt, No. 202 West Sixtieth street	Direct reading, 200 mm, tube at 16 degrees C. equals plus 71; invert reading, 200 mm, tube at 20 degrees C. equals plus 22.0. Free from artificial coloring matter (coal tar colors). Benzoic acid present. Sample made up with glucose.
27637	Peach jam			Sample is free from artificial coloring matter.
25393	Red raspherry jam	Atlas	Andrew Davey, No. 244 Avenue A	Direct reading, 200 mm. tube at 21 degrees C. equals plus 99; invert reading, 200 mm. tube at 21 degrees C. equals plus 92. Sample is free from artificial coloring matter (coal tar dye), benzoic and salicylic acids.

No.	Sample.	Brand.	From Whom Purchased.	Results.
27635	Raspberry jam			Sample is free from artificial coloring matter,
24946	Strawberry jam		Γ. Assanti, No. 44 West End avenue	Direct reading, 200 mm. tube 20 degrees C. equals plus 127.0; invert reading, 200 mm, tube 20 degrees C. equals plus 124.0. Sample is free from artificial coloring matter (coal tar dye), benzoic and salicylic acids. Sample made up with glucose.
25510	Strawberry jam	Republic		Direct reading, 200 mm. tube at 13 degrees C. equals plus 23.0; invert reading, 200 mm. tube at 13 degrees C. equals minus 24.0. Sample is free from benzoic and salicylic acids. Artificial coloring matter (coal tar dye) present.
25511	Strawberry jam	Thistle		Direct reading, 200 mm. tube at 13 degrees C. equals plus 32.0; invert reading, 200 mm. tube at 13 degrees C. equals plus 11.2. Sample is free from artificial coloring matter (coal tar dyes). Benzoic acid present. Sample is made up with glucose.
24992	Apple jelly	1	P. Praker, No. 2515 Eighth avenue	Direct reading, 200 mm. tube at 20 degrees C. equals plus 137.0; invert reading, 200 mm. tube at 21 degrees C. equals plus 132.5. Sample is free from artificial coloring matter (coal tar dye), benzoic and salicylic acids.
24973	Currant jelly			Direct reading, 200 mm. tube at 20 degrees C. equals plus 9.6; invert reading, 200 mm. tube at 20 degrees C. equals minus 23.0. Sample is free from artificial coloring matter (coal tar colors), salicylic and benzoic acids. Sample unadulterated.
26894	Currant jelly			Sugar (direct reading), equals plus 11.4; sugar (indirect reading), equals minus 23.6. Sample is tree from artificial color (coal tar). Sample is unadulterated.
26894	Currant jelly			Sugar (direct reading), equals plus 11.4; sugar (indirect reading), equals minus 23.6. Free from artificial color (coal tar) and gelatin. Sample is unadulterated.
27500	Currant felly	Heinz		Sample is free from artificial color (coal tar) and glucose. Cane sugar present.
27501	Currant jelly	Premier		Sample is free from artificial color (coal tar) and glucose. Cane sugar present.
24991	Quince jelly			Direct reading, 200 mm. tube at 21 degrees C. equals plus 135.4; invert reading, 200 mm. tube at 20 degrees C. equals plus 130.4. Sample is free from artificial coloring matter (coal tar colors), benzoic and salicylic acids.
24945	Raspberry jelly	Acme	Fitzpatrick Bros., No. 8 Amsterdam avenue	Direct reading, 20 degrees C. in 200 mm. tube equals plus 20.4; invert reading, 21 degrees C. in 200 mm. tube equals minus 21.0. Sample is free from artificial coloring matter (coal tar colors), benzoic and salicylic acids.
24972	Red currant jelly			Direct reading in 200 mm. tube at 20 degrees C. equals plus 1.0; invert reading in 200 mm. tube at 20 degrees C. equals minus 20.0. Sample is free from artificial coloring (coal tar colors), salicylic and benzoic acids. Sample is unadulterated.
25173	Honey	J. W	H. Levin, No. 77 Second avenue	Direct reading, 200 mm, tube at 14 degrees C. equals minus 15; invert reading, 200 mm, tube at 14 degrees C. equals minus 20. Sample appears to be unadulterated.
27202	Honey (pure clover)	Golden Tree	Bloomingdale Bros., Fifty-ninth street and Third	Sample is honey.
27203	Honey	California White Sage	avenue Bloomingdale Bros., Fifty-ninth street and Third avenue	Sample is honey.

### Meats—Canned, Preserved, etc.

5853 Bi 5924 Bi 5946 Bi 5946 Bi 5946 Bi 5947 Bi 66000 Bi 66039 Bi 66070 Bi	Blood pudding  Blood pudding  Blood pudding  Blood pudding, smoked  Blood pudding, dry  Blood pudding.	Rohe & Bro., No. 523 West Thirty-sixth street	Free from preservatives and artificial coloring matter.
5924 Bi 5946 Bi 5946 Bi 5947 Bi 5962 Bi 66090 Bi 66039 Bi 66051 Bi 66070 Bi	lood pudding	Fred Winter, No. 692 Tenth avenue	
55940 Bi 55946 Bi 55947 Bi 55962 Bi 66000 Bi 66039 Bi 66060 Bi 66070 Bi 660	lood pudding		Free from borax.
5946 Bi 5947 Bl 5962 Bl 66000 Bl 66039 Bl 66051 Bl 66060 Bl 66070 Bl 66070 Bl 66078 Bl 66156	lood pudding, smokedlood pudding, drylood pudding.	Theo. Bertsch, No. 1658 Third avenue	
55947 Bl 55962 Bl 66000 Bl 66039 Bl 66051 Bl 66070 Bl 66070 Bl 65078 Bl 65161 Bl 65161 Bl 65122 Bl 65222 Bl 66224 Bl 66279 Bl	lood pudding, drylood pudding		Free from preservatives and artificial coloring matter.
55962 BI 56000 BI 56039 BI 56051 BI 56060 BI 56070 BI 56078 BI 56156 BI 56161 BI 56196 BI 56222 BI 56223 BI 56223 BI 56223 BI 56224 BI 56225 BI 56227 BI 56227 BI	lood pudding	Peter Stenger, No. 1475 First avenue	Free from borax.
50000 Bl 50000 Bl 50000 Bl 50070		Peter Stenger, No. 1475 First avenue	Free from preservatives and artificial coloring matter.
5039 BI 50551 BI 5060 BI 5070 BI 5078 BI 5078 BI 50156 BI 50156 BI 50203 BI 50222 BI 50222 BI 50224 BI 50225 BI 50227 BI		Gustav Reiss, No. 617 Ninth avenue	Free from preservatives and artificial coloring matter.
5051 Bl 5060 Bl 5070 Bl 5078 Bl 5078 Bl 50161 Bl 50161 Bl 50203 Bl 50222 Bl 50222 Bl 50224 Bl 50274 Bl 50279 B	lood pudding	Geo. Bauer, No. 1208 First avenue	Free from preservatives and artificial coloring matter.
6060 Bl 6070 Bl 6078 Bl 6156 Bl 6161 Bl 6161 Bl 6162 Bl 6223 Bl 6222 Bl 6225 Bl 62274 Bl 62279 Bl	lood pudding	Chris. Widmann, No. 1708 First avenue	Free from borax.
5070 Bl 5078 Bl 5156 Bl 5156 Bl 5161 Bl 5196 Bl 51203 Bl 51222 Bl 51222 Bl 51223 Bl 51224 Bl 51224 Bl	lood pudding	Phillip Spitzhoff, No. 659 Ninth avenue	Free from borax.
6070 Bl 6078 Bl 6156 Bl 6161 Bl 6161 Bl 6162 Bl 6203 Bl 6222 Bl 6222 Bl 6224 Bl 62274 Bl 62279 Bl	lood pudding	A. Becker, No. 2690 Third avenue	Free from borax.
5078 Bl 5156 Bl 5161 Bl 5161 Bl 5196 Bl 5203 Bl 5222 Bl 5222 Bl 5224 Bl 5227 Bl		Jacob Muller, No. 671 Eleventh avenue	
5156 Bl 5161 Bl 5162 Bl 5223 Bl 5222 Bl 5225 Bl 5224 Bl 5227 Bl		Alfred Naef, No. 2185 Second avenue	
6161 Bl 196 Bl 1203 Bl 1222 Bl 15225 Bl 15274 Bl		John Schumker, No. 966 East One Hundred and Thirty-fourth	
5196 Bl 5203 Bl 5222 Bl 5225 Bl 5274 Bl 6279 Bl	*	street	Free from preservatives and coloring matter,
5203 Bl 5222 Bl 5225 Bl 5274 Bl 5279 Bl		John Leim, No. 133 Lincoln avenue	
5222 Bl 5225 Bl 5274 Bl 5279 Bl		John Rollman, No. 763 Columbus avenue	
5225 Bl 5274 Bl 5279 Bl		Chas. Beckstein, No. 793 Columbus avenue	
i274 Bl	lood pudding	Eberhard Pantel, No. 1825 Second avenue	
5279 B	lood pudding, dried	Oscar Pache, No. 1744 Second avenue	
	lood pudding	Eliz Koegler, No. 8 Greenwich street	
319 B	lood pudding	John Dreyer, No. 152 West street	Free from preservatives and coloring matter.
	Blood pudding	Henry Eberle, No. 110 Amsterdam avenue	Sample contains borax.
6321 B	Blood pudding	Geo. Gingerich, No. 70 Amsterdam avenue	Free from borax and sulphites.
6343 B	Blood pudding	Wm. G. Wagner, No. 573 First avenue	Free from borax and sulphites.
6369 B	Blood pudding	C. Schneider, No. 77 Broome street	Free from borax and sulphites.
6380 B	Blood pudding	Christ Seher, No. 1887 Third avenue	Free from borax.
6389 B	Blood pudding	Nauss Bros., No. 2291 Third avenue	Free from borax.
6392 B	Blood pudding	Frank Schwintek, No. 1979 Third avenue	Free from borax.
6406 B	Blood pudding	John Hohloch, No. 1569 Second avenue	Free from borax and sulphites.
6408 E	Blood pudding	Louis Grimm, No. 1427 Second avenue	Free from borax and sulphites.
6446 B	Blood pudding	Chas. Beckstein, No. 793 Columbus avenue	Free from preservatives and artificial coloring matter.
	Blood pudding	John Rollman, No. 763 Columbus avenue	Free from preservatives and artificial coloring matter.
6478 B	Blood pudding	Wm. Sutton, No. 829 First avenue	Free from preservatives and artificial coloring matter.
5510 B	Blood pudding	Wm. Klingler, No. 2634 Third avenue	Free from borax, sulphites and artificial coloring matter.
6515 B	Blood pudding	Adolph Becker, No. 2690 Third avenue	Free from borax, sulphites and artificial coloring matter.
6522 P	Blood pudding	John Heim, No. 133 Lincoln avenue	Free from borax, sulphites and artificial coloring matter.
68c4 B	Blood pudding	Geo. Nolberger, No. 1464 Amsterdam avenue	Free from boric and sulphurous acids, artificial coloring matter, benzoic and salicyl acids.
6807 B	Blood pudding	August Essig, No. 25 Manhattan street	Free from coloring matter, boric, sulphurous, banzoic and salicylic acids.
585; I	Blood pudding	Joseph Viegel, No. 1976 Amsterdam avenue	Free from preservatives and artificial coloring matter.
5832 B	Bologna	Rohe Bros., No. 523 West Thirty-sixth street	Free from preservatives and artificial coloring matter.
25844 E	Bologna	H. Siegel, Fourteenth street and Sixth avenue	Free from preservatives and artificial coloring matter.
5847 E	Bologna	Adams, Twenty-first street and Sixth avenue	Free from preservatives. Contains an artificial coloring matter.
25848 I	Bologna	Simpson & Crawford, Nineteenth street and Sixth avenue	Free from preservatives. Contains an artificial coloring matter.
		Bloomingdale Brothers, Fifty-ninth street and Third avenue	
		Geo. Wittman, No. 338 East One Hundred and Second street	
		Geo. Herold, Second avenue and One Hundred and Second	

No.		Sample.	From Whom Purchased.	Results.
25858	Rologna		C. F. Schaue & Co., No. 2060 Third avenue	Free from preservatives and artificial coloring matter.
25858			Fred Benz, No. 412 East One Hundred and Second street	
25863		smoked liver		Free from borax.
25865	Bologna,	meat	Fischer & Co., No. 2325 Second avenue	Free from borax.
25866	Bologna,	ham	Fischer & Co., No. 2325 Second avenue	Sample contains borax.
25873		blood	Otto Stahl, No. 2332 Third avenue	Free from borax.
25874		smoked blood	Otto Stahl, No. 2332 Third avenue	Free from borax. Contains borax,
25880			M. A. Buchsbaum, No. 523 Ninth avenue	Free from preservatives and artificial coloring matter.
25889		blood	Richard Weber, Third avenue, between One Hundred and	
	D-1		Nineteenth and One Hundred and Twentieth streets Richard Weber, Third avenue, between One Hundred and	Free from preservatives and artificial coloring matter.
25892	Bologna,	meat	Nineteenth and One Hundred and Twentieth streets	Free from borax.
25893	1000	meat	Louis Grimm, No. 1427 Second avenue	Contains borax. Free from artificial coloring matter.
25901		meat	John Hohloch, No. 1569 Second avenue	Free from preservatives and artificial coloring matter.  Free from borax.
25908		salami	Solomon Muntz, No. 208 Delancey street	Free from preservatives and artificial coloring matter.
25909		bread	Solomon Muntz, No. 208 Delancey street	Free from preservatives and artificial coloring matter.
25910	Bologna,	smoked	Solomon Muntz, No. 208 Delancey street	Free from preservatives and artificial coloring matter.
25912	Bologna,	bread	Sussman Volk, No. 88 Delancey street	Free from preservatives and artificial coloring matter.
25915		smoked coverlat	Sussman Volk, No. 88 Delancey street	Free from borax.
25916		yaeger	Frederick Schempf, No. 1540 Second avenue	Contains borax. Free from artificial coloring matter.  Free from borax.
25918 25920		blood	A. Buchsbaum Company, No. 729 Ninth avenue	Free from preservatives and artificial coloring matter.
25921			Fred Winter, No. 692 Tenth avenue	Contains borax. Free from artificial coloring matter.
25923			John T. Muller, No. 724 Tenth avenue	Contains borax. Free from artificial coloring matter.
25939	Bologna,	meat	Theo. Bertsch, No. 1658 Third avenue	Free from preservatives and artificial coloring matter.
25944	Bologna,	bauren	W. Holschuh, No. 1605 First avenue	Free from borax.
25945		bauren	W. Holschuh, No. 1605 First avenue	Free from preservatives and artificial coloring matter.
25949		ham	Peter Stenger, No. 1475 First avenue	Free from preservatives and artificial coloring matter.  Free from borax.
25951		ham	Anton Renschler, No. 3405 Third avenue	The tion bean.
25954	Dologna,	Main	Seventy-tourtn street	Contains borax.
25956	Bologna,	beef	G. Brenzinger, No. 3022 Third avenue	Contains borax.
25937	Bologna,	beef	F. E. Brauer, corner of Clay avenue and One Hundred and Seventy-tourth street	Contains borax.
25959	Bologna	beef	A. Essig, No. 25 Manhattan street	Free from borax.
25960	Bologna,	beef	E. A. Michels' Sons, No. 2914 Third avenue	Contains borax.
25961			Geo. Kems, No. 496 Ninth avenue	Free from borax.
25968			Jacob Keiser, No. 1507 First avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
25969 25972			Bernstein, Greenberg Company, No. 82 Rivington street	Free from preservatives and artificial coloring matter.
25974			R. Kallensee, No. 1650 Third avenue	Free from preservatives and artificial coloring matter.
25975	Bologna,	meat	R. Kallensee, No. 1650 Third avenue	Free from preservatives and artificial coloring matter.
25975	Bologna,	meat	R. Kallensee, No. 1650 Third avenue	Contains borax.
25984	Bologna	meat	Vaclav Novak, No. 1363 First avenue	Free from preservatives and artificial coloring matter.
25989		meat	Antonio Martinek, No. 1353 First avenue	Free from borax.
25990			Antonio Martinek, No. 1353 First avenue  Frank Mosner, No. 1373 First avenue	Free from borax. Contains borax.
25992 25995		meat		Contains borax.
25996		cervelat	Alois Zoufaly, No. 1356 First avenue	Free from borax.
25997	Bologna	blood	Alois Zoufaly, No. 1356 First avenue	Free from borax.
25998	Bologna	garlic	Andrew Adamko, No. 1296 First avenue	Free from preservatives and artificial coloring matter.
27018		liver	Chas. Bossler, No. 5 Second avenue	Free from preservatives and artificial coloring matter.
27019		blood	Chas. Bossler, No. 5 Second avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
27021		meat	Chas. Bossler, No. 5 Second avenue	
27049			Adolph Schmidt, No. 339 East Forty-sixth street	Free from borax, sulphites and coloring matter.
27128	21.		Armour Packing Company, West Harlem Market	Contains boracic acid.
27135			John Rollmanno, No. 763 Columbus avenue	Free from preservatives. Artificial coloring matter present.
27271	Bologna	blood	John Melchner, No. 9 First avenue	Free from preservatives and artificial coloring matter,
27299	Bologna	meat	Alois Zonfaly, No. 1356 First avenue	Free from preservatives and artificial coloring matter.
27765	100		Eberhard Pantle, No. 25 Second avenue	Free from preservatives and artificial coloring matter.
26003		meat	Geo. Bauer, No. 1208 First avenue  Swift & Co., Eleventh avenue and Thirty-fifth street	Free from preservatives and artificial coloring matter.  Contains borax.
26008			Armour & Co., Thirty-fifth street and Eleventh avenue	Free from borax.
26026		dry	Jos. Soukopf, No. 1424 Avenue A	Free from borax.
26029	- E	dry	Jos. Wimmer, No. 1391 Avenue A	Contains borax.
26032	Bologna,	dry	Wm. Chyba, No. 1374 Avenue A	Free from borax.
26037	Bologna,	round	Max Liebscher, No. 1598 Avenue A	Free from borax.
26038	Bologna,	ham	Max Liebscher, No. 1598 Avenue A	Free from borax.
26041		land yaeger	Chris Widmann, No. 1708 First avenue	
26042	2	bauren	Chris Widmann, No. 1708 First avenue	Free from borax.
			Hy. Fleck, No. 1679 Avenue A	
26045			Philip Spitzhoff, No. 659 Ninth avenue	
26057			A. Becker, No. 2690 Third avenue	Donat Control
26059	Bologna	beef	A. Becker, No. 2690 Third avenue	Free from borax.
26062			Wm. Klinger, No. 2634 Third avenue	Free from borax.
26064			Wm. Klinger, No. 2634 Third avenue	Contains borax.
26066	1-		Wm. Klinger, No. 2634 Third avenue	Free from borax
26069	Dologna		Jacob Muller, No. 671 Eleventh avenue	Tice from borax.

No.		Sample.	From Whom Purchased.	Results.
26074	Bologna		R. J. Pusim, No. 850 Tenth avenue	Free from borax.
26079			Jacob Brucker, No. 2382 First avenue	
26110		kohser	Harnischifeger & Mathes, No. 1048 Second avenue  Felix Metzger, No. 1044 Second avenue	Free from borax.
26113		meat	Christian Gonnell, No. 1010 Second avenue	
26116	Bologna,	land yaeger	Christian Gonnell, No. 1010 Second avenue	Free from borax.
26117		blood	Christian Gonnell, No. 1010 Second avenue	Free from borax.
26120		meat	A. Schmidt, No. 339 East Forty-sixth street	Free from borax.
26121		blood tongue	A. Schmidt, No. 339 East Forty-sixth street	Free from borax.
26124		blood	Gabriel Vetter, No. 763 Second avenue	Free from borax.
26126	Bologna,	meat	F. Majewski & Son, No. 607 Second avenue	
26129		blood	Louis Drescher, No. 632 Second avenue	Free from borax.
26130		meat	Louis Drescher, No. 632 Second avenue  Louis Drescher, No. 632 Second avenue	Free from borax.
26132		meat	G. Pflizenmaier, No. 189 Avenue A	Free from borax.
26136	Bologna,	blood	Geo. Herold, No. 139 Avenue A	Free from borax.
26139	300	smoked	Geo. Herold, No. 139 Avenue A	Free from borax.
26143		ham	Adolph Lindner, No. 98 First avenue	Free from borax.
26144	The same of the same of	meat	Adolph Lindner, No. 98 First avenue	Free from borax.
26157	Bologna		John Schwenker, No. 966 East One Hundred and Thirty-fourth	
26162	Rologna		Ichn Leim No. 222 Lincoln avenue The Brony	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26164		blood	John Kohl, No. 423 East Fifteenth street	Free from preservatives and artificial coloring matter.
26167	Bologna,	meat	John Kohl, No. 423 East Fifteenth street	Free from preservatives and artificial coloring matter.
26168		meat	G. C. Goelz, No. 250 First avenue	Free from preservatives and artificial coloring matter.
26171		ham	G. C. Goelz, No. 250 First avenue	Free from preservatives and artificial coloring matter.
26173		meat	Louis Cappel, No. 302 First avenue  Louis Cappel, No. 302 First avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26183			Samuel Hutter, No. 767 Ninth avenue	Free from preservatives and artificial coloring matter.
26185	Bologna		Geo. Lidinger, No. 765 Ninth avenue	Free from preservatives and artificial coloring matter.
26187	Bologna		Louis Wagner, No. 849 Tenth avenue	Free from preservatives and artificial coloring matter.
26198		ham	John Rollman, No. 763 Columbus avenue	Free from preservatives and artificial coloring matter.
26201			Chas. Beckstein, No. 793 Columbus avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26207		meat	Isaac Melchner, No. 9 First avenue	Free from preservatives and artificial coloring matter.
26208	-	blood	Isaac Melchner, No. 9 First avenue	Free from preservatives and artificial coloring matter.
26209	Bologna,	ham	Isaac Melchner, No. 9 First avenue	Free from preservatives and artificial coloring matter.
26213		meat	John Fuhrman, No. 59 First avenue	Contains borax.
26214		ham	John Fuhrman, No. 59 First avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26217		liver	Stutz & Feiler, No. 151 First avenue	Free from preservatives and artificial coloring matter.
26218	-	meat	Stutz & Feiler, No. 151 First avenue	Free from preservatives and artificial coloring matter.
26220	Bologna,	Polish	John Jamoski, No. 546 East Eleventh street	Free from preservatives and artificial coloring matter.
26226		meat	Oscar Pache, No. 1744 Second avenue	Free from preservatives and artificial coloring matter.
26228		hamblood	Oscar Pache, No. 1744 Second avenue	Free from preservatives and artificial coloring matter.
26231	_	meat	David Reubold, No. 1805 Second avenue  David Reubold, No. 1805 Second avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26233	200	meat	John Heil, No. 387 First avenue	Free from preservatives and artificial coloring matter.
26237	Bologna,	ham	Frank Hopf, No. 506 First avenue	Free from preservatives and artificial coloring matter.
26265		Hungarian	Leopold Kuhn, No. 193 East Third street	Free from preservatives and artificial coloring matter.
26267		garlicham	I. Blank, No. 1454 Second avenue	Free from preservatives and artificial coloring matter.
26269			I. Blank, No. 1454 Second avenue  Eliz. Koegler, No. 8 Greenwich street	Free from preservatives and artificial coloring matter.  Contains borax.
26273			E. P. Ham, No. 211 West street	Free from artificial coloring matter and preservatives.
26278	Bologna		John Dreyer, No. 152 West street	Free from artificial coloring matter and preservatives.
26284	-	ham	John Hoesel, No. 182 Avenue B	Free from borax and sulphites.
26285	2.0.2.	Kolbas	John Hoesel, No. 182 Avenue B	Free from borax and sulphites.  Free from borax and sulphites.
26290		blood	Ballentine Hermes, No. 258 Avenue B	Free from borax and sulphites.
26291	Bologna,	liver	Ballentine Hermes, No. 258 Avenue B	Free from borax and sulphites.
26293	Bologna,	blood	B. F. Jaissel, No. 200 Avenue B	Free from borax and sulphites.
26296		liver	B. F. Jaissel, No. 200 Avenue B	Free from borax and sulphites.
26297			Greenhut & Muschel, No. 226 Rivington street  Greenhut & Muschel, No. 226 Rivington street	Free from borax and sulphites. Free from borax and sulphites.
26303			Morris Schoenberg, No. 30 Rivington street	Free from borax and sulphites.
26304	Bologna		Max Arick, No. 74 Delancey street	Free from borax and sulphites.
26305	Bologna		Max Arick, No. 74 Delancey street	Free from borax and sulphites.
26306		red	Max Arick, No. 74 Delancey street	Free from borax and sulphites.
26308	-		Max Arick, No. 74 Delancey street	Free from borax and sulphites. Free from borax and sulphites.
			Max Arick, No. 74 Delancey street	
26313			Moses Selig & Bro., No. 80 Amsterdam avenue	Free from borax and sulphites.
26316			Henry Eberle, No. 110 Amsterdam avenue	Free from borax and sulphites.
26318			Henry Eberle, No. 110 Amsterdam avenue	Free from borax and sulphites.
26322	4	smallsmall.	Geo. Gingerich, No. 70 Amsterdam avenue	Free from borax and sulphites.
26330		Kolbas	John Foersh, No. 122 Manhattan street	Free from borax and sulphites.  Free from borax and sulphites.
	-	blood	Stanislaw Mierzwinski, No. 215 East Third street	Free from borax and sulphites.

From Whom Purchased.

Results.

No.		Sample.	From Whom Purchased.	Results.
-			Stanislaw Mierzwinski, No. 215 East Third street	Free from horay and sulphites
26332	2000	rice	W. Tochman, No. 211 East Third street	
26334		meat	W. Tochman, No. 211 East Third street	Control of the Contro
26335	2000	rice	John Bacsl, No. 253 East Third street	
26337		Kolbas	John Bacsl, No. 253 East Third street	Free from borax and sulphites.
26340	Bologna,	large	Wm. Bormester, No. 544 Second avenue	Contains borax.
26341	Bologna		Wm. Bormester, No. 544 Second avenue	Free from borax and sulphites.
26345	Bologna,	meat	Wm. G. Wagner, No. 573 First avenue	
26348	Bologna,	ham	Lang Brothers, No. 569 Tenth avenue	
26352		blood	Chas. Reichert, No. 104 West Houston street	
26354			Chas. Reichert, No. 104 West Houston street	
26359	11.00		Bernard Mayer, No. 161 Perry street	
26364	and the same of th	smoked	D. Moskowitz, No. 49 Cannon street	
26367		meat	C. Schmeider, No. 77 Broome street	A Land Market Control of the Control
26371		ham	C. Schmeider, No. 77 Broome street	
26375		broad	I. Gellis, No. 37 Essex street	Free from borax and sulphites.
26381	Bologna,	ham	Christ Seher, No. 1887 Third avenue	Free from borax.
26384	Bologna,	meat	S. Ludwig, No. 1833 Third avenue	Free from borax.
26390	Bologna,	meat	Nauss Brothers, No. 2291 Third avenue	Free from borax.
26393		ham	Frank Schwintek, No. 1979 Third avenue	
26394		meat	Frank Schwintek, No. 1979 Third avenue	
26407		blood	Frederick Schampf, No. 1540 Second avenue	
26409		ham	Louis Grimm, No. 1427 Second avenue	Contains borax.
26412			M. Zimmerman & Co., Nos. 318 to 324 East Houston street M. Zimmerman & Co., Nos. 318 to 324 East Houston street	
26411		peckless	M. Zimmerman & Co., Nos. 318 to 324 East Houston street	Free from borax and sulphites.
26415		large	M. Zimmerman & Co., Nos. 318 to 324 East Houston street	Free from borax and sulphites,
26416		iong	M. Kroll Sons, No. 33 Canal street	Free from preservatives and artificial coloring matter
26426			Isaac Gillis, No. 37 Essex street	
26428			Isaac Gillis, No. 37 Essex street	Free from preservatives and artificial coloring matter.
26432			Gertrude Langer, No. 137 West Houston street	Free from preservatives and artificial coloring matter.
26437			Erschowsky Brothers, No. 175 West Houston street	Free from preservatives and artificial coloring matter.
26438	Bologna		Erschowsky Brothers, No. 175 West Houston street	Free from preservatives and artificial coloring matter.
26445	Bologna,	beef		
26447	Bologna,	ham	Chas. Beckstein, No. 793 Columbus avenue	Free from preservatives and artificial coloring matter.
26469	4.17.12	ham	John Rollman, No. 763 Columbus avenue	
26471		beef	John Rollman, No. 763 Columbus avenue	
26474		ham	Max Herman, No. 950 First avenue	
26477	2000	meat	Max Herman, No. 950 First avenue	
26480		scraped	Carl Decker, No. 835 Second avenue	
26482 26488		cervelat	R. Kallensee, No. 1650 Third avenue	
26513	The state of the s	ham		Free from borax, sulphites and coloring matter.
26514			Wm. Klinger, No. 2634 Third avenue	Free from borax, sulphites and coloring matter.
26518	Bologna,	ham	Adolph Becker, No. 2690 Third avenue	Free from borax, sulphites and coloring matter.
26519	Bologna		Adolph Becker, No. 2690 Third avenue	Free from borax, sulphites and coloring matter.
26521	Bologna		John Heim, No. 133 Lincoln avenue, The Bronx	
26524			John Heim, No. 133 Lincoln avenue, The Bronx	
26525		blood		Free from borax, sulphites and coloring matter.
26531	The state of the s	blood	Majewski & Sons, No. 607 Second avenue	
26547		ham		Free from borax, sulphites and coloring matter.
26548		Holstein	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	
26551		beef	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	
26552 26554		ham	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	
26558	Bologna,	beef	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Contains borax.
26562	Bologna .		Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Contains borax.
26566	Bologna,	beef	Ed. C. Krummel, No. 906 Broadway, Brooklyn	Free from borax, sulphites and coloring matter.
26568	Bologna,	blood tongue	Ed. C. Krummel, No. 906 Broadway, Brooklyn	Contains borax.
26569	Bologna,	thick	Ed. C. Krummel, No. 906 Broadway, Brooklyn	
26572	Bologna,	ham	Ed. C. Krummel, No. 906 Broadway, Brooklyn	
26573	Bologna,	half thick	Ed. C. Krummel, No. 906 Broadway, Brooklyn	Free from borax, sulphites and coloring matter.
26589	-	beef	Chris. Grozinger, No. 195 Hamburg avenue, Brooklyn	
26590		beef	Chris. Grozinger, No. 195 Hamburg avenue, Brooklyn	Free from borax, sulphites and coloring matter.  Free from borax, sulphites and coloring matter.
26595		blood and tongue	Chris. Grozinger, No. 195 Hamburg avenue, Brooklyn Chris. Grozinger, No. 195 Hamburg avenue, Brooklyn	
26596		ham	Chas. J. Stahl, Metropolitan and Union avenues, Brooklyn	
-		ringblood and tongue	Chas. J. Stahl, Metropolitan and Union avenues, Brooklyn	
26599	2001.000	tongue	Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	
200			Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	
			Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	
26606		half thick	Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	
26608	Bologna,	smoked	Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	
26615	Bologna,	ham	Bernard Spitzer, No. 192 Leonard street, Brooklyn	
26617	Bologna,	ring	Bernard Spitzer, No. 192 Leonard street, Brooklyn	
26628	Bologna,	long	Boehm & Co., No. 185 Fort Green place, Brooklyn	Free from borax, sulphites and coloring matter.
26629	Bologna,	blood and tongue	Boehm & Co., No. 185 Fort Green place, Brooklyn	Free from borax, sulphites and coloring matter.
		2		

### Meats—Canned, Preserved, etc.

No.	Sample.	From Whom Purchased.	Results.
26631	Bologna, smoked	Boehm & Co., No. 185 Fort Green place, Brooklyn	Free from borax, sulphites and coloring matter.
26634	Bologna, smoked		
26636	Bologna, smoked	International Provision Company, No. 33 Degraw street, Brooklyn	Free from borax, sulphites and coloring matter.
26639	Bologna, tongue and blood	International Provision Company, No. 33 Degraw street,	
	Pologna ham	Brooklyn  Hutuelker Brothers, No. 653 Fifth avenue, Brooklyn	Free from borax, sulphites and coloring matter.  Free from borax, sulphites and coloring matter.
26643	Bologna, ham	Hutuelker Brothers, No. 653 Fifth avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26648	Bologna, smoked	Hutuelker Brothers, No. 653 Fifth avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26652	Bologna, half thick	F. H. Tietje, No. 656 Third avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26653	Bologna, blood and tongue	F. H. Tietje, No. 656 Third avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26655	Bologna, ham		Free from borax, sulphites and coloring matter.
26656		F. H. Tietje, No. 656 Third avenue, Brooklyn	
26657	The state of the s	F. H. Tietje, No. 656 Third avenue, Brooklyn F. H. Tietje, No. 656 Third avenue, Brooklyn	
26658		Julius Waehler, No. 996 First avenue	
26669		Huhn Brothers, No. 1162 Second avenue	
26685	Bologna, long	S. Sieber, No. 128 Norman avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26686		Jos. Rank, No. 1005 Manhattan avenue, Brooklyn	
26689		Jos. Rank, No. 1005 Manhattan avenue, Brooklyn	
26690		Jos. Rank, No. 1005 Manhattan avenue, Brooklyn	
26693		<ul><li>C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn,</li><li>C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.</li></ul>	
26697		C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.	
26698		C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.	
26702		Louis Meyer, No. 374 Flushing avenue, Brooklyn	
26703	Bologna, ham	Louis Meyer, No. 374 Flushing avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26706		Louis Meyer, No. 374 Flushing avenue, Brooklyn	Contains borax.
26707		Louis Meyer, No. 374 Flushing avenue, Brooklyn	
26717	Bologna, blood		
26719	Bologna, ham	Brenzinger, No. 3022 Third avenue	
26727		Brenzinger, No. 3022 Third avenue	
26735			
		John Kohl, No. 423 East Fifteenth street	
		John Kohl, No. 423 East Fifteenth street	
		A. Lester Heyer, Nos. 318 and 320 East Twenty-ninth street	
26808	NAME OF TAXABLE PARTY.	Aug. Essig, No. 25 Manhattan street	Free from sulphurous, benzoic and salicylic acids. Free from coloring matter and boric acid.
26809		Aug. Essig, No. 25 Manhattan street	Free from sulphurous, benzoic and salicylic acids. Free from coloring matter and boric acid.
26825	Bologna	Max Herman, No. 950 First avenue	Free from sulphurous, benzoic, boric and salicylic acids. Free from coloring matter.
26826	Bologna	No. 350 East Fifty-fourth street	Free from sulphurous, benzoic, salicylic acid and boric acid. Free from coloring matter.
26830	Bologna, Hungarian	May Wayner, No. 1501 Avenue A	Free from preservatives and artificial coloring matter.
26855	Bologna, beef	Joseph Viegel, No. 1976 Amsterdam avenue	Free from preservatives. Coal tar dye present.
26861	Bologna, link	Metzger, Brothers, No. 1044 Second avenue	Free from preservatives.
26864	Bologna	Justin Gortke, No. 1043 Second avenue	Free from preservatives and artificial coloring matter.
26867	Bologna, meat	Jos. Masin, No. 1384 Avenue A	Free from preservatives and artificial coloring matter.
26875	Bologna, liver	Val. Hermes, No. 258 Avenue B	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26877	Bologna, blood	Chas. Seher, No. 2583 Eighth avenue	Free from preservatives and artificial coloring matter.
26900	Bologna, beef	Chas. Seher, No. 2583 Eighth avenue	Free from preservatives and artificial coloring matter.
26903	Bologna, blood	Frederick Fischer, No. 2398 Eighth avenue	Free from preservatives and artificial coloring matter.
26904	Bologna, beef	Frederick Fischer, No. 2398 Eighth avenue	Free from preservatives and artificial coloring matter.
26910	Bologna, hard		Free from preservatives and artificial coloring matter.
26914	Bologna		Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
26928	Bologna, fresh liver		Free from preservatives and artificial coloring matter.
26929 26931			Free from preservatives and artificial coloring matter.
26947	Bologna, blood	Geo. Pfizwnmaier, No. 189 Avenue A	Free from sulphurous acid, boric acid and coloring matter.
26948	Bologna, smoked liver		Free from sulphurous acid, boric acid and coloring matter.
26949			Free from sulphurous acid, boric acid and coloring matter.
26986			Free from sulphurous acid, boric acid and coloring matter.  Free from sulphurous acid, boric acid and coloring matter.
26987 26613			Free from borax, sulphties and coloring matter.
26298			Free from borax and sulphites.
26302		Morris Schoenberg, No. 30 Rivington street	Free from borax and sulphites.
26362	Beef, rolled	D. Moskowitz, No. 49 Cannon street	Free from borax and sulphites.
26366			
26368			Free from borax and sulphites. Free from borax and sulphites.
26378	2		
26417	Beef, corned		
25818			
	Frankfurters	. Ginzoborge, northeast corner of Twenty-seventh street and	
		Eighth avenue	Free from preservatives and coloring marter
25821	Frankfurters		
25837			and a second sec
25838			Free from preservatives and artificial coloring matter.
	And the second s		

No.		Sample.	From Whom Purchased.	Results.
25839	Frankfurters		Jas. A. Guilben, Fort George avenue	Free from preservatives and artificial coloring matter.
25840	Frankfurters		Jas. Mozza, Fort George avenue	Contains borax.
25845	Frankfurters		Fourteenth Street Store, Fourteenth street and Sixth avenue	Free from preservatives and artificial coloring matter.
25856	Frankfurters		Geo. Herold, Second avenue and One Hundred and Second street	Free from preservatives and artificial coloring matter.
25857	Frankfurters		C. F. Schaue & Co., No. 2060 Third avenue	Free from preservatives and artificial coloring matter.
25859			Fred. Benz, No. 412 East One Hundred and Second street	Contains borax. Free from artificial coloring matter.
25860			Fred. Benz, No. 412 East One Hundred and Second street Fischer & Co., No. 2325 Second avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
25876			Otto Stahl, No. 2332 Third avenue	Contains borax. Free from artificial coloring matter.
25877	Frankfurters		Otto Stahl, No. 2332 Third avenue	Contains borax. Free from artificial coloring matter.
25883			A. W. Michel, No. 90 Ninth avenue	Free from preservatives and artificial coloring matter.
25886			M. A. Buchsbaum, No. 523 Ninth avenue	Free from borax. Contains borax.
25890			Richard Weber, Third avenue, between One Hundred and	Contains borax.
	P 16		Nineteenth and One Hundred and Twentieth streets	Free from borax.
25900	Frankfurters Frankfurters		John Hohloch, No. 1569 Second avenue	Contains borax. Free from artificial coloring matter.  Free from borax.
25903			Harry Brennen, No. 75 Goerck street	Free from preservatives and artificial coloring matter.
25904	Frankfurters		Harry Brennen, No. 75 Goerck street	Free from borax.
25905			Woelfle & Pfeiffer, No. 1530 Second avenue	Free from borax.
25907			Sussman Volk, No. 88 Delancey street	Free from preservatives and artificial coloring matter.
25913			Frederick Schempf, No. 1540 Second avenue	Free from preservatives and artificial coloring matter.  Contains borax. Free from artificial coloring matter.
25919			John T. Muller, No. 724 Tenth avenue	Free from preservatives and artificial coloring matter.
25922	Frankfurters		A. Buchsbaum Company, No. 729 Ninth avenue	Free from preservatives and artificial coloring matter.
25942			W. Holschuh, No. 1605 First avenue	Free from preservatives and artificial coloring matter.
25948			Peter Stenger, No. 1475 First avenue	Free from preservatives and artificial coloring matter.  Free from borax.
25950			G. Brenzenger, No. 3022 Third avenue	Contains borax.
25953	Frankfurters		A. Essig, No. 25 Manhattan street	Free from borax.
25955			Ed. Michels Sons, No. 2916 Third avenue	Contains borax.
25958			Anton Renschler, No. 3405 Third avenue	Free from borax.
25963	Frankfurters Frankfurters		Gustav Reiss, No. 617 Ninth avenue	Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
25966			Max Kleinfeldt, No. 97 Park row	Contains borax.
25970	Frankfurters,	Kosher	Jacob Keiser, No. 1507 First avenue	Free from borax.
25973		•••••	R. Kallensee, No. 1650 Third avenue	Contains borax. Free from artificial coloring matter.
25985			Vaclav Novak, No. 1363 First avenue  Frank Zadina, No. 1432 First avenue	Free from preservatives and artificial coloring matter.  Contains borax.
25986			Frank Mosner, No. 1373 First avenue	Contains borax.
26002		large	Geo. Bauer, No. 1208 Eighth avenue	Free from preservatives and artificial coloring matter.
26010	Frankfurters		Armour & Co., Thirty-fifth street and Eleventh avenue	Free from borax.
26025			Jos. Soukopf, No. 1424 Avenue A	Free from borax.
26031			Jos. Wimmer, No. 1391 Avenue A	Contains borax. Free from borax.
26040			Chris. Widmann, No. 1708 First avenue	Free from borax.
26045			Henry Fleck, No. 1679 Avenue A	Free from borax.
26048			Philip Spitzhoff, No. 659 Ninth avenue	Free from borax.
26056			A. Becker, No. 2690 Third avenue	Free from borax. Contains borax.
26061			Jacob Muller, No. 671 Eleventh avenue	Free from borax.
26071			R. J. Pusim, No. 850 Tenth avenue	Free from borax.
26077			Alfred Naef, No. 2185 Second avenue	Contains borax.
26080			Jacob Brucker, No. 2185 Second avenue	Free from borax. Free from borax.
26097			L. Goldsmith, No. 2171 Eighth avenue	Contains borax.
26098			Grout & Fisher, No. 2172 Eighth avenue	Free from borax.
26100			H. Branell, No. 2108 Eighth avenue	Contains borax.
26108			Julin H. Garthe, No. 1043 Second avenue	Free from borax.
26111			Harmischifeger & Mathes, No. 1048 Second avenue  Felix Metzger, No. 1044 Second avenue	Free from borax.
26112			Anton W. Finger, No. 866 Second avenue	Free from borax.
26119		barroom	A. Schmidt, No. 339 East Forty-sixth street	Contains borax.
26134			G. Pfizemmaier, No. 189 Avenue A	Free from borax.
26140			Geo. Herold, No. 139 Avenue A	Free from borax.
26146		domestic	John Schuenker, No. 966 East One Hundred and Thirty-fourth	3.00
26155			street	Free from preservatives and coloring matter.
26159		domestic	John Leim, No. 133 Lincoln avenue, The Bronx	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26165			G. C. Goelz, No. 250 First avenue	Free from preservatives and coloring matter.
26169 26176			Louis Cappel, No. 302 First avenue	Free from preservatives and coloring matter.
			Samuel Hutter, No. 767 Ninth avenue	Free from preservatives and coloring matter.
26184			Geo. F. Lidinger, No. 765 Ninth avenue	Free from preservatives and coloring matter.
26186			Louis Wagner, No. 849 Tenth avenue	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26200			Chas. Beckstein, No. 793 Columbus avenue	Free from preservatives and coloring matter.
26210			Isaac Melchner, No. 9 First avenue	Contains borax.
26212			John Fuhrman, No. 59 First avenue	Contains borax.
26219	Frankfurters		Stutz & Feiler, No. 151 First avenue	Free from preservatives and coloring matter.

No.	4	Sample.	From Whom Purchased.	Results.	- Medicals
26223	Frankfurters		Eberhard Pantel, No. 1825 Second avenue		Service of services
26227	Frankfurters		Oscar Pache, No. 1744 Second avenue		Section 1997
26232	Frankfurters		John Heil, No. 387 First avenue		Total Complete Total
26234	- 4-11		Fritz Sache, No. 423 First avenue		The second of th
26239			Frank Hopf, No. 506 First avenue		A CONTRACTOR OF
26249		***************************************	Jacob Scholl, No. 855 Tenth avenue		
26250			Sebastian Dorfmuller, No. 500 Eleventh avenue		
26252			Fred Hoez, No. 150 West Seventeenth street		
26253		***************************************	F. Muller, No. 623 Tenth avenue		- A SHOP I SHOW
26254			Albert Kerner, No. 523 Tenth avenue		the second second second
26256			Albert Nagle, No. 583 Eleventh avenue	Free from preservatives and coloring matter.	
26257			Wm. Eppinger, No. 640 Tenth avenue	Free from preservatives and coloring matter.	
26258			F. Muller, No. 761 Tenth avenue	Free from preservatives and coloring matter.	
26259	Frankfurters		A. Linemnaier, No. 257 West Fifty-second street	Free from preservatives and coloring matter.	*
26260	Frankfurters		G. Schoenecker, No. 662 Tenth avenue	Free from preservatives and coloring matter.	
26261	Frankfurters				
26262	Frankfurters		Griesar & Zeroas, No. 546 Ninth avenue		
26268	Frankfurters				- Comment for the State
26276		***************************************	Eliz. Koegler, No. 8 Greenwich street	Contains borax.	
26280					
26282			E. P. Ham, No. 211 Washington street		- V 100
26283	The second second				*
26292			Ballentine Hermes, No. 258 Avenue B	Free from borax and sulphites,	
26294			B. F. Jaissel, No. 200 Avenue B		
26300					
26301			Morris Schoenberg, No. 30 Rivington street		
			Moses Selig & Bro., No. 80 Amsterdam avenue		
26314			Henry Eberle, No. 110 Amsterdam avenue	Free from borax and sulphites.	
			John Foerst, No. 122 Manhattan street	Free from borax and sulphites.	
12.0				Contains borax.	
26344			Wm. G. Wagner, No. 573 First avenue	Free from borax and sulphites.	***
26346			Lang Brothers, No. 569 Tenth avenue		**
200			Chas. Reichert, No. 104 West Houston street		
26363	Frankfurters		D. Moskowitz, No. 49 Cannon street	Free from borax and sulphites.	- MA
26373	Frankfurters		C. Schneider, No. 77 Broome street	Free from borax and sulphites.	
26377	Frankfurters		I. Gellis, No. 37 Essex street	Free from borax and sulphites.	* *
26383	Frankfurters		S. Ludwig, No. 1833 Third avenue	Free from borax.	
26386	Frankfurters		Chas. Schloerb, No. 1913 Third avenue	Free from borax.	
11180			Nauss Brothers, No. 2291 Third avenue	Free from borax.	7.0
			M. Kroll Sons, No. 33 Canal street		
			Isaac Gillis, No. 37 Essex street		
			Gertrude Langer, No. 137 West Houston street		
			Erschowsky & Bro., No. 175 West Houston street		
			Chas. Beckstein, No. 703 Columbus avenue	Contains borax.	
			A. Dreyfus, No. 704 Ninth avenue  Louis Abendscheim, No. 931 Columbus avenue		The I
			A. Andre, No. 884 Columbus avenue		4 . * .
					* * *
3362	Frankfurters		W. Hirsch, No. 181 Amsterdam avenue		4.5
26462	Frankfurters		N. Zushlam, No. 792 Ninth avenue	Free from preservatives and coloring matter.	et e e
26467	Frankfurters		John Rollman, No. 763 Columbus avenue	Free from preservatives and coloring matter.	4 4
26475	Frankfurters		Max Herman, No. 950 First avenue	Free from preservatives and coloring matter.	* .
26485	Frankfurters		Carl Decker, No. 835 Second avenue	Free from preservatives and coloring matter.	
26486	Frankfurters,	barroom	Otto Stahl, No. 2332 Third avenue	Free from preservatives and coloring matter.	†- ¥
26487	Frankfurters	***************************************	Otto Stahl, No. 2332 Third avenue	Free from preservatives and coloring matter.	Tr. W.
26489	Frankfurters				- t 6.
25490					76.5°
26492	Frankfurters		The second succession is a second succession in the second succession in the second succession in the second succession is a second succession in the second succession in		(*) - ·
26493	Frankfurters				***
26494					4 %
26509		*******************************			
26520					
			Lang Brothers, No. 569 Second avenue		
			Wm. Burmeister, No. 544 Second avenue	Contains borax.	**************************************
1000			Majewski & Sons, No. 607 Second avenue		
			Imperial Beef Company, No. 551 Eighth avenue		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			E. Schultheis, No. 573 Eighth avenue		
			M. Saalberg, No. 592 Eighth avenue		
464.4			Geo. Kramer, No. 38 Greenwich street	Contains borax.	The Art of the State of the Sta
	Frankfurters		F. Strohmeier, No. 616 Eighth avenue	Free from borax, sulphites and coloring matter.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
26542			Adam Siebert, No. 132 Greenwich street	Free from borax, sulphites and coloring matter.	The second of the
26542 26543					1.00
26542 26543 26550	Frankfurters		Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	Free from borax, sulphites and coloring matter.	The second second
26542 26543 26550 26556	Frankfurters Frankfurters,	smoked	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn  Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Contains borax.	77
26542 26543 26550 26556 26563	Frankfurters, Frankfurters, Fraukfurters,	smokedsmoked	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn  Louis Stutz & Sons, No. 815 Broadway, Brooklyn  Edw. C. Krummel, No. 906 Broadway, Brooklyn	Contains borax.  Free from borax, sulphites and coloring matter.	776 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 1976 - 197
26542 26543 26550 26556 26563 26591	Frankfurters, Frankfurters, Frankfurters, Frankfurters,	smoked	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn  Louis Stutz & Sons, No. 815 Broadway, Brooklyn  Edw. C. Krummel, No. 906 Broadway, Brooklyn  Chris. Grozinger, No. 195 Hamburg avenue, Brooklyn	Contains borax.  Free from borax, sulphites and coloring matter.  Free from borax, sulphites and coloring matter.	76 - 4 - 76 - 4 - 201 - 4

From Whom Purchased.

4,833

Results.

No.		Sample.	From Whom Purchased.	Results.
26609	Frankfurters		Adolph Gobel, Morgan avenue, corner of Rock street, Brooklyn	Free from borax, sulphites and coloring matter.
26616	Frankfurters,	smoked	Bernard Spitzer, No. 192 Leonard street, Brooklyn	Free from borax, sulphites and coloring matter.
26627	Frankfurters,	smoked	Boehm & Co., No. 185 Fort Greene place, Brooklyn	Free from borax, sulphites and coloring matter.
26633	Frankfurters,	smooth	Boehm & Co., No. 185 Fort Greene place, Brooklyn	Free from borax, sulphites and coloring matter.
26640	Frankfurters,	smoked	International Provision Company, No. 33 Degraw street, Brooklyn	Free from borax, sulphites and coloring matter.
26647	Frankfurters,	smoked	Hutuelker Brothers, No. 653 Fifth avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26659		smoked	F. H. Tietje, No. 656 Third avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26666	Frankfurters		Julius Walhler, No. 996 First avenue	Free from borax, sulphites and coloring matter.
26668	Frankfurters		Huhn Brothers, No. 1162 Second avenue	Free from borax, sulphites and coloring matter.
26688	Frankfurters,	smoked	Jos. Rank, No. 1005 Manhattan avenue, Brooklyn	Free from borax, sulphites and coloring matter.
26695	Frankfurters		C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.	Free from borax, sulphites and coloring matter.
26705	Frankfurters,	smoked	Louis Meyer, No. 374 Flushing avenue, Brooklyn	Borax present.
26711		smoked	Louis Meyer, No. 374 Flushing avenue, Brooklyn	Borax present.
26713		***************************************	D. Reubold, No. 1805 Second avenue	Free from borax, sulphites and coloring matter. Free from borax, sulphites and coloring matter.
26716			Eberhard Pantle, No. 1825 Second avenue	Free from borax, sulphites and coloring matter.
26720			Wm. Love, No. 363 Seventh avenue	Contains borax.
26722			E. Bokens, No. 376 Seventh avenue	Free from borax, sulphites and coloring matter.
26723			A. Futterer & Co., No. 371 Seventh avenue	Free from borax, sulphites and coloring matter.
26724			A. Schmidt, No. 339 East Forty-sixth street	Contains borax.
26729	Frankfurters		Brenzinger, No. 3022 Third avenue	Free from borax, sulphites and coloring matter.
26736	Frankfurters			Free from borax, sulphites and coloring matter.
26740	Frankfurters	·	John Kohl, No. 423 East Fifteenth street	Free from borax, sulphites and coloring matter.
26744	Frankfurters		A. Lester Heyer, Nos. 318 and 320 East Twenty-ninth street	Free from borax, sulphites and coloring matter.
26749	Frankfurters		A. Martinek, No. 1353 First avenue	Free from boric and sulphurous acids and coloring matter.
26750	Frankfurters		J. Keiser, No. 1507 First avenue	Free from boric and sulphurous acids and coloring matter.
26751	Frankfurters		P. Stenger, No. 1475 First avenue	Free from boric and sulphurous acids and coloring matter.
26753	Frankfurters		W. Holschuh, No. 1605 First avenue	Free from boric and sulphurous acids and coloring matter.
26805	Frankfurters		Geo. Nolberger, No. 1464 Amsterdam avenue	rree from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26806			August Essig, No. 25 Manhattan street	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26812			Max Berkower, No. 129 Mulberry street, Brooklyn	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26813			Edmund Gallagher, No. 177 Atlantic avenue, Brooklyn	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26814			Thomas Corenas, No. 7 Chrystie street	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.  Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26815			C. Langer, No. 137 East Houston street.	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
				Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26818				Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26819			John Germnent, No. 132 White street	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26820			David Sosowsky, No. 292 Monroe street	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26821			Brenner & Hermanson, No. 77 Goerck street	Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
26829	Frankfurters		Christin Widman, No. 708 First avenue	Free from preservatives and artificial coloring matter.
26834	Frankfurters		Henry Fleck, No. 1679 Avenue A	Free from preservatives and artificial coloring matter.
26854			Joseph Viegel, No. 1976 Amsterdam avenue	
26863	Frankfurters		Justin Gortke, No. 1043 Second avenue	Free from preservatives and artificial coloring matter.
26865	Frankfurters		Metzger Bros., No. 1044 Second avenue	Free from preservatives and artificial coloring matter.
26866	Frankfurters		Jos. Wimmer, No. 1391 Avenue A	Free from preservatives and artificial coloring matter
26868	Frankfurters		Alois Zoufaly, No. 1356 First avenue	Free from preservatives and artificial coloring matter.
26871	Frankfurters,	barroom	William Chyba, No. 1374 Avenue A	Free from preservatives. Artificial coloring present.
26872	Frankfurters		Val. Hermes, No. 258 Avenue B	Free from preservatives and artificial coloring matter.
26876	Frankfurters		Charles Seher, No. 2583 Eighth avenue	Free from preservatives. Artificial coloring present.
26901	Frankfurters		Fred Fischer, No. 2398 Eighth avenue	Free from preservatives and artificial coloring matter,
26905	Frankfurters		William Chyba, No. 1374 Avenue A	Free from preservatives and artificial coloring matter.
26922	Frankfurters		Frank Ferc, No. 326 East Seventy-first street	Free from preservatives and artificial coloring matter,
26930	Frankfurters		John Melchner, No. 9 First avenue	Free from preservatives and artificial coloring matter,
26950			George Pfizenmaier, No. 189 Avenue A	
26951			Mr. Becker, No. 237 Ninth avenue	
26976			Frank Bund, No. 320 Ninth avenue	
26977			Albert Dandowitz, corner of Eighth street and Broadway	
26985			Mrs. Rosie Boher, No. 786 Courtland avenue, The Bronx  H. Garfinkel, No. 235 Seventh avenue	
27004			William Goldschmidt, No. 621 Courtland avenue, The Bronx.	
27013			Harnischfeger & Mathes, No. 1048 Second avenue	
27014		domestic	Charles Bossler, No. 5 Second avenue	
27020		domination	George Herold, No. 2151 Second avenue	
27022			Charles Schloerb, No. 1913 Third avenue	
27034			John Kohl, No. 423 East Fifteenth street	Free from preservatives and artificial coloring matter.
			George Glenz, No. 903 East One Hundred and Sixty-fifth	
100.00			street	Free from preservatives and artificial coloring matter.
			Frederick Schempf, No. 1540 Second avenue	
			George Mayer, No. 805 Westchester avenue, The Bronx	
			Louis Drescher, No. 632 Second avenue  Swift & Co., West Harlem Market	Boracic acid present.
			Louis Cappel, No. 302 First avenue	Free from preservatives and artificial coloring matter.
27167	Frankfurters		West Shore Beef Company, No. 688 Eighth avenue	
200			H. Garthe, No. 1043 Second avenue	Free from preservatives and artificial coloring matter.
27198			Adolph Schmidt, No. 339 East Forty-sixth street	Free from preservatives and artificial coloring matter.
27388			Goldman & Schweisheimer, No. 93 Third avenue	Free from preservatives and artificial coloring matter.
27389			Stutz & Feiller, No. 151 First avenue	Free from preservatives and artificial coloring matter.
				Free from preservatives and artificial coloring matter.

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No.		Sample.	From Whom Purchased.	Results.
47559	Frankfurters		Frank Mossner, No. 1373 First avenue	Free from preservatives and artificial coloring matter.
27567	Frankfurters		Gertrude Langer, No. 137 East Houston street	
25833	Headcheese		Rohe & Brother, No. 523 West Thirty-sixth street	Free from preservatives and artificial coloring matter.
25852	Headcheese		George Wittman, No. 338 East One Hundred and Second street	
25855	Headcheese		George Herold, Second avenue and One Hundred and Second street	
25878	Headcheese		Goldman & Schwasheimer, No. 83 Third avenue	
25941	Headcheese		Theo. Bertsch, No. 1658 Third avenue	Free from preservatives and artificial coloring matter.
25964	Headcheese .		Gustav Reiss, No. 617 Ninth avenue	
25988	Headcheese		Frank Zadina, No. 1432 First avenue	Free from borax,
25991			Antonia Martinek, No. 1353 First avenue	
25999		***************************************	Andrew Adamko, No. 1296 First avenue	matter.
26028			Joseph Soukopf, No. 1424 Avenue A	
26035	200	domestic bloodwhite	Joseph Masin, No. 1384 Avenue A	
26036 26050	44 0	wnite	Joseph Masin, No. 1384 Avenue A	The state of the s
26055			A. Becker, No. 2690 Third avenue	
26065			William Klinger, No. 2634 Third avenue	
26068	Headcheese		Jacob Muller, No. 671 Eleventh avenue	
26076	Headcheese,	blood	Alfred Naef, No. 2185 Second avenue	Free from borax,
26109	Headcheese,	German	Harnischfeger & Mathes, No. 1048 Second avenue	Free from borax.
26118	Headcheese		Anton W. Finger, No. 866 Second avenue	Free from borax.
26141	Headcheese		George Herold, No. 139 Avenue A	Free from borax.
26142	Headcheese		Adolph Lindner, No. 98 First avenue	Contains borax.
26163	Headcheese		John Kohl, No. 423 East Fifteenth street	and the second s
26170	Headcheese		G. C. Goelz, No. 250 First avenue	The state of the s
26174			Louis Cappel, No. 302 First avenue	the state of the s
26831			Oscar Pochi, No. 1744 Second avenue	
26197	22		John Rollman, No. 763 Columbus avenue	and the same of th
26202			Charles Beckstein, No. 793 Columbus avenue	matter.
26235 26238		·····	Fritz Sachs, No. 423 First avenue  Frank Hopf, No. 506 First avenue	matter.
26266			I. Blank, No. 1454 Second avenue	matter.
		*****************	John Dreyer, No. 152 West street	
26286	Headcheese		John Hoesel, No. 182 Avenue B	
26289			Ballentine Hermes, No. 258 Avenue B	
26295			B. F. Jaissel, No. 200 Avenue B	
26315			Henry Eberle, No. 110 Amsterdam avenue	
26323	Headcheese .		George Gingerich, No. 70 Amsterdam avenue	Free from borax and sulphites,
26336	Headcheese .		John Bacsl, No. 253 East Third street	Free from borax and sulphites.
26338	Headcheese .		William Bormester, No. 544 Second avenue	Free from borax and sulphites.
26349	Headcheese .		Lang Bros., No. 569 Tenth avenue	Free from borax and sulphites.
26351	Headcheese .		Charles Reichert, No. 104 West Houston street	Free from borax and sulphites,
26357			Bernard Meyer, No. 161 Perry street	Free from borax and sulphites,
26372			C. Schneider, No. 77 Broome street	Free from borax and sulphites.
26385			S. Ludwig, No. 1833 Third avenue	Free from borax.
26387			Chris Schloerb, No. 1913 Third avenue	Free from borax,
26450 26468			John Rollman, No. 763 Columbus avenue	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26481			Carl Decker, No. 835 Second avenue	
26511			William Klinger, No. 2634 Third avenue	
26516	Headcheese		Adolph Becker, No. 2690 Third avenue	
26522	Headcheese .		John Heim, No. 133 Lincoln avenue, The Bronx	
26530	Headcheese .		William Burmeister, No. 544 Second avenue	Free from borax, sulphites and coloring matter.
26553			Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	
26571			Ed. C. Krummel, No. 906 Broadway, Brooklyn	
26597			Ch. J. Sahl, Materalia and H.	
26601			Ch. J. Stahl, Metropolitan and Union avenues, Brooklyn	
26612			Adolph Gobel, Morgan avenue and Rock street, Brooklyn	
26614			Bernard Spitzer, No. 192 Leonard street, Brooklyn  International Pro. Company, No. 33 Degraw street, Brooklyn.	
26638			Hutuelker Bros., No. 653 Fifth avenue, Brooklyn	
26654			F. H. Tietje, No. 656 Third avenue, Brooklyn	
26664			Julius Waehler, No. 996 First avenue	
26694	Headcheese .		C. Heidelberger's Sons, No. 856 Manhattan avenue	
26709		white	Louis Meyer, No. 374 Flushing avenue, Brooklyn	
26718	Headcheese .		G. C. Goelz, No. 250 First avenue	
26742	Headcheese .		John Kohl, No. 423 East Fifteenth street	Free from borax, sulphites and coloring matter.
26746			A. Lester Heyer, Nos. 318 and 320 East Twenty-eighth street.	
				Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
	Headcheese		Val. Hermes, No. 258 Avenue B	Free from preservatives and artificial coloring matter.
			Charles Seher, No. 2583 Eighth avenue	
100000000000000000000000000000000000000			Fred Fischer, No. 2398 Eighth avenue	
			Mrs. Rosie Boher, No. 786 Courtland avenue, The Bronx	
			Rohe Bros., No. 523 West Thirty-sixth street	
			A. Becker, No. 2690 Third avenue	
			Joseph Viegel, No. 1976 Amsterdam avenue	The state of the s
			Goldman & Schwasheimer, No. 83 Third avenue	
			Bernstein-Greenberg Company, No. 82 Rivington street	
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No.	Sample.	From Whom Purchased.	Results.
25983	Salami	Vaclav Novak, No. 1363 First avenue	Free from borax.
26006	Salami, German	Swift & Co., Eleventh avenue and Thirty-fifth street	Contains borax.
26007	Salami, Italian	Swift & Co., Eleventh avenue and Thirty-fifth street	Free from borax.
26355	Salami	Charles Reichert, No. 104 West Houston street	Free from borax and sulphites.
26361	Salami	D. Moskowitz, No. 49 Cannon street	Free from borax and sulphites.
26376	Salami	I. Gellis, No. 37 Essex street	Free from borax and sulphites.
26424	Salami	Gertrude Langer, No. 137 West Houston street	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26435	Salami	Erschowsky & Bro., No. 175 West Houston street	Contains borax.
3.00	Sausages	Gustav Langer, No. 137 East Houston street	Contains coloring matter. Free from preservatives.
25814B	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives and coloring matter.
258140	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives. Coloring matter present.
25814I	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives. Coloring matter present.
25814E	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives. Coloring matter present.
	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives and coloring matter.
	Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives. Coloring matter present.
	I Sausages	Gustav Langer, No. 137 East Houston street	Free from preservatives and coloring matter.
	Sausages	A. Guilda, No. 66 West Third street	
25816	Sausages	P. Lewith, No. 43 Greenwich street	
	Sausages	M. Dreyfus, No. 423 Greenwich street	
25822	Sausages	S. Lichtenstein, No. 287 Eighth avenue.	
25823	Sausages	Val. Linke, No. 147 Seventh avenue	
25824		A. Lewis, No. 107 Seventh avenue	the state of the s
200	Sausages	S. Ershowsky & Bro., No. 175 East Houston street	
200	Sausages	S. Ershowsky & Bro., No. 175 East Houston street	
	Sausages		
25826I	Sausages	Fred Hauff, No. 41 Broadway	
258260	Sausages	Fred Hauff, No. 41 Broadway	Free from preservatives and coloring matter.
25826I	Sausages	Fred Hauff, No. 41 Broadway	Borax present.
25826I	Sausages	Fred Hauff, No. 41 Broadway	Free from preservatives and coloring matter.
25826I	Sausages	Fred Hauff, No. 41 Broadway	Free from preservatives and coloring matter,
258260	Sausages	Fred Hauff, No. 41 Broadway	Free from preservatives and coloring matter,
258271	A Sausages	M. Zimmerman & Co., No. 318 East Houston street	Free from preservatives and coloring matter,
258271	3 Sausages	M. Zimmerman & Co., No. 318 East Houston street	
	Sausages		
		M. Zimmerman & Co., No. 318 East Houston street	
		M. Zimmerman & Co., No. 318 East Houston street	
1360050	Sausages		
100	G Sausages		
	I Sausages		
25830	Sausages		
25842	Sausages		
	A Sausages		
	3 Sausages		Control of the contro
25846	Sausages	Siegel Cooper, Eighteenth street and Sixth avenue	
25882	Sausages	Goldman & Schwasheimer, No. 83 Third avenue	Borax present.
25884	Sausages	A. W. Michel, No. 90 Ninth avenue	Borax present.
25887	Sausages	A. L. Maier, No. 444 Tenth avenue	Free from preservatives and artificial coloring matter,
26005	Sausages, German	Swift & Co., Eleventh avenue and Thirty-fifth street	Borax present.
26090	Sausages, Cervelat	Ph. H. Loewith, No. 403 Greenwich street	Free from borax.
26091	Sausages, Salami	Ph. H. Loewith, No. 403 Greenwich street	Free from borax.
26092	Sausages, Cervelat		
26096	Sausages		
26101	Sausages		
26106	Sausages, fresh		
26138	Sausages, fresh		
26251	Sausages		
26277	Sausages, fresh		
26307	Sausages		
26439	Sausages, Summer		
26496	Sausages, Armour's		
26545		Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	
26555	Sausages, pork		
26630	Sausages, pork		
26635	Sausages, pork	International Provision Company, No. 33 Degraw street,	
		Brooklyn	
26650	Sausages (Bauren Wurst)		
26696		C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.  A. Lester Heyer, Nos. 318 and 320 East Twenty-ninth street.	
26745			
		Armour & Co., West Harlem Market  H. Dietz, No. 482 Lenox avenue	
27127		Ferdinando Rivecco, No. 137 Van Brunt street	
25914	Meat, spiced		
25929	Meat, raw		
26379		I. Gellis, No. 37 Essex street	
26434		Gertrude Langer, No. 137 West Houston street	
26620		Brennwasser, No. 1616 Second avenue	
26621		Nauss Bros. Company, Eightieth street and Second avenue	
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No.		Sample.	From Whom Purchased.	Results.
26622	Meat,	chopped	Brennwasser, No. 1571 Second avenue	Free from borax, sulphites and coloring matter.
26623	200	chopped	Brennwasser, No. 1571 Second avenue	Free from borax, sulphites and coloring matter.
26626		chopped	Abr. Tuck, No. 1569 Lexington avenue	Sulphurous acid present. Sulphurous acid present.
26912		chopped	F. Ferc. No. 326 East Seventy-first street	Free from preservatives and artificial coloring matter.
26978		chopped	N. Levy & Co., No. 230 Eighth avenue	Sulphurous acid present.
27125		round steak	Jacob Wise, No. 100 West Thirty-fourth street  L. Oppenheimer, No. 2037 Second avenue	Free from borax, sulphites and coloring matter.  Sulphurous acid present.
27131		chopped	Kahn Bachenheimer, No. 361 Lenox avenue	Sulphurous acid present.
27136	Meat,	chopped	John Rollmann, No. 763 Columbus avenue	Sulphurous acid present.
27556		chopped	J. Wendel & Son, No. 2733 Eighth avenue	Sulphurous acid present. Sulphurous acid present.
27565		chopped	E. Meyer, No. 2030 Fulton street, Brooklyn	Sulphurous acid present.
27606	Meat,	chopped	Chapman's, corner Fulton and Bridge streets, Brooklyn	Sulphurous acid present.
27609		chopped	S. Klein, No. 620 Myrtle avenue, Brooklyn	Sulphurous acid present.
27610		chopped	Columbia Meat Market, No. 635 Myrtle avenue, Brooklyn  Isadore Katz, No. 482 Myrtle avenue, Brooklyn	Sulphurous acid present. Sulphurous acid present.
27763	42	chopped	Martin Herrmann, No. 1804 Second avenue	Sulphurous acid present.
27764		chopped	Gustav Schmidt, No. 1823 Second avenue	Sulphurous acid present.
27488		chopped	William Zick, No. 29 Bleecker street  Joe Mayer, No. 368 Bleecker street	Sulphurous acid present. Sulphurous acid present.
27490		chopped	Frank Bund, No. 278 Bleecker street	Sulphurous acid present.
27491	Meat,	chopped	Fourteenth Street Store, Fourteenth street and Sixth avenue.	Sulphurous acid—trace present.
27492		chopped	Fourteenth Street Store, Fourteenth street and Sixth avenue.	Sulphurous acid—trace present.
27384	_	***************************************	Swift & Co	Free from borax.  Borax present.
27414			Morris & Co	Borax present.
27413	Tripe		Swift & Co., Twelfth avenue and Manhattan street	Free from borax,
27555	1377		Ind. Preservative Company	Free from preservatives.
25851	Wurst,	liver	George Wittman, No. 338 East One Hundred and Second street	Free from preservatives and artificial coloring matter.
25862		liver	Fred Benz, No. 412 East One Hundred and Second street	Free from borax.
25875		liver, smoked	Otto Stahl, No. 2332 Third avenue	Free from preservatives and artificial coloring matter.  Borax present.
		liver	Richard Weber, Third avenue, between One Hundred and	
25899	Wurst.	liver, smoked	Nineteenth and One Hundred and Twentieth streets  Louis Grimm, No. 1427 Second avenue	
25943		liver, smoked	W. Holschuh, No. 1605 First avenue	Free from borax,
25987	Wurst,	knack	Frank Zadina, No. 1432 First avenue	Free from preservatives and artificial coloring matter.
25993		liver, smoked	Frank Mossner, No. 1373 First avenue	
26001		knack	George Bauer, No. 1208 First avenue  Joseph Soukopf, No. 1424 Avenue A	Free from borax.
26030		knack	Joseph Wimmer, No. 1391 Avenue A	Borax present.
26033	Wurst,	knack	William Chyba, No. 1374 Avenue A	Free from borax.
26044		liver, smoked	Henry Fleck, No. 1679 Avenue A	Free from borax.
26049	Carpone .	liver	Philip Spitzhoff, No. 659 Ninth avenue	Free from borax.
26105	Wurst,	liver, smoked	Julius Garthe, No. 1043 Second avenue	Free from borax.
26107		liver, smoked	Julius Garthe, No. 1043 Second avenue	Free from borax.
26114		knackknack	Felix Metzger, No. 1044 Second avenue	Free from borax.
26125		liver, smoked	F. Majewski & Son, No. 607 Second avenue	Free from borax.
26128	Wurst,	Cervelat	F. Majewski & Son, No. 607 Second avenue	Free from borax.
26133		liver	G. Pfizenmaier, No. 189 Avenue A	Free from borax.
26135		bloodliver	G. Pfizenmaier, No. 189 Avenue A	Free from borax.
26137		liver	John Schwenker, No. 966 East One Hundred and Thirty-fourth	
26160	Wurst.	liver	John Leim, No. 133 Lincoln avenue, The Bronx	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26166		liver	John Kohl, No. 423 East Fifteenth street	Free from preservatives and coloring matter.
26172		liver	Louis Cappel, No. 302 First avenue	Free from preservatives and coloring matter,
26199		liver	John Rollman, No. 763 Columbus avenue	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
26211		liver	Isaac Melchner, No. 9 First avenue	Free from preservatives and coloring matter.
26216	Wurst,	blood	Stutz & Feiler, No. 151 First avenue	Borax present.
26221		liver	Everhard Pantel, No. 1826 Second avenue	Free from preservatives and coloring matter.
26224		land yeager	Everhard Pantel, No. 1826 Second avenue  David Reubold, No. 1805 Second avenue	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
		blood		Free from preservatives and coloring matter.
26240		liver	Frank Hopf, No. 506 First avenue	
-	Trans.	Bauren	Frank Hopf, No. 506 First avenue	Free from preservatives and coloring matter.  Free from preservatives and coloring matter.
		liver		Free from preservatives and coloring matter.
0000		liver	Henry Eberle, No. 110 Amsterdam avenue	
		liver	George Gingerich, No. 70 Amsterdam avenue	Free from borax and sulphites.
	-	liver	George Gingerich, No. 70 Amsterdam avenue	Free from borax and sulphites.
		liver	John Foerst, No. 122 Manhattan street	Borax present.  Free from borax and sulphites.
26342		liver	Lang Bros., No. 569 Tenth avenue	Free from borax and sulphites.
26350	Wurst,	yaeger	Lang Bros., No. 569 Tenth avenue	Free from borax and sulphites.
		liver	Charles Reichert, No. 104 West Houston street	Free from borax and sulphites. Free from borax and sulphites.
20358	wurst,	liver	Bernard Meyer, No. 161 Perry street	The from ourax and surprites.

No.		Sample.	From Whom Purchased.	At marin	Results.
26370	Wurst.	liver	C. Schneider, No. 77 Broome street	Free from	borax and sulphites.
26382			Christ Seher, No. 1887 Third avenue		
26388		liver		21 10 1	
26395	Wurst,	liver	Frank S. Schwintek, No. 1979 Third avenue	Free from	borax,
26405	Wurst,	liver	Woelffle & Pfeiffer	Free from	borax and sulphites.
26410		liver	Louis Grimm, No. 1427 Second avenue		borax and sulphites,
26413	Wurst,	knack	M. Zimmerman & Co., Nos. 318 to 324 East Houston street		
26449		liver			
26470		liver			
26473			Max Herman, No. 950 First avenue		preservatives and coloring matter.
26476			Max Herman, No. 950 First avenue		preservatives and coloring matter.
26479			William Sutton, No. 829 First avenue  Carl Decker, No. 835 Second avenue		preservatives and coloring matter.
26483		blood	A CONTRACTOR OF THE PARTY OF TH		preservatives and coloring matter.
26484		knack	Fischer & Co., No. 2325 Second avenue		preservatives and coloring matter.
26491		liver	William Klingler, No. 2634 Third avenue		borax, sulphites and coloring matter.
26517		liver	Adolph Becker, No. 2690 Third avenue		borax, sulphites and coloring matter.
26527		liver	Lang Bros., No. 569 Second avenue		
26529		liver	William Burmeister, No. 544 Second avenue		
26532		liver	Majewski & Sons, No. 607 Second avenue		
26546	Wurst,	blood	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	Free from	borax, sulphites and coloring matter,
26549	Wurst,	liver	Jacob Dangler, No. 722 Myrtle avenue, Brooklyn	Free from	borax, sulphites and coloring matter.
26557	Wurst,	liver	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Borax pres	ent.
26559	Wurst,	Bauren	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Borax pres	ent.
26560	Wurst,	liver	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Free from	borax, sulphites and coloring matter.
26561	Wurst,	blood	Louis Stutz & Sons, No. 815 Broadway, Brooklyn	Free from	borax, sulphites and coloring matter.
26564	Wurst,	liver	Edw. C. Krummel, No. 906 Broadway, Brooklyn	Free from	borax, sulphites and coloring matter,
26565	Wurst,	Bauren	Edw. C. Krummel, No. 906 Broadway, Brooklyn	Borax pres	sent.
26567	Wurst,	blood	Edw. C. Krummel, No. 906 Broadway, Brooklyn		
26570	Wurst,	liver	Edw. C. Krummel, No. 906 Broadway, Brooklyn		
26592	Wurst,	liver	Chris Grozinger, No. 195 Hamburg avenue, Brooklyn		
26593	and the same	liver	Chris Grozinger, No. 195 Hamburg avenue, Brooklyn		
26594		Bauren	Chris Grozinger, No. 195 Hamburg avenue, Brooklyn		
26600	10,300,000	liver	Charles Stahl, Metropolitan and Union avenues, Brooklyn		
26607			Adolph Gobel, Morgan avenue, corner Rock street, Brooklyn.  Adolph Gobel, Morgan avenue, corner Rock street, Brooklyn.		
26610		liver	Adolph Gobel, Morgan avenue, corner Rock street, Brooklyn.		
26611		liver	Boehm & Co., No. 185 Fort Greene place, Brooklyn		
26632		liver	International Provision Company, No. 33 Degraw street,		
2004.			Brooklyn	Free from	borax, sulphites and coloring matter.
26642	Wurst,	liver	International Provision Company, No. 33 Degraw street, Brooklyn	Free from	borax, sulphites and coloring matter.
26646	Wurst,	liver	Hytuelker Bros., No. 653 Fifth avenue, Brooklyn	Free from	borax, sulphites and coloring matter.
26649	Wurst,	liver	Hytuelker Bros., No. 653 Fifth avenue, Brooklyn	Free from	borax, sulphites and coloring matter.
26651	Wurst,	liver	F. H. Tietje, No. 656 Third avenue	Free from	borax, sulphites and coloring matter.
26660	Wurst,	liver	F. H. Tietje, No. 656 Third avenue	Free from	borax, sulphites and coloring matter.
26661			F. H. Tietje, No. 656 Third avenue		
26662			F. H. Tietje, No. 656 Third avenue		
26665			Julius Waehler, No. 996 First avenue		
26667			Julius Waehler, No. 996 First avenue		
26670	Section Section 1		Huhn Bres., No. 1162 Second avenue		
26687			Joseph Rank, No. 1005 Manhattan avenue, Brooklyn  Joseph Rank, No. 1005 Manhattan avenue, Brooklyn		
26691			C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.		
26692	-		C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.		
26700			C. Heidelberger's Sons, No. 856 Manhattan avenue, Brooklyn.		
26704	do training		Louis Meyer, No. 374 Flushing avenue, Brooklyn		A CONTRACTOR OF THE PROPERTY O
26710			Louis Meyer, No. 374 Flushing avenue, Brooklyn		
26712			Louis Meyer, No. 374 Flushing avenue, Brooklyn		
26714	130,000,000		D. Reubold, No. 1805 Second avenue		
26715			Eberhard Pantel, No. 1825 Second avenue		
26730			Brennzinger, No. 3022 Third avenue		
26737					
26738	Wurst,	liver	John Kohl, No. 423 East Fifteenth street	Free from	borax, sulphites and coloring matter.
26752	Wurst,	liver	P. Stenger, No. 1475 First avenue	Free from	boric, sulphurous, benzoic and salicylic acids and coloring matter.
26754			W. Holschuh, No. 1605 First avenue		
26822					boric, sulphurous, benzoic and salicylic acids and coloring matter.
					boric, sulphurous, benzoic and salicylic acids and coloring matter.
			Oscar Pochi, No. 1744 Second avenue		
26833	Wurst,	liver	Max Celscher, No. 1598 Avenue A	Free from	preservatives and coloring matter.
-	somme-i				

No.	Brand.	Sample.	From Whom Purchased.	Results,	
26835		Wurst, liver	Henry Fleck, No. 1679 Avenue A	Free from preservatives and artificial coloring matter.	
			Justin Gortke, No. 1043 Second avenue	Free from preservatives and artificial coloring matter.	
			Jas. Soukup, No. 1424 Avenue A	Free from preservatives and artificial coloring matter.	
				Free from preservatives and artificial coloring matter.	
	************			Free from preservatives and artificial coloring matter.	
-0.00-		Contract to the contract of th	F. Ferc, No. 326 East Seventy-first street	Free from preservatives and artificial coloring matter.	

No.	Brand.	Sample.	From Whom Purchased.	Results.
26923		Wurst, liver	Andrew Adamko, No. 1296 First avenue	Free from preservatives and artificial coloring matter.
26921		Wurst, liver	Frank Ferc, No. 326 East Seventy-first street	Free from preservatives and artificial coloring matter.
26924		Wurst, liver	Geo. Bauer, No. 1208 First avenue	Free from preservatives and artificial coloring matter.
26984		Wurst, liver	Mrs. Rose Boher, No. 786 Cortlandt avenue, The Bronx	Free from boric and sulphurous acids and coloring matter.
		Wurst, liver	Frank Schwintek, No. 1979 Third avenue	Sulphurous acid present.
27024		Wurst, liver	C. Ludwig, No. 1823 Third avenue	Sulphurous and boracic acids present.
27025		Wurst, liver	John Tafel, No. 1887 Third avenue	Sulphurous acid, trace present.
27026		Wurst, liver	Alfred Naef, No. 2185 Second avenue	Free from preservatives and artificial coloring matter.
27027		Wurst, liver	Fischer & Co., No. 2325 Second avenue	Sulphurous acid, trace present.
		Wurst, knack	Anton Martinek, No. 1353 First avenue	Free from preservatives and artificial coloring matter.
27095		Wurst, liver	Fischer & Co., No. 2325 Second avenue	Sulphurous acid, trace present.
27133		Wurst, liver	John Tafel, No. 1887 Third avenue	Free from preservatives and artificial coloring matter.
27134		Wurst, liver	Justin Garthe, No. 1043 Second avenue	Free from preservatives and artificial coloring matter.
27177		Wurst, liver	Chas. Koelle, No. 1569 Second avenue	Free from preservatives and artificial coloring matter.
27238		Wurst, liver	Adolph Schmidt, No. 339 East Forty-sixth street.	Free from borax, sulphites and coloring matter.
		Wurst, liver	D. Reubold, No. 1805 Second avenue	Free from preservatives and artificial coloring matter.
27417		Wurst, liver		Free from preservatives and artificial coloring matter.
27430		Wurst, liver		Free from preservatives and artificial coloring matter.
27508		Wurst, liver	Frank Schwintek, No. 1979 Third avenue	
27685		Wurst, liver		
		Wurst, liver		Free from preservatives and artificial coloring matter.
27759		- Control Control Control		Free from preservatives and artificial coloring matter.  Free from sulphurous and boric acids and coloring matter.
27919				
24095		Tongue (potted)	win, Gartelman, No. 2304 Eighth avenue	Free from benzoic, salicylic and boric acids and artificial coloring matter (coal tar colors).
25251		Bacon	A. F. Warner	Free from potassium cyanide and strychnine.
25828	Rex Brand	Ham (potted)	Leo Bohdt, No. 454 Ninth avenue	Free from borax, sulphites, salicylic and benzoic acids and beta natpthol. Free from preservatives.
25829	Libbys	Chicken (potted)	Leo Bohdt, No. 454 Ninth avenue	Free from borax, sulphites, salicylic and benzoic acids or beta naphthol. Free from preservatives.
25937		Ox tongue (potted)	John Koenig, No. 481 Ninth avenue	Free from borax,
25938		Ham (potted)	John Koenig, No. 481 Ninth avenue	Free from borax,
25967			Jacob Keiser, No. 1507 First avenue	Free from borax,
26365		Pastrama	D. Moskowitz, No. 49 Cannon street	Free from borax and sulphites.
26419		Pastrama	M. Zimmerman & Co., No. 318 East Houston street	Free from borax and sulphites.
26420		Paprica fat	M. Zimmerman & Co., No. 318 East Houston street	Free from borax and sulphites.
26427		Paprica fat	M. Kroll Sons, No. 33 Canal street	Free from preservatives and coloring matter.
26440		Pork trimmings	John Morrell & Co., No. 620 East Thirty-sixth street	Free from preservatives and coloring matter.
26637		Ham, pressed	Int. Provision Company, No. 33 Degraw street, Brooklyn	Free from borax, sulphites and coloring matter.
6803		Liver		Free from boric, sulphurous, benzoic and salicylic acids and coloring matter.
6920		Cervelat	Vincenco Sauc, No. 401 East Seventy-third street	Free from preservatives and artificial coloring matter.
7129		Ham, pressed	Swift & Co., West Harlem Market	Boracic acid present. Sulphurous acid, trace present.
7383		Tongue		Physiological test negative,
		Caviar	Ferdinand Hanson, No. 226 Greenwich street	Free from borax, boric, benzoic and salicylic acids and sulphites.

Note-Meats should follow liver pudding.

### Milks and Creams.

No.	Sample.	From Whom Received.	Results.
5668	Milk, human	Dr. Wilson	Milk sugar (by difference), 7.35 per cent.; fat, 4.30 per cent.; proteid, 1.73 per cent; ash, 0.28 per cent.
7151	Milk, human	Mr. Wolf	Fat, 1.09 per cent; total solids, 9.29 per cent.
7422	Milk, human	Dr. Robert's Office	Fat, 3.13 per cent.; total solids, 11.72 per cent.
7448	Milk, human	Dr. Robert's Office	Fat, 0.97 per cent.; total solids, 9.34 per cent.
4925	Mothermilk	Commissioner's Office	Moisture, 3.11 per cent.; ash, 6.69 per cent.; fat, 11.10 per cent.; proteid, 16.23 per cent.; milk sugar (by difference), 62.87 per cent.
4959	Milk	Dr. Bensel's Office	Free from poisonous metals, cyanides, acetic and mineral acids.
5224			
to	Milk	Bellevue Hospital	Free from formaldehyde and borax, salicylic, benzoic acids and bata naphthol.
25226			
25549	Milk	H. S. Sanden, No. 603 Bloomfield street, Hoboken	Free from alkaloids.
26671	Milk	Mrs. Hopkins, No. 3112 Webster avenue	Free from formaldehyde, borax, salicylic and benzoic acids and hydrogen peroxide.
25795	Horlick's Malted	D. E. Ushkow, No. 1870 Lexington avenue	Free from preservatives and artificial coloring matter. Fat, 1.54 per cent.
26455	Milk	Dr. Robert's Office	Free from preservatives.
7613	Milk, Korno	Gilbert Parker Company, No. 306 Greenwich street	Protein, 28.1 per cent.; sugar, 48.38 per cent (by polariscope); ash, 6.71 per cent.; fats, 11.57 per cent.; water, 6.94 per cent. Free from borax and boracic acid.
27709	Milk, White Cross	Mr. Clark	Water, 60.51 per cent.; total solids, 39.49 per cent.; fats, 10.74 per cent.; solids, not fat, 28.75 per cent.; sugar, 14.18 per cent. Proteid, 11.86 per cent.; ash, 2.39 per cent.
4818	Cream	Dr. Robert's Office	Gelatin, borax, formaldehyde and starch negative. No antiseptics. Unadulterated.
6500	Cream	Division of Inspections	Sample contains no calcium sucrate.
6501	Cream	Division of Inspections	Sample contains no calcium sucrate.
6502	Cream	Division of Inspections	Sample contains no calcium sucrate.
6503	Cream	Division of Inspections	Sample contains no calcium sucrate.
6672	Cream	Division of Inspections	Sample contains no calcium sucrate.
6673	Cream	Division of Inspections	Sample contains no calcium sucrate.
6674	Cream	Division of Inspections	Sample contains no calcium sucrate.
6675	Cream	Division of Inspections	Sample contains no calcium sucrate.
	Cream	Division of Inspections	Sample contains no calcium sucrate.
- AT 7			

No.	100	Sample.	From Whom Received.	made	Results.	1000	-		. 200
26678	Cream		Division of Inspections	Sample contains no calcium sucrate.	*		7	- 5	2,
26679	Cream		Division of Inspections	Sample contains no calcium sucrate.					
26680	Cream		Division of Inspections	Sample contains no calcium sucrate.	-	(4)			12 40
26681	Cream		Division of Inspections	Sample contains no calcium sucrate.				1 45-	

Number of milks adulterated, 2,984; unadulterated, 6,455; special, 44.

#### Non-alcoholic Beverages.

No.	Sample.	Brand.	From Whom Purchased.	Results.
27415	Cider, sweet		Whispell Bros., No. 17 Harlem Market	Salicylic acid present.
27416	Cider, sweet	***************************************	Geo. C. Kline, No. 327 East One Hundred and Twenty-second street	Benzoic acid present.
27435	Cider, sweet		A. R. Holthusen, No. 434 East Ninety-second street	Benzoic acid present.
27557	Cider, champagne	Beutel's	Wm. C. Beutel, No. 401 East Eighty-first street.	Specific gravity, 1.0324; acidity (acetic acid), 0.38 per cent.; total solids, 7.76 per cent.; ash, 0.02 per cent; alcohol, none.
27558	Cider, sweet apple		Wm. C. Beutel, No. 401 East Eighty-first street.	Specific gravity, 1.0923; acidity (acetic acid), 0.52 per cent.; total solids, 23.66 per cent.; ash, 0.27 per cent.; alcohol, none. Benzoic acid present.
27830	Cider, sweet apple	Our Own	Jacob Paley, No. 1849 First avenue	Alcohol by weight, 1,27 per cent.; alcohol by volume, 1.65 per cent.; total solids 7.52 per cent.; ash, 0.04 per cent.; acidity (calculated to acetic acid), 0.9 per cent. Free from salicylic, benzoic and boric acids, borates, sulphites and beta naphthol.
27449	Ginger ale	Belfast Crown	A. H. Schultz Company, New York	Free from artificial color (coal tar) and methyl alcohol. Ginger present.
27619	Ginger ale		Augusta Aubano, No. 33 Park street	Direct reading (polariscope), plus 3.7; indirect reading (polariscope), minus 1.1 Free from artificial color (coal tar), salicylic, benzoic and boric acids, borate and sulphites.
24065	Grape juice	Essie	J. Butler, No. 1143 Second avenue	Free from artificial color, formaldehyde, sulphites, borax or boric acid, salicylic and benzoic acids.
27275	Grape juice	Blue Bell	Fourteenth Street Store, Fourteenth street and Sixth avenue	Alcohol (ethyl), none; alcohol (methyl), none. Free from artificial color (coal tar) salicylic and benzoic acids.
24073	Lime juice		Bloomingdale Bros., Fifty-ninth street and Third avenue	Free from mineral, tartaric, borax or boric acids, benzoic and salicylic acids sulphites, formaldehyde and artificial color. Free from phosphoric, hydrochloric sulphuric, tartaric, borax or boric acids, benzoic and salicylic acids, formalde
24128	Lime juice			hyde, sulphites and artificial color. Acidity (calculated to citric acid), 9.10 per cent.
25205	Lime Juice		Bloomingdale Bros., Fifty-ninth street and Third avenue	Free from phosphoric, hydrochloric, sulphuric, tartaric, borax and boric acids benzoic acid and salicylic acid, formaldehyde, sulphites and artificial color Acidity (calculated to citric acid), 9.10 per cent.
27276	Lime juice		Fourteenth Street Store, Fourteenth street and Sixth avenue	Free from artificial color (eoal tar), mineral acid and sugar.
24985	Lemon juice		August Reibstein, No. 48 Stuyvesant street	Free from artificial color, mineral acids, tartaric, phosphoric, borax or boric acids benzoic and salicylic acids, formaldehyde and sulphites. Acidity (calculated to citric acid), 3.58 per cent.
27274	Raspberry vinegar	Blue Bell	Fourteenth Street Store, Fourteenth street and Sixth avenue	Alcohol (ethyl), none; methyl alcohol, none; acetic acid, o.80 per cent. Free fron salicylic and benzoic acids. Artificial color (coal tar) present.
24048	Lemon juice		Lennox & Reibstein, No. 188 Second avenue	Free from tartaric acid, inorganic acid, artificial color, borax or boric acid, salicylic and benzoic acids, sulphites and formaldehyde.

### Police Department.

No.	Sample.	From Whom Received.	Results.
24861	Brown substance	Second Inspection District	Morphine and meconic acids present. Analysis shows sample to be opium.
24862	Bowls and cans in package	Second Inspection District	Morphine and meconic acids present. Analysis shows sample to be opium.
24863	Bowls and cans in package	Second Inspection District	Morphine and meconic acids present. Analysis shows sample to be opium.
25104	Brown substance	Fifteenth Precinct	Reaction for meconic acid and morphine indicates opium.
25105	Brown substance	Fifteenth Precinct	Reaction for meconic acid. No reaction for morphine. Opium present.
25106	Brown substance	Fifteenth Precinct	Reaction for meconic acid and morphine indicates opium.
25243	Brown substance	Sixth Precinct	Sample is a preparation of opium, containing more than 2 grs. to the ounce.
25268	Brown substance	Sixth Precinct	Sample is a preparation of opium, containing more than 2 grs. to the ounce.
25480	Brown substance	Second Inspection District	Sample is a preparation of opium. Morphine and meconic acid present.
25481	Brown substance	Second Inspection District	Sample is a preparation of opium. Morphine and meconic acid present.
25539	Brown substance	Sixth Precinct	Sample is a preparation of opium, containing more than 2 grs. per ounce.
25741	Brown substance	Twentieth Precinct	Sample is a preparation of opium, containing more than 2 grs. per ounce.
25751	Liquid, brown	Eighth Precinct	Gives reaction for cotton root and viburnum prunifolium.
25769	Brown substance	Nineteenth Precinct	Sample is a preparation of opium, containing more than 2 grs. per ounce.
25770	Brown substance	Nineteenth Precinct	Sample is a preparation of opium, containing more than 2 grs. per ounce.
25981	Brown substance	Fourteenth Precinct	Sample contains 74.15 per cent. arsenious oxide.
26456	Brown substance	Twentieth Precinct	Sample contains more than 2 grs. of opium to the ounce.
27080	Brown substance	Sixth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
27706	Brown substance	Twentieth Precinct	Sample is a preparation of opium, containing more than 2 grs. to the ounce.
27707	Brown substance	Twentieth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
27825	Brown substance	Twentieth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
27843	Brown substance	Fifteenth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
27867	Brown substance	Twentieth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
27897	Brown substance	Twentieth Precinct	Sample is a preparation of opium. Meconic acid and morphine present,
27911	Brown substance	Twentieth Precinct	Sample is a preparation of opium. Meconic acid and morphine present.
24566	Cakes	Twenty-eighth Precinct	Free from arsenic, antimony, tin, lead, mercury, copper and zinc. Physiological test negative.
24665		Thirty-second Precinct	Free from injurious ingredients.
to	Candy (233 samples)	Thirty-second Precinct	rice from injurious ingredients.
24711		District August Office	Free from volatile alkaloids, potassium cyanide and poisonous metals.
24797	Cigar	District Attorney's Office	
24798	Cigar	District Attorney's Office	Free from volatile alkaloids, potassium cyanide and poisonous metals.
24877	Coat in package	District Attorney's Office	Coat cut by concentrated sulphuric acid.
24891	Candy	Detective Sergeant Peter McCormack	Free from poisonous metals, starch and terra alba. Physiological test negative.
25376	Candy	Twenty-ninth Precinct	Free from paraffin, poisonous metals and coloring matter.
25431	Candy	Twenty-fifth Precinct	Found per pound of candy, .5 oz. absolute alcohol by weight, .585 oz. absolute alcohol by volume. Free from wood alcohol.
27050	Dagger in envelope	Seventy-eighth Precinct	Microscopical examination failed to show presence of blood.
24889	Drawer lined with velvet	Eighty-first Precinct	Free from milk sugar.
25005	Horse ball	Health Department Squad	Contains 70.46 per cent. arsenious oxide.
25502	Horse ball	Twelfth Precinct	Contains 70.50 per cent. arsenious oxide.

quid	Bronx Detective Bureau  Forty-fourth Precinct  Fortieth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Twenty-ninth Precinct  Twenty-ninth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifty-sixth Precinct  Fifty-sixth Precinct  Sixty-second Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct	Alcohol, by weight, 8.87 per cent.; by volume, 11.08 per cent.  Free from chloral hydrate and cocaine.  Alcohol, by weight, 37.34 per cent.; by volume, 44.43 per cent.  Alcohol, by weight, 38.92 per cent.; by volume, 46.08 per cent.  Alcohol, by weight, 3.38 per cent.; by volume, 42.06 per cent.  Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
quid quid quid quid quid quid quid quid	Forty-fourth Precinct  Fortieth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Twenty-ninth Precinct  Twenty-ninth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifty-sixth Precinct  Fifty-sixth Precinct  Sixty-second Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct	Alcohol, by weight, 37.34 per cent.; by volume, 44.43 per cent.  Alcohol, by weight, 38.92 per cent.; by volume, 46.08 per cent.  Alcohol, by weight, 3.38 per cent.; by volume, 4.34 per cent.  Alcohol, by weight, 35.13 per cent.; by volume, 42.06 per cent.  Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 18.68 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Fortieth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Sixty-sixth Precinct  Twenty-ninth Precinct  Twenty-ninth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifty-sixth Precinct  Fifty-sixth Precinct  Sixty-second Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct	Alcohol, by weight, 38.92 per cent.; by volume, 46.08 per cent.  Alcohol, by weight, 3.38 per cent.; by volume, 4.34 per cent.  Alcohol, by weight, 35.13 per cent.; by volume, 42.06 per cent.  Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 18.68 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Sixty-sixth Precinct Sixty-sixth Precinct Sixty-sixth Precinct Twenty-ninth Precinct Twenty-ninth Precinct Fifty-sixth Precinct Coroner's Office, The Bronx Detective Bureau Twentieth Precinct Fifty-sixth Precinct Twelfth Precinct Twelfth Precinct District Attorney's Office District Attorney's Office State Excise Department Fifty-sixth Precinct Fifty-sixth Precinct Sixty-second Precinct Twenty-eighth Precinct	Alcohol, by weight, 3.38 per cent.; by volume, 4.34 per cent.  Alcohol, by weight, 35.13 per cent.; by volume, 42.06 per cent.  Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 18.68 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Sixty-sixth Precinct  Sixty-sixth Precinct  Twenty-ninth Precinct  Tifty-sixth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifty-sixth Precinct  Fifty-sixth Precinct  Sixty-second Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct	Alcohol, by weight, 35.13 per cent.; by volume, 42.06 per cent.  Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid	Sixty-sixth Precinct Twenty-ninth Precinct Fifty-sixth Precinct Coroner's Office, The Bronx Detective Bureau Twentieth Precinct Fifty-sixth Precinct Twelfth Precinct Twelfth Precinct Twelfth Precinct District Attorney's Office District Attorney's Office State Excise Department Fifty-sixth Precinct Fifty-sixth Precinct Sixty-second Precinct Twenty-eighth Precinct	Alcohol, by weight, 38.17 per cent.; by volume, 45.53 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Twenty-ninth Precinct Twenty-ninth Precinct Fifty-sixth Precinct Coroner's Office, The Bronx Detective Bureau Twentieth Precinct Fifty-sixth Precinct Twelfth Precinct Twelfth Precinct District Attorney's Office District Attorney's Office State Excise Department Fifty-sixth Precinct Fifty-sixth Precinct Sixty-second Precinct Twenty-eighth Precinct	Alcohol, by weight, 8.99 per cent.; by volume, 11.26 per cent.  Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Twenty-ninth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifty-sixth Precinct  Fifty-sixth Precinct  Sixty-second Precinct  Twenty-eighth Precinct  Twenty-eighth Precinct	Alcohol, by weight, 7.83 per cent.; by volume, 9.86 per cent.  Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Fifty-sixth Precinct  Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 3.97 per cent.; by volume, 5.08 per cent.  Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Fifty-sixth Precinct  Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 3.34 per cent.; by volume, 4.27 per cent.  Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
guid	Coroner's Office, The Bronx  Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Contains no volatile, vegetable or mineral poisons.  Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Detective Bureau  Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Contains chloral hydrate.  Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid	Twentieth Precinct  Fifty-sixth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Chloral hydrate present.  Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid	Fifty-sixth Precinct Twelfth Precinct  District Attorney's Office District Attorney's Office State Excise Department Fifteenth Precinct Fifty-sixth Precinct Eighty-third Precinct Sixty-second Precinct Twenty-eighth Precinct	Alcohol, by weight, 38.37 per cent.; by volume, 45.65 per cent.  Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid ,uid ,uid ,uid ,uid ,uid ,uid ,uid ,	Twelfth Precinct  Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 14.46 per cent.; by volume, 18.68 per cent.  Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	Twelfth Precinct  District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 11.24 per cent.; by volume, 14.84 per cent.  Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
uid  uid  uid  uid  uid  uid  uid  uid	District Attorney's Office  District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Free from alkaloids. It gives reactions corresponding to viburnum prunifolium.  Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
quid ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	District Attorney's Office  State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Free from alkaloids, chloral and cocaine.  Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
quid quid quid quid quid quid quid quid	State Excise Department  Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 11.23 per cent.; by volume, 14.65 per cent.  Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
quid quid quid quid quid quid quid	Fifteenth Precinct  Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	Alcohol, by weight, 7.33 per cent.; by volume, 9.21 per cent.
quidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidquidqu	Fifty-sixth Precinct  Eighty-third Precinct  Sixty-second Precinct  Twenty-eighth Precinct	
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quidquidquid	Sixty-second Precinct	
raid	Twenty-eighth Precinct	Alcohol, by weight, 2.29 per cent.; by volume, 2.93 per cent.
raid	Twenty-eighth Precinct	Alcohol, by weight, 3.83 per cent.; by volume, 5.00 per cent.
uid		Alcohol, by weight, 36.01 per cent.; by volume, 42.89 per cent.
	Eighth Inspection District, Brooklyn	Alcohol, by weight, 3.91 per cent.; by volume, 5.00 per cent.
		Alcohol, by weight, 3.80 per cent.; by volume, 4.85 per cent.
uid		Free from chloral.
uid		
uid		• 1000
uid		
uid		Alcohol, by weight, 6.92 per cent.; by volume, 8.88 per cent.
uid		
uid		Alcohol, by weight, 39.18 per cent.; by volume, 46.59 per cent.
uid	Eighty-third Precinct	Alcohol, by weight, 3.51 per cent.; by volume, 4.49 per cent.
uid	Fifteenth Precinct	Alcohol, by weight, 7.71 per cent.; by volume, 9.70 per cent.
uid	Eighty-third Precinct	Alcohol, by weight, 2.72 per cent.; by volume, 3.49 per cent.
uid	Eighty-third Precinct	Alcohol, by weight, 3.22 per cent.; by volume, 4.12 per cent.
uid	Eighty-third Precinct	Alcohol, by weight, 36.20 per cent.; by volume, 43.26 per cent.
uid	Fifteenth Precinct	Microscopical examination failed to show presence of blood.
uid	Coroner's Office	Contains 92.94 per cent. ethyl alcohol by volume.
uid	Sixty-third Precinct	Alcohol, by weight, 5.78 per cent.; by volume, 7.21 per cent.
uid	Eighty-third Precinct	Alcohol, by weight, 2.76 per cent.; by volume, 3.55 per cent.
uid and white crystals	Coroner's Office	Contains oxalic acid.
uid	Eighty-third Precinct	Alcohol, by weight, 38.01 per cent.; by volume, 45.16 per cent.
uid	Sixth Precinct	Appears to be a liniment,
aid	Fifty-third Precinct	Sample contains opium.
iid	Fifty-third Precinct	Sulphuric and sulphurous acids present.
aid	First Precinct	Sample gives reaction for phenol. Corresponds in these reactions to a sample
aid	Eighty-fifth Precinct	labeled lysol in this Laboratory. Alcohol, by weight, 2.18 per cent.; by volume, 2.79 per cent.
ıt	Health Squad, Richmond	Poisonous metals, strychnine, morphine, hydrocyanic acid and powdered glass absent.
licine (liquid)	District Attorney's Office	Sample is a solution of potassium iodide.
k	District Attorney's Office	Volatile, mineral and vegetable poisons absent.
ans, humans	Coroner's Office	Poisonous metals, vegetable alkaloids and chloral hydrate absent. Acetanilid present.
s	District Attorney's Office	Found about 3 grs. of aloes per pill. Capsicum present.
	District Attorney's Office	Found 3.86 grs. of aloes in pill.
s	District Attorney's Office	Pills contain aloes.
	Coroner's Office	Mineral poisons, vegetable alkaloids and acids absent.
s	Coroner's Office	Made up of acetanilid.
	District Attorney's Office	Examination of spots on plaster showed the presence of blood.
s		Free from poisonous metals and vegetable alkaloids.
svder		Microscopical examination failed to show presence of blood.
svderster (from wall)		
s	Thirteenth Precinct	Poisonous metals, alkaloids and chloral absent.
ster (from wall)  dwich  aping from fingernails  mach and contents		Paraldehyde, slight silver mirror. Arsenic and alkaloids absent.
s	Coroner's Office	Poisonous metals, alkaloids and powdered glass absent.
ster (from wall)	Coroner's Office	Sample contains senna leaves, sassafras bark, marshmallow fennel seeds, corinander seeds, anise seeds, lavender flowers. Does not contain alkaloids.
ster (from wall)  sdwich  aping from fingernails  mach and contents  mach and contents  mach and contents  ( (herb)	Coroner's Office	The state of the s
ster (from wall)	Coroner's Office  Health Department Squad, Richmond  Fifty-eighth Precinct  District Attorney's Office	Examination of spots on pan did not show presence of blood.
ster (from wall) dwich aping from fingernails. mach and contents. mach and contents.  (herb) pan itte crystals	Coroner's Office  Health Department Squad, Richmond  Fifty-eighth Precinct  District Attorney's Office  Detective Bureau	Examination of spots on pan did not show presence of blood.  Vial contains chloral hydrate.
ster (from wail)  dwich  aping from fingernails.  mach and contents.  mach and contents.  i (herb)  pan  ite crystals  ite crystals	Coroner's Office  Health Department Squad, Richmond.  Fifty-eighth Precinct  District Attorney's Office  Detective Bureau  District Attorney's Office	Examination of spots on pan did not show presence of blood.  Vial contains chloral hydrate.  Sample is cocaine hydrochloride.
ster (from wall) dwich aping from fingernails. mach and contents. mach and contents.  (herb) pan itte crystals	Coroner's Office  Health Department Squad, Richmond  Fifty-eighth Precinct  District Attorney's Office  Detective Bureau	Examination of spots on pan did not show presence of blood.  Vial contains chloral hydrate.
ster (from wail)  dwich  aping from fingernails.  mach and contents.  mach and contents.  i (herb)  pan  ite crystals  ite crystals	Coroner's Office  Health Department Squad, Richmond.  Fifty-eighth Precinct  District Attorney's Office  Detective Bureau  District Attorney's Office	Examination of spots on pan did not show presence of blood.  Vial contains chloral hydrate.  Sample is cocaine hydrochloride.
ster (from wall)  dwich  aping from fingernails.  mach and contents.  mach and contents.  a (herb)  pan  ite crystals  ite powder	Coroner's Office.  Health Department Squad, Richmond.  Fifty-eighth Precinct.  District Attorney's Office.  Detective Bureau.  District Attorney's Office.  Sixth Precinct.	Examination of spots on pan did not show presence of blood.  Vial contains chloral hydrate.  Sample is cocaine hydrochloride.  Weight of sample, 118.9650 gms. Sample pure arsenious oxide.
an s	er (from wall)	District Attorney's Office.  District Attorney's Office.  District Attorney's Office.  Coroner's Office.  Coroner's Office.  Coroner's Office.  Toroner's Office.  Coroner's Office.

Spices.

No.	Brand.	Sample.	Fron	1 Whom Received.	From Whom Purchased.	Results.
25382	Republic	Cinnamon	Drug	Laboratory	***************************************	Moisture, 10.10 per cent.; total ash, 4.13 per cent.; soluble ash, 1.47 per cent.; ash HC1 insoluble, 0.26 per cent.; ethereal extract, 4.49 per cent.; volatile oils, 1.68 per cent.; fixed oils, 2.81 per cent.

No.	Brand.	Sample.	From Whom Received.	From Whom Purchased.	Results.
25712		Cinnamon			Moisture, 10.74 per cent.; total ash, 2.84 per cent.; water soluble ash, 1.46 per cent.; HC1 insoluble ash, 0.10 per cent.; total ether extract, 4.42 per cent.; volatile extract, 2.40 per cent.
24919				***************************************	Moisture, 3.27 per cent.; ether extract, 19.80 per cent.; ash, 5.07 per cent.; water soluble ash, 0.02 per cent.; HC _I insoluble ash, 0.05 per cent.; microscopic ex. negative.
25381	Blue Ribbon	Mustard	Drug Laboratory		Moisture, 2.42 per cent.; total ash, 5.71 per cent.; soluble ash, 0.49 per cent.; HC1 ash insoluble, 0.49 per cent.; ethereal extract, 28.95 per cent.; volatile oils, 0.33 per cent.; fixed oils, 28.62 per cent. Turmeric absent.
24916		Pepper	Bellevue. Hospital	,	Moisture, 7.39 per cent.; ether extract, 8.12 per cent.; ash, 4.10 per cent.; water soluble ash, 2.68 per cent.; HC1 insoluble ash, 0.4 per cent.; microscopic ex, negative.
25207	,	Pepper		H. Kapnelian, No. 457 West Sixteenth street	Moisture, 5.00 per cent.; ash, 3.68 per cent.; water insoluble ash, 2.97 per cent.; HC1 insoluble ash, 1.51 per cent.; ether extract, 2.89 per cent.
25383		Pepper, black	Drug Laboratory		Moisture, 8.77 per cent.; total ash, 6.94 per cent.; soluble ash, 2.80 per cent.; HC1 insoluble ash, 1.33 per cent.; ethereal extract, 8.53 per cent.; volatile oils, 1.06 per cent.; fixed oils, 7.47 per cent.
25384		Pepper, white	Drug Laboratory		Moisture, 9.86 per cent.; total ash, 1.66 per cent.; soluble ash, 0.28 per cent.; insoluble HC1 ash, 0.29 per cent.; ethereal extract, 7.64 per cent.; volatile oils, 0.62 per cent.; fixed oils, 7.02 per cent.
25441	Rosen Paprika	Pepper, red		Emil Zerkowitz, No. 41 Park row.	Moisture; 5.01 per cent.; ash, 6.28 per cent.; ether extract, 10.00 per cent.; volatile ether extract, 1.82 per cent. Colored with coal tar dye.
25442	Rosen Paprika	Pepper, red		Emil Zerkowitz, No. 41 Park row.	Moisture, 4.45 per cent.; ash, 9.88 per cent.; ether extract, 9.25 per cent.; volatile ether extract, 1.62 per cent. Coal tar colors absent.

### Sugars and Syrups.

No.	Brand.	Sample.	From Whom Received.	From Whom Purchased.	Results.
25404		Sugar, granulated		John Klinge & Co., No. 171 East Thirty-third street	Direct reading in 100 mm, tube at 14 degrees C. equals plus 50 degrees. Invert reading in 100 mm, tube at 14 degrees C. equals minus 12.2. Free from ash. Sample unadulterated.
25039		Sugar of milk powder.	Drug Laboratory		Sample composed of pure milk sugar.
25040		*	Drug Laboratory		Sample composed of pure milk sugar.
25352			Drug Laboratory	Seeman Bros., North Moore and Hudson streets	Reading 98.87. Free from starch and ash. Sample unadulterated.
26466	Magnolia	Molasses	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Found 37 per cent. sucrose, grape sugar minus glucose, 21.6 per cent. Direct reading equals plus 54. Invert reading equals plus 7.2; ash, 3.77 per cent.
26940			Dr. Bensel		Direct reading 200 mm. tube equals plus 54; dextrose, 21.23 per cent. Invert reading 200 mm. tube equals plus 4.4; ash, 4.26 per cent.; sucrose, 37.15 per cent.
27627		Syrup, chocolate	Dr. Bensel		Free from artificial coloring matter,
27201		Syrup, ginger	,	Bloomingdale Bros., Fifty-ninth street and Third avenue	Free from artificial color (coal tar), benzoic and salicylic acids and glucose. Ginger present.
27628		Syrup, ginger	Dr. Bensel	***************************************	Sample contains artificial coloring matter, probably a coal tar dye.
24949					Direct reading 200 mm. tube equals plus 57.2. Invert reading 200 mm. tube at 19 degrees C. equals minus 21.5; ash, 0.30 per cent. Adulterated with cane sugar.
24958		Syrup, maple	Chief Clerk's Office		Direct reading 200 mm. tube equals plus 58.6. Invert reading 200 mm. tube at 17.5 degrees C. equals minus 23.9; ash, 0.59 per cent.
25019	Hudson	Syrup, maple		H. J. Robertson, No. 1333 First avenue	Direct reading 200 mm. tube at 14 degrees C. equals plus 62.4. Invert reading 200 mm. tube at 14 degrees C. equals minus 24.0; ash, 0.25 per cent. Sample contains added cane sugar.
25250		Syrup, maple	Chief Clerk's Office		Direct reading 200 mm. tube at 14 degrees C. equals plus 55.8. Invert reading 200 mm. tube at 14 degrees C. equals minus 23.7; ash, 0.59 per cent. Sample unadulterated.
25403		Syrup, maple	Chief Clerk's Office		Direct reading 200 mm. tube at 14 degrees C. equals plus 64. Invert reading 200 mm. tube at 14 degrees C. equals minus 24; ash, 0.572 per cent. Sample unadulterated.
25449	,		Chief Clerk's Office		Direct reading 200 mm. tube at 14 degrees C. equals plus 60.2. Invert reading 200 mm. tube at 14 degrees C. equals minus 23.5; ash, 0.55 per cent. Sample unadulterated.
25543			Chief Clerk's Office		Direct reading 200 mm. tube equals 58.5. Invert reading 200 mm. tube at 23 degrees C. equals minus 21.5; ash, 0.56 per cent. Sample unadulterated.
27659		Syrup, maple (pure sap)	Chief Clerk's Office	Austin, Nichols & Co	Direct reading 200 mm. tube equals plus 54.6. Indirect reading at 28 degrees C. equals minus 20; ash, 0.71 per cent. According to Hortvet's method, sample is
27724	Warfield	Syrup, maple	Chief Clerk's Office	Seeman Bros., North Moore and Hudson streets	pure maple syrup.  Direct reading equals plus 66.2. Indirect reading at 22 degrees C. equals minus 20; ash, 0.18 per cent. According to Hortvet's method, sample contains cane
27725	White Rose	Syrup, maple	Chief Clerk's Office	Seeman Bros., North Moore and Hudson streets	sugar.  Direct reading equals plus 54. Indirect reading equals minus 18.4; ash, 0.61 per
27750	Green Mountain	Syrup, maple, Vermont	Chief Clerk's Office	A. F. Beckman & Co., No. 460 Greenwich street	cent. According to Hortvet's method, sample is pure maple syrup.  Direct reading equals plus 65.6. Indirect reading equals minus 10.6; ash, 0.26 per cent. According to Hortvet's method, sample contains cane sugar.
27200		Syrup, lemon phos- phate	Chief Clerk's Office	Bloomingdale Bros., Fifty-ninth street and Third avenue	Artificial color (coal tar) and phosphates present. Free from mineral and tartaric
27272	Blue Bell	Syrup, lemon	Chief Clerk's Office	Fourteenth Street Store, Four- teenth street and Sixth avenue.	acids.  Free from artificial color (coal tar), mineral and tartaric acids.
25270		Syrup	Bellevue Hospital		Direct reading 200 mm. tube at 14 degrees C. equals plus 36. Invert reading 200
25670	Park	Syrup, Vermont	Bellevue Hospital	Greenwald Bros., Eighty-seventh street and Third avenue	mm. tube at 14 degrees C. equals minus 8; ash, 6.32 per cent.  Direct polarization 200 mm. tube at 16 degrees C. equals plus 56.8. Invert polarization 200 mm. tube at 16 degrees C. equals minus 20.7; ash, 0.054 per cent. Sample made up largely of cane sugar, as stated on label.

# Soups.

No.	Brand.	Sample,	7	From Whom Purchased.	Results.
24062	Blue Ribbon	Tomato	J. Butler, No.	1143 Second avenue	Free from benzoic and salicylic acids; borax or boric acid, formaldehyde, sulphites and artificial color.
24063	Blue Ribbon	Vermicelli	J. Butler, No.	1143 Second avenue	Free from benzoic and salicylic acids; borax or boric acid, formaldehyde, sulphites and artificial color.
27064	Campbell's	Chicken	B. Lipman, N	o. 117 Bleecker street	Free from preservatives and coloring matter.

### Tea, Coffee, Cocoa, etc.

No.		•_	From	Whom Received.	Brand.	4	Sample.	Results.
24950	Chief C	lerk's	Office			Coffee	(Standard)	Moisture, 3.52 per cent.; ash, 4.50 per cent.; ether extract, 11.30 per cent.; caffeine, 1.25 per cent.
24951	Chief C	lerk's	Office			Coffee		Moisture, 2.71 per cent.; ash, 4.40 per cent.; ether extract, 12.39 per cent.; caffeine,

No.	From Whom Received.	Brand.	Sample.	Results.
24909	Mrs. Lottie Curry, No. 242 West Sixty-first street		Coffee, liquid	Free from injurious ingredients.
				Moisture, 3.60 per cent.; ash, 5.26 per cent.; ether extract, 28.05 per cent.; W. S. A., 2.29 per cent.; HC1, I. A., 0.165 per cent. Microscopic examination negative.
4948	Chief Clerk's Office (Riverside)	Powell's	Cocoa,	Moisture, 1.17 per cent.; fats, 24.66 per cent.; alkaloids, 0.88 per cent.; T., 5.55 per cent.; W. S. A., 1.65 per cent.; W. I. A., 3.875 per cent.; HC1 I. S. 0.365 per cent. Free from added starch and foreign matter.
5011	Bellevue Hospital	Powell's I. B	Cocoa	Moisture, 1.08 per cent.; fats, 23.00 per cent.; alkaloids, 0.81 per cent.; T., 5.55 per cent.; W. S. A., 1.81 per cent.; W. I. A., 3.78 per cent.; HC1 I. S., 0.2; per cent. Free from added starch and foreign matter.
5012	Bellevue Hospital	Baker's I. A	Cocoa	Moisture, 1.36 per cent.; fats, 29.02 per cent.; alkaloids, 0.73 per cent.; T., 5.38 per cent.; W. S. A., 1.83 per cent.; W. I. A., 3.55 per cent.; HC1 I. S., 0.17 per cent.
5538	Bellevue Hospital	Powell's	Chocolate	Water, 3.65 per cent.; fat, 52.28 per cent.; crude fibre, 2.94 per cent.; theobromine o.69 per cent.; caffeine, o.10 per cent.; T., 3.12 per cent.; W. S. A., 1.37 per cent.; HCr I. S., 0.09 per cent,
7721	A. M. Powell & Co., No. 152 Chambers street	Powell's	Chocolate	Ether extract, 36.75 per cent.; iodine no., 36.60. Melting point begins, 29 degrees C.; complete, 34 degrees C. Solidifying point, 21 degrees C.; refractive index 40 degrees C., 1.4571.
78=6	Department of Health		Chocolate	Sample contains cocoa shells.

#### Vegetables, Canned, Dried, etc.

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Peas. Unity Standard. Chief Clerk's Office.  Howson & Fitzpatrick, No. 254 Greenwich street.  John S. Sills & Sons, Thirty-seventh street and Eleventh avenue.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from salicylic, benzoic, boric acids and borates and metals.  Free from	
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street and Eleventh avenue	
Peas New Carnation. Chief Clerk's Office. Allen Ditchett & Co., No. 305 Greenwich street.  The Best Chief Clerk's Office. Allen Ditchett & Co., No. 305 Greenwich street.  The Best Chief Clerk's Office. Allen Ditchett & Co., No. 305 Greenwich street.  The Best Chief Clerk's Office. Allen Ditchett & Co., No. 305 Greenwich street.  The Best Chief Clerk's Office.  The Best Chief Clerk	
The Best. Chief Clerk's Office. Allen Ditchett & Co., No. 305 Greenwich street. Free from salicylic, benzoic, boric acids and borates and metals.  Silver Lake. Chief Clerk's Office. Free from ptomaines and poisonous metals.  Analysis not made.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.	
Rhubarb. Silver Lake. Chief Clerk's Office. Free from ptomaines and poisonous metals.  Rhubarb. Silver Lake. Queens Office. G. A. & P. Tea Company, No. 198 First avenue. Free from artificial coloring matter, preservatives and heavy metals.  Spinach. Shield Queens Office. C. G. Foltmann, No. 1566 Third avenue and Eighty-seventh street. Free from artificial coloring matter, preservatives and heavy metals.  Greenwald Bros. Third avenue and Eighty-seventh street. Free from artificial coloring matter, preservatives and heavy metals.  Free from ptomaines and poisonous metals.  Analysis not made.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial coloring matter, preservatives and heavy metals.  Free from artificial colorin	
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Rhubarb Silver Lake Queens Office G. A. & P. Tea Company, No. 198 First avenue	
Spinach	
Squash Queens Office	ıls.
Eighty-seventh street	salicylic acids.
Tomatoes Fountain Queens Office Siegel Cooper Company, Eighteenth street and Sixth avenue Free from coal tar colors, benzoic and salicylic acids and heavy  Tomatoes Francesco Rossano Chief Clerk's Office. Frank Squalinty, No. 2169 First avenue Free from coal tar colors, benzoic and salicylic acids and heavy  Tomatoes Big R Chief Clerk's Office. Jas. Butler, No. 215 Willis avenue, The Bronx Free from coal tar colors, benzoic and salicylic acids and heavy  Free from coal tar colors, benzoic and salicylic acids and heavy  Free from coal tar colors, benzoic and salicylic acids and heavy	ıls.
Tomatoes Priscilla Queens Office Free from coal tar colors, benzoic and salicylic acids and heavy  Tomatoes Francesco Rossano Chief Clerk's Office Frank Squalinty, No. 2169 First avenue.  Tomatoes Big R Chief Clerk's Office Jas. Butler, No. 215 Willis avenue, The Bronx Free from coal tar colors, benzoic and salicylic acids and heavy	
Tomatoes Francesco Rossano Chief Clerk's Office Frank Squalinty, No. 2169 First avenue Free from coal tar colors, benzoic and salicylic acids and heavy  Tomatoes Big R Chief Clerk's Office Jas. Butler, No. 215 Willis avenue, The Bronx Free from coal tar colors, benzoic and salicylic acids and heavy	
Tomatoes Big R Chief Clerk's Office Jas. Butler, No. 215 Willis avenue, The Bronx Free from coal tar colors, benzoic and salicylic acids and heavy	etals.
5265 Tomatoes Pride of Talbot Chief Clerk's Office Andrew Davis, No. 481 Second avenue Free from coal tar colors, benzoic and salicylic acids and heavy	
Tomatoes Champion Chief Clerk's Office Armanoff Bros., No. 1673 Lexington	
avenue	
68cr Tomatoes Violet Chief Clerk's Office. Wm. Voorbees. Gravesend avenue.	*
near Kings Highway, Brooklyn Free from arsenic, 11n and fron present.	
7199 Tomatoes Turkey Chief Clerk's Office	
7639 Tomatoes Empress	111
7640 Tomatoes Riverside Chief Clerk's Office F. H. Legget & Co., No. 128 Franklin street Free from preservatives and artificial coloring matter.	
7641 Tomatoes Wright & Rogers Chief Clerk's Office F. H. Legget & Co., No. 128 Franklin street Free from preservatives and artificial coloring matter.	
Tomotoes Empress Chief Clerk's Office, F H Legget & Co. No. 128 Franklin	
Tomatoes Empress Chief Clerk's Office. F. H. Legget & Co., No. 128 Franklin street Free from preservatives and artificial coloring matter.	

No.	Sample.	Brand.	From Whom Received.	From Whom Purchased.	Results.
27643	Tomatoes	Premier	Chief Clerk's Office	F. H. Legget & Co., No. 128 Franklin street	Free from preservatives and artificial coloring matter.
27644	Tomatoes	Nabob	Chief Clerk's Office	F. H. Legget & Co., No. 128 Franklin street	Free from preservatives and artificial coloring matter.
27645	Tomatoes	Varick	Chief Clerk's Office	F. H. Legget & Co., No. 128 Franklin street	Free from preservatives and artificial coloring matter.
27660	Tomatoes	Republic	Chief Clerk's Office	Austin, Nichol & Co., No. 61 Hudson street	Free from preservatives and artificial coloring matter.
27661	Tomatoes	Harvest	Chief Clerk's Office	Austin, Nichol & Co., No. 61 Hudson	Free from preservatives and artificial coloring matter.
27662	Tomatoes	Hand Picked	Chief Clerk's Office	Austin, Nichol & Co., No. 61 Hudson	Free from preservatives and artificial coloring matter.
27663	Tomatoes	Sunbeam	Chief Clerk's Office	Austin, Nichol & Co., No. 61 Hudson	Free from preservatives and artificial coloring matter.
27700	Tomatoes	Our Cook's	Chief Clerk's Office	R. C. William & Co., No. 56 Hudson	
27701	Tomatoes	Robin Hood	Chief Clerk's Office	R. C. William & Co., No. 56 Hudson	Free from preservatives and artificial coloring matter.
27702	Tomatoes	Royal Scarlet	Chief Clerk's Office	R. C. William & Co., No. 56 Hudson	Free from preservatives and artificial coloring matter.
27703	Tomatoes	Trump	Chief Clerk's Office	R. C. William & Co., No. 56 Hudson	
27711				Koenig & Schuster, No. 380 Green-	Free from preservatives and artificial coloring matter.
-,,				wich street	Free from preservatives and artificial coloring matter.
27712				wich street	Free from preservatives and artificial coloring matter.
27713		CONTRACTOR OF THE PARTY OF THE			Free from preservatives and artificial coloring matter.
27714				Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27715				Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27716				Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27717	Tomatoes	Milford Haven	Chief Clerk's Office	Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27718	Tomatoes	P. & D	Chief Clerk's Office	Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27719	Tomatoes	Homer	Chief Clerk's Office	Andrew Davey, No. 350 Washington street	Free from preservatives and artificial coloring matter.
27726	Tomatoes	Waverly	Chief Clerk's Office	Seeman Bros., North Moore and Hud- son streets	Free from preservatives and artificial coloring matter.
27727	Tomatoes	Warfield	Chief Clerk's Office	Seeman Bros., North Moore and Hud- son streets	Free from preservatives and artificial coloring matter.
27728	Tomatoes	Checker	Chief Clerk's Office	Seeman Bros., North Moore and Hud- son streets	Free from preservatives and artificial coloring matter.
27730	Tomatoes	White Rose	Chief Clerk's Office	Seeman Bros., North Moore and Hud- son streets	Free from preservatives and artificial coloring matter.
27740	Tomatoes	Shrewsbury	Chief Clerk's Office	E. C. Hazard & Co., No. 119 Hudson street	Free from preservatives and artificial coloring matter.
27741	Tomatoes	Fairmount	Chief Clerk's Office	E. C. Hazard & Co., No. 119 Hudson street	Free from preservatives and artificial coloring matter.
27742	Tomatoes	Love Apples	Chief Clerk's Office	E. C. Hazard & Co., No. 119 Hudson street	Free from preservatives and artificial coloring matter.
27753	Tomatoes	Crown Astor	Chief Clerk's Office	A. F. Beckman & Co., No. 460 Green- wich street	Free from preservatives and artificial coloring matter.
27754	Tomatoes	Gold Rock	Chief Clerk's Office	A. F. Beckman & Co., No. 460 Green- wich street	Free from preservatives and artificial coloring matter.
27773	Tomatoes	White Line	Chief Clerk's Office	Edw. Rafter Company, No. 630 Hud- son street	Free from preservatives and artificial coloring matter.
27774	Tomatoes	Export	Chief Clerk's Office	Edw. Rafter Company, No. 630 Hud- son street	
27778	Tomatoes	о. к	Chief Clerk's Office	Robert Hill, No. 348 West Fifty-sec-	Free from preservatives and artificial coloring matter.
27779	Tomatoes	Alpha	Chief Clerk's Office	Robert Hill, No. 348 West Fifty-sec-	
27792	Tomatoes			ond street	Free from preservatives and artificial coloring matter.
27793	Tomatoes	Monroe	Chief Clerk's Office	Curtice Bros., No. 138 Franklin street.	Free from preservatives and artificial coloring matter.
27794 27818	Tomatoes			Curtice Bros., No. 138 Franklin street. Hewson & Fitzpatrick, No. 254 Green-	Free from preservatives and artificial coloring matter.
27819	Tomatoes	*		wich street	Free from preservatives and artificial coloring matter.
				wich street	Free from preservatives and artificial coloring matter.
				street and Eleventh avenue  John S. Sills & Co., Thirty-seventh	Free from preservatives and artificial coloring matter.
27903				street and Eleventh avenue  Clark, Chapin & Bushnell, No. 177	Free from preservatives and artificial coloring matter.
27925				Duane street	
27946	Tomatoes				Free from preservatives and artificial coloring matter.  Free from preservatives and artificial coloring matter.
27947 27949				Burton & Davis, No. 198 Franklin	Free from preservatives and artificial coloring matter.
27729	Tomatoes	Golden Rose	Chief Clerk's Office	Seeman Bros., North Moore and Hud-	
	3			son streets	rice from preservatives and artificial coloring matter,
				Waters—Cellar Water	

# Waters—Cellar Water.

Number examined		or Hall of Records Building
For Division of Inspections, Department of Health	18	Of these 19 appeared to be underground water; 19 appeared to be Croton water.

# Complete Sanitary.

No.		Result.
566 24894	Lithia water	Nine- Parts by weight per million: Calcium oxide, 153.40; barium oxide, 8.47; magnesium oxide, 4.22; ferric oxide, 1.30; alumina, 20.64; potassium oxide, 112.43; lithium oxide, 4.05; sodium chloride, 40.21; sulphates, 214.02; silica, 15.30; organic, volatile CO2, etc., 220.00.

#### Miscellaneous.

No.	Brand.	Sample.	From Whom Received or Purchased.	Results.
27307		Avisol	O. J. Weeks & Co., No. 91 Murray street	, and the second
26761				absent.
25871		-	and the second of the second o	
27667				Free from arsenic, heavy metals, mineral and organic acids and strychnine.
27551				
27560	Globe	Cigarettes, cinnamon	Globe Specialty Company, No. 131 Bowery	
27561	Star	Cigarettes, cinnamon	Globe Specialty Company, No. 131 Bowery	Free from nicotine, cocaine and morphine.
27655	Sauls	Cigarettes, cinnamon		and the same and morphisms.
27147				Alcohol (by weight), 0.16 per cent.; alcohol (by volume), 0.20 per cent.; methyl alcohol, none; acetic acid, 0.83 per cent.
24720			*Division of Inspections  *Division of Inspections	
27576			*Assistant Sanitary Superintendent, Borough of Richmond	
27616		Egg, Korno	Gilbert Parker Company, No. 306 Greenwich street	copper.
27617	Korno	Egg, substitute	Gilbert Parker Company, No. 306 Greenwich street	ing matter (coal far dye) and horay and horacic acid
24533			*Division of Inspections	impaliable powder
24534			*Division of Inspections	The odor of this sample is not due to gases given off. It is probably due to the impalpable powder.
26023			A. Lester Heyer, No. 318 East Thirty-ninth street  M. Zimmerman & Co., No. 318 East Houston street	
26421			C. M. Webster, No. 39 Pearl street.	Sample is made up of starch. Borax and sulphites absent.  Sample composed of flour (used as a filler).
27614			Gilbert Parker Company, No. 306 Greenwich street	Starch present. Mineral matter (as a filler), none.
27838			Henry Heide, Hudson and Vandam streets	Contains 0.143 per cent, sulphurous anhydride.
27839		Gelatin	Henry Heide, Hudson and Vandam streets	Contains 0.131 per cent. sulphurous anhydride.
27840			Henry Heide, Hudson and Vandam streets	Contains 0.184 per cent, sulphurous anhydride.
27178			*Commissioner's Office	Ash, o.11 per cent.
26767		ALBERT TORONTO INCIDENCE OF THE POST OF TH		Carbonate and chlorides present.
25363 25463		** ** ***	Moritz R. Arcelli, No. 525 Sixth street	Free from wood alcohol.
24924		***************************************		Moisture, 3.36 per cent : ash, 5.34 per cent : fat, 6.26 per cent : proteid 12.32 per
25654		Milk powder, "Wimmers"	*Commissioner's Office	cent.; milk sugar (by difference), 71.63 per cent. Moisture, 20.13 per cent.; ash, 7.96 per cent.; fat, 14.35 per cent.; proteid, 20.11 per
27083		Milk powder, "Trumilk"	*Commissioner's Office	Moisture, 20.13 per cent.; ash, 7.96 per cent.; fat, 14.35 per cent.; proteid, 20.11 per cent.; milk sugar (by difference), 37.45 per cent.  Moisture, 2.54 per cent.; ash, 6.23 per cent.; fat, 24.91 per cent.; proteid, 27.04 per cent.; milk sugar (by difference), 39.28 per cent.  Moisture, 2.10 per cent.; ash, 5.70 per cent.; fat, 29.60 per cent.; proteid, 25.06 per cent.; milk sugar (by difference), 37.54 per cent.  Moisture, 2.46 per cent.; ash, 8.18 per cent.; fat, 1.22 per cent.; proteid, 33.47 per
27116		Milk powder, "Trumilk"	*Commissioner's Office (by request)	Moisture. 2,10 per cent.; ash, 5,70 per cent.; fat, 29,60 per cent.; proteid, 25,06 per
27117	*********			cent : milk sugar (by difference) to 67 per cent
27118		Milk powder, "Trumilk"		cont. mill per cent., asi, c.oo per cent., rat, 20.32 per cent.; proteid, 25.70 per
25793 26731			*Dr. Wilson	Sample is a mixture of magnesium oxide and kerosene oil.
25868			Samuel Schwartz, No. 187 Norfolk street	***
25869		Nuts, Turkish	Samuel Schwartz, No. 187 Norfolk street	Sample unadulterated.
25870			Samuel Schwartz, No. 187 Norfolk street	
27237			*Mr. Naughton	
27737				Moisture, 5.75 per cent.; ash, 8.51 per cent.; ether extract, 14.10 per cent.; volatile ether extract, 2.25 per cent.
27410			Leo Benjamin, No. 1743 Avenue A.	Sample is paraffin. Melting point, 47 degrees C.  Calcium carbonate, cane sugar and artificial coloring matter present. Preservatives
27433				absent.  Calcium carbonate, cane sugar and artificial coloring matter present. Preservatives
27434		Paste, cremolin banana		absent.  Calcium carbonate, cane sugar and artificial coloring matter present. Preservatives
27618		Paste, Eureka	American Paste Company, No. 1402 Broadway	absent.  Fats present in small quantity. Reducing sugar present. Starch present in small quantity. Gums soluble in absolute alcohol absent.
27518		Candy polisher	Henry Heide, No. 84 Vandam street	
24859		24	*Dr. Robert's Office	Arsenic, antimony, tin, lead none. Alkaloids none.
26682		Poultry wash	Selner Brothers, No. 1989 Third avenue	Free from boric acid, borax, formaldehyde, benzoic and salicylic acids.
26683				Free from boric acid, borax, formaldehyde, benzoic and salicylic acids.
26684				Free from boric acid, borax, formaldehyde, benzoic and salicylic acids.
27615	Korno	Shortening compound	Gilbert Parker Company, No. 306 Greenwich street	Iodine No. 97.3; melting point, 41 degrees; 45 degrees solidifying point, 43 degrees; 30 degrees maumene, No. 46 degrees; refractive index, 1.453 at 69 degrees.
26191	********			Gives Halphen's reaction for cottonseed oil.  Sample consists of the chlorides and nitrates of sodium and potassium.
27511				Free from alkaloids, cocaine, salicylic and benzoic acids, borax or boric acid.
27513			Henry Heide, No. 84 Vandam street	Contains wood alcohol.  Contains wood alcohol.
27437	Exhibit A.			Sp. gr., 1.4181 at 155 degrees C.; total solids, 72.60 per cent.; ash, 7.67 per cent.;
			*United States Treasury Department	ash soluble in water, practically all; protein, 1.714 per cent.; sugar, 21.8 per cent. Ether extract yields no recognizable substance by taste or odor. Protein by 6.25 x Kjehldal N.  Sp. gr., 1.2635 at 155 degrees C.: total solids, 36.74 per cent.; ash, 25.02 per cent.
			*United States Treasury Department	ash soluble in water, practically all; protein, 3.73 per cent; sugar none. Ether extract yields no recognizable substance by taste or odor. Protein by 6.25 x Kjehldal N.
27621			*United States Treasury Department	ash soluble in water, practically all; protein, 1.401 per cent.; sugar, 22.8 per cent. Ether extract yields no recognizable substance by taste or odor. Protein by 6.25 x Kjehldal N.  Sp. gr., 1.2669 at 155 degrees C.; total solids, 37.12 per cent.; ash, 22.23 per cent.;
27622		Soy, thick	*Detective Bureau	ash soluble in water, practically all; protein, 3.83 per cent; sugar, none. Ether extract yields no recognizable substance by taste or odor. Protein by 6.25 x Kfehldal N.  Sp. gr. 1.4202 at 155 degrees C.; total solids, 72.97 per cent.; ash, 8.91 per cent.;
27623			*Detective Bureau	ash soluble in water, practically all; protein, 0.77 per cent.; sugar, 22.5 per cent. Ether extract yields no recognizable substance by taste or odor. Protein by 6.25 x Kjehldal N.  Sp. gr., 1.2763 at 155 degrees C.; total solids, 40.25 per cent.; ash, 24.04 per cent.;
			*Commissioner's Office	ash soluble in water, practically all; protein, 8.46 per cent.; sugar, none. Ether extract gives no recognizable substance by taste or odor. Protein by 6.25 x Kjehldal N.  Odor of sample resembles naphtha. Sample begins to distil at 35 degrees C. The
100				distillate does not flash when warmed and a match is applied. Sample contains light naphtha in traces.
7047		Sewage B	*Commissioner's Office	Odor of sample resembles naphtha. Sample begins to distil at 38 degrees C. The distillate does not flash when warmed and a match is applied. Sample contains
7648	•••••	Sewage D	*Commissioner's Office	a trace of light naphtha.  Odor of sample (very faintly) resembles naphtha. Sample begins to distill at 48 degrees C. The distillate does not flash when warmed and a match is applied.
7649		Sewage E	*Commissioner's Office	Sample contains trace of very light naphtha.  Odor of sample resembles naphtha. The sample begins to distil at 42 degrees C.  Distillate does not flash when warmed and a match is applied. Sample contains
7650		Sewage F	*Commissioner's Office	a trace of light naphtha. Odor of sample resembles naphtha. Sample begins to distil at 55 degrees C. Distillate does not flash when warmed and match is applied. Sample contains a
6764		Saltze (Konservirung), D	C. M. Webster, No. 37 Pearl street	trace of light nanhtha
	rom whom re			

No.	Brand. Sample. From Whom Received or Purchased.		From Whom Received or Purchased.	Results.				
26765		Saltze (Konservirung), red	C. M. Webster, No. 37 Pearl street	Nitrates, chlorides and sulphates present.				
				Sp. gr. at 60 degrees F. (pyknometer), 1.0277 corresponding. Corresponding reading B. of H. lactometer, 95.5. Standard lactometer at 59 degrees F., 96.0.				
28003		Salt solution		Sp. gr. at 60 degrees F. (by pyknometer), 1.0307. Corresponding reading B. of H. lactometer, 106. Standard lactometer at 59 degrees F., 106.5.				
28004		Salt solution		Sp. gr. at 60 degrees F. (by pyknometer), 1.0341. Corresponding reading B. of H lactometer, 118. Standard lactometer at 59 degrees F., 117.				
25269	***************************************	Turpentine	*Department of Corrections	Sp. gr., 0.0862; pale yellow color; 75 per cent. distills between 308 degrees F, and 330 degrees F.; 25 per cent. distills above 330 degrees F.				
24513		Soda, washing	Gustav Peterson, No. 247 West Sixtieth street	Sample contains carbon dioxide, 51:98 per cent. Calculated, 52:38 per cent.				
24878	,	Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 87.50 per cent. Chlorides present.				
4905	*********	Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 87.50 per cent. Chlorides present.				
24906	********	Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 81.50 per cent. Chlorides present.				
24907	**********	Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 83.50 per cent. Chlorides present.				
4908		Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 85.00 per cent. Chlorides present.				
5010		Soda, washing	*Bellevue Hospital	Alkali (calculated as carbonate), 88.50 per cent. Chlorides present.				
6768		Soda, washing, Ozo	C. H. Webster, No. 37 Pearl street	Sample composed of soap containing large amount of alkaline carbonates.				
27152	*********	White lead, Atlantic	*Kingston Avenue Hospital	Sample free from adulteration.				
7153		White lead, Harrison	*Kingston Avenue Hospital	Sample too small in quantity to make proper determinations.				
7408	********	White lead, Harrison	*Kingston Avenue Hospital	Sample free from adulterations.				
24808		Urine	*Drug Laboratory	Free from sugar and albumen.				
24893		Urine	*Dr. Shields	Sp. gr., 1.022. Free from sugar and albumen.				
5013		Urine	*Dr. Robert's Office	Free from sugar and albumen.				
25249		Urine	*Assistant Sanitary Superintendent, The Bronx	Free from sugar and albumen.				
5645		Urine	*Dr. Guilfoy	Free from sugar and albumen.				
6360		Urine	*Dr. Shield	Sp. gr., r.017. Free from sugar and albumen.				
7305		Glucose	F. G. Brewster & Co., No. 306 East Sixty-first street	Free from sulphuric acid and bi-sulphite of soda.				
27451	*********	Glucose and sugar mixture	Advance Novelty Company, No. 629 East Sixteenth street	Contains sulphuric and sulphurous acids.				
25389		Celery	Eliz. McCabe, No. 240 East Nineteenth street	Sample coated with several patches of greenish color. Tests for arsenic and copper gave negative results.				

* From whom received.	
Number of Babcock flasks tested	142 21; 140

The following is a report of the Bureau of Records for the year 1906:

#### Population.

The population of the Greater City, as furnished by the State census of the year 1905, was 4,014,304 persons, and the estimated population for the middle of the year 1906 was 4,152,860; the estimates by boroughs, made upon the assumption that the rate of increase which prevailed between the Federal census of 1900 and the State census of 1905 still maintains in each borough, gave the following figures:

The Bronx Brooklyn	· · · · · · · · · · · · · · · · · · ·	290,097 1,404,569
Richmond		74,173
	Greater City	4.152.860

### General Statistics-Births.

There were 111,722 births reported during the year, as against 103,881 reported in 1905, an increase of 7,891, distributed among the boroughs as follows: 647 3,566 695 181 Brooklyn ..... Queens Richmond ....

The following table gives the number of births and birth rates in the boroughs and City since 1898 to 1906:

Births Reported and Birth Rates by Boroughs and City, 1898 to 1906.

		1898.		1899		1900.	
	Borough.	Number of Births.	Rate.	Number of Births.	Rate.	Number of Births.	Rate.
Manhattan		49,835	27.54	48,397	26.44	50,494	27.23
The Bronx		3,524	21.07	3,671	19.96	4,122	20.45
Brooklyn		21,395	15.54	21,203	18.73	22,572	19.34
Queens		2,826	20.62	2,943	20.27	3,084	20.07
Richmond .		1,348	21.14	1,418	21.67	1,449	21.59
City of Nev	v York	78,928	24,12	77,632	23.13	81,721	23.71

	1901.	1901.		1902.		1903.	
Borough.	Number of Births.	Rate.	Number of Births.	Rate.	Number of Births.	Rate.	
Manhattan	. 49,990	26.25	52,291	26.74	56,078	27.93	
The Bronx	4,023	18.79	5,220	22.94	6,053	25.03	
Brooklyn	. 22,182	18.40	23,507	18.91	27,292	21.29	
Queens	3,127	19.32	3,198	18.76	3,802	21.18	
Richmond	1,413	20.71	1,428	20.58	1,530	21.68	
City of New York	80,735	22.72	85,644	23.36	94,755	25.06	

	1904.		1905		1906.	
Borough.	Number of Births.	Rate.	Number of Births.	Rate.	Number of Births.	Rate.
Manhattan	59,196	28.71	60,202	28.43	63,005	29.11
The Bronx	6,033	23.48	6,659	24.39	7,306	25.18
Brooklyn	28,859	21.89	30,972	22.73	34,538	24.59
Queens	3,871	20.48	4,355	21.87	5,050	24.08
Richmond	1,596	22.25	1,692	23.19	1,873	25.25
City of New York	99,555	25.52	103,880	25.81	111,772	26.91

The above table shows that there has been a considerable increase in the percentage of reported births compared with the year 1898, when the Charter of the Greater City went into effect. This increase is due to several causes; first, the high marriage rate for the preceding two or three years has been followed by an actual increase in the number of births occurring in the City and consequent increase in the number of births reported; second, the necessity of producing a certificate of birth in order to obtain admission into the public schools in certain densely populated sections of the City has indirectly acted as a stimulus upon the parents who have been referred to the physicians and midwives to obtain certificates of birth from them in births occurring in previous years, of which no record was filed at the time of birth; third, the constant endeavors of the Registrar and his assistants to compel compliance with the law. with the law.

#### Marriages.

The marriages reported during the year number 48,355 against 42,675 in 1905, an increase of 5,680, distributed among the boroughs as follows:

Manhattan	3,93
The Bronx	207
Brooklyn	1,182
Queens	328
Richmond	27

The marriage rate was 11.64 marriages, or 23.28 persons married per 1,000 of the population, an extremely high rate; the rate in the Borough of Manhattan reached the high-water mark of 29.74 persons married per 1,000 of the population. The great factor in the production of such a high rate has undoubtedly been the prosperous condition of the City during the past year.

The following table gives the number of marriages reported, and rates per 1,000, in the boroughs and City since 1898:

Marriages Reported and Marriage Rates by Boroughs and City, 1898 to 1906.

	1898.		1899.		1900.	
Borough.	Number of Marriages.	Rate.	Number of Marriages.	Rate.	Number of Marriages.	Rate
Manhattan	20,118	11.12	20,836	11.36	21,979	11.85
The Bronx	651	3.89	904	4.92	948	4.69
Brooklyn	7,129	6.51	7,612	8.48	8,214	7.04
Queens	636	4.64	710	4.89	768	5.00
Richmond	351	5.50	412	6.30	428	6.38
City of New York	28,885	8.83	474	9.07	32,247	9.36

	1901.		1902.		1903.		
Borough.	Number of Marriages.	Rate.	Number of Marriages.	Rate.	Number of Marriages.	Rate.	
Manhattan	22,895	12.02	24,766	12.67	25,911	12.90	
The Bronx	1,067	4.80	1,227	5.03	1,354	4.76	
Brooklyn	8,303	6.89	9,014	7.25	9,616	7.50	
Queens	777	4.80	768	4.51	855	4.76	
Richmond	405	5.93	432	6.23	438	6.21	
City of New York	33,447	9.41	36,207	9.88	38,174	10.10	

		1904.		1905.		1906.		
Во	rough.	Number of Marriages.	Rate.	Number of Marriages.	Rate.	Number of Marriages.	Rate.	
Manhattan		26,500	12.85	28,408	13.42	32,342	14.87	
The Bronx		1,465	4.97	1,820	6.67	2,027	6.99	
Brooklyn		10,019	7.61	10,778	7.91	11,966	8.51	
Queens		921	4.87	1,092	5.48	1,420	6.77	
Richmond		531	7.40	573	7.86	600	8.09	
City of New York.		39,436	10.11	. 42,671	10.60	48,355	11.64	

### Still Births.

There were 6,646 still births reported during the year, with a rate of 1.60 per 1,000 of the population, against 6,352 and a rate of 1.58 in the previous year.

#### Deaths.

There were 76,203 deaths reported during the year against 73,714 reported in 1905, an increase of 2,489; the rate for 1906 was 18.35 per 1,000 of the population; that for 1905 was 18.32, an increase of .03 of a point; the quinquennial average for the preceding five years was 18.94, the rate for 1906 being lower by .59 of a point. The following table gives the death rates by boroughs and City since 1898, the year of the creation of the Greater City; the rate for 1906 compares favorably with those of the preceding years, being the third lowest:

Borough.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.
Manhattan	20.23	19.77	20.97	20.22	18.80	18.43	20.53	18.74	18.32
The Bronx	22.42	20.23	21.58	22.40	21.69	19.70	24.98	20.25	21.64
Brooklyn	19.77	19.13	20.15	19.30	17.97	17.27	18.83	17.57	17.82
Queens	18.69	17.29	17.96	17.30	16.32	14.90	16.04	16.03	17.09
Richmond	20.48	19.45	20.53	19.71	18.48	17.29	20.25	19.04	20.06
City of New York	20.26	19.47	20.57	19.90	18.58	17.95	20101	18.32	18.35

In the following table the deaths of residents of each borough, which have occurred in a borough other than the one of which they were residents at time of death, have been distributed among the boroughs according to residence, thus producing a corrected interborough mortality; for instance, in Manhattan Borough there occurred 877 deaths of residents of other boroughs, and 1,790 deaths of residents of Manhattan were reported from the other boroughs, thus adding 913 deaths to Manhattan's total for the year.

#### Corrected Interborough Mortality.

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	Total.
Manhattan		342	425	79	31	877
The Bronx	1,463		11	2	1	1,477
Brooklyn	104	4		56	9	173
Queens	77	11	111		1	200
Richmond	149	4	32	1		186
Total	1,793	361	579	138	42	2,913
	877	1,477	173	200	186	2,913
	016	1,116	406	62	144	

Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond
39,831	6,277	25,024	3,583	1,488
40,747	5,161	25,430	3,521	1,344
	39,831	39,831 6,277	39,831 6,277 25,024	39,831 6,277 25,024 3,583

The following table gives the death rates of the former City of New York (present Boroughs of Manhattan and The Bronx) and the former City of Brooklyn (present Borough of Brooklyn) from 1866 to date. Attention is drawn to the striking differences between the death rates of the earlier years and those of the later in both cities; if we compare the death rate of the old City of New York, in 1866, when the Board of Health was first organized, with those of the past year, the remarkable decrease of over 46.70 will be found; the rate of the City of Brooklyn for 1866, compared with that of the present Borough of Brooklyn, shows a decrease of 35 per cent.

# General Death Rate Per 1,000, Old City of New York, 1866-1906.

Year.	Death Rate.	Year.	Death Rate.	Year.	Death Rate.	
1866	34.92	1880	26.41	1894	22.76	
1867	28.65	1881	31.04	1895	23.18	
1868	29.25	1882	29.61	1896	24.81	
1869	28.09	1883	25.80	1897	20.03	
1870	28.81	1884	25.82	1898	20.46	
1871	28.22	1885	25.55	1899	19.81	
1872	33.70	1886	25.99	1900	21.03	
1873	29.63	1887	26.32	1901	20.45	
1874	27.87	1888	26.39	1902	19.11	
1875	29.40	1889	25.32	1903	18.57	
1876	27.11	1890	24.87	1904	21.02	
1877	23.66	1891	26.31	1905	18.91	
1878	23.68	1892	25.95	1906	18.71	
1879	24.13	1893	25.30			

# General Death Rate Per 1,000, City and Borough of Brooklyn, 1866-1906.

Year.	Death Rate.	Year.	Death Rate.	Year.	Death Rate.	
1866	27.51	1880	23.27	1894	21.95	
1867	25.09	1881	24.79	1895	22.67	
1868	24.69	1882	24.81	1896	21.79	
869	23.32	1883	22.03	1897	19.40	
870	24.02	1884	21.90	1898	20.01	
871	24.82	1885	23.10	1899	19.10	
872	24.76	1886	22.70	1900	20.10	
873	24.52	1887	23.33	1901	19.30	
874	23.66	1888	21.23	1902	17.97	
875	25.78	1889	23.63	1903	17.27	
876	24.69	1890	24.53	1904	18.83	
877	22.02	1891	25.62	1905	17.57	
878	20.79	1892	24.23	1906	17.82	
1879	21.03	1893	23.74		130	

The following table shows the number of deaths from the principal causes in the entire City during the year, and compares its mortality with that of 1905, indicating the increases and decreases:

Cause of Death.	1905.	1906.	Increase in 1906.	Decrease in 1906.
Typhoid fever	649	639		10
Malarial fevers	53	64	11	
Small-pox	9	6		3
Measles	520	1,145	625	
Scarlet fever	473	491	18	
Whooping cough	408	367		41
Diphtheria and croup	1.544	1,898	354	
Influenza	311	241		70
Dysentery	149	142	****	7
Pulmonary tuberculosis	8,535	8,995	420	
Other tuberculous diseases	1,123	1,239	116	
Cancer, sarcoma	2,875	3,005	130	
Diabetes	589	652	63	
Alcoholism	596	636	40	****
Diseases of the nervous system	7,501	6,046		1,455
Diseases of the circulatory system	6,437	6,951	514	
Bronchitis, acute	1,417	1,319		98
Pneumonia (lobular and bronchial)	9,783	10,868	1,085	
Diarrhoeal diseases (under two years)	5,877	5,784		93
Diarrhoeal diseases (two years and over)	754	721		33
Other diseases of the digestive system	3,109	3,158	49	
Bright's disease, acute nephritis	5,944	6,108	164	
Puerperal diseases	815	763		52
Congenital debility and malformation	4,019	4,366	317	
Old age	723	890	167	
Homicide	165	253	88	
Suicide	660	707	47	
Accident	3,651	3,781	130	
Ill defined causes	1,092	969		123
All other causes	3,933	4,069	136	
Total	73,714	76,203	4,474	1,985
Balance	. 2,489			2,489

#### Typhoid Fever.

There were ten less deaths reported from this disease than in the previous year; the boroughs showing increases were Manhattan (52) and The Bronx (7), and decreases, Brooklyn (67), Queens (1) and Richmond (1).

The death rate per 100,000 of the population was 15.4 for the past year, against 16.12 for 1905, a decrease of 1.08 point per 100,000. In the old City of New York the number of deaths in 1906 was 369, showing a mortality of over 18 per cent. in 2,014 cases reported against 310 deaths with a mortality of 14 per cent. in 2,194 cases in 1905; in the Borough of Brooklyn 230 deaths were reported and 1,215 cases, showing a case mortality of 19 per cent., against 297 deaths and 2,884 cases, with a mortality of 10 per cent. in 1905, so that apparently the disease exhibited a considerable increase in virulence during 1006. in virulence during 1906.

The following tables show the number of deaths and rates per 10,000 in the old City of New York and City and Borough of Brooklyn for a period of 32 years:

Deaths and Death Rates from Typhoid Fever, Old City of New York and City and Borough of Brooklyn, Per 10,000, 1874 to 1906.

		Old City	of New	York.		Brookly	n.
Year.		Deaths.	Death Rates.	Decennial Rates.	Deaths.	Death Rates.	Decennia Rates
1874		305	2.96		81	1.74	
1875		376	3.60		102	2.11	
1876		325	3.02		97	1.94	***
1877		343	3.10	****	82	1.59	
1878		321	2.81	3.44	59	1.11	1.5
1879		268	2.28		59	1.07	
1880		372	3.08		71	1.25	
1881		594	4.77		- 99	1.69	
1882		516	4.03		93	1.54	
1883		625	4.74	****	92	1.47	
1884		476	3.51		107	1.66	
1885		405	2.90		153	2.30	
1886		433	3.01		123	1.77	
1887		421	2.85		143	1.95	
1888		364	2.39	2.62	153	2.02	2.0
1889		397	2.53		161	2.06	
1890		352	2.18		182	2.25	***
1891		384	2.31		180	2.16	
1892		400	2.34		162	1.89	
1893		381	2.17		179	2.02	
1894		326	1.80		159	1.65	1
1895		322	1.72		173	1.74	
1896		297	1.56		163	1.58	
1897		299	1.54		173	1.62	
1898		376	1.90	1.72	270	2.46	
1899		294	1:46		205	1.81	2.1.
1900		372	1.81		301	2.57	
1901		412	1.95		272	2.25	
1901		399	1.83		322	2.59	
1902	***************************************	350	1.56		267	2.08	
		309	1.33		303	2.29	
1904		310	1.30		297	2.18	
1905	***************************************	723	2000		0.1077	1.64	
1906		369	1.50	****	230	1.04	PAR

# Malarial Fevers.

The number of deaths reported from malarial fevers was 64, an increase of eleven over the previous year; this increase was due in a measure to an increased number of typical malarial cases brought into the City from the South and Southwest, all deaths

reported from this disease having been investigated by the Inspectors attached to the Division of Communicable Diseases.

#### Small Pox.

Six (6) deaths were reported during the year, a decrease of three (3) compared with last year. Measles.

1906 was undoubtedly a measles year; in the Greater City almost 40,000 cases were reported, with 1,145 deaths, against 20,000 cases with 520 deaths; the increase was distributed equally among the boroughs, and, as usual, was accompanied by the corresponding increase in the deaths from broncho pneumonia. The effect of an epidemic of measles on the mortality from broncho pneumonia—two diseases confined chiefly the deaths of the property of the to childhood—is evident upon a glance at the following table, which gives the deaths from these two diseases by months for the years 1905 and 1906 in the Greater City:

		s from asles.		s from Pneumonia
Month.	1905.	1906.	1905.	1906.
January	32	116	507	536
February	25	162	412	534
March	49	228	474	648
April	52	212	473	605
May	66	165	389	506
June	92	103	303	326
July	63	67	255	228
August	33	25	221	228
September	15	13	177	287
October	13	11	243	332
November	40	16	294	390
December	40.	27	378	480
Total	520	1,145	4,126	5,101

The decennial death rate per 10,000 of the population in the old City of New York in 1875-1884 was 3.64, in 1885-1894 it rose to 4.10 and fell in 1895-1904 to 2.40; in 1905 the rate was 1.31 and in 1906 2.69, more than double that of the previous year, and the highest death rate from this disease since 1896.

#### Diphtheria and Croup.

Eighteen hundred and ninety-eight deaths were reported from this disease in 1906 with a rate per 100,000 of 45.7 against 1,544 deaths and a rate of 38.4. This increase in all probability is due to the neglect of the use of diphtheria antitoxin during the first day or two of the disease. In the Borough of Manhattan the rate was 33.6, in The Bronx 86.9, in Brooklyn 56.5, in Queens 44.8, and in Richmond 37.7; the case fatality in Manhattan was 9.8 per cent., in The Bronx 20.1 per cent., in Brooklyn 15.2 per cent., in Queens 15 per cent. and in Richmond 12.5 per cent. There is hardly any doubt but that antitoxin is used earlier and oftener by the ohysicians practicing in Manhattan as compared with those of other boroughs, and these figures in themselves constitute an object lesson that should be impressed upon the minds of the practitioners of medicine in the City.

## Pulmonary Tuberculosis.

Eighty-nine hundred and fifty-five deaths were reported, giving a death rate of 2.16 per 1,000, against 8,335 deaths and a rate of 2.12 for 1905; in the old City of New York the rate for 1906 was 2.39 per 1,000, against 2.38 in 1905 and 1904, so that apparages of 1905.

ently the decrease in the rate which has been noted for many years has come to a standstill, and it impresses upon us the necessity of enlarging the present municipal sanatorium at Otisville and instituting additional ones.

#### Cancer and Sarcoma.

The deaths from these diseases numbered 3,005 in 1906 against 2,875 in 1905, the rate per 1,000,000 being respectively 724 and 714; the tendency towards continued increase in the rate is here shown, and reference may be had to the annual reports of 1903 and 1904 for confirmation of the actual as well as apparent increase of cancer most little 1904. mortality.

#### Diseases of the Nervous System.

There were 6,046 deaths reported under this general heading against 7,501 in 1905, a decrease of 1,455 deaths, 1,213 of these 1,455 being due to the decrease in the mortality from cerebro-spinal meningitis, which, in 1904, appeared in the form of a severe epidemic and continued with increased virulence until July, 1905.

#### Circulatory and Urinary Diseases.

The deaths from diseases of these two divisions are considered together in this commentary, as both are often named conjointly upon the certificates of death, difficulty often arising as to which should be given the preference, and as both have

culty often arising as to which should be given the preference, and as both have corelative anatomical and physiological functions.

In 1906 there were 6,951 deaths reported from diseases of the circulatory system and 6,108 from organic disease of the kidneys, a total of 13,059 deaths against a total of 12,381 deaths in 1905, an increase of 678; the rates per 10,000 of the population were 31.4 in 1906 and 30.8 in 1905. The tendency of the death rate from these two combined causes has been gradually upward since the organization of the Board in 1866; the death rate in the decennium 1869-1878 was 17.13 per 10,000, that of 1879-1888, 20.47 and that of 1889-1898, 24.23; the rate in 1906 was 27.34, which, if compared with the rate of the first decennium mentioned shows an increase of 10.21 points, an increase of 59.6 per cent.; one of the fruitful causes of this tremendous increase is the presence among us since 1889 of influenza, with its direful effects upon all invalids suffering from organic diseases; additional causes are dependent upon the conditions of high pressure under which we have been and are at present living; the rapid wear and tear of feverishly active commercial life and the consequent recourse to over-indulgence in strong drinks and food are undoubtedly prominent factors. gence in strong drinks and food are undoubtedly prominent factors.

#### Diseases of the Respiratory Organs.

There were 13,361 deaths from all respiratory diseases reported during the year against 12,371 in 1905, an increase of 990; most of this increase was due to the greater mortality from broncho pneumonia, which equalled 975 deaths more than in 1905; the mortality from lobar pneumonia was higher by 110 deaths; the reason for the great increase in the deaths among children from broncho pneumonia was the exceedingly severe epidemic of measles which prevailed during the first six months of 1906; this phase was treated upon previously under the heading of "measles."

#### Diarrhoeal Diseases.

There were 6,505 deaths reported from this class of diseases against 6,631 in 1905, a decrease of 126 deaths; the rate per 1,000 was 1.57 in 1906 and 1.65 in 1905, a dcrease of .08 of a point. Though small this reduction of .08 of a point is due entirely to the efforts put forth by the Department of Health to educate mothers or others who have charge of the feeding and care of infants, such education being accomplished by cards printed in English and many of the foreign languages of those who have made the City their abode, and also by sending visiting nurses to give instruction in the proper means of feeding and caring for the infants in their charge.

#### Violent Deaths.

Four thousand seven hundred and forty-one deaths were reported under this heading, against 4,476 during 1905; this increase of 265 was distributed as follows: Homicides 88, suicides 47 and accidents 130.

# Searches and Transcripts.

During 1906 90,964 searches were made and 39,085 transcripts issued of the records of births, deaths and marriages; the searches increased 2,569 and the transcripts

### REPORT OF BUREAU OF RECORDS.

For Year Ending December 31, 1906.

	•	Boro	ugh of—			cu.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	City of New York.
Number of deaths	39,831	6,277	25,024	3,583	1,488	76,203
Death rates	18.32	21.64	17.81	17.09	20.06	18.35
*Corrected death rates	18.74	17.79	18.11	16.79	18.12	ç

^{*}These corrected rates are the result of distributing among the boroughs the deaths of residents of each borough which have occurred in a borough other than the one of which they were residents at the time of death.

	The Charles of	Certificates Received and Tabulated.			Rate per 1,000.				Transit Permits	Coroners'	Searches	Tran- scripts	
Borough.	Estimated Population.	Marriages.	Births.	Deaths.	Still-births.	Marriages.	Births.	Deaths.	Still-births.	Issued.	Cases.	Made.	Issued
Manhattan	2,194,335	32,342	63,005	39,831	3,752	14.87	28.98	18.32	1.73	1,055	5,618	56,382	22,617
The Bronx	290,097	2,027	7,306	6,277	430	6.99	25.19	21.64	1.48	39	871	6,168	2,929
Brooklyn	1,404,569	11,966	34,538	25,024	2,071	8.52	24.59	17.81	1.47	475	3,348	25,479	12,021
Ducens	209,686	1,420	5,050	3,583	300	6.77	24.08	17.09	1.43	497	673	2,166	1,130
Richmond	74,173	600	1,873	1,488	93	8.09	25.25	20.06	1.25	••••	257	769	388
City of New Yo	rk 4,152,860	48,355	111,772	76,203	6,646	11.64	26.92	18.35	1.60	2,066	10,767	90,964	39,085

		Boro	ugh of—		*	City of
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	City of New York.
Number of deaths in institutions	14,866	2,639	5,811	539	589	24,444
Number of deaths in tenements	21,745	2,079	12,021	896	103	36,844
Number of deaths in dwellings	1,713	1,352	6,543	1,915	700	12,223
Number of deaths in hotels and boarding houses	527	27	111	55 -	17	- 737
Number of deaths in streets, rivers, etc.	980	180	538	178	79	1,95

Particulars Regarding Births, Deaths, Marriages and Still-

City of

0.2	Total.	Whi	ite.	Cole	ored.	Ch	inese.	Native	Parents.	Foreign	Parents.	Parent Mi: Nati	age of ked vities.	Pare: Unknow Stat	
	Total.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
*Marriages	48,355	46,911	46,930	1,428	1,424	16	1								
*Births	111,772	56,386	53,581	937	858	6	4	14,939	14,327	35,070	33,244	6,882	6,455	435	420
Deaths	76,203	40,916	33,150	1,048	999	87	3	8,168	7,153	27,031	22,163	3,910	3,214	2,942	1,623
*Still-births	†6,646	3,711	2,680	123	89			1,096	797	2,134	1,514	388	284	217	178

^{*} The returns of births, marriages and still-births are incomplete. † Sex undetermined.

Borough of

	Total.	Wh	ite.	Cole	ored.	Ch	inese.	Native I	Parents.	Foreign	Parents.	Mi	age of xed vities.		entage vn or Not
		м.	F.	M.	F.	M.	F.	M.	F.	M.	F.	м.	F.	M.	F.
Marriages	32,342	31,318	31,341	1,010	1,000	14	1	*				lesi			
Births	63,005	31,629	30,183	629	554	6	4	6,015	5,855	22,782	21,549	3,099	3,001	365	339
Deaths	39,831	21,457	17,048	650	594	80	2	3,599	3,078	15,002	12,101	1,774	1,392	1,811	1,074
Still-births	*3,752	2,057	1,519	88	61			441	332	1,342	1,007	211	142	152	103

^{*} Sex undetermined.

Borough of

	Total.	Whi	te.	Color	red.	CI	ninese.	Native	Parents.	Foreign	Parents.	Parenta Mix Nativ	ed	Paren Unknown Stat	
	Total	M.	F.	M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Marriages	2,027	2,000	2,001	26	26	i		,,,,							
Births	7,306	3,736	3,467	44	59	****		1,416	1,316	1,540	1,426	815	771	9	13
Deaths	6,277	3,373	2,700	93	111		4444	654	619	2,262	1,771	337	294	213	127
Still-births	*430	248	169	5	4			98	58	107	66	39	33	9	16

^{*} Sex undetermined.

Borough of

	Total.	Whi	te.	Colore	d.	Ch	inese.	Native 1	Parents.	Foreign	Parents.	Mix	age of ced vities.	Unknow Stat	
	Total.	М.	F.	M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	M,	F.
Marriages	11,966	11,643	11,640	323	326				****	****	****	****		****	
Births	34,538	17,535	16,599	214	190	****		5,963	5,672	9,391	8,968	2,340	2,097	55	52
Deaths	25,024	13,263	11,253	254	247	6	1	3,183	2,858	8,154	7,012	. 1,471	1,262	716	368
Still-births	*2,071	1,165	853	24	18			450	351	584	375	106	91	49	54

^{*} Sex undetermined.

Borough of

	Total.	Whi	ite.	Colo	red.	C	ninese.	Native	Parents.	Foreign	Parents.	Mi	age of ked vities.	Pare Unknow Sta	
	Totali	М.	F.	M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Marriages	1,420	1,372	1,369	48	51				****	****		****	****		
Births	5,050	2,520	2,453	38	39	22.72		1,124	1,087	972	940	458	449	4	16
Deaths	3,583	1,962	1,540	39	42	****		488	405	1,156	939	253	208	104	30
Still-births	*300	184	106	4	5			82	41	82	53	22	14	2	3

^{*} Sex undetermined.

Borough of

		Whi	te.	Color	red.	CI	ninese.	Native l	Parents.	Foreign	Parents.	Parenta Mix Nativ	ted	Unknow Stat	ntage on or No ted.
	Total.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Marriages	600	578	579	21	21	1						****			
Births	1,873	966	879	12	16		****	421	397	385	361	170	137	2	****
Deaths	1,488	861	609	12	5	1	****	244	193	457	340	75	58	98	23
Still-births	*93	57	33	2	1			25	15	19	13	10	-1 (4)	5	2

^{*} Sex undetermined.

births Reported During the Year Ending December 31, 1906. New York.

Sin	gle.	Mar	ried.	Wido	wed.	Divo	rced.	Not S	itated.					Month	of Ut	ero-gestati	on.			
м.	F.	м.	F.	м.	F.	М.	F.	м.	F.	1	2	3	4	5	6	7	8	9	10	Not Stated
44,914	44,475			3,087	3,278	354	602	****		101 2								**	,;	
	****							****		11 40		**	**	**	**	**,		**	**	**
23,841	16,938	13,418	9,627	4,212	7,449	33	36	548	101			**				**		- 144	**	**
					****	****			****		14	112	268	519	804	1,031	861	2,755	262	20

### Manhattan.

Sin	gle.	Mai	ried.	Wido	wed.	Dive	orced.	Not S	stated.					Month	of Ute	ro-gestatio	on.			
м.	F.	M.	F.	м	F.	м.	F. ,	М.	F.	1	2	3	4	5	6	7	8	9	10	Not Stated.
30,566	29,998	****	****	1,542	1,912	234	432						44	••					**	
										**		***	***	* **				**	* **	•••
12,657	10,031	6,989	4,839	2,063	2,779	20	22	358	.73					••					**	**
											12	86	175	318	478	570	462	1,449	199	3

#### The Bronx.

		17.		Wido		Dim	orced.	Not S	Stated					Montl	of Uter	o-gestatio	n.			
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	1	2	3	4	5	6 ,	7	8	9	10	Not Stated
1,789	1,839			217	170	21	18									**		**		
					****	****	****	****	****	**	**	**	**	**	**	••	**	**	**	
1,872	1,295	1,153	867	422	643	1		18	6		**	**		••						
				****							1	6	13	29	42	79	65	131	57	7

## Brooklyn.

				*****		D.		M. C						Mont	h of Ute	ro-gestati	on.			
M.	F.	Mar M.	F.	M.	F.	M.	F.	M.	F.	1	2	3	4	5	6	7	8	9	10	Not State
10,758	10,832			1,120	993	88	141								**					
	****						****	****		*	**	••			•••	_ **	••	**	••	**
7,606	5,552	4,352	3,263	1,427	2,651	10	13	129	21				**			••		**	**	**
					****	****	. ****	••••			1	15	72	152	233	311	277	999	. 5	6

### Queens.

		- 20			83.2			**	.c.car					Mont	h of Uter	ro-gestati	on.			
M.	F.	Ma M.	F.	M.	F.	M.	F.	M.	F.	1	2	3 .	4	5	6	7	8	9	10	Not Stated
1,267	1,267			144	143	9	10				٠.,								.,	**
			****				****	****		- **		**	**			••	*	**	**	••
1,120	759	662	479	200	342	1	1	18	1		••						**	**	••	**
						****	****					3	5	12	41	53	38	143	1.	4

# Richmond.

				402.40		200								Month	of Ute	ro-gestatio	n.			
M.	F.	Mar M.	F.	M. Wido	F.	M.	F.	M.	F.	1	2	3	4	5	6	. 7	8	9	10	Not Stated
533	539			64	60	2	1	****		185	**		- 44		.,,			.,		7
		****								**	- 44			**	**		••		••	**
486	301	262	179	100	134	1	••••	25			- 95	* **	• • •	••			••		••	
													. 3	8	10	18	19	33		

#### Report of Births for the Year Ending December 31, 1906.

		w	hite.	Co	lored.	Chi	inese.		tive ents.		eign ents.		ixed entage.		nown entage.		tended	At- tended	Appar- ently		Trip
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	age.	by Physicians.	by Mid- wives.	Illegiti- mate.	Twins.	lets
January	9,885	5,024	4,718	79	62	1	ı	1,333	1,222	3,096	2,961	630	562	45	36	597	5,673	4,212	150	78	
February	8,538	4,359	4,007	87	83	1	1	1,137	1,111	2,716	2,480	553	466	41	34	552	4,848	3,690	145	77	
March	9,465	4,748	4,574	76	65	1	1	1,256	1,244	2,939	2,786	599	572	32	37	621	5,123	4,342	140	62	
April	8,400	4,260	4,006	59	74	1		1,190	1,120	2,586	2,435	514	481	30	44	543	4,830	3,570	131	60	
May	8,637	4,336	4,163	79	59		**	1,169	1,162	2,655	2,499	543	522	48	39	547	5,031	3,606	159	73	
June	8,655	4,320	4,201	74	60		***	1,147	1,158	2,683	2,584	531	496	33	23	568	4,951	3,704	97	79	
July	9,747	4,832	4,740	85	88	1	1	1,431	1,373	2,854	2,855	603	568	30	33	602	5,779	3,968	151	75	
August	10,267	5,211	4,880	90	85	1		1,352	1,258	3,317	3,084	596	594	37	29	647	6,138	4,129	136	92	•
September	9,273	4,654	4,478	73	68			1,177	1,132	2,943	2,856	579	519	28	39	561	5,193	4,080	107	61	
October	10,140	5,137	4,843	87	71	1	1	1,374	1,236	3,212	3,084	619	557	20	38	614	5,687	4,453	120	84	
November	9,169	4,644	4,378	72	74		1	1,154	1,150	2,996	2,730	520	532	46	41	577	5,044	4,125	129	61	
December	9,596	4,859	4,591	75	70	1		1,224	1,155	3,073	2,889	596	590	42	27	578	5,364	4,232	122	73	
Total	111,772	56,384	53,579	936	859	8	6	14,944	14,321	35,070	33,243	6,883	6,459	432	420	- 7,007	63,661	48,111	1,587	875	

## BOROUGH OF MANHATTAN.

# Report of Births for the Year Ending December 31, 1906.

		W	hite.	Co	lored.	Chi	inese.	Nati Pare			eign ents.		ixed entage.		nown ntage.		tended	At- tended by Mid-	Appar- ently Illegiti-	Twins.	Trip
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male. I	emale.	Male.	Female.	Male.	Female.	Male.	Female.	age.	sicians.	wives.	mate.	I WIIIS.	·
January	5,641	2,856	2,682	57	44	7	,	541	515	2,019	1,928	316	254	38	30	230	3,126	2,515	116	33	
February	4,919	2,513	2,290	52	62	1	1	467	457	1,803	1,656	263	214	33	26	208	2,778	2,141	112	36	
March	5,453	2,725	2,629	52	45	1	1	547	543	1,919	1,842	286	266	26	24	222	2,902	2,551	110	25	
April	4,904	2,486	2,334	38	45	1		533	491	1,728	1,629	237	226	27	33	239	2,765	2,139	111	25	
May	4,848	2,374	2,379	58	37			461	474	1,695	1,663	233	243	43	36	203	2,803	2,045	132	32	
June	4,855	2,416	2,352	49	38			464	478	1,746	1,652	230	238	25	22	215	2,689	2,166	75	32	
July	5,320	2,616	2,592	54	56	1	1	550	516	1,845	1,855	251	249	25	29	222	3,031	2,289	115	30	
August	5.775	2,925	2,737	59	53	1		552	522	2,123	1,960	275	286	35	22	242	3,565	2,210	109	40	
September	5,181	2,613	2,489	46	33			442	448	1,938	1,816	255	226	24	32	184	2,808	2,373	89	27	
October	5,609	2,785	2,710	63	49	1	1	533	461	2,032	1,998	271	272	13	, 29	221	2,968	2,641	88	41	
November	5,213	2,662	2,455	48	47		1	455	473	1,980	1,743	237	252	38	35	233	2,833	2,380	110	18	
December	5,287	2,656	2,532	52	46	1	**	475	472	1,953	1,806	246	279	35	21	186	2,846	2,441	93	23	•
Total	63,005	31,627	30,181	628	555	8	6	6,020	5,850	22,781	21,548	3,100	3,005	362	339	2,605	35,114	27,891	1,260	362	

# BOROUGH OF THE BRONX.

# Report of Births for the Year Ending December 31, 1906.

		W	hite.	Co	lored.	Chi	nese.	Nati Parei			eign ents.		ixed entage.		nown ntage.	Births of Mixed		At- tended by Mid-	Appar- ently	Toulan	Trip
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male. F	emale.	Male.	Female.	Male.	Female.	Male.	Female.		sicians.	wives.	Illegiti- mate.	Twins.	lets
anuary	586	294	285	2	5			113	108	128	118	55	64			56	397	189	6	6	
February	483	245	231	4	3			90	90	102	85	57	58		1	62	320	163	3	6	
March	549	276	261	5	7			94	112	128	98	59	55	1	2	56	387	162	5	5	
April	567	285	275	2	5			109	111	104	103	74	65		1	67	422	145	1	4	
May	521	291	220	5	5	**		108	79	119	99	69	46	**	1	57	356	165	7	8	
June	575	280	288	5	2		44	110	105	94	137	78	48	3		74	392	183	8	9	
July	682	344	324	6	8			159	132	118	125	71	73	2	2	89	508	174	7	3	
August	645	336	303	2	4	**	**	128	120	144	129	66	57		1	68	450	195	8	4	
September	698	330	352	7	9	,.	• •	139	131	130	142	68	87		1	85	490	208	3	8	
October	709	384	322	1	2			137	112	171	136	77	76			68	494	215	1	5	
November	628	325	299	2	2			114	106	149	131	62	62	2	2	78	398	230	4	7	
December	663	346	307	3	7	••	••	115	109	154	123	79	80	1	2	92	455	208	7	10	
Total	7,306	3,736	3,467	44	59			1,416	1,315	1,541	1,426	815	771	9	13	851	5,069	2,237	60	75	

# BOROUGH OF BROOKLYN.

# Report of Births for the Year Ending December 31, 1906.

		W	/hite.	Co	olored.	Ch	inese.		ative rents.		reign rents.		fixed rentage.		entage.	Births of Mixed Parent		At- tended by Mid-	Appar- ently Illegiti-	Twins	Trip
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		sicians.		mate.		
January	3,056	1,568	1,462	15	11			540	468	825	808	211	192	7	5	275	1,811	1,245	23	29	
February	2,593	1,340		20	14			453	438	716	643	183	147	8	5	240	1,438	1,155	26	30	
March	2,938	1,475	1,434	17	12			505	488	782	752	201	197	4	9	296	1,547	1,391	22	28	**
April	2,428	1,238		17	19			429	409	670	613	153	145	3	6	205	1,344	1,084	12	27	
May	2,740	1,401	1,311	15	13			470	494	751	650	190	179	5	1	241	1,552	1,188	18	25	
June	2,629	1,336		16	14			436		736	690	176	156	4	1	230	1,484	1,145	13	29	
July	3,162			23	17			589		772	767	225	192	2	2	251	1,900	1,262	26	42	.,
The state of the s					-																

		W	hite.	Co	olored.	Ch	inese.		tive ents.		reign rents.		lixed entage.		known entage.	Births o		At- tended by Mid-	Appar- ently Illegiti-	Twins.	Trip-
Month,	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	age.	sicians.	wives.	mate.	I Wills.	icis.
August	3,186	1,618	1,524	25	19			532	464	913	880	196	195	2	4	287	1,728	1,458	17	42	
September	2,850	1,434	1,379	15	22			469	453	767	773	209	171	4	4	261	1,600	1,250	13	18	
October	3,200	1,647	1,519	19	15	44		569	528	880	831	212	167	5	8	289	1,850	1,350	25	31	*
November	2,770	1,387	1,343	21	19			475	450	753	731	174	177	6	4	217	1,492	1,278	14	25	**
December	2,986	1,526	1,434	11	15	**		496	437	826	830	210	179	5	3	251	1,692	1,294	20	33	
Total	34,538	17,535	16,599	214	190	**		5,963	5,672	9,391	8,968	2,340	2,097	55	52	3,043	19,438	15,100	229	359	

BOROUGH OF QUEENS.

Report of Births for the Year Ending December 31, 1906.

		W	hite.	Co	lored.	Chi	inese.	Nati Parei			eign ents.		ixed entage.		nown entage.	Births of	tended	At- tended	Appar- ently	m ·	Trip
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male. F	emale.	Male.	Female.	Male.	Female.	Male.	Female.		by Physicians.	by Mid- wives.	Illegiti- mate,	Twins.	lets.
January	438	219	213	4	2			99	89	88	85	36	40		1	24	246	192	4	9	
February	395	204	177	10	4			99	81	76	66	39	32		2	28	215	180	2	3	
March	386	198	186	1	1			80	79	76	67	42	39	1	2	37	212	174	3	2	
April	348	169	173	2	4			80	76	57	61	34	36		4	20	198	150	4	3	
May	384	184	199		1			93	83	58	67	33	49		1	36	232	152	1	5	
June	390	187	197	3	3			85	89	75	71	30	40			30	232	158		4	
July	444	235	202	2	5	**		95	83	95	80	46	44	1	**	34	262	182	-1		
August	511	249	252	4	6			110	126	98	85	45	45		2	38	298	213	2	4	
September	375	186	184	3	2	**		85	70	71	91	33	23	***	2	19	199	176	2	8	
October	461	235	219	2	5			103	105	90	87	43	31	1	1	24	270	191	4	6	
November	382	187	190	1	4	**		80	92	78	76	30	26			27	209	173	1	6	
December	536	267	261	6	2		- **	115	114	110	104	47	44	1		37	305	231 -	2	5	
Total	5,050	2,520	2,453	38	39			1,124	1,087	972	940	458	449	4	16	354	2,878	2,172	26	55	

BOROUGH OF RICHMOND.

Report of Births for the Year Ending December 31, 1906.

		_	_	_												A. A. C. C.					_
		w	hite.	Co	lored.	Ch	inese.	Nativ Paren	ts.		eign ents.		ixed entage.		nown entage.	Births o Mixed	f At- tended by Phy-	At- tended by Mid-	Appar- ently Illegiti-	Twins.	Tr
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male. Fe	emale.	Male.	Female.	Male.	Female.	Male.	Female.		sicians.	wives.	mate.	I WIIIs.	101
January	164	87	76	1				40	42	36	22	12	12			12	93	71	x .	1	
February	148	57	90	1				28	45	19	30	11	15		***	14	97	51	1		
March	139	74	64	1				30	22	34	27	11	15	12.0		10	75	64	I	2	
April	153	82	70		1			39	33	27	29	16	9	**	**	12	101	52	3	1	
May	144	86	54	1	3			37	32	32	20	18	5		**	10	88	56	1	3	
June	206	101	101	1	3			52	56	32	34	17	14	1		19	154	52	1	5	
July	139	72	65		2			38	29	24	28	10	10		**	6	78	61	2		
August	150	83	64	4.4	3	188		30	26	39	30	14	11			12	97	53		2	
September	169	91	74	2	2			42	30	37	34	14	12			12	96	73			
October	161	86	73	2	99	**		32	30	39	32	16	11	1	**	12	105	56	2	x	
November	176	83	91	.,	2			30	29	36	49	17	15			22	112	64		5	
December	124	64	57	3				23	23	30	26	14	8			13	66	58		-	
Total	1,873	966	879	12	16			421	397	385	361	170	137	2	**	154	1,162	711	12	24	

## Births by Nativities of Parents.

	Borou Manh	igh of attan.	Borou The E		Borou Brook		Borou	gh of ens.	Boroug Richm		City of N	ew York.
Country.	Nativity of Both Parents.	Nativity of Mother Only.										
Austria-Hungary	7,259	1,356	152	84	1,350	337	117	48	69	ī	8,947	1,826
Bohemia	542	144	19	6	6	6	38	12	1		606	168
British America	84	151	17	38	67	124	14	20	4	13	186	346
England	194	535	44	99 -	159	394	32	50 -	31	20	460	1,098
rance	130	136	8	19	8	40	6	9	7	2	159	206
Germany	1,946	891	491	237	1,519	682	472	191	112	43	4,540	2,044
Ireland		1,545	324	196	1,379	737	127	116	74	56	5,631	2,650
Italy	13,359	148	1,188	9	5,895	44	556	7	218	5	21,216	213
Russia and Poland	11,781	613	480	54	5,084	264	264	19	100	1	17,709	951
Scotland	73	112	22	22	61	89	12	25	28	3	196	251
Sweden		172	94	21	476	121	25	17	85	6	1,045	337
Switzerland		46	8	12	13	24	6	12	2	2	69	96
United States	20.0	3,959	2,732	735	11,635	2,817	2,211	575	818	152	29,266	8,238
Other foreign		336	120	56	1,025	181	49	20	15	3	2,693	596
Unknown		7	19									7
Total	52,854	10,151	5,718	1,588	28,678	5,860	3,929	1,121	1,566	307	92,745	19,027

### Table of Marriages in The City of New York for the Year Ending December 31, 1906.

	m-1-1	W	Thite.	Col	lored.	Ch	inese.	S	single.	Wie	lowed.	Div	orced.	N	ative.	For	reign.
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
January	4,155	4,006	4,007	148	148	1	1,1	3,823	3,789	308	315	24	51	1,783	1,888	2,372	2,267
February	3,595	3,508	3,508	87	87	**		3,384	3,309	193	248	18	38	1,434	1,566	2,161	2,029
March	3,441	3-842	3,343	98	98	1		3,196	3,172	226	230	19	39	1,325	1,434	2,116	. 2,007
April	3,390	3,294	3,297	94	93	2		3,122	3,057	237	281	31	52	1,535	1,677	1,855	1,713
May	3,344	3,232	3,235	111	109	1	**	3,058	3,061	257	237	29	46	1,395	1,493	1,949	1,851
June	5.733	5,627	5,628	105	105	1		5,334	5,354	357	317	42	62	2,620	2,743	3,113	2,990
July	3,480	3,360	3,362	119	118	1		3,205	3,196	240	232	35	52	1,552	1,639	1,928	1,841
August	3.933	3,834	3,834	99	99			3,630	3.597	266	277	37	59	1,773	1,827	2,160	2,106
September	3,971	3,818	3,821	150	150	3		3,706	3,662	241	266	24	43	1,837	1,967	2,134	2,004
October	4,469	4,344	4,345	124	124	1		4,169	4,097	263	315	37	57	1,905	2,089	2,564	2,380
November	4,333	4,191	4,193	140	139	2	1	4,070	4,014	235	267	28	52	1,835	1,951	2,498	2,382
December	4,511	4,355	4,357	155	154	1	**	4,217	4,167	264	293	30	51	1,776	1,917	2,735	2,594
Total	48,355	46,911	46,930	1,430	1,424	14	1	44,914	44,475	3,087	3,278	354	602	20,770	22,191	27,585	26,164

## BOROUGH OF MANHATTAN.

		W	hite.	Col	ored.	Ch	inese.	S	ingle.	Wid	lowed.	Div	orced.	N	ative.	For	reign.
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
January	2,913	2,801	2,802	111	111	1		2,724	2,683	170	190	19	40	1,158	1,199	1,755	1,714
February	2,553	2,490	2,490	63	63			2,449	2,378	92	146	12	29	862	939	1,691	1,614
March	2,441	2,362	2,365	78	76	1		2,321	2,287	107	130	13	24	862	924	1,579	1,517
April	2,291	2,216	2,220	73	71	2	**	2,149	2,090	117	165	25	36	918	1,008	1,373	1,283
May	2,241	2,168	2,171	72	70	1	++	2,090	2,068	133	136	18	37	844	900	1,397	1,341
June	3,690	3,622	3,624	67	66	1		3,478	3,463	184	186	28	41	1,486	1,547	2,204	2,143
July	2,158	2,068	2,070	89	88	1		2,018	2,001	118	126	22	31	828	870	1,330	1,288
August	2,755	2,684	2,684	71	71			2,574	2,523	153	183	28	49	1,186	1,224	1,569	1,531
September	2,554	2,449	2,452	102	102	3		2,430	2,380	116	149	8	25	1,080	1,140	1,474	1,414
October	2,957	2,863	2,864	93	93	1		2,807	2,718	125	193	25	46	1,097	1,202	1,860	1,755
November	2,875	2,787	2,789	86	85	2	1	2,750	2,696	107	144	18	35	1,065	1,142	1,810	1,733
December	2,914	2,808	2,810	105	104	1	**	2,776	2,711	120	164	18	39	947	1,028	1,967	1,886
Total	32,342	31,318	31,341	1,010	1,000	14	1	44,914	44,475	3,087	3,278	354	602	20,770	22,191	27,585	26,164

# BOROUGH OF THE BRONX.

	maret	W	hite.	Col	ored.	Ch	inese.	Si	ngle.	Wid	lowed.	Div	orced.	Na	tive.	For	reign.
Month.	Total.	Male.	Female.	Male.	Female												
January	169	166	166	3	3	37.		153	152	15	17	1		95	94	74	7:
February	147	142	142	5	5			127	129	20	16		2	81	96	66	5
March	140	140	140					117	125	22	14	1	1	69	77	71	6
April	129	126	126	3	3			117	115	10	12	2	2	70	86	59	4:
May	138	136	136	2	2			120	124	17	13	1	1	76	77	62	6
Tune	223	222	222	1	1			206	206	13	15	4	2	138	141	85	8.
July	151	149	150	2	1			134	141	17	10		**	95	98	56	5.
August	141	140	140	1	1			120	126	20	12	1	3	80	87	61	5-
September	191	190	190	1	1	**		168	176	19	. 14	4	1	105	122	86	6
October	194	193	193	1	1			172	180	18	11	4	3	109	127	85	6
November	208	204	204	4	4			184	186	23	20	1	2	111	119	97	8
December	196	192	192	4	4	••		171	179	23	16	2	1	102	122	94	7.
Total	2,027	2,000	2,001	27	26			1,789	1,839	217	170	21	18	1,131	1,246	896	78

# BOROUGH OF BROOKLYN.

1000	-	W	hite.	Col	lored.	Ch	inese.	S	ingle.	Wid	lowed.	Div	orced.	Na	tive.	For	eign.
Month.	Total.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
January	931	904	903	27	28			820	825	107	97	4	9	431	490	500	441
February	762	745	745	17	17		**	691	689	. 66	67	5	6	409	437	353	325
March	770	753	752	17	18			682	684	83	73	5	13	334	368	436	402
April	846	830	830	16	16		** :	745	745	97	89	4	12	456	490	390	356
May	809	780	780	29	29			717	739	85	62	7	8	374	414	435	395
June	1,567	1,538	1,538	29	29		**	1,422	1,447	136	102	9	18	820	875	747	692
July	972	949	948	23	24	**		877	882	84	69	11	21	491	534	481	438
August	896	877	877	19	19		**	810	814	79	75	7	7	409	422	487	474
September	1,054	1,013	1,013	41	41			952	951	91	86	11	17	543	583	511	471
October	1,101	1,077	1,077	24	24		**	994	1,003	100	91	7	7	545	601	556	500
November	1,044	999	999	45	45		**	946	938	90	93	8	13	521	546	523	498
December	1,214	1,178	1,178	36	36		**	1,102	1,115	102	89	10	10	610	648	604	566
Total	11,966	11,643	11,640	323	326			10,758	10,832	1,120	993	88	141	5,943	6,408	6,023	5,558

### BOROUGH OF QUEENS.

and the state of t	and the		Wh	hite.	Co	lored.	Ch	inese.		Single.	Wie	lowed.	Di	vorced.	Na	ative.	For	reign.
Month.	Total.	Male		Female.	Male.	Female												
January	99	9	,	97	2	2			87	91	12	6	44	2	71	74	28	2
February	85	8.	+	84	1	1			75	71	9	13	1	1	54	65	31	2
March	55	5	3	52	2	3			48	46	7	8		1-	35	40	20	1
April	92	9	0	89	2	3			83	78	9	12	11	2	69	73	23	. 1
May	122	11	7	117	5	5			102	102	17	20	3	44.5	81	83	41	3
June	169	16	5	164	4	5			153	157	15	11	1	1	122	128	47	4
July	143	13	8	138	5	5			124	123	17	20	2	**	103	104	40	3
August	97	9	0	90	7	7			86	93	11	4		**	70	71	27	2
September	112	10	8	108	4	- 4			97	99	14	13	1		75	79	37	3
October	162	15	6	156	6	6			148	147	13	14	. 1	1	115	118	47	4
November	147	14	5	145	2	2		**	140	140	7	6	(4.4)	1	100	104	47	4
December	137	12	9	129	8	8			124	120	13	16		I	95	.94	42	4
Total	1,420	1,37	2	1,369	48	51			1,267	1,267	144	143	. 9	10	990	1,033	430	38

#### BOROUGH OF RICHMOND.

	m	W	hite.	Col	ored.	Ch	inese.	S	ingle.	Wid	lowed.	Div	orced.	Na	tive.	For	eign.
Month.	Total.	Male.	Female.	Male.	Female												
January	43	.38	39	5	4			39	38	4	5			28	31	15	1
February	48	47	47	1	1			42	42	6	6			28	29	20	1
March	35	34	34	1	1			28	30	7	5	**	**	25	25	10	1
April	32	32	32					28	29	4	3			22	20	10	1
May	34	31	31	3	3			29	28	5	6	**	**	- 20	19	14	1
June	84	80	80	4	4	**		75	81	9	3			54	52	30	3
July	56	56	56					52	• 49	4	7			35	33	21	2
August	44	43	43	1	1			40	41	3	3	1	**	28	23	16	2
September	60	58	58	2	2			59	56	1	4	**		34	43	26	1
October	55	55	55	4.7				48	49	7	6		***	39	41	16	1
November	59	56	56	3	3		44	50	54	8	4	r	1	38	40	21	1
December	50	48	48	2	2			44	42	6	8	**	**	22	25	28	2
Total	600	578	579	22	21			534	529	64	60	2	1	373	381	227	21

Table of Mortality from the Principal Causes of Death in the Year 1906.

BOROUGH OF MANHATTAN.

Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Total, all causes	3,373	3,310	3,765	3,690	3,510	2,877	3,321	3,399	3,170	3,079	2,903	3,434	39,831
*		-		_		-				-			-
1. Typhoid fever	10	21	7	21	16	15	24	32	41	60	46	32	325
2. Typhus fever		144			**		**	• • •	**	**	**	••	**
3. Malarial fevers	I	**	3	1	1741	**	6	5	2	5	2	1	26
4. Small-pox		**	**	••		**		**	**	**		**	
5. Measles	40	63	82	98	65	43	27	10	12	5	9	9	463
6. Scarlet fever	18	19	22	17	25	7	8	5	7	5	11	23	167
7. Whooping cough	- 10	4	8	11	15	13	15	24	18	22	7	21	168
8. Diphtheria and croup	57	74	87	95	102	68	55	16	24	34	59	60	731
g. Influenza	11	15	13	16	11	2	2		**	1	8	21	100
10. Asiatic Cholera				**	••	**							
11. Cholera nostras	**	1.1						**				**	
12. Other epidemic diseases	26	27	14	25	26	24	19	11	14	14	17	16	233
13. Tuberculosis pulmonalis	381	345	422	397	393	361	351	375	322	357	. 356	390	4,450
14. Tubercular meningitis	30	47	50	44	. 40	54	43	. 28	43	28	32	28	467
15. Other forms of tuberculosis	17	18	29	17	23	. 17	20	22	12	23	20	25	243
16. Cancer, malignant tumors	137	137	124	142	121	123	138	146	144	142	127	149	1,630
17. Meningitis, simple	62	85	. 8o	122	104	61	50	29	36	34	38	43	744
17a. Cerebro spinal meningitis	49	55	64	93	85	47	36	17	20	25	27	27	545
18. Apoplexy, congestion and softening of Brain	136	127	113	124	109	88	59	91	91	117	107	• 118	1,280
19. Organic heart disease		240	267	303	277	222	267	208	237	251	287	300	3,111
20. Acute bronchitis	96	86	106	62	51	36	38	22	23	44	34	44	642
21. Chronic bronchitis	6	7	4	4	3	2	4		2	1	6	10	49
22. Pneumonia (excluding broncho-pneumonia)	318	313	390	346	282	165	98	108	106	165	216	343	2,850
22a. Broncho-Pneumonia		300	403	381	328	209	143	145	177	200	228	274	3,141
23. Diseases of stomach (cancer excepted)	2,00	15	16	13	18	10	21	15	19	21	14	13	195
24. Diarrhœas (under 5 years)		66	96	83	103	203	661	723	548	278	99	82	3,003
25. Hernia, intestinal obstruction		26	26	29	36	21	31	22	28	27	24	31	332
26. Cirrhosis of liver		41	40	42	35	28	37	46	49	48	41	44	503
27. Bright's disease and nephritis		289	301	285	263	219	212	243	243	241	235	339	3,147
28. Diseases of women (not cancer)		21	14	13	17	11	6	19	10	10	21	19	177
20. Puerperal septicæmia		12	13	17	18	8	8	6	8	8	5	14	133
30. Other puerperal diseases		21	33	21	26	20	25	23	0	. 17	18	29	26

	12376		TH	E C	ITY	REC	ORE	).		SAT	URDAY	, NOVE	MBER 30,	1907.
=	Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	r. December.	Total.
31.	Congenital debility and malformations	243	240	249	257	209	198	211	239	212	221	182	230	2,691
32.	Old age	22	30	35	27	33	22	23	33	30	27	26	20	328
33.	Violent deaths	180	170	187	199	238	230	252	263	215	188	228	210	2,569
	a. Sunstroke	13.				1	3	24	40	2				70
	1 04 11			224		-00		454			0			

31. Congenital debility and malformations	243	240	249	257	209	198	211	239	212	221	182	230	2,691
32. Old age	22	30	35	27	33	22	23	33	30	27	26	20	328
33. Violent deaths	180	170	187	199	238	230	252	263	215	188	228	210	2,569
a. Sunstroke					1	3	24	40	2		2.44		70
b. Other accidents	134	121	137	147	188	196	191	183	172	148	184	171	1,972
c. Homicide	10	12	12	14	11	9 .	10	15	15	9	15	10	142
d. Suicide	45	37	38	38	38	22	27	25	26	31	29	29	385
34. All other causes	428	419	489	450	492	371	428	411	392	410	372	458	5,120
35. Ill-defined causes	34	32	42	28	31	26	39	79	96	75	28	38	548
		_								_			
Under one year	699	751	803	787	675	635	1,025	1,144	1,013	778	529	625	9,464
One year, under two years	191	210	274	288	276	208	227	216	192	152	138	151	2,523
Total under five years	1,035	1,120	1,306	1,272	1,157	1,024	1,417	1,455	1,290	1,030	779	893	13,778
Sixty-five years and over	518	482	506	454	446	336	353	353	334	437	435	537	5,191
Seventy years and over	340	316	336	296	293	220	211	240	210	288	272	363	3,385
	_	_		_						_		-	
Males	1,896	1,824	2,041	2,061	1,996	1,633	1,875	1,861	1,768	1,708	1,608	1,913	22,184
Females	1,477	1,486	1,724	1,629	1,514	1,244	1,446	1,538	1,402	1,371	1,295	1,521	17,647
Colored	94	88	109	109	102	102	112	118	108	93	92	124	1,251
Chinese	7	5	8	7 .	8	7	4	5	7	6	8	6	78

### BOROUGH OF THE BRONX.

· Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September	. October.	November.	December	Total
Total, all causes	532	544	627	552	541	477	534	557	465	461	460	527	6,27
I. Typhoid fever	3		1	4 .	1	1	3	7	5	4	9	6	4
2. Typhus fever						91		**				++	
3. Malarial fevers				1									
	4.4									**			
	11	16	49	29	33	28	17	3		2	5	6	19
5. Measles	3	4	10	2	12	7	3	1		1	1	1	
		1	2		4	1	3	9	4	5	4	1	
7. Whooping cough	50	53	54	21	17	11	10	4	3	7	10	12	25
g. Influenza	7		2	3	1 -						1	2	,
4	1		1	1	4	1	6	8	2	1	1	1	3
12. Other epidemic diseases	121	3	138	113	127	125	109	104	106	129	111	125	1,45
		142	5	5	3	4	5	7	5	4	5	6	
14. Tubercular meningitis	5 2			1	1	2	4	2	1	3	1	5	2
15. Other forms of tuberculosis		2	18	18	23	13	23	21	15	15	20	24	22
16. Cancer, malignant tumors	19	17			12	10	8	7	7	7	5	5	9
7. Meningitis, simple	3	8	10	12	8	6	2	4	5	4	2	2	5
7a. Cerebro spinal meningitis	1	6	6	9	17	14	15	11	13	18	17	18	19
8. Apoplexy, congestion and softening of brain	16	18	12	24	24	36	23	28	36	32	39	48	39
9. Organic heart disease	38	29	32	30				1	2	3-	11	9	,
o. Acute bronchitis	16	4	10	11	7	3				1	1		1
r. Chronic bronchitis	2		4	6	2	. 1	1	**	**				
22. Pneumonia (excluding broncho-pneumonia)	62	44	65	65	42	26	18	13	12	24	35	47	45
22a. Broncho-pneumonia	16	22	25	30	16	12	17	13	19	21	26	21	23
23. Diseases of stomach (cancer excepted)	3	2	5	1	3	5	2	1	2	5	5	4	3
24. Diarrhœas (under 5 years)	14	8	7	14	12	25	92	93	49	19	7	11	35
25. Hernia, intestinal obstruction	2	5	1	1	6	2	6	6	2	4	2	4	4
26. Cirrhosis of liver	5	5	2	5	6	6	6	.8	5	11	5	5	
27. Bright's disease and nephritis	34	44	43	28	57	39	46	49	38	31	31	31	47
28. Diseases of women (not cancer)	2	2		2	2	••	2		3	1	1	2	
29. Puerperal septicæmia		3	7	3	2	3	2	••	1	2		2	4
30. Other puerperal diseases	3	3	2	2	2	2	1	2	3	5	3	7	3
31. Congenitial debility and malformations	20	20	23	21	16	18	30	29	35	27	16	20	27
32. Old age	. 3	4	5	. 8	3	2	2	5	4	6	6	12	
33. Violent deaths	21	28	31	35	38	33	34	47	31	23	26	39	38
a. Sunstroke		44				**	3	1	1				
b. Other accidents	16	25	22	.30	35	27	23	33	26	18	21	32	30
c. Homicide	1	1	3			3	1	1	2		3	1	1
d. Suicide	4	2	6	5	3	3	7	12	*2	5	2	6	1.5
	48	52	57	54	45	46	43	71	53	42	51	47	60
****	2	1	2	2	3	1	3	7	9	7	5	6	
5. Ill-defined causes						_				_			
			84	81	62	65	143	148	119	70	62	59	1,0
Under one year	70	75	84		41	31	32	37	23	17	9	22	3:
One year, under two years	34	36	55	41	139	127	204	199	143	102	88	99	1,7
Total under five years	144	146	198	167	63	57	59	66	67	62	76	76	8
Sixty-five years and over	76	68	80	85	- 03		====						
				-0				- 10			7.00	57	5
Seventy years and over	52	40	57	58	46	34	40	42	43	45	55		3,4
Males	301	295	332	301	306	271	274	303	268	261	252	302	
Females	231	249	295	251	235	206	260	254	197	200	208	225	2,8
Colored	21	19	24	13	19	19	16	20	11	17	17	8	2
Chinese		**			33	3 99	**	**-	- 18.6	**	***	**	

BOROUGH OF BROOKLYN.

	Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September	. October.	November.	December.	Tota
[otal	1, all causes	2,269	2,064	2,293	2,082	2,204	1,873	2,352	2,096	1,925	1,913	1,867	2,086	25,02
		-					-				-			-
	Typhoid fever	13	. 10	13	6	14	13	23	31	31	35	23	18	23
	Typhus fever	***	••		**	* **		••	**	**	**	**	**	
-	Malarial fevers	1		2		4	2	5	**	6	3	1	5	2
	Smallpox		**		1	2	3		• •		•••	• •	**	
-	Measles	59 28	79	89	79	61	29	20	11	1	4	2	12	44
	Scarlet fever	. 0	. 6	15	6	72	21	14	6	0	7	,,	16	25
7.	Whooping cough	99	100	86	61	89	5	48	19		19	70	78	79
	Diphtheria and croup	21	19	26	14	6	45	40	33	35	49	2	17	11
	Asiatic cholera						•		•••		-			**
	Cholera nostras									•••				
	Other epidemic diseases	16	13	13	16	20	~	23	21	. 6	12	4	10	16
	Tuberculosis pulmonalis	183	204	252	219	241	228	220	194	199	204	201	212	2,55
	Tubercular meningitis	11	20	22	18	20	24	18	16	17	17	11	13	20
	Other forms of tuberculosis	18	14	11	11	21				18	11	12	20	18
-	Cancer, malignant tumors	81	69	84	78	1	14	17	15	68			4	
	Meningitis, simple	39	22	43	36	78 36	89	83	79	18	100	97	. 69	97
	Cerebro spinal meningitis	23	16		25	25	11	12	17	8	7	8	6	18
	The second secon	111	87	33	83	94		79		76	87	83	117	1,07
18.	Apoplexy, congestion and softening of brain  Organic heart disease		158	109	126	122	75 122	117	73	102	142	131	200	1,65
19.	Acute bronchitis	76	64	58	61	44	23	21	26	26	32	32	6r	52
	Chronic bronchitis			22	12	10	17	7	13	8	16	20	14	17
	Pneumonia (excluding broncho-pneumonia)	13	23		250	165	104	86	53	88	119	182	230	2,09
22.	Broncho-pneumonia	323 147	186	250 1 <b>8</b> 8	163	147	84	52	58	73	96	116	150	1,46
	Diseases of stomach (cancer excepted)	20	19	21	16	14	17	21	21	24	23	16	19	23
				38		79	175	604	455	339	190	57	35	2,10
24.	Diarrhœas (under 5 years)  Hernia, intestinal obstruction	45	34	16	53	16	13	12	14	14	- 11	15	18	16
3	Cirrhosis of liver	21	28	31	. 28	44	30	28	36	32	34	37		38
26.	Bright's disease and nephritis	204	181	174	181	196	158	170	141	139	174	182	35 176	2,07
27. 28.	Diseases of women (not cancer)	13	12	11	11	11	13	. 11	10	8	*/4	8	7	11
	Puerperal septicæmia	12	7	8	0	3	11				,	8	,	
	Other puerperal diseases	11	18	at	. 8	12	10	. 15	17	16	17	13	12	17
	Congenital debility and malformations	125	89	106	80	114	112	124	127	120	130	120	94	1,34
	Old age	33	26	33	30	40	30	25	37	. 33	34	42	30	
	Violent deaths	92	82	94	99	132	111	147	135	117	105	106	110	39
33.	a. Sunstroke						2	8	16	2	137			1,33
	b. Other accidents	71	68	66	71	97	80	118	93	98	90	81	84	1,01
	c. Homicide	7	6	6	6	14	9	4	6	5	2	8 .	8	1,01
	d. Suicide	14	8	22	22	21	20	17	20	12	13	17	18	. 20
	All other causes	248	218	291	256	269	234	268	250	252	208	236	258	2,98
	Ill-defined causes	8	10	11	20	21	30	48	73	37	12	6	7	28
35-	Indenied Causes IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								===					
IInd	er one year	400	360	379	358	386	425	812	700	562	422	316	333	5,45
	year, under two years	167	160	173	142	163	98	141	141	112	98	77	99	1,57
	l under 5 years	745	682	716	673	709	645	1,095	929	751	605	467	530	8,54
	y-five years and over	365	348	* 385	309	333	295	280	279	265	347	344	407	3,95
	enty years and over	249			214	235	195	186	188	178	232	227	290	2,70
seve	mry years and over		235	272		-33		===	===				===	===
Mc1-	25	1,193	1,112	1,234	1,137	1,221	1,016	1,314	1,145	1,022	1,012	996	1,121	13,52
	ales	1,076	952	1,059	945	983	857	1,038	951	903	901	871	965	11,50
	red	54	52	47	46	30	33	49	44	38	33	38	39	
010	red	1	1	1	2	30	33	49	1		33	30	39	50

# BOROUGH OF QUEENS.

1		====											
Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September	. October.	November.	December,	Total
Total, all causes	226	272	293	265	286	258	389	379	330	300	280	305	3,583
1. Typhoid fever	2	1	4	1	2	2	3	4	6	2	3		30
2. Typhus fever			44						**	44		4.0	
3. Malarial fevers		••		1	2	2		1			1	**	7
4. Smallpox								**		**			
5. Measles	4	2	5	4	4	3	. 2	1				**	25
6. Scarlet fever	1	4	1	2	5	1		144			1		15
7. Whooping cough		1		1	••	1	- 4	3	4	1	2	6	23
8. Diphtheria and croup	4	9	14	6	6	2	5	7	4	13	12	12	94
9. Influenza	1	3	2	2	1		**		**	9.8	1	1	11
to. Asiatic cholera					•••	••			**	**	44		
11. Cholera nostras		**	**		••	***	**	**			**		144
12. Other epidemic diseases	. 1	4	1	••	2	**	3	4	. 5				20
13. Tuberculosis pulmonalis	26	23	31	26	19	26	22	23	27	32	31	22	30
14. Tubercular meningitis		3	1	. 2	3	- 3	3	2	2	1	2	3	2
15. Other forms of tuberculosis	. 1		2	1	2	1	3	* **	**	2	1	3	. 1

12378		1 FI	E .	CITI	REC	ORI	٠.	- 2.5	SAT	URDAY	, NOVE	MBER 30	), 1907.
Cause of Death.	January.	February.	Marc	h. April.	May.	June.	July.	August.	September	October.	November	. December.	. Tota
6. Cancer, malignant tumors	7	. 9		7	8	10	11	14	11 *	9	12	14	11
7. Meningitis, simple	4			5 4	. 7	6	5	. 4	3	3	1	5	- 4
7a. Cerebro spinal meningitis			,	,,	2	1	3	1	2	2	1	2	1
8. Apoplexy, congestion and softening of brain	13	13	1	9 8	14	8	11	11	. 9	11	21	22	16
9. Organic heart disease	26	21	3	32	26	20	29	19	25	26	18	16	28
o. Acute bronchitis	3	7	1	3 7	5	3	1	5	1	4	4	9	'(
r. Chronic bronchitis	1	**		1 1	2		**				**	2	
2. Pneumonia (excluding broncho-pneumonia)	34	38	3	6 19	33	11	8	8	7	20	20	37	27
2a. Broncho-pneumonia	16	22	2;	3 22	12	20	12	11	14	13	16	31	21
3. Diseases of stomach (cancer excepted)	1				. 3	5	1	2	I	2		1	1
4. Diarrhœas (under 5 years)	3	6		7 11	14	25	. 111	101	70	25	16	5	39
5. Hernia, intestinal obstruction	2	4		1 2		2	4	8		4	3	2	3
6. Cirrhosis of liver	3	. 5		3	3	7	3	3	8	5	2	4	5
7. Bright's disease and nephritis	20	17	30	30	30	23	36	28	23	19	36	28	31
8. Diseases of women (not cancer)		1	1		2	1		1			2	S.,	
9. Puerperal septicæmia	1	4	,	1	1	5	2	1	2	**	1	. 1	2
o. Other puerperal diseases		1			6	3	3	3	2	1	1		- 2
1. Congenital debility and malformations	10	17	13	. 8	16 *	17	22	17	16	20	23	20	19
2. Old age	5	6	3	7	10	. 7	2	5	3	10	6	4	6
3. Violent deaths	14	25	12	28	20	24	35	39	43	46	24	34	. 34
a. Sunstroke							3	3	1				
b. Other accidents	12	24	11	23	13	22	25	28	38	39	16	28	27
c. Homicide							2	1	1		3	3	1
d. Suicide	2	ī	1	5	7	2	5	7	3	7	5	3	4
4. All other causes	22	25	22	27	27	20	39	33	36	26	29	22	32
5. Ill-defined causes	I		1	2	1		9	21	8	5	1	1	5
		-											
Inder one year	38	56	50	52	59	64	149	154	108	65	50	58	90
one year, under two years	`8	12	15	10	15	16	24	19	14	8	19	16	17
otal under five years		82	83	75	93	91	187	187	133	87	84	94	1,25
ixty-five years and over		38	48	51	57	39	45	46	49	61	51	61	59
eventy years and over		26	35	31	38	30	35	31	37	41	36	39	41
Iales	127	151	168	148	148	150	216	224	179	165	153	172	2,00
emales		121	125		138	108	173	155	151	135	127	133	1,58
olored			2		. 10	2	12	10	1	4	7	13	8
hinese	1001												01

Table of Mortality from the Principal Causes of Death in the Year 1906.

BOROUGH OF RICHMOND.

	Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Tot	al, all causes	118	103	126	97	107	109	198	184	131	100	100	115	1,488
1.	Typhoid fever							1	. 3	1	3	2	-	10
2.	Typhus fever							**						
3.	Malarial fevers								1					. r
4.	Smallpox													
5.	Measles	2	2	3	2	2		1				44		12
6.	Scarlet fever		**		1	1	1		1		1		1	6
7.	Whooping cough					1		3	2	1		1	2	10
8.	Diphtheria and croup	4	2		2	2	1	2	5	1	3	2	4	28
9.	Influenza					**								
10.	Asiatic cholera													
11.	Cholera nostras						**							
12.	Other epidemic diseases	3		1					1	1	1			7
13.	Tuberculosis pulmonalis	14	16	24	16	10	18	21	13	16	11	14 1	17	190
14.	Tubercular meningitis		**	1		**	1	2	2		1		1	8
15.	Other forms of tuberculosis		1		1	1		1	1					5
16.	Cancer, malignant tumors	5	2	4	6	2	5	6	5	5	3	8	4	55
17.	Meningitis, simple	r	1	2	3	3	2	3	1	2	3	2	1	24
	. Cerebro spinal meningitis	1				2	1	1		2	1	2		12
18.		4	8	4	5	8	7	4	5	5	5	7	3	65
19.	Organic heart disease	13	7	9	8	11	4	16	10	12	4	6	11	111
20.	Acute bronchitis	4	1		1		1	1	- 2	1		2		13
21.	Chronic bronchitis			1		**	1	1	44.		1	1		5
22.	Pneumonia (excluding broncho-pneumonia)	20	13	8	6	11	2	6	4	4	5	5	12	96
22a.	Broncho-pneumonia	4	5	9	9	3	1	4	. 1	4	2	4	4	50
23.	Diseases of stomach (cancer excepted)			1	2	1	1	1	2	4.0				8
24.	Diarrhœas (under five years)	4	1	6	1		3	64	54	18	8	1	4	164
25.	Hernia, intestinal obstruction		2			1	i	2	2		1		1	10
6.	Cirrhosis of liver	3	3	3	2	1	2	1	1	1		5	2	24
7.	Bright's disease and nephritis	9	6	12	7	8	4	4	15	7	12	8	12	104
28.	Diseases of women (not cancer)	1					1	1		3			1	7
29.	Puerperal septicæmia	2	2	1	1	1							140	7
30.	Other puerperal diseases	1	**	1	**	1			1	2			3	9
31.	Congenital debility and malformations	4	4	5	6	5	17	11	9	12	12	-1 3		94

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Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December	Total.
32. Old age	5	3	3	3	4	3	1	6	4	2	2	8	41
33. Violent deaths	1	6	12	4	17	15	16	10	9	5	8	9	112
a. Sunstroke	**		7.				1	1				44	2
b. Other accidents	1	4	7	3	16	11	13	9	9	5	8	7	93
c. Homicide		- 1		- 44 -	1			**				2	4
d. Suicide	**	1	5	1		4	2						13
34. All other causes	14	17	16	10	16	15	16	15	14	12	17	10	172
35. Ill-defined causes		1		1	.,	3	9	12	8	5	1		40
Under one year	13	7	14	13	7	27	89	78	41	29	11	11	340
One year, under two years	. 3	4	7	5	3	3	14	9	4	4	4	6	66
Total under five years	19	13	24	20	13	32	108	91	47	36	18	22	443
Sixty-five years and over	35	34	27	24	29	20	17	29	27	14	27	37	320
Seventy years and over	28	27	20	18	23	14	14		21	8	22	26	243
Males	66	64	78	67	65	69	117	99	71	57	58	63	874
Females	52	39	48	30	42	40	81	85	60	43	42	52	614
Colored	3	2	2	** 1	2		1	4	1	. 2	. 1		18
Chinese						1		*					1

City of New York.

	Cause of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September	. October.	November	. December.	Total
Total,	all causes	6,518	6,293	7,104	6,686	6,648	5,594	6,794	6,615	6,021	5,853	5,610	6,467	76,20
x. 1	Typhoid fever	28	32	25	32	33	31	54	77	84	104	83	56	63
2. 1	Typhus fever		. 44		44									
3. 1	Malarial fevers	2		5	3	6	. 4	11	7	8	8	4	6	.6
4. 5	Smallpox				1	. 2	3			**				
5. 1	Measles	116	162	228	212	165	103	67	25	13	11	16	27	1,14
6. 5	Scarlet fever	50	43	48	64	115	37	25	13	13	14	22	47	49
7. 1	Whooping cough	19	12	19	18	27	20	41	. 57	36	47	25	46	36
	Diphtheria and croup	214	238	241	185	216	127	120	65	67	106	153	166	1,89
	Influenza	40	37	43	35	19	6	3		2	3	12	41	24
	Asiatic cholera			44										-4
	Cholera nostras				••								••	
	Other epidemic diseases	47	47	30	42	52	32	51	45	28	28	22	••	
	Cuberculosis pulmonalis	725	730	867	771	790	758						27	45
	Cubercular meningitis	• 46	74	79	69	66	86	723	709	670	733	713	766	8,95
								71	55	67	51	50	51	76
	Other forms of tuberculosis	38	35	46	31	48	34	45	40	31	39	34	53	47
	Cancer, malignant tumors	249	234	237	251	232	240	261	265	243	269	264	260	3,00
	Meningitis, simple	109	117	141	177	162	99	90	58	66	62	54	71	1,20
	Cerebro spinal meningitis	75	77	106	127	122	66	54	32	37	39	40	37	81
	Apoplexy, congestion and softening of brain	280	253	257	244	242	192	168	191	194	238	235	278	2,77
	Organic heart disease	503	455	485	499	460	404	452	376	412	455	481	575	5,55
	Acute bronchitis	195	162	187	142	107	66	61	56	53	84	83	123	1,31
	Chronic bronchitis	22	30	32	23	17	21	13	13	10	19	28	26	25
2. I	Pneumonia (excluding broncho-pneumonia)	757	649	749	686	533	308	216	186	217	333	464	669	5,76
2a. I	Broncho-pneumonia	536	535	648	605	506	326	228	228	287	332	390	480	5,10
3. I	Diseases of stomach (cancer excepted)	44	36	43	32	39	38	46	41	46	51	35	37	48
4. I	Diarrhœas (under five years)	127	115	154	162	208	431	1,532	1,426	1,024	520	180	137	6,01
5. I	Iernia, intestinal obstruction	50	46	44	41	59	39	55	52	44	47	44	56	57
6. (	Cirrhosis of liver	84	82	81	80	89	73	75	94	95	98	90	90	1,03
7. I	Bright's disease and nephritis	544	537	560	531	554	443	468	476	450	477	482	586	6,10
8. I	Diseases of women (not cancer)	32	36	26	26	32	26	20	30	24	13	32	29	32
9. P	uerperal septicæmia	30	28	30	31	25	27	17	11	16	13	14	21	26
o. C	Other puerperal diseases	39	43	57	31	47	35	44	46	32	40	35	51	50
	Congenital debility and malformations	402	370	396	372	360	362	397	421	395	410	345	370	4,60
	Old age	68	69	79	75	87	64	53	86	74	79	82	74	89
	Violent deaths	317	312	336	365	444	413	484	494	415	367	392	402	4,74
3	a. Sunstroke					1	5	39	61	6				11:
	b. Other accidents	235	243	242	274	348	336	370	346	343	300	310	322	3,66
	c. Homicide	18	20	21	20	26	21	17	23	23	11	29	24	25
	d. Suícide					69		58	64		56		56	
		64	49	73	71	10.74	686			43	698	53		70
-	dl other causes	760	730	875	797	850	60	795	780	747		705	794	9,21
5. 1	ll-defined causes	45	44	56	53	56		108	192	158	104	41	52	96
			22.2		2.101				0.000	. 0		-60		
7	one year	1,221	1,240	1,330	1,290	1,189	1,215	2,218	2,224	1,843	1,364	968	1,086	17,18
	ear, under two years	403	420	526	485	498	356	438	422	345	279	247	294	4,71
	under five years	2,001	2,032	2,327	2,207	2,111	1,919	3,011	2,861	2,364	1,870	1,436	1,638	25,77
ixty-i	ive years and over	1,038	970	1,046	923	928	747	754	773	743	921	933	1,118	10,89
event	y years and over	701	644	720	617	635	493	486	523	489	614	612	775	7,30
		-	_	-				-	-		-			-
[ales		3,583	3,446	3,853	3,714	3,736	3,140	3,796	3,632	3,308	3,203	3,067	3,570	42,04
emale	es	2,935	2,847	3,251	2,972	2,912	2,454	2,998	2,983	2,713	2,650	2,543	2,897	34,15
colore	d	178	165	184	177	163	156	190	196	159	149	155	184	2,05
	e	8	6	9	9	8	8	5	6	7	6	8	6	8

Actual Number of Deaths from Zymotic and Certain Other Preventable Diseases, by Wards.

BOROUGH OF MANHATTAN.

Wards.	Area in Acres.	Popula- tion by Census of 1900.	Number of Per- sons to the Acre.	Cerebro- spinal Men- ingitis.	Diph- theria and Croup.	Ty- phoid Fever.	Ma- larial Fever.	Measles.	Scarlet Fever.		Whooping Cough.	Diar- rhœal Dis- eases.	Phthisis.	Pneu- monia.	Bron- cho Pneu- monia,	All Causes.	Deaths in Insti- tutions.	Deaths of Children Under Five Years.
First	154.0	9,516	61.8	19	4	4	4.	6	4		5	39	47	43	34	428	63	127
Second	81.0	1,488	18.4	**	1			. 1				1	4	1	1	23		. 6
Third	95.0	1,797	18.9		1	2	1				**	**	15	6	1	86	-6.	5
Fourth	83.0	19,554	235-7	3	24	1		20	2		1	42	104	87	92	701	37	297
Fifth	168.0	8,298	49.4	9	2	4		1	1			15	35	20	12	283	332	50
Sixth	86.0	20,004	232.7	10	6	3	1	16		**	2	. 44	96	71	71	567	18	206
Seventh	198.0	89,237	450.7	36	41	14	1	22	8		13	146	146	114	150	1,511	499	651
Eighth	183.0	29,059	158.8	8	19	4		6	6	**	1	70	80	56	65	626	30	228
Ninth	322.0	59,650	185.2	20	33	15	3	13	8	441	6	155	216	122	95	1,666	509	479
Tenth	110.0	71,879	653.4	22	19	5	1	12	6		10	96	127	74	88	966		401
Eleventh	196.0	99,144	505.8	31	44	12	**	19	8		8	163	135	116	172	1,498	122	704
Twelfth	5,504.0	476,602	86.6	117	142	95	6	102	41	**	48	738	904	714	728	9,872	2,711	3,026
Thirteenth	107.0	64,117	599.2	25	19	9		19	7		1	72	50	48	68	725		339
Fourteenth	96.0	34,035	354.5	21	27	2		22	7	24		112	67	60	164	838		- 484
Fifteenth	198.0	24,066	121.5	11	11 .	8	1.5	5			1	43	69	49	49	541	1	155
Sixteenth	349.0	52,808	151.3	13	9	12	2	18	5		2	88	160	65	79	1,202	26	285
Seventeenth	331.0	130,796	395.1	33	58	12	1	35	10		11	240	226	171	261	2,346	96	1,019
Eighteenth	450.0	61,325	136.3	21	48	9		16	7		8	133	192	104	96	1,737	1,586	595
Nineteenth	1,481.0	257,448	173.8	57	89	41	2	71	16		17	550	705	335	436	6,366	5,025	2,579
Twentieth	444.0	89,798	202.2	31	40	25	1	17	8		6	127	304	149	129	1,946	153	550
Twenty-first	411.0	60,211	146.5	24	31	12	2	17	3		4	135	227	127	63	1,757	2,815	418
Twenty-second	1,529.0	189,261	123.7	34	63	36	5	25 *	20	**	24	259	541	318	287	4,146	843	1,174
Total	12,576.0	1,850,093	147.2	545	731	325	26	463	167		168	3,268	4,450	2,850	3,141	39,831	14,866	13,778

## Borough of The Bronx.

Wards.	Area in Acres.	Popula- tion by Census of 1900.	of Per-	Cerebro- spinal Men- ingitis.	theria	Ty- phoid Fever.	Ma- larial Fever.	Measles.	Scarlet Fever.	Small-pox.	Whooping Cough,	Diar- rhœal Dis- eases.	Phthisis.	Pneu- monia.	Bron- cho Pneu- monia.	All Causes.	Deaths in Insti- tutions.	Deaths of Children Under Five Years.
Twenty-third	4,267.0	132,413	31.0	41	226	36	**	183	43	**	21	269	941	276	153	4,258	1,926	1,267
Twenty-fourth	22,255.8	43,009	1.9	14	26	8	1	16	2	**	13	115	509	177	85	2,019	713	489
Total	26,522.8	175,422	6.6	55	252	44	. 1	199	45		34	384	1,450	453	238	6,277	2,639	1,756

### BOROUGH OF BROOKLYN.

Wards.	Area in Acres.	Popula- tion by Census of 1900.	Number of Per- sons to the Acre.	Cerebro- spinal Men- ingitis.	Diph- theria and Croup.	Ty- phoid Fever.	Ma- larial Fever.	Measles.	Scarlet Fever.	Small-pox.	Whooping Cough,	Diar- rhœal Dis- eases.	Phthisis.	Pneu- monia.	Bron- cho Pneu- monia.	All Causes.	Deaths in Insti- tutions.	Deaths of Children Under Five Years.
First	233.0	20,307	87.2	3	9	4	13	5	···		i	60	22	26	16 .	369	93	152
Second	97 - 7	8,565	87.7	1	1			3	2		1	25	15	24	20	196		80
Third	161.4	17,949	111.2	4	7			4	**	**	4	24	31	28	5	277	58	107
Fourth	111.3	12,568	112.9	5	5	r	2	5	3	4.4	1	26	29	35	11	268	3	99
Fifth	119.4	18,862	158.0	5	8	1		11	3			79	33	36	32	392		209
Sixth	302.9	42,485	140.2	15	27	23	4	17	5		2	99	367	144	93	1,569	838	352
Seventh	458.5	40,471	88.3	3	13	5	2	18	3		2	45	55	64	42 .	619	11	195
Eighth	1,843.2	52,414	28.4	7	47	26	2	10	3		5	124	95	88	90	1,217	155	465
Ninth	623.6	42,876	68.8	6	20	5		11	2		5	66	68	67	37	717	49	224
Tenth	318.7	39,100	122.7	3	26	6		13	1		3	96	80	76	59	749		328
Eleventh	252.6	22,608	89.5	7	4	12	3	9			5	51	49	49	36	613	210	194
Twelfth	663.1	30,354	45.8	2	22		1	21	5	11	11	61	45	55	73	601		278
Thirteenth	230.3	24,029	104.3	5	11	4		2			1	34	37	63	21	562	229	117
Fourteenth	282.6	31,483	111.4	7	24	1		5	2	24	3	121	55	56	62	654		360
Fifteenth	244.8	30,269	123.6	3	19	1	1	3	3		3	67	48	65	44	522		230
Sixteenth	244.8	56,550	231.0	6	24	1 .		5	9		3	102	64	89	53	707	. 2	343
Seventeenth	823.3	57,309	69.6	3	57	10	3	9	13		4	146	89	83	100	1,109		464
Eighteenth	873.0	25,133	28.8	6	23	19	2	3			2	72	111	61	47	793	320	235
Nineteenth	413.8	37,645	91.0	2	18	6	1	4	3		1	37	47	62	25	560	18	167
Twentieth	461.5	25,446	55.1	5	6	8		5			2	54	71	61	36	734	316	176
Twenty-first	483.2	58,957	122.0	9	24	1		- 6			8	65	100	78	46	829	2	282
Twenty-second	1,361.6	66,575	48.8	5	24	10	1	11	4		3	79	102	101	66	1,227	222	313
Twenty-third	736.0	61,813	84.0	5	8	19	1	4	7		6	53	60	71	31	931	155	192
Twenty-fourth	1,198.5	31,767	26.5	7.	17	10	1	6	8	**	7	67	190	83	39	1,077	499	244
Twenty-fifth	567.8	48,328	85.1	2	20	1		5	5		2	41	72	57	30	739	74	190
Twenty-sixth	3,590.2	66,086	18.4	14	48	8	1	27	9		13	167	127	99	132	1,331	94	619
Twenty-seventh	400.7	43,961	109.7	6	26	2		6	3		8	90	73	61	56	713	29	312
Twenty-eighth	884.4	77,912	88.1	11	25	18	1	2	7		5	96	125	98	53	1,366	293	337
Twenty-ninth	3,800.0	27,188	7.2	25	182	23	1	157	150	6	8	69	222	119	44	2,276	1,854	672
Thirtieth	5,404.1	24,700	4.6	1	39	2	1	57	6		5	96	46	65	45	806	240	431
Thirty-first	6,312.3	14,609	2.3	1	5	2	1	2	1		7	40	13	23	11	358	47	130
Thirty-second	5,479.5	8,243	1.5			1			1	,.	1	14	16	10	5	143		50
Total	38,977.8	1,166,582	29.9	184	793	230	29	446	258	6	132	2,266	2,557	2,097	1,460	25,024	5,811	8,547

### BOROUGH OF QUEENS.

Wards.	Area in Acres.	Popula- tion by Census of 1900.	Number of Per- sons to the Acre.	Cerebro- spinal Men- ingitis.	Diph- theria and Croup.	Ty- phoid Fever.	Ma- larial Fever.	Measles.	Scarlet Fever.	Small- pox.	Whooping Cough.	Diar- rhœal Dis- eases.	Phthisis.	Pneu- monia.	Bron- cho Pneu- monia.	All Causes.	Deaths in Insti- tutions.	Deaths of Children Under Five Years.
First	4,650.0	48,272	10.4	4	24	9	**	6	- 4		1	95	83	79	85	1,033	253	327
Second	14,700.0	40,903	2.8	8	42	6	1	7	6		12	155	120	92	69	1,071	0	462
Third	22,000.0	25,870	1.2	2	6	4	1	3	44		2	47	38	30	10	492	100	164
Fourth	36,600.0	30,761	8	2 .	21	8	4	9	5		. 8	97	64	61	36	807	125	258
Fifth	3,770.0	7,193	1.9		1	3	1					20	3	9	12	180	52	43
Total	81,720.0	152,999	1.9	16	.94	30	7	25	15		23	414	308	271	212	3,583	539	1,254

## BOROUGH OF RICHMOND.

Wards.	Area in Acres.	Popula- tion by Census of 1900.	Number of Per- sons to the Acre.	spinal Men-	Diph- theria and Croup.	Ty- phoid Fever.	Ma- larial Fever.	Measles.	Scarlet Fever.	Small- pox.	Whooping Cough.	Diar- rhœal Dis- eases.	Phthisis.	Pneu- monia.	Bron- cho Pneu- monia.	All Causes.	Deaths in Insti- tutions.	Deaths of Children Under Five Years.
First	3,340.0	21,441	6.4	- 8	16	4		5	2		4	43	104	46	28	692	412	128
Second	4,130.0	13,200	3.2	3	3	4	1	1			ì	21	31	10	6	200	37	51
Third	10,050.0	13,701	1.4		1	**		3	2		1	27	21	20	8	201	18	78
Fourth	8,180.0	9,516	1.2	**	5	. 1		1	2		2	68	23 -	8	8	274	106	152
Fifth	10,900.0	9,163	.8	ī	3	1	** 1	2	••		2	14	11	12		121	16	34
Total	36,600.0	67,021	1.8	12	28	10	. 1	12	6		10	173	190	96	50	1,488	589	443

### BOROUGH OF MANHATTAN.

Deaths of Males, by Age, and Cause of Death, for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55-	60.	65.	70.	75.	80,	85.	Col- Cored.	hin
	I. General Diseases.	,												-														
ı.	Typhoid fever	325	206	1	1	1	**	2	5	7	12	21	38	26	30	29	14	8	5	3	1	- 4	2	1			7	
2.	Typhus fever						**							**														
3.	Relapsing fever			**					***					**					*		4.5							
4.	Malarial fever	26	21	2	. 1	1	1		3		**	**	3	1	2	. 4	2	3							1			
5.	Smallpox					**		**	**		**																44	
6.	Measles	463	232	68	101	33	12	8	222	10		**	1.		**												2	
7.	Scarlet fever	167	89	4	14	20	18	6	62	17	7	1			1	1												
8.	Whooping cough	168	83	47	22	8	5	**	82	1	**		٠			**			**								6	
9.	Diphtheria and croup.	731	417	52	132	86	47	30	347	53	6	1	4	2	2		1			1							3	
10.	Influenza	100	44	4		1			5	2		,1	2	1	3	2	4	2	4	3	4	3	2	3	2	1	2	
11.	Miliary fever								**	**																		
	Asiatic cholera											**									**							
13.	Cholera nostras																											
14.	Dysentery	36	16	1	1				2	.,		1	1	1	1		1		3		2		2	1		1		
15.	Plague																											
16.	Yellow fever																											
17.	Leprosy																											
		190	99	32					32		4		2	4	7	12	4	6	10	5	4	7	1	1			1	
19.	Other epidemic diseases	7	2	1					1								1											
20.	Pyæmia, septicæmia	49	32	9	1	2			12				4		1	4	2	3	3	1	2						1	
21.	Glanders	6	6										1			3	1			1								
22.	Malignant pustule	ı	1															1										
	Hydrophobia		3					1	1		1					1												
23.	Actinomycosis	3	1																									
24.	Trichinosis																550											
242.																				0.0								
3	Pellagra Tuberculosis of larynx	23	15												5	5	1	2		2			**	**				
6.	Tuberculosis of lungs		2,887	26	26	. 15	4	2	73	12	16	107	232	350	428	444	319	310	221	164	102	66	26	12	2	3	120	**
27.		467	246	70	48	34	20	9	181	25	5		9	8	5	3	3.9	3.0	1	2			20				130	38
18.	Tubercular meningitis Abdominal tubercu-						1	1	23	7	,	2	,		6	- 3	-	,	2			2		••	••	***	9	*
	losis	110	62	12	5	4			-3	,	,		3	4		3	3	4			2			**	• •		. 1	•
	Potts' disease	36	20		••	**	3						3	-	**	***	3	2					**	**			1	
	Cold abscess	. 4	2	1		**	**				**	**	**		••						**	••	•••	••		1.		
3.	White swelling Tuberculosis of other	23	13	•••	••	••		**		1					**	1	1	-					••			••	**	• •
	organs	26	17	••	**	1	•••	**	1		••		3	1	3	2	2	•••	**	2	1			••	**	••		• •
4.	General tuberculosis	21	10	2	1		**.	**	3	2	2	2	•••	•••	**	_ I	**	**	**		••			••	••		1	••
5-	Scrofula	2	••	**			••	**	••	••	**		••				• •	***			••		••	••	••	••	**	• •
6.	Syphilis	199	120	61	2	2	1		66	1		1	3	8	6	8	4	9	7	4	3		•••	••	••		6	1
7-	Gonorrhœa (adults)	5	3		**	1.03	**	**	**		•••	••		••			••	1	2	**		**	••	••	**	••		*
8.	Gonorrhœa (children) Cancers, etc., of the	5	2	2	**	**	**	**	2	••	**	••	••	**		10.0	44	**				**		**	**	••	**	••
	mouth	57	48			••		**	**		••	••	1	1	***	7	3	3	9	6	4	9	4	••	I		. 1	1
	liver	633	319	1	**				1	••	1	**	4.5	3	7	17	24	35	46	58	43	25	30	20	7	2	8	
	rectum	259	115	**	••	**	••		1.50		**	••	2	2	4	2	9	16	10	21	16	16	13	1	2	1	**	
	ital organs	244	**	**	**	**			**	**		••													****	**	• •	
	Cancer of the breast.																											

1	12382				12.00				THI	E	CI	ΓY	R	EC	OF	RD;	t			1	SATU	JRDA	Y, N	OVE	MBE	R 30	, 1907	7.
	Cause of Death.	Total, Both Sexes.	All	Under I Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	Chin-
	Cancer of the skin	47	32	**	••		**			2	. 1		- 1	1	1	- 1	2	2	3	6	5	6	-1		11			.,
	Cancer of other organs and unspecified Other tumors (except of female genital	259	162	1	1	44	**	••	2	. 2	2	5	5	6	10	7	15	11	15	20	21	20	12	6	2	1	1	1
47.	Acute articular rheu-	23	11	1		**	**		1	1	2	1				2		1		1	••	1	1			**		
48.	Chronic rheumatism and gout	79	32						6	-11	1	1	1	1	5 I			12	3	5	4	6	2	3	1		.,	
49.	Scurvy	6	2	1			1		2							••												
50.	Diabetes	366	165						**			7	5	1	2	12	. 9	19	23	. 26	19	16	17	3	5	1	1	
51.	Exophthalmic goitre  Addison's disease	4		**	**	**	••		**			**	**				•••		**	**	• • • • • • • • • • • • • • • • • • • •				**	••	••	
53.	Leukæmia	42	24			1			1	2				1	1	1	5		1	1	3	3	1	1	1		1	
54.	Anæmia, chlorosis	54	23	1		2			3	3			**	2	1	2	3	. 2	1	3	1	2	•••		***		1	
55. 56.	Other general diseases Alcoholism, acute and chronic	***	***		**	••	**	••	••		••	**		25	53	54	44	50	27		21			•••	••	•••	•••	•
57-	Lead poisoning	392	309																1									
58.	Other chronic poison- ings of occupation. Other chronic poison-	1	1										44				. 1	**		**	**	144				**		
59-	II. Diseases of Nervous System and Organs of Sense.	8	4			**	••	••	**	••	••		••	1	**	1	1			**	**	1	••	••				
60.	Encephalitis	6	3	1		**	**	**	í			1	**	••	••	**	• •		**	••	**	1	2.5					
61. 61a.	Simple meningitis (Of which) Cerebro-spinal meningitis	744 545	304	95 56	45 26	32	19	15	206	69 59	24	28	23	13	5	16	5	5	2	4	1			1			17	
62. 63.	Locomotor ataxia Other diseases of	48	39	***		•••						••	**			1	7	3	6	12	6	1	2		1			
64.	spinal cord Apoplexy, congestion of brain	53	30		**		**	1	1	**	••	**	2	3	13	18	. 46	56	3 86	81	3	4	3	1	***	••		
65.	Softening of brain	1,255	644														1		3		90	93	65	47	24	12	8	3
66.	Paralysis unspecified.	131	74	1				r	2	**				2	5	6	8	10	8	6	11	.6	3	1	2	4	1	
67. 68.	General paresis Other forms of in-	98	57	**	••	••	**	••	**	••	**	••	**	**	3	5	16	9	8	4	4	5	2	••	1			
69.	Epilepsy	71	44	5					5	1	1	2	7	4	6	3	6	1		2		4	1			44	2	**
70.	Convulsions (not puer- peral)	4	2							2		1.															1	
71.	Convulsions of infants	415	223	193	21	7	1	1	223			**	**		••			.,		• • •	**	**		••			8	
72.	Tetanus, trismus	31	18	11		**	**	**	11	1	1		1	1	1	•••	2	••	**	**	**	••	**	**	••	••		
74-	Other nervous dis- eases	122	80			3			3	3	3	2	9	15	11	14	6	5	2	2	2	1	2				2	
	Diseases of the eyes	4	. 1	1					1							••	••											
76.	Diseases of the ears.  III. Diseases of Cir-	149	89	17	7	2	1	I,	28	10	7	7	8	5	8	6	3		2	2	2	••		1	**	. ••	•••	**
0.0	culatory System.								16.	- 12								-		,								
77.	Pericarditis	120	70	3	1	1	1		6	4	4	6	1	6	6	2	6	4	4	6	4	4	2	4	1		**	
79.	Organic heart dis- eases	3,111	1,515	5	3	1	3	2	14	19	27	32	46	61	83	111	125	134	154	156	171	141	119	65	31	26	45	7
80. 81.	Angina pectoris Diseases of arteries,	77	50	**	••	••	**	**	••		**	**	1	1.1	2	3	5	5	7	7	10	4	4	1	1		••	••
82.	aneurism, etc Embolism, thrombosis	235	30	1	1			1	3		2		1	4	4	2	14	13	3	7	3	6	3	14	13	8	8	**
83.	Diseases of veins (hæmorrhoids, var-																							3				
84.	ices, phlebitis, etc.) Diseases of lymphatics (lymphangitis, etc.)	12	6	2		1			4				1							1				1	**	••		•••
85. 86.	Hæmorrhage	75	45	32	1				33		2		1	1	I	3		1		2		1	**				6	.,
	Other diseases of cir- culatory system IV. Diseases of Re- spiratory System.	1	1	I	•••	•••	•••	••	1		•••		ā	••		••	**	••	••	***			**	**	-4.4	••	••	**
87.	Diseases of nasal fossae	1	1	1					1							**											50.	
88.	Diseases of the larnyx Diseases of thyroid	21	12	6	1			2	9			1				1		1			٠.				44.			
	gland	3	2	**	**	**				**					1	99	1	*	**	•••		••	***		**		••	••
90.	Acute bronchitis Chronic bronchitis	642 49	306	194	49	10	4		258	2			**	1		1	2	3	2	4	4	6	3	3	3	5	9	1
92.	Broncho-pneumonia .		1,670	782	406	109	45	20	1,362	29	5	8	6	18	9	12	20	21	22	22	28	37	26	20	14	11	67	4
93.	Pneumonia	2,850	1,678	152	123	52	20	11	358	35	10	27	69	102	126	140	152	134	125	103	110	78	54	29	15	11	63	3
94. 95.	Pleurisy	205	138	15	25	11	5	1	57	7	3	1	.5	6	5	12	9	4	5	10	7	1	3	2		1	4	••
96.	pulmonary apoplexy Gangrene of lung	79 37	37 28	12	t				3		1	1	1	2		2	4	7	1	4	2			4	2.			
97.	Asthma	104	60									1					4	8	6	9	10	8	6	2	3	3		
98. 99.	Pulmonary emphysema Other diseases of re-	77	52	**	••		••	- • •	**	••	**	••	į. ··	**	••	2	3	5	5	6	8	8	5	3	2	5	1	
	spiratory system (phthisis excepted)  V. Diseases of Diges- tive System.	25	16	••	1	**	••		1	••	••	•••	4	3	1	1	3	3	1	1	••	. 1	1	••			1	
00.	Diseases of mouth and adnexa	3	1	1					1	4.			f											**				
01.	Diseases of pharynx	35	24	11	4	1	1		17	2	••		1	2	••	1		••		1	••	••	••	••	**		1	
	Diseases of œsophagus	80	**	**	**	***	**	••	**	**	**	**	**	**			10	10		6			**	2	••			••
03.	Ulcer of the stomach. Other diseases of stomach (cancer ex-	80	55		••		**	**			••				9						3				33			
05.	cepted) Diarrhœa and enteritis (under two years)	115	51	2	1 212	I	**	**	4		1	1	••	2	2	3	1	3	2	9	5	1	8	6	3		45	
	(Of which) Chronic diarrhœa	2,901	1,549		212				1,549								**											
06.	Diarrhœa and enteritis (two years and over)		186						60	12	-			5	9	,	7	16	13	8	6	7	12	6	5	6	3	
	0	367	100			42	15	3		12	3	3						1										
07.	Intestinal parasites	3	3	**		**	1000																					
	Intestinal parasites  Hernia, intestinal obstruction  Other diseases of in-	3 332	172	31	4	2	3	1	41	1		3	3	5	7	10	8	23	12	11	20	11	5	8	3	1	2	2

.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	ī,	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	
110.	Acute yellow atrophy of liver	8	3				* **									1	. 1					**				.,		**
112.	Cirrhosis of liver	503	327								1		1	_ 3	16	38	58	45	49	46	31	20	13	5			8	1
113.	Biliary calculi	107	49	1					1			1		2	2	2	3	6	11	5	4	5	4	2	1			
114.	Other diseases of liver	71	42	2					2		1		. 5	4	2	3	2	4	7	3	3	4	1			1	3	
115.	Diseases of spleen Simple peritonitis (non-puerperal)	5	4 23	3	**	**			6	**				2	2			**			**							**
117.	Other diseases of di- gestive system (ex- cept tuberculosis		-0																									
118.	Appendicitis and iliac abscess	310	7	**					3	15	17	23	19	23	25	17	14	2		6								**
	VI. Diseases of Genito- urinary System.	-	-30										.,	-3	-5	**			,		,	-						
119.	Acute nephritis	336	159	17	4	4	6	•••	31	10	2	6	, 9	10	9	18	9	10	8	15	6	5	7	4			6	
120,	Bright's disease Other diseases of kid-	2,811	1,577	1	••	2	2	**	5		.4	6	23	59	80	127	150	170	178	184	188	163	128	60	34	18	27	5
122.	neys and adnexa Urinary calculus	48	25								**					5	2	1	3	2	1	2	4	1	1	1	••	••
123.	Diseases of bladder	39	28	1	1				2	1						1			3	1	2	4	4	5	4	1		
124.	Diseases of urethra, urinary abscess, etc. Diseases of the pros-	29	20									**			2	2	4	1	4	3	1	2	1					
126.	Non-venereal diseases of male genital or-	43	43		••			••	••	•••	•••	"	••	1	1	1	1	1	**	. 2	8	7	8	7	5	1	**	••
	gans	2	2	1			••		1	••	**								1									
12%.	Metritis Uterine hæmorrhage (not puerperal)	3	•••								•••	••			•••		**					•••		***				**
129.	Uterine tumor (not cancer)	58																										
130.	Other diseases of uterus	16																										
132.	tumors	19		**		**	**						**			**	**				**			**	**			
133.	male genital organs Diseases of breast (not puerperal, nor can-	80	**	***			**	••	**	••	••	**	••	**	••	••	•••			**	•••	**	••		••	••	**	••
	VII. Puerperal Diseases.	1		••	••	• • •		••		••	• •	**	••	**	••	••	**	•••		**	••	••	**			**		
134.	Accidents of preg-																			-								
135.	Puerperal hæmorrhage Other accidents of	28				.,		**																				
127.	Puerneral senticemia	71 132				**			•••		••		**	••		••	••			**							- 11	
138.	Puerperal albuminuria and convulsions		.,																									
139.	Puerperal phlegmasia alba dolens Other accidents of	2			**	**			147	••																		
141.	parturition, sudden death		**														.,	**				••						
	VIII. Diseases of Skin				**			•••		**		•••		***						**:	***		••	••				
142.	and Cellular Tissue.	47	19			-							1					1			2	2	3	2		,	- 11	11
143.	Carbuncle	15	11	1					1						1	1			2	2	1	1	1	1				
145.	abscess Other diseases of skin and adnexa	75 31	48 * 14	14				**	14	1	2	3	1	2	5	6	2	5	2	2	2			1			3	**
	IX. Diseases of Loco- motory System.	3.		,										-											-			
146.	Diseases of bones (non-tuberculous) Arthritis, other dis- eases of joints (ex-	48	36	10	6	1		1	18		2	3	1	1	4	1	2	1		1	I		1	**	•••		3	
148.	cept tuberculosis and rheumatism)	10	6	1				••	1		r		·	1			1	1						••	•••	**		**
149.	Other diseases of or- gans of locomotion.																								**			
150.	X. Malformations.  Congenital malformations	302	182	166	5	4	5		180	1			1							**							3	
151.	XI. Diseases of Infancy.  Congenital debility, icterus and sclerema	2,250	1,223	1,220	2	1			1,223									1.2.		* 0 =							50	
151a. 152.	Injury during birth Other diseases pecu-	139	82	82					82	.,						**											1	
	liar to infancy	17	13	13	**	••	••	••	13		••		••		••	••				**		••	••	••	••	••	1	•
	XII. Diseases of Old Age. Senile debility	328	,			•						••				•					6							
	XIII. External Causes. Suicide by poison	71	45									***	2	5	10	6	8	6	2	3	2	10	18	18	27	18		
156.	Suicide by asphyxia Suicide by hanging or	120	86	**		••	**	••			**		8	9	4	11	11	13	6	12	6	4	2	**			**	
158.	strangulation Suicide by drowning.	30	26	**	**	**	**	**	**	••	••	••	1	2	5	7	4	1	2	1	1	1	11	**	1	••	**	1
159.	Suicide by firearms	107	99		**							4	14	11	11	11	7	9	10	8	8	1	2	2				
160.	Suicide by cutting in- struments Suicide by precipita-	22	19												3	2	3	4	3	1	2				1			1
	tion from height	29	18	++			••						2	2	2	5	1	3	11	**	1	2			**		2	1
162. 163.	Suicide by crushing Suicide by other methods	1	1		**	••	**	•••	**	**	• •	••	***	••	**	**	**	••	1	**	••	**	••	**	•••	••		
164.	Fractures	76	57											3		8	12	3	7	3	2	4	1	1	1			
165. 166.	Dislocations Other accidental in-																											
	juries		1,005	6	11	15	17	28	77	100	45	56	80	99	119	100	87	61	53	34	39	29	18	4	3	1	29	
167.	Burn, by fire, scald Burning by corrosive substances	174	78	7	12	12	13	5	49	8	2	**	2		5			1	2	3					**	1	3	
169.	Sunstroke	70	38	6			1				••		1	•	5	5	5	6	5		1						1	
170.	Freezing Electrical shock	1	1 8	10	••	**	**	••	••	••	10.0	**				10		1	. 44		••	**	**		••	**	•••	
_	Electrical shock	-			1.	-	••			••	-			-	3_	-	-	•••	-				**		••			

I	2384		1		4.				TH	E	CIT	LY	R	EC	OI	A D	•			- 1	SATU	JRDA	Y, N	OVE	MBEI	R 30	, 1907	
	Cause of Death.	Total, Both Sexes	All Ages.	Under Year.	I.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55	60.	65.	70.	75.	80.	85.	Col- Cored.	
72.	Accidental drowning.	219	205	1	1				2	16	12	15	12	23	22	19	26	15	14	19	4	4	1			1	3	-
73.	Inanition (starvation) Inhalation of noxious gas, not suicidal	155	108							.,			17	10	10	13		6			3	4		4			6	
75.	Other acute poisoning Other external vio- lence(Of which)	48 218	25 134	13		3			7 16	2	g.	5	23	4 18	20	3 13	11	10	3 6	3	3						10	
	a. Homicide, by blows b. Homicide, by sharp instru-	26	20	**		••				••	••		4	2	2	1	3	4		2	· i		e				•	
	ments c. Homicide, by	27	24							1	**	1	7	4	5	1	3	. 1	1		**			180	- 19			-
	gunshot d. Homicide, by	78	55	11				**	**		**	3	13	11	8	8	4	4	2	1	1	••			700	••	4	
	poison e. Homicide, by	2	. 2	**					**	**	••	**		***		1	**	**	•••	• • •	1						••	3
	other methods,	9	. 2	1	**				1		**		**	**	1		••			**	**	**	**		•••	**	*	
	XIV. Ill-defined or Not Specified Causes.																											
	Dropsy	**	••		**		••	**	••	**	**	••	. **	**	**	***	**	**	• • •		••	**	**	**	**	••	••	
,	puerperal		**	- 11				**			**			**	••	••	**				**							
1.	Ill-defined causes	548	283	249	26	2	4		281	••	11	1		•••		1		**			**		••	**	**	••	11	
_G	eneral diseases	10,486	5,988	401	356	211	115	63	1,146	170	70	160	331	459	585	632	483	513	408	360	262	197	119	56	25	12	188	4
	a. Tuberculous dis- eases	E 160	3,272		80.	54	28	13	286	56	25	112	251	366	447	459	331	325	225	172	105	68	26	12	2		144	
	b. Cancer			2	1			1.	3	4	4	5	9	13	22	34	53	67	83	111	89	76	61	27	12	4	10	
	Diseases of nervous sys- tem and organs of sense	3.180	1,743	331	74	44 -	21	19	489	87	36	42	51	45	55	73	111	97	124	113	123	118	78	53	29	19	40	
	-Diseases of circulatory system		- 27		6	3	5	3	63	24	36	38	53	74	100	129	151	161	182	181	202	173	144	88	47	34	60	
	-Diseases of respiratory system	4.		1,164	606	184	75	35	2,064	74	19	39	81	133	143	175	200	188	168	162	173	148	111	67	41	44	145	
	Diseases of digestive system			1,390	222	46	22	6	1,686	31	23	34	35	54	78	83	106	123	111	97	83	53	47	32	14	10	65	
	-Diseases of genito- urinary system				5	6	8		39	11	6	12	33	71	94	155	166	185	198	208	208	184	153	80	45	21	33	
I	-Puerperal diseases	398						++		**		**					**				44				3.44			
II.	-Diseases of skin and cellular tissue	168	92	24	2	44			26	1	2	3	2	2	6	7	2	7	4	5	6	4	4	4	6	1	3	
-	-Diseases of locomotory system	58	42	11	6	1		1	19		3	3	1	2	4	1	3	2	**	2	1		. 1				3	
-1	Malformations	302	182	166	5	4	5		180	1			1			**	**				**						3	
.—	Diseases of infancy	2,407	1,319	1,316	2	1			1,319						***	**								4.0			52	
I	-Diseases of old age	328	100			**	**	**					**	**	**	**	**	**		3	6	10	18	18	27	18	**	
II.	-External causes	2,569	1,956	39	27	31	33	34	164	129	60	84	168	193	224	204	190	141	125	94	74	53	32	11	7	3	57	
	a. Suicide	385	297	**					**		1	4	28	29	35	42	34	36	25	24	20	10	5	2	.2	• •	3	
	b. Homicide	142	103	1	* **	**	••	**	1	1	••	5	24	17	16	11	10	9	3	3	3	**		••	••	**	6	
	c. Accident	2,042	1,556	38	27	31	33	34	163	128	59	75	116	147	173	151	146	96	97	67	51	43	27	9	5	3	48	
V	-Causes Ill-defined	548	283	249	26	. 2	4		281			1				1	**									.:		•
al	males		22,184		1,337	533	288	161	7,476	528	255	416	756	1,033	1,289	1,460	1,412	1,417	1,320	1,225	1,138	940	707	409	241	162	660	7
al	females		17,647	4,307	1,186	430	225	154	6,302	402	269	383	693	809	835	869	888	810	862	838	955	866.	721	518	341	286	591	3
	Total both sexes		30.821	0.464	2,523	063	513	315	13,778	030	524	799	1,449	1,842	2,124	2,329	2,300	2,227	2,182	2,063	2,093	1,806	1,428	927	582	448	1,251	7
	Total Dotti sexes		39,031	9,404	-,5-5	903	2.3	212	-31/10	320	3-4	139				2-3		-			, ,,,					140	., 5.	

## BOROUGH OF MANHATTAN.

Deaths of Females, by Age, and Cause of Death, for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	r.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	hin- ese.
	I. General Diseases.																											
ī,	Typhoid fever		119		2	1		2	5	7	14	17	18	17	14	6	4	6	3	1	3	3			. 1		5	
2.	Typhus fever						***						**	**	**	***	**		**	**	• •						**	
3.	Relapsing fever						**							**	• •								**					
4.	Malarial fever		5				1		1			1	1			**	r	1										
5.	Smallpox			**							**			- **					**									
6.	Measles		231	70	93	38	13	9	223	5	2					1									24		3	
7.	Scarlet fever		78	11	7	10	8	9	45	24	4		4	1													1	
8.	Whooping cough		85	41	22	10	3	5	81	4																	1	
9.	Diphtheria and croup		314	42	81	54	45	30	252	48	6	4	2	1	40			1							***		4	
10.	Influenza		56	4.	1	1			2		1	x	**	2	3	2	2	8	3	6	5	7	2	6	4	2	5	
11.	Miliary fever																•••			**								
12.	Asiatic cholera				**		***																					
13.	Cholera nostras																											
14.	Dysentery		20	2					2						1	2		1	1	3	3	1	3	1	,1	1		
15.	Plague																**		**	10								
100	Yellow fever																											
	Leprosy																**	44	**									
			91	47	3	1			51		1	2	2	3	2	6	2	6	4		5	3	2	2				
19.	Erysipelas Other epidemic diseases		5	3	1				4					**				1		**								
20.	Pyæmia, Septicæmia		17	9	1				10				1	1			1	2		**	2							
	Glanders												*															
	Malignant pustule																										**	
	Hydrophobia		2			I		1	2						**													
	Actinomycosis		1			*																1				088	4.	
	Trichinosis		1												1													
7.00	Pellagra	••																										
	larynx	**	8		**	**	**		**			120	-		-		1.5			6.0	22	100		2.2	17.3	100		100

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- ored.	Chin- ese.
27.			1,563	18	16 43	10	6	, 11	52 158	17	34	. 130	234	260	215	191	133	97	63	61	41	17	11	6	1		111	
29.	Abdominal tuberculo-		48	8	1	2		1	12	2		4	4	8	4	4.	4			1	.1	1	1				3	,
30.	Potts' disease		16				1		5	2	5	1		**	3					1	1				**	**	1	
32.	White swelling Tuberculosis of other		10						1	3	4				1					1						**		
34-	General tuberculosis		9	2		1		**	5				1 2	1 2	2	1		**		**			**		**	**	1	
35.	Scrofula		2	2	***				2								••	**		• • •		١						
36. 37.	Syphilis		79	63	4	**		••	68		***		1	1	1	3	1	. 2	2	**	**	**	**		**	**	4	
38.	Gonorrhea (children)		3	3					3		**						**								**			
40.	Cancer, etc., of the mouth		9		**	**	• • •	**			**	••				8	27	2		1	1	1		1	. 1		**	
41.	Cancer of intestines, rectum Cancer of female genital organs		314				1		1			1	1	4	4	8	16	32	22	15	43	10	7	6	4	2	2	
			244			••	**				1	2	2	4	16	21	32 16	43.	36 19	30	29	12	7	4 2	3	2	4	•
44.	Cancer of the skin		130				**		1			1				1		1	2	2	2	2	1		1	1		
45.	Cancer of other organs and unspecified		97	1		. 1	I		3			2	3	2	5	6	16	15	10	10	11	5	2	6		1	1	
46.	Other tumors (except of female genital organs)		12									440		ı	2	1	i	2	2	1		1				1		
47.	Acute articular rheu- matism Chronic rheumatism		122		1	2		1	4	18	20	9	3	9	7	6	6	7	5	4.	9	6	3	5	**	1	5	
49.	and gout		47	**	**		**				3	1		3	1			3		3	7	5		4	4	3		
50.	Diabetes		. 201							1	1	3	4	6	1	8	2	14	31	23	36	30	22	14	2	3	1	
51.	Exophthalmic goitre		21	••	**	**	**	**		••		3		1	2	2	3	1	2	4	2	1	**	**			1	
52.	Addison's disease Leukæmia		18	1				1	2	2	1			2	2	2	1	2	2	.,	1	.,	ī				1	
54.	Anæmia, chlorosis Other general dis-		31	4	1		**		5	**	••	1	2	1	3	2	4	2	4	2	1	I	2	1		**		
	Alcoholism, acute and chronic		83				* **		**		**		6	6	22	17	16	6	6		2	1				**		
57.	Lead poisoning Other chronic poison-					***							**												٠			
	Other chronic poison-			••	**	55	***	•••	**	**			::					**		**				1				
	II. Diseases of Nerv- ous System and Or- gans of Sense.															•		40										
61.	Encephalitis Simple meningitis		328	82	62	24	21	9	198	42	28	19	9	7	7	2	4	3	3	2	2	1	1				10	
61a	. (of which) cerebro- spinal meningitis		241	46	45	18	16	7	132	37	25	18	7	6	7	1	2	. 2	1	1	1		1				9	
62. 63.	Locomotor Afaxia Other diseases of spinal cord		9 23	**		••	**		•••	**		* >.	1	2		2	3	3	3	. I	3	3	**					
64.	Apoplexy, congestion of brain		611	5	2	1	.,		8		1	2	2	2	11	21	30	43	72	69	78	85	81	60	33	13	29	
65.		**	13		**			**				••		*		1	1 2	1		7	3	6	1 0	6	6		1	
66. 67. 68.	Paralysis unspecified.  General paresis  Other forms of in-	***	41		2					1				3	4	6	8	6	1	3	3	2			3	1	3	
68.	sanity		12										1	1	4	4				•••		1	1	**	••			•
69. 70.	Epilepsy		27	••	1	**	-11	1	2	1 2	2		3	5	2	3	4											
71.			192	156	23	8	3	2	192				••														4	1
72.	Tetanus, trismus	•••	13	- 4	1	1	**	**	6	1			••	1	1	,11	**			2	1	**	**				**	
73-	Other nervous diseases		42				1	2	3	3	2	1	2	6	4	2	6	4	3		2	2	1	1	44		1	
75.	Diseases of the eyes		3	1	1				2						**	4,1	**				1		**		••	**		
76.	Diseases of the ears.  III. Diseases of Circulatory System.  Pericarditis		60	15	9	4	2		30	3	4	2			. 3		1	2										
78.	Acute endocarditis	544	50	2		1		1	4	7	3	3	. 4	3	. 2	7	2	1	3	2	3	3		1	1	1		
79.	Organic heart diseases		1,596	6	2	2	3	3	. 16	34	43	41	69	65	82	95	98	100	145	131	186	164	142	88	52	45	58	
80.	Angina pectoris Diseases of arteries, aneurism, etc		93							**				1	1	2	3	2	3	6	12	16	16	9	12	10	3	
82. 83.	Embolism, thrombosis Diseases of veins	**	41	2	r		••		3				•••	•••		5	2	5	2	8	6	3	2	3	2		1	
	Diseases of veins (hæmorrhoids, va- rices, phlebitis, etc.) Diseases of lymphatics		6				•••	-1.		1			••			1	1		1	í	1	**			.,			
3.0	(lymphangitis, etc.)	2/	8	5	2	1	••		8	**	**			**.		.,	**	2						.,				
85. 86.	Hæmorrhage Other diseases of cir- culatory system		30	23			٠.										٠٠,											
	IV. Diseases of Respiratory System.																											
87.	Diseases of nasal fossae								**				2.2	**									**			••		
88. 89.	Diseases of the larynx	44	9	3	1	1	1	**	6	1	**			1	••	**	**.	1	- * *	100	**	• •	**	**	**		• •	
	gland	**	336	168	65	14	5	2	254	1	1	3	-		1	1	1	3	3	4	11	16	7	11	13	6	5	
91.	Chronic Bronchitis	1 14	19								1	••			**	1				2	2	2	2	5	4			
92.	Broncho-pneumonia. Pneumonia		1,471	651	349	94	36	7	269	17 26	5	4	35	52	59	65	67	63	70	94	90	90	67	42	23	26	55	
93.			67	9	13	7	5	1	35	4	1		7	5	1	3	4	2	2	1	**	2		•	• • •	1243	1	
95.	Congestion of lungs, pulmonary apoplexy		42	. 8	••	**	**	***	8	. 1	**			2	••		2	**	1	2	3	2	8	3	4	5		
96.	Gangrene of lung		9						-		- 40		- (4)			**	2	4	.5	4	9	8	3	3	2	2	1	
98.	Pulmonary emphysema		25							, 40				**	1	1		1	1	2	4	4	6	3		. 2		

	1	2386		1				-10		THI	E	CI	ΓY	RI	EC	OF	RD.				5	SATU	RDA	Y, N	OVE	MBE	R 30	, 1907.	
		Cause of Death.	Total, Both Sexes.	All Ages.	Under I Year.	1.	2.	3.		Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45-	50.	55.	60.	65.	70.	75-	80.	85.	Col- Cored.	
9	9.	Other diseases of respiratory system (phthisis excepted)		9	1.	••												1	1	1	2	2						1	
10	0.	V. Diseases of Diges- tive System.  Diseases of mouth and adnexa																			1					- L			3
. 10	1.	Diseases of pharynx		11	1	1					3			****	3	1	1	1.0		. 1		- 1	10						
10		Diseases of œsophagus	***	**	14.		**		••	••						**-									111		- 44	•••	**
10		Other diseases of stomach (cancer ex-		25	••	**					**	***	3				2	6		-		-					700	1	• • •
10	5-	Diarrhœa and enteritis (under two years)	**	1,352	1,144	208				1,352			7.7			3	2	4	3	5	4		6	5	6	5	6	26	
70	6	(Of which) chronic diarrhœa														44													
10	٠.	(two years and over)		181			24	10	8	42	10	- 4		3	6	5	5	3	5	16	13	12	16	16	7	10	7	1	
10	7.	Intestinal parasites Hernia, intestinal ob-					**	•••	•••								,		***						8		**		•
10		Other diseases of intestines		160	18					20	3		••		.10	1	12	15	13		12	13	14	13				1	
11	0.	Acute yellow atrophy of liver		5				1		1	••		**	3		••	••		••		••	1				٠.,	31		••
		Hydatid tumor of liver Cirrhosis of liver	**	***	••	• • •			••	••							24	33	25		13		13.	6				3	**
11		Biliary calculi	**	176 58										1.	2	3	7	4	. 9	8	7	8	2	3	1	1	2	1	
11		Other diseases of liver		29	**	1				1	1	**		••	1	**	2	6	4	4	2	3	••	2		2	1	1	••
11		Diseases of spleen Simple peritonitis (non-puerperal)		1 22	2					2	4				4	4	3	3				1							
11	7-	Other diseases of di- gestive system (ex- c e p t tuberculosis																					,						
11	8.	Appendicitis and Iliac abscess		117			•••				10	20	10	13	10	9	12	10	7	5	4	3	1	2	1	٠٠,		4	**
11	9.	VI. Diseases of Gen- ito-urinary System.  Acute nephritis		177	16	10	6	6	1	39	8	6	5	12	11	9	13	20	11	7	16	10	6	4	4	1	1	11	
12		Bright's disease Other diseases of kid-	•••	1,234	1		**			1	6	4	9	29	53	68	86	119	100	120	127	120	126	107	81	45	33	34	**
12	2.	neys and adnexa		23			**							1	1														
12		Diseases of bladder Diseases of uretha,		11				r		1	.,				••	1	••	1		1	1	•••	1		2	2	1	2	**
12		urinary abscess, etc. Diseases of the pros-	••	9	••	••	**	••	••	••			* **																
12	6.	Non-venereal diseases of male genital organs																				*	4.4			94-			**
12		Metritis Uterine hæmorrhage	**	••				4.6	***		••	••		**		••		**	**		••	••	**	**	••	••	••		**
12	9.	(not puerperal) Uterine tumor (not cancer)		58											2	8	10	17	10	4	4	1		1		1		4	
130		Other diseases of uterus Ovarian cysts and	4.	16						/			I	. 3	4	1	3	3		1				4.				2	
13:		Other diseases of fe-	••	19					**	**	**		6	4 22	13	15	13	10		3	2	2	**	**	**	••	••	1	**
13:	3.	male genital organs Diseases of breast (not puerperal, nor cancer)		80												1												1	***
12		VII. Puerperal Dis- eases.  Accidents of Preg-																											
		nancy Puerperal hæmorrhage	**	100	**	••	**	**	**		**	**	2	19	7	25 7	16	4	2									3	**
135	6.	Other accidents of labor		71									2	10	15	12	25	6	1									2	
138	7.	Puerperal septicæmia. Puerperal albuminuria		132				••		**			11	33	30 16	31	16	9	1	1	••	••		••	••	••	••	3	**
139	9.	and convulsions Puerperal phlegmasia alba dolens		65									4		2														**
14	0.	Other accidents of parturition, sudden death				***																		٠					**
. 14	1.	Puerperal diseases of breast															**								•••				
		VIII. Diseases of Skin and Cellular Tissue.												1						1	1	7	6	ż				•	
14	3.	Carbuncle		28	3					3													1						
14	4.	Phlegmon, acute abscess Other diseases of skin		27	8 .		1			. 9		1	2	1	••	1	3	**	3	.1	1	1	3	••		1	••	**	
		and adnexa  IX. Diseases of Loco-	•••	17	12	1	••	•••	••	13	**	**	••	1	••	1	••		• •		1	••	••	••	1	•••			**
14		motory System.  Diseases of Bones																											
14		(non-tuberculous) Arthritis, other diseases of joints (except tuberculosis	"	12	5	3	••	**	••	8	••	••	2		1		**	••	••	1		**	••				**	1	•
14	8.	and rheumatism)		4						2							**								.,			**	
14	9.	Other diseases of or- gans of locomotion.												••			••					**	.,						
15	о.	X. Malformations.  Congenital malformations		120	114	5				119			1				4.	**									-		
		XI. Diseases of Infancy.							*																	4.			
15	1.	Congenital debility, icterus and sclerema		1,027	1,024	2		1		1,027								1.				.,						45	
15	ıa.	Injury during birth Other diseases peculiar		57	57					57				••	••												*		
		to infancy		4	4					4					**	3.	**	**	••	***		44	**	••	***	••			
15;		Neglect	••	•••		••	**	**	**		**	**	••		R35		**	**		-		**			***		•••	••	
15.		Senile debility XIII. External Causes.		228	**			••	**	**		••		••		••		**			1	8	32	43	47	43	64		••
		Suicide by poison	**	26	••		••	**	**	••		•••		6	3	5	1	4	6	1	1	2				**	**		
15	0.	Suicide by asphyxia	**	34	**	11	**	**	**		**					,	3							-				-	

5	SATURDAY, NOV	ЕМВЕ	ER 30,	1907.				7	CHI	E (	CIT	TY	RI	EC	OF	RD.	4		4							1	2387	
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hir
57-	Suicide by hanging or strangulation		4										3															
58.	Suicide by drowning		. 2							**			14.	2														
9.	Suicide by firearms Suicide by cutting in-	**	. 8			**			11				**	2	2	1	2		1		**					**	****	
	Suicide by precipita-		3	••		•••	••	••	••	••	••		**	**	1				2	**	**	•••		• • •	**	**	••	
2.	tion from height Suicide by crushing		11			**										3										*		
3.	Suicide by crushing Suicide by other meth- ods																									٠.,		
4.	Fractures		19			1		4.4	1	1	1		**			30	3	2	••		1	4	1		5			
5.	Dislocations Other accidental in-	••		**					**	••		••						**		**					**	**		
7.	juries Burn, by fire, scald		208 96	3	. 8	12	6	10	34	17	3	3	3	5	5	2	12	5	4	10	19	3	3	6	3	5	5	
7· 8.	Burning by corrosive substances																								4.44		44	
9.	Sunstroke		32	6	1				7	1			2	3			2	r	1	r	3	3	2	2	2	2		
0.	Freezing					2.	**					••	**	• •				**		••		••			**	**	••	
1.	Electrical shock	••		**		**		•••	• •		**	••	••	••	•••	••	•••	**	•••	••	••	•••	••	••	• • •	**	••	
3.	Accidental drowning.  Inanition (starvation)		14			**			**	**	2			4			1		1									
4.			47		· 1	x		1	3	4		4	2	6	2	1	6	4	6	1	4	2		1	1		3	
5.	Other acute poisoning Other external vio-		23	1	**		1	1	3	**	1	1	4	5	4	2	1		1			1				**	. ,.	
٠.	lence(Of which)		84	16	1	1	1	**	19	••	••	4	17	7	14	6	5	3	1	4	2	***	2	4.	••		7	
	a. Homicide, by		. 6	2			1		3							1	1		44		. 1				٠			
	b. Homicide, by sharp instruments		3	1					1						1		1										1	
	c. Homicide, by gunshot		23					**				1	6	5	6	2	1	1		I	**	••	•		**	• •	4	
	e. Homicide, by	**	**			••		**	• •	• •				**	11	**	•••	••	•••	••	**		•••	•••	••	••	**	
	other methods		7	3	* *	15.4	**	**	3		••	**	1	1	••	••	**	1	**	1				• • •	**	••	•••	
7.	XIV. Ill-defined or Not Specified Causes. Dropsy																											
8.	Dropsy Sudden death, not puerperal																											
).	Ill-defined causes	٠.,	265	233	26	3	1		263	1	*	**		**					1	••	**		**	•••	**	**	12	
	7 10	-		==		-	_	_		==	_		304	348	330	316	292	295	272	235	242	158	110	75	30	23	175	Ī
	General diseases a. Tuberculous diseases		4,498	381	62	173	94	75 16	233	158	56	198	252	277	229	200	138	98	64	64	43	18	12	7	1		130	
	b. cancer		953	2		1	2	1	6		1	6	8	14	36	56	. 108	131	143	123	123	80	55	34	17	12	10	
	Diseases of nervous sys- tem and organs of																			32								
ı	sense  Diseases of circulatory		- 25		101	38	27	14		54	38	26	24	30	37	45	61	69	91	88	104	103	95	70	43	16		
	-Diseases of respiratory system			38 950	528	152	62	32	1,724	50	47 25	46	73 53	74	88 74	84	97	93	99	132	155	190	165	106	68	56 59		
	Diseases of digestive		2,211		211	25	13	10	1,428	34	26	14	34	50	50	71	84	67	69	56	60	53	48	24	21	22		
[	-Diseases of genito- urinary system			17	10	6	8	1	42	14	10	24	76	90	107	132	172	129	138	145	134	134	112	89	50	35	66	
Ι.	-Puerperal diseases		398			**	**					20	85	101	89	69	28	4	2		••	••	••	**	• •		10	
	.—Diseases of skin and cellular tissue		76	23	ı	2	r	**	27		1	2	3		2	3	I	3	2	5	8	10	2	2	1	4		
	-Diseases of Locomo- tory system		16	6	3			1	10			2		1	1				1					44	1		1	
-	Malformations		120	114	5				119			1	• •	••	**	••		**	••		•••	••		••		• •		
	-Diseases of infancy	••	1,088	1,085	2		1		1,088	**					••	** ,		**		**		••	***	• •	**		45	
	—Diseases of old age	• • •	613	28	14	27	15	16	100	47	12	23	41	46	57	36	46	37	31	24	33	22	43	47	15	7	16	
	a. Suicide		88									2	10	10	16	10	12	10	5	6	4		2	1				
	b. Homicide		39	6			1		7			1	7	6	7	3	3	2	.,	2	r				.,		5	
	c. Accident		486	22	14	27	14	16	93	47	12	20	24	30	34	23	31	25	26	16	28	25	20	10	15	7	11	
V	.—Causes ill-defined	**	265	233	26	3	1	44	263	1		**		**		**	**	**	1							**	12	
	Total males	-		_								-																
	Total females		17,647	4,307	1,186	430	225	154	6,302	402	269	383	693	809	835	869	888	810	862	838	955	866	721	518	341	286	588	
	Total both sexes													••	••													
-					n th -	of Mr.	les 1	, A.	and t				THE for the			ding	Decer	nber	31. 1	006								

	Cause of Death.	Total, Both Sexes.	All . Ages.	Under Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80,	85.	Col- Cl ored. e	hin-
	I. General Diseases.																						V 102					
1.	Typhoid fever	44	21	• •		1	**	**	1	1			6	4	2	3	2	•••							••		•	
2.	Typhus fever	*.*	••	• •	••	••	**	**		**	* **	••	•••		•••	**	•••	**		••	**		••	•••	* **		**	
3.	Relapsing fever								••	••	••	••	••	**	**	***	**	**	**	••	••	••	**			**	**	
4.	Malarial fever	1	1	1				**	I				••		••	**	**	**	•••				**		••	**		
5.	Smallpox							**	**							**		• •					•••		••			
6.	Measles	199	94	20	32	21	8	2	83	4		2	2	1	1	1				•••							2	
7.	Scarlet fever	45	21		2	2	2		6	9	2	3		1									•••				**	
8.	Whooping cough	34	12	4	3	3	1		11	1			1 69								••		**		••			
9.	Diphtheria and croup.	252	142	ii	40	32	16	12	111	21	5	1		2	2					***					**			
10.	Influenza	16	8		1		1		2			144						2		1		1		2				.,,
11.	Miliary fever																											
12.	Asiatic cholera																											
13.	Cholera nostras											44																
14.	Dysentery	18	9	4		2			6												1			2				
	Plague	••													••			٠.										

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-	12388			- 1		1	-		THI		01	1.1	n	EU	01	CD	•		15 7		SATU	RDA	Y, N	OVE	MBE	R 30	, 1907.	
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	ı,	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Chi	in-
16.	Yellow fever				.,			٠.,						1.				.,		٠.,		,,				۸.,		
17.	Leprosy	12	2			**		••	**	••	**			. **	98					**			**				5 80	
9.	Other epidemic diseases										•			**	**							**		**		1		**
٥.	Pyæmia, septicæmia	4	3		. 1				2					1														•••
	Glanders							**.			**	• • •											**					
	Malignant pustule				••	••	••	••	•••		••	***			**	**				••			**					
	Hydrophobia Actinomycosis	3	2	**	**		**								**		**	•••	**	**	••	**	••	**		**		••
	Trichinosis																					100						
	Pellagra				**		**		***																		*	
	Tuberculosis of larynx	5	4		**	••	••			**	**		••	••	1		1				1			1				
7.	Tuberculosis of lungs.  Tubercular meningitis.	1,450	927	2	3	1	6	1	25	1	9	42	73	122	168	163	116	91	65	35	18	10	. 5	X.			29	••
).	Abdominal tuberculosis	13	33	3	1			5	3	1				3		2						**		**	**	••	1	••
	Potts' disease	3	2	**							1	1																
	Cold abscess										**																	
	White swelling Tuberculosis of other	4	2	**	**			••	••	1	1	••	••	**	••				**	14.								
	organs	**	**	••	••	•••	•••	••	••	**	••	**	••	••	•••		••	••	**	••	••	- **	••			**	7.0	.,
	General tuberculosis Scrofula	3	2		**								**	**	2	**	**	••	•••	••			**		••	**		••
	Syphilis	18	11	4					4					2		1	2		1			**	**	**	••	**		•••
	Gonorrhœa (adults)																									**		
	Gonorrhœa (children) Cancers, etc., of the			**	**			**	**	••					,,								**					
	Cancer of stomach,	9	7	**	••	••	••	**	••	••	••	••		••	**		2	••		44	4	1		**	**	**	** (	
	Cancer of intestines,	93	16	••	**									••	**	1	5	4	5	7	8	5	3	5	1	**		•••
	Cancer of female gen- ital organs	35													4.						4	2			•••	**	**	
	Cancer of the breast.	26																										
	Cancer of the skin Cancer of other or-				••	**	••	**		••		••		••	••					**					++			
	gans and unspecified Other tumors (except	32	22	••	••	••	••		**		**		2	••	••	2	2	2	3	3	4	3	. 1				1	٠.
	of female genital organs)	3				••			.,				- **	**													**	
	matism	26	16	I	**	••	••	••	I	4	1		1		1	2	2	••		**	2		1	1	**			
	and gout	20	4	**	**	**		**			**	••	••	**	1	1	••	••		1	1		••	••	**	**	* ***	••
	Scurvy	39	13							**			1				1	1	2	2	4				**		**	
	Exophthalmic goitre	1																										
	Addison's disease	1				**			++,					**	**													
	Leukæmia	9	6	.,	**	**	•••	••	••		••	**	**	**	1	••	2	**	2		1		1.1		••	••	••	••
	Anæmia, chlorosis Other general diseases	9	2	**	**	**	**	**	**		**				**		1	**	**	1	**	••	••	**	**	••	**	
	Alcoholism, acute and	33	29		**								2	1	2	7	5	6	2	3	1							
	Lead poisoning				**																		.:					
	Other chronic poison- ings of occupation. Other chronic poison-	4.6	**	** ,									••	**				••					**					
	ings	**	**	**	••	••	••	**	**	••		••	••	**	**	**	••	**	•••	**		••	**	**	••			
	II. Diseases of Nervous System and Organs of Sense.	-							+																			
	Encephalitis	1	**		••	•••	**			**	**	••			••	**	••	••	••	••	•••	••	••		••	••		
- 1	Simple meningitis Of which	94	52	14	7	**	3	7	31	3	3	5	5	1			2	••	••	**	1	1	••	••	**		3 .	
	Cerebro-spinal menin- gitis	55	31	9	3		2	4	. 18	2	2	3	. 5				1											
	Locomotor ataxia	19	13													2		3	3	1	1	1	1	1				
	Other diseases of spinal	24	10											1	1			1	1	. 2		3		2				
	Apoplexy, congestion of brain	186	77	••		**	••		••	••		1	••	••	1	I	3	4	5	15	12	22	6	4	3	**		
	Softening of brain Paralysis, unspecified.	7	4	••	••		**	••	••	••	••	••	••	**	**	**	**	••	••	1		2		••	1	••		
	General paresis	19	1																			3	**	**	**	**		••
	Other forms of insan- ity																											
	Epilepsy	13	5							2			2		••				1					••				
	Convulsions (not puer- peral)																										41.	
	Convulsions of infants	42	23	21	1	I			23																1			
	Tetanus, trismus	11	6	1					1	1			2			••	••	. 1		1						••		
	Chorea	••	••	**	••	••	••	••	**	**	••	••	••	••	••		**	••	••	••	••	••	••		**			
	Other nervous diseases	8	5	••	**	••	••	••	**	**	1		••	2	••	1	••	***	**	••	••	••		••	1		1 .	
	Diseases of the eyes.  Diseases of the ears	4	2																	**				**				•
	III. Diseases of Cir-																									77.	1	
	culatory System.  Pericarditis	2	1											00	1												1 .	
	Acute endocarditis	27	12				1		1					1		2	1		1	2	1	1		1	1			
	Organic heart diseases	395	203		1				1	3	5	5	4	5	4	13	19	13	17	26	23	19	19	17	8	2	6 .	•
	Angina pectoris Diseases of arteries,	8	6		••	••	••	••		**				••		***	1	**		2	••	. **		1	2	33		
	aneurism, etc	27	17	••	••	**	••	••	••	••	••				••	••	1	3		••	2	**	6	3	2	40		
1	Embolism, thrombosis.  Diseases of veins (hæmorrhoids, va-	19	7		**			••	**	**		**	1	1	**	**	••	1		••		1	**	1	12.			•
1	rices, phlebitis, etc.) Diseases of lymphatics	2	1	••	••	**	•• 7	••	••	••	**	**			••	1	***	••	••	**	••	••	**	**	**			
	(lymphangitis, etc.)		**		••	**	••	••	••	••	**	••	**	***	**			**	**	**	**	**	**		3.5	**		
- 0	Hæmorrhage	3	1	••	••	**	***	**	200	••	**	**	**	**					**		••	**	**	3	•	••	4 1	
. 1	Other diseases of cir-																140	22		13.00								

=	SATURDAY, NOV	EMBI	ER 30,	1907.	(4)				TH	E	C	ITY	I	RE	CC	R	D.		*		1						1238	19
	Cause of Death.	Total, Both Sexes	All Ages	Under Year.	1.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- ored.	Chir ese
	IV. Diseases of Res- piratory System.									- 1 -						-					`			×.		-	1	
	Diseases of nasal fos-	••				••						••														**		
88	Diseases of the larynx Diseases of thyroid gland	7	5				::		3			**		**			1			•••		••			••			
	. Acute bronchitis	78	40	25	5			.,	30	1		**	1					1		1		3	1	2				
91.		238	110	46	26	5	2		79				**			2				**	8	3	2	1	1	2		
93-		453	247	20	22	5		2	50	5	2	4	8	13			20	23	16	22	18	ii	9	8	2	4	5	
94.	Pleurisy	9	5	1					1								2		2	**		1	1 2	1				
96.		1 8		••		••	**	**	**				**		••	**		• ••		**			44					
98.	Pulmonary emphysema		3																1	1		**	1		**			
	piratory system (phthisis excepted). V. Diseases of Diges-	10	5	•••			••		1	••			••				1	1	••		1	. 1						
100.	tive System.  Diseases of mouth and																				11 6							
101.	adnexa Diseases of pharynx.	1		**																		**				**		
102.	Diseases of œsophagus	1	1	,	••	**		**	**			**	••			**						1						
104.	Ulcer of the stomach. Other diseases of stomach (cancer excepted)	5	14	3				**				**		••		2		2	••	**			• •	**	••	••	••	113
105.	Diarrhœa and enteritis (under two years). Of which	33	174	152	22				174								3					**					4	
106.	Chronic diarrhœa	**	**	***	••	**	**	++	**	**	••	**	**		••	**	••			•••	••	**						
107.	over)	52	25	**	••	9	2	1	12	••	••	••		3		2			**	1	3	2	1	1	••			
108.	Hernia, intestinal obstruction	41	22	9		***			9	3	2							1	1	1	1			2		•		
109.	Other diseases of in- testines	4	2										**									**	1		1			
111.	of liver Hydatid tumor of liver	**		**				**														**	**					
112.		69	47					.,	••				**	1	2	7	6	8	6	5	8	4				••		
113.	Biliary calculi Other diseases of liver	10	6				,,									1	2	**		2				**				
115.	Diseases of spleen Simple peritonitis (non-	18	8				••	••	••		••	**				3	••		*	**			•••		••			
	puerperal) Other diseases of digestive system (except tuberculosis and cancer)																											**
118.	Appendicitis and iliac abscess VI. Diseases of Gen- ito-urinary System.	22	15		••		1		1	1	3	••	2	3	••	1	1	2	1	••					••		1	
119.	Acute nephritis	50	31	3		r			4	1	1		1	2	2	1	4	2	2	6	2	2		1				
20.	Bright's disease Other diseases of kid- neys and adnexa	421	234							2	1	3	7	9	6	14	21	17	27	11	27	31	25	20	9	4	15	•••
22.	Urinary calculus	2			••									:							**							
23.	Diseases of bladder Diseases of urethra, urinary abscess, etc. Diseases of the pros-	7	5															1					2		1	1	**	••
	Non-venereal diseases	4	4	••	••							**	**		**	••	**		••		2	ı	••	1				
	of male genital organs		**	••								**	••															**
28.	Metritis							1															**					**
	cancer) Other diseases of uterus	5		**		•••	**	**	44	**	••	••	**		••		••	**	**	••		••		•••	••			
	Ovarian cysts and tumors	2																										**
33.	male genital organs Diseases of breast (not puerperal, nor can-	4	••	••		.,	••	••		••			••	**	••		**	**	••	••	••	••	••	**	••	••		••
9	VII. Puerperal Diseases.	1	•	••	••	••	•			••		**		••	••	••	••	••	-	••	**			••	••		••	•••
	Accidents of pregnancy	12	••	••	••		•		••		••	**	••	**			••							••	••	••	••	••
36.	Puerperal hæmorrhage Other accidents of la- bor	4								•		•																
	Puerperal septicæmia. Puerperal albuminuria and convulsions	25	::	**						**							**-	**		••	••	••	••	••	••	••		
19.	Puerperal phlegmasia alba dolens Other accidents of par-																••			.,								
ı	turition, sudden death	5				••	•••																					
	VIII. Diseases of Skin and Cellular Tissue.						÷				-										8							
	Gangrene	11	3	••		••	**		**			**	**	••	••		••		••			3		••		••	••	••
	Carbuncle Phlegmon, acute abscess Other diseases of skin	2	1	•			••				••			••				1	••				••	••	••	••		
	and adnexa  (X. Diseases of Locomotory System.	5	1		**	••	**	**	1	•	••	••	**	••	••	**	***	**	••	••	••	••	••	••		••		••
6. 1	Diseases of bones (non-	12	8		1	2			3			2	1		1			••		1							2	
7. 1	Arthritis, other dis- eases of joints (ex- c e p t tuberculosis and rheumatism)				. `												.,											
8. 4	Amputation Other diseases of or-				••	••	••					••		••								••	••		••	••		
-	gans of locomotion.		**	• •	••	••	••	••	••	•	• •	••	••	••	**	**	**	**	**		••	**	**	••	**	••	•••	••

150. 151. 151a. 152.	Cause of Death,  X. Malformations.	Total, Both Sexes.	All	Unde					Total			-	7				A 300	- 1	-	-	100000	-	-			-	
151. 151a. 152.	X. Malformations.		Ages.		. 1.	2.	3.	4	Unde 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Colored.
51. 151a. 152. 153.				1											- 8				*						Say		
51. 51a. 52. 53.	Congenital malforma- tions	34	22	21	1				22			**	•											·			
52. 53. 54.	Congenital debility, ic- terus and sclerema.	234	128	128					128				-60			- 20									-		
53.	Injury during birth Other diseases peculiar	7	5	. 5					5							7.											4
54.	to infancy Neglect	5													***		**				•	**					**
	XII. Diseases of Old Age.		15															ν.			- 40				*		•••
	Senile debility	60	24					•••			••									1	1	3	2	5	6	6	
	XIII. External Causes. Suicide by poison	11	6									1	2			1				1							
56. 57.	Suicide by asphyxia Suicide by hanging or strangulation	16	10			••	••	••		• • •			1	••	2	1		3	2		••	1					
8.	Suicide by drowning.	4	3											1		1				1							
59.	Suicide by firearms Suicide by cutting in-	13	12		**		••				••	••		4	1		1	3			1	1	1				
51.	Suicide by precipita- tion from height.	6	3													1		1						***	**		**
62. 63.	Suicide by crushing. Suicide by other meth-		• •	••	• • •	••			***	••	**	**				••											
54.	ods	2	2					**				1			1						.:				**		
55.	Dislocations Other accidental inju-	**		••			**				**							**									
7.	Burn, by fire, scald. Burning by corrosive	205	179	**	3	3	2		8	8		12	92	30	17	21	19	15	9	4		4					2
	substances			**										••													
	Freezing	2	4						3			1											**		- ::		
ı.	Electrical shock	3	3										1	1		1			**								
3.	Accidental drowning.  Inanition (starvation)	43	40							3	5	7	2	5		3	4	3						**			1
4.	Inhalation of noxious gas, not suicidal	16	10				1		1			1	1		2	r	1				2		.,			1	
	Other acute poisoning Other external violence	23	15	3			**		3			2	2	3	1	1	1				2		**	**	**		
	Of which a. Homicide, by blows b. Homicide, by	4	2										1					1									
	b. Homicide, by sharp instru- ments c. Homicide, by	4	2													1				44	1						
	d. Homicide, by	6	5									1	1	2		**	1			**						.,	
	e. Homicide, by other methods.	2				**			**																**		
2	XIV. Ill-defined or Not Specified Causes.																										
. I	Dropsy Sudden death, not		••					**				••		•••			**		••		**				••	••	
	puerperal	48	24	21	3				24																		
			_	-	_	-	-	===		_	-	_		_	=	==	_	_	=	_	-	-	=	=	=	=	
-Ger	a. Tuberculous dis- eases		977	52	91	66	35 7	7	265 36	46	14	51 -	73	137	171	165	117	91	66	55 35	19	10	5	13			37
—Di	b. Cancer iseases of Nervous	226	89		٠.,	1			1	1			2		1	3	9	8	9	12	20	11	5	6	1		1
	system and organs of sense Diseases of circula-	432	202	36	8	1	4	7	56	6	5	6	9	4	2	4	6	9	10	20	15	32	7	6	5	••	7
_D	tory system biseases of respira- tory system	483 851	248 437	94	56	11	3	2	166	8	3	5	9	16	19	20	26	28	21	24	26	19	18	12	13	10	7
—Di	seases of digestive system	592	319	164	24	10	5	1	204	5	7		3	7	3	16	12	15	10	9	12	8	4	3	1		5
r.—1	urinary system Puerperal diseases	504 60	276	4					5	3	2	3	8				25	20	29		31	34	27	23	10	5	15
11.—	-Diseases of skin and cellular tissue. Diseases of locomo-	20	6	1					1					`				1		1		3				••	
	tory system	34	22	21	1	2	**		3			2													;		
	Diseases of infancy	246	134	134		4.		••	134							•••				••					**		4
	Diseases of old age  -External causes	386	304	6	6	5	3	2	22		10	24	31	45	27	32	26	26	14	7	16	8	1	5	6	6	4
	a. Suicide	57	39				3.					1	3	6	3	5	1	7	4	2	1	4	1	1			
	b. Homicide	313	9 256	6	6	5	3	2	22		10	22	26	37	24	26	24	18	10	5	14	4		1		2	3
7.—	-Causes ill-defined	48	24	21	3				24					**					••							**	1
	Total, males		3,466	533	191	96	51	33	904	82	54	96	153	227	247	287	258	225	186	165	181	151	96	87	40	27	93
	Total, females			496	187	88	56	25	852	57	39	67	133	182	183	176	140	130	142	126	150	115	124	89	72	34	1.
	Total, both sexes.		6,277	1,029	378	184	107	58	1,756	139	93	163	286	409	430	463	398	355	328	291	331	266	220	176	112	61	204
				D	eaths	of F	emales	s, by	Age,			of Dea				End	ing D	eceml	oer 31,	1906.							
c	ause of Death.	Fotal, Both Sexes.	All	Under I Vear	t.	2.	3.	4	Total, Under	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.		Col- Chi

	S	ATURDAY, NOV	ЕМВЕ	R 30,	1907.					TH	E	CI	TY	R	EC	01	RD	100		*								1239	1
-	54.7	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	t.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75-	80.	85.	Col- Cored.	Chin-
	3.	Relapsing fever					7.6	٠												•••								184	-
	4.	Malarial fever	••		••	**									**												15.		
	5.	Smallpox			**		**				- ••	••		••	**					**			**						
		Measles	**	105	28	39	16	10	5	98 18	6		**		1		••	**			•••	**	••	**	. **	••	••	1	**
	8.	Whooping cough	• • • • • • • • • • • • • • • • • • • •	24	13	3	10	5		21	1									**				**	**	**	••	**	**
		Diphtheria and croup.		110	13	38	19	15	8	93	12		1			2			2									3	
1	10.	Influenza		8												1			**	1			2	2	1	1	**		
1	ıi.	Miliary fever		**	••	• • •	•••		••	••	**			**	••	1.00	• • •	**	**	••					••			46	
	12.	Asiatic cholera Cholera nostras		••	**		**		••		••	•••	••	••				••	••		••	**	••	••		**	••	••	••
	4.	Dysentery		9	6					6						1								**		**			
	200	Plague		**																	1								
1		Yellow fever							**	**									**			**							
		Leprosy	**	**				**	**	**		••	**	**	••	••	••	••		••	** -			••		••	**	•••	
1	8.	Erysipelas Other epidemic dis-	**	10	4	••				4	••	1	**	**	**	1	1	I		**	••	••		1	**	3	• • •	**	
2	0.	Pyæmia, septicæmia		1	**								**							••	**			**	**	**		**	
	1.	Glanders																							.5				
2	2.	Malignant pustule																											
2	3.	Hydrophobia	**	1		**		**	**			1		**	••	**			**	•••	**			••	**				
		Actinomycosis	••	••	••	**	::	••	••	••	**	••	**	••		••	14.4		**	••	••	••	**	**	**	••		••	
		Trichinosis	••	••	**	**	**		••	••	**			••	**	••	••	••	**	••	••	••		••	**	**	••	**	••
2	5.	Pellagra Tuberculosis of lar- ynx		1			••		•••	• •	**	5.5	**									**	***	**	**	**			
2	7.			523	2	1		4		7	4	12	40	82	108	90	70	46	23	18	7	8	3	4	1	**		35	
		Tuberculosis of lungs Tubercular meningi- tis		25	8	5	4	3	1	21	2			2															
2	9.	Abdominal tuberculo- sis		6							1				1		1		1	1			1					1	
3	0.	Potts' Disease		1						• • •		**		44	**	1	7.4.	***	••	**	**			***			••	**	
31		Cold abscess	**	**	**	••	**	••	**	**		••	**	**			**		**	**	**		••	••				•	**
	3.	White swelling Tuberculosis of other	**	2	-	**	**	**		**	••	1	1.5		**			••	**	**	1	••	••	••		***	• • •	••	••
3	4.	General tuberculosis.		1										1										**		**	**		
3		Scrofula																											
36		Syphilis		7	4				**	4				1		1			1									4	
37	7.	Gonorrhœa (adults)	**		4.	**					**				••	1.0		••	••		**							**	
3	8. 9.	Gonorrhæa (children) Cancers, etc., of the	**	**	**	••				**		••	••	••			••			••					**				
40	0.	Cancer of stomach,		49	41					**	**		**	**	*	••				6		1	6		**	**	**	••	**
4	1.	Cancer of intestines,		19										1			3	5	4	4	3	4	6	2	3	1	**	**	**
42	2.	Cancer of female genital organs		31											1	4	2	4	5	5	3	3	2	1		1		2	
43	3.	Cancer of the breast.		26		**										2	1	2	6	5	5	1		2	1		1	2	
44		Cancer of the skin Cancer of other or-	**		**	**	***	**		**	**	**	•••		**				••				••						
		gans and unspeci-		10								1			**	1	1		1		4		1				1		
46	5.	Other tumors (except of female genital organs)		3		55.					22			1 55.															
		Acute articular rheu- matism		10			1			1	1			1	1	1		1			3								**
48	. (	Chronic rheumatism matism and gout.		16	1					1			1			1	4	1	2	2			2	1					
49	).	Scurvy					••	**																					
50		Diabetes		26		••	••		I	1	••	**	••	r	r	••	••	1	I	3	5	5	2	4	2			1	
51		Exophthalmic goitre.  Addison's Disease	**	1	••		**	**	**	**	••	**	••	**	**	1	••	**	••	••	**	**		**	••	**	***	**	- 8.8
52		Leukæmia		3									**	1	••	••		•••	•••	**	**	••		**	**	••	••	**	**
53		Anæmia, chlorosis		7				1		1		1			1				1		1	1				1		1	
55	5. '	Other general dis-										••																	
56	. 1	Alcoholism, acute and chronic		4	**	••			**	**		**				2	1	İ			44								
57 58	. [	ead poisoning Other chronic poison-	••	••	**	**	••	••	••		**	**	••	••	••	••	**	**	••	**		••	••		**	.,			
		ings of occupation other chronic poison-	••	**		**	••	••	••	••	• •	**	••			**	**	**		••	**	••			**	**	***	**	**
	7	I Diseases of	**	**		**	••	•••	••	••		**	••	••	••		••	••	**	•••	**		••	••		••	**		
		I. Diseases of Nervous System and Organs of Sense.																											
60		Encephalitis		1	**	.,					1						**			,,	18.5								
61	. 5	Simple meningitis Of which		42	7	8	4	2	1	22	6	3	2	1.	2	2		1	**	1	1		1						•••
61	a. (	erebro-spinal menin-		24	4	5	4	1		14	3	2	2		1	I		1			*								
		ocomotor ataxia Other diseases of		6				**				**				1	ř		1	1		1		1					
63		spinal cord		14	••		**				**	1				**	1	. 2	3	1	1	4		J		**	**	2	
		of brain		109		**		••	**	**	••	••	**		1	1	1	. 1	7	9	8	13	22	26	9	8	3	1	• • •
		Softening of brain	**	3	**	••	••	**	**	••		••	••	••	**	••	••	•	**	. 1	100	1	**	••	1	**	••		••
66.		Paralysis unspecified.		3															2	2	2		2	1		2			
68		Other forms of in-		3				**																					
69.		pilepsy		8				4.	14		1				2			1	1		1	1		1					**
70.		onvulsions ( n o t puerperal)							.:							••			**										
		convulsions of in-	**	19	18	1	••	**	••	19					••			•••			•••	•••		**		***			
		etanus, trismus	••	5	2	••			••	2	٠٠.		. 1	••	••	4.0	1	••	••	1	**	••			•••	•••		1	••
73-		ther nervous dis-	**	••	** .	**		**			••	••	••	**	••	••	**	. **	.**		**	**	••	**	**	••	••		**
75.	Г	eases		3 .																									
		Diseases of the ears.		2				1		1					1														
-							121		4	1-1-1							. 5	15			30		19						

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1	2392			-					THE								7										, 1907	
	Cause of Death.	Total, Both Sexes.	All Ages.	Under I Year.	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45-	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hir
	III. Diseases of Circulatory System.					. '		2.		,								-			- 1	- 30						
8.	Pericarditis  Acute endocarditis  Organic heart dis-		15	2					2			1				2	2		1	,	2			2				
	eases	* **	192	2				1	3		7	6		3	5		8	22	. 20		22	16	2			*		-
•	Diseases of arteries, aneurism, etc		10	••										**	1			**		2		3	. 1	2		3		
	Embolism, thrombosis Diseases of veins (hæmorrhoids, va- rices, phlebitis,		12	**	•••	••			•													1						
4.	Diseases of Lymphatics (lymphangitis,	•••	1		**																					.,		
5.	Hæmorrhage Other diseases of cir-		2	1					1					,,							1							
	culatory system  IV. Diseases of Respiratory System.		**	**	••	••	**	••			••	7.1	••		**	**	••	••			**	•	**	,			••	
	Diseases of nasal fossae								1441		*																	
9.	Diseases of the lar- ynx		2	.,					**		.,		**	**	•••	1		**				**	1	**			••	
0.	Acute bronchitis		38	13	6	3			22									2	1.		2	3	3	1	. 2	2	. 1	
ι.	Chronic bronchitis		10		1		**		1								3		2		3		3		. 6	1		
3.	Broncho-pneumonia		206	25	17	8	4	1	95 55	4	3	2	4	11	9	12	12	9	13	15	13	12	13	-11	6	2	9	
4.	Pleurisy Congestion of lungs,		11	1	1				2			**	2	1	2	1	Ì		1			1						
5.	pulmonary, apo- plexy		4																	1	ı		1	1				
6.	Gangrene of lung		1	**		••		•••			••		••		**		1	••		**			**		**		1	
7.	Asthma Pulmonary emphyse-	**	5									•••				•												
).	other diseases of respiratory system (phthisis excepted)		4	**																								
	V. Diseases of Di- gestive System.										-							,										
	Diseases of mouth and adnexa	**	2			1			1	••		••							1					**				
2.	Diseases of Oeso- phagus																											
3.	Ulcer of the stomach. Other diseases of stomach (cancer		1	**											1										••			
5.	excepted) Diarrhœa and enteritis (under two years)		158	128	30		2		158		**	2		1										3	- 3	•••		
5.	Of which Chronic diarrhœa Diarrhœa and en-														**													
	teritis (two years and over)		27			4	2	1	7	i			• • •		3	1		3	1	2		2	1	2	4			
3.	Intestinal parasites Hernia, intestinal ob- struction		19	2					2							3	4	1	- 1	3	2	1					. 1	
). ).	Other diseases of in- testines		2											1									1					
	of liver	**			**							••			••	••	••	**	**		••	**	**	••	••	- **		
	Cirrhosis of liver	***	22			**									2	4	4	2	4		4	2						
3.	Biliary calculi Other diseases of		2																1					1				
1.	liver	••	4	**				••	••			••			••	••	••	**	3	.,			1		•••			
5.	Diseases of spleen S i m p l e peritonitis (non-puerperal) Other diseases of di- gestive system (ex-		10										1		1	3		.,			1			1				
8.	cept tuberculosis and cancer) Appendicitis and iliac abscess																1.			**					,,			
	VI. Diseases of Gen- ito-urinary System.		Í			-																						
9.	Acute nephritis		19	1	**	1	••	1	3	1	1	1	2	. 3	2	2	**	1	1	2	••				**			ı
0.	Bright's disease Other diseases of kid- neys and adnexa	:	187	**		**	**		**	1		2	6	6	11	13	16	12	21	22	25	13	21		2		. 16	
2.	Urinary calculus		2											1	.,					1								
3.	Diseases of urethra, urinary abscess,		2		**	••		•••							**		**	••	••	**					1		1	
5.	Diseases of the prostate																		**		*							
	of male genital or gans								••	**				100				••		**	• ••							
7. 8.	Metritis Uterine hæmorrhage (not puerperal)													1														
9.	Uterine tumor (not cancer) Other diseases of		5									**		2			1	1										
	other diseases of uterus		3			**				**				••	1	1		••				,						
	Other diseases of fe- male genital or-	**	2	**	**	••	**	••	**	**	•••			**	.,	1	••	••	••	**	1	• •		••	••		. 1	I
3.	gans Diseases of breast (not puerperal, nor cancer)	••	4								••	**		2			1											
	VII. Puerperal Dis-								•	11	•							4				•						
	Accidents of preg- nancy Puerperal hæmor-		12									1	1	5	3	2	1											
15.	rhage		2								••		••		1	1	**	**	••			•						
	Other accidents of																										ALC: UNKNOWN	d
	Puerperal septicæmia		4 25	**	**		**							••		5			**		••				••			

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	ATURDAY, NOV	EMBE	R 30,	1907.		_			CHE	0	CIT	Y	R	EC	OF	ID.		_			*	_		_		1	2393
	Cause of Death,	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30-	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cl
39.	Puerperal phlegmasia alba dolens					1														١	1	1.					
40	Other accidents of parturition, sudden death Puerperal diseases of		5							149	**				2	2											
41.	VIII. Diseases of	**		**	***		• • • •	••		. ••	**			••	••		• • •	••		**		**	••	••	.,		••
	Skin and Cellular Tissue.														124	-											
13.	Carbuncle Phlegmon, acute ab-		1																		1						
44.	scess	•••	1	1	49.			**	1			•••	1			**			**	**	**	1					**
	IX. Diseases of Lo- comotory System.		•		***	1,160,	- 0.1						7													4.5	
46.	Diseases of bones (non-tuberculous). Arthritis, other dis-		4	2		r			3		1		••						•••								
**	eases of joints (except tuberculosis and rheumatism)				1.0											***	.,										
48. 49.	Amputation Other diseases of or- gans of locomotion				14	2.0				**		*	,c**			**											
	X. Malformations.	•••		••	•••																						••
50.	Congenital malforma- tions		12	11	1	•••	••		12	**	**	••	••	•••	**	**	••	••	••	**	**	**	**	••	••		••
51.	fancy. Congenital debility,																										
	icterus and sclere- ma	••	106	106					106				**			••	**		••				,,				5
51a. 52.	Injury during birth. Other diseases peculiar to infancy	**	2	2	**	**	••		4			•••															
53.	Neglect																*		44								
54-	XII. Diseases of Old Age. Senile debility		36										**								1	2	6	. 2	15	10	
55.	XIII. External Causes. Suicide by poison													1				1	2		1						
56. 57.	Suicide by asphyxia. Suicide by hanging		6	**	**								1	**	••		••	2		1	2	***	••				
	or strangulation Suicide by drowning.		1												1												
59. 60.	Suicide by firearms Suicide by cutting in- struments		1		**			**	**				1						**					**			
61.	Suicide by precipita- tion from height	**	. 3		**				••		,.		1		1					1					••		
62. 63.	Suicide by crushing. Suicide by other methods										**																
	Fractures Dislocations				••	• • •	••		••	**	**		**	**		**	**	**		***			**		**		
66.	Other accidental injuries		26	1	2	3	1	1	8	2			1	2	2	2	2	1		3	1			2			
67. 68.	Burn, by fire, scald. Burning by corrosive substances		15			3			7	1								1									1
59.	Sunstroke		1	1		**		••	. 1	••	**	**	**		••	**		••	••			••	••			**	**
70.	Electrical shock										**						.,										
	Accidental drowning.  Inanition (starvation)		3			**							**	1	**	2							**	**		**	
74.	Inhalation of noxious gas, not suicidal Other acute poison-		6					1	. 1		4.					. 1		1			2			1			
	Other external vio- lence		5	2						1							2	1	1			1					••
	Of which: a. Homicide, by																										
	b. Homicide, by sharp instru-		2	••	••		••	••		•••	**	••	•••	**	**	**	1		1	••	**	**		**	.,	••	
	c. Homicide, by		1																			1					
	d. Homicide, by poisone. Homicide, by other methods					••	**				••	'				**		- **	••			••			**		
	XIV. Ill-defined or Not Specified		•	•	••	•••	•		•	•		.,	••				•••	••	-			••	••			•••	.,
	Causes.  Dropsy Sudden death, not					١.,			**			••										•••					
	puerperal Ill-defined causes		24	18	6				24						•••		**			**							1
		-	-	-		-	_		200	-	==		-	_	_	_	=	-	-	-	-	_	-	-	-	-	
—G	a. Tuberculous diseases		559	10	6	4	7	16	278	7	13	40	95 85	118	91	72	46	24	19	39 8	35	4	4	12		3	36
[,—]	b. Cancer Diseases of nervous	**	137	**	••	**	**	•••	••	••	1	••		2	7	7	15	16	20	22	20	11	5	6	2	2	4
11.—	system and organs of sense Diseases of circula-	10	230	27	9	4	3	1	44	9	4	3 7	2			4	6	15	17	13	22	26 21	30 18	11	10	4	5
	tory system  Diseases of respiratory system  Diseases of digestive		235 414	103	47	17	7	2	176	5	3	2	7	15	9	17	10	15	19	18	26	19	22	18	18	7	16
	system		273 228	131	32	5	4	1	173	1 2	1	4	1	3 16	10	12	10	8	12	5 25	7 27	6	6	7	7		5
	-Puerperal diseases		60									2	9	16	16	13	3	1								••	10
	—Diseases of skin and cellular tissue. Diseases of locomo-		14	2		**	**	••	2					. 1		**		1	••	1	2	1	1		2	2	1
	tory system	••	4	2	**	r	**	**	3	**		**	**		••	••	••			**			**	••		**	**
	Malformations	**	12	11	1				12		••	**	••		**			**			••	••		••	• •		2.5

12394								THE	2	CIT	CY	RI	EC	OF	D.					SATU	RDA	Y, N	OVE	MBEI	R 30	, 190	7.
Cause of Death.	Total, Both Sexes.	All Ages,	Under I Year.	1.	2.	3.	4.	Total, Under 5.	5-	10.	15.	20,	25.	30.	35.	40.	45-	50.	55-	60.	65.	70.	75.	80.	85.	Col-	
XIII.—External causes		82	5	3	6	2	3	19	5	1		5	4	6	7	5	7	5	5	7	2		3	d- Tr			
a. Suicide		18		4.								3	1	2	1		3	2	2	4							
b. Homicide	**	7	1					1	1							2	1	1			1						
c. Accident		57	4	3	6	2	3	18	4	1	44	2	3	.4	6	3	3	2	3	3	1		3	1		1	
XIV.—Causes ill-defined	**	24	18	6				24		**	4.			••									**			1	
Total, females	-	2,811	1,196	187	88	56	25	852	57	39	67	133	182	183	176	140	130	142	126	150	115	124	89	72	34	111	-

Deaths of Males, by Age, and Cause of Death, for the Year Ending December 31, 1906.

BOROUGH OF BROOKLYN.

										во	ROUG	H OF	BROC	KLYN	Ι.													
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55.	60.	65.	70.	75-	80.	85.	Col- Cored.	nin se.
-	I. General Diseases. Typhoid fever	230	125		,		1	1	3	2	6	20	25	18	19	12	16	3	5	4		15.	1	. 1	. 1.0			
2.	Typhus fever		135																								3	
3.	Relapsing fever																	1.0										
4.	Malarial fever		16	2			1	1	4		1	1	r	1	2	1		1	3			I					1	
5.	Smallpox		4					**					++	1		2	1					**						
6.			226	70	72	42	23	8	215	9		**	2														3	
7.	Scarlet fever	258	126	13	15	24	31	6	89	23	6	1	4	2	1		**	4.4	**				,,			٠		
8.	Whooping cough	132	49	29	11	7	1		48	1			**		••		**	**										
9.	Diphtheria and croup.	793	433	37	98	82	76	40	333	82	9	5	2	1	**	**	**	1			••		**			**	3	,
10.	Influenza	114	45	7	5			1	13	1	1	1	1	3	1	2	2	**	. 2	1	7	4	2	2	1	1	4	,
ıı.	Miliary fever			**		***	**		**			**		**	**	**	1.5		**	**	••	**	**	**	**	• •	**	
12.	Asiatic cholera					11				**		••	• • •	••	**	••		**	• •	**	•••	**	**	• •		••	•••	-
13.	Cholera nostras							••	••			**	• • •		**	• •	**			•••	• • •		**	**	**		**	
4-	Dysentery	71	35	6	. 3	2	3	1	15	1	**	**		1		3	3	2	2	1	1		4	2	**			
5.	Plague		* **	**		••		**			**	**			**		•••	**	••	••			11	• •	•••		• • •	0
6.	Yellow fever	11	**	••	**	**	**		**	**			**			••	**	••	**	**	••	**	**	**		**	**	•
7-	Leprosy		••			**	**	**	- **			. **						**	**		•	**	45	• •	**	• •	••	
18.	Erysipelas Other epidemic dis-		43	11	•••	**	1	**	12	1	**						•	3	3	6	2	3	**	• • •	••	**	1	
	eases	9	5	2	2	•••		**	4	••	**			1	,			19	**	••		**	**		**	**	**	
to.	Pyæmia septicæmia	7	6	"	**	•••	**	**	**	**	**									••		•••		**	2	1	1	
1.	Glanders	**	**					**	••			••			1					,		**		•			**	
	Malignant pustule	2	2	***		**	•••	••		**					1				1		•••				**	•••	**	
	Hydrophobia Actinomycosis	1				**		**		**				1										**	**		**	
~	Trichinosis																											
	Pellagra																											
5.	Tuberculosis of larynx	30	22				1		1			1	1	1	6	3	3	4	2									
7.	Tuberculosis of lungs		1,504	8	5	2	2	2	19	3	14	84	147	189	242	253	194	145	101	42	35	22	11	2	1		. 34	
	Tubercular meningitis	207	120	35	22	10	15	5	87	8	6	6	2		2	2	3	3	1								4	
).	Abdominal tuberculosis	68	38	9	5	1	1	1	17	1	1	2	1	2	2	2	2	2	3	3			14.2					
	Potts' disease	19	7		1		1		2	1		1		1		1	1				44.4					**		
	Cold abscess	3	1	1			34		1							**												
2.	White swelling	16	: 9		1				1	2	2		3	1	••		**	**			***		••					1
	Tuberculosis of other organs	15	10	1					1		1		1	1	• •	1	3		1	1	**						1	
1.	General tuberculosis	31	21	5	3	1			9			3	1	2	1	3	2		.,						13.5		**	
5.	Scrofula	5	5	3	1	1			5				**	**		**		44				**	**	**				-
5.	Syphilis	51	37	18	2			2	22				1	2	2	3	3	1	1	1	**	1	• • •	**			2	
7-	Gonorrhœa (adults)												**	**	**	• • •	**	**						**				
	Gonorrhæa (children)	1	1	**	1			**	1		••	**	**	••	•••	••		••	**				**	**				
9.	Cancer, etc., of the	42	35	10	**		++				••	**	**	1	**	1	2	3	3	3	8	4	6	1	3			,
	Cancer of stomach, liver	434	194						**			***	2	2	3	9	17	24	35	23	24	21	17	12	4	1	3	
2	rectum	113	41	**	*	• •		**	••		••	1	**	1	**	4	6	2	4	8	3	4	5	2	1	**	r	
	genital organs	145	**	**	••			**	••	**	••	••	**	**	••	•••	••	**	**	••	••	••	• • •		**		**	
3.	Cancer of the breast.	99	4	** ;				••	**	• •	•••	••	•••	**	1	**			**	1	•••	**	•••	1	1		1	
6.	Cancer of the skin Cancer of other or- gans and unspecified Other tumors (except	13	59	**					1	2	.,	2	2	1	1	3	7	5	6	9	3	5	7	3	1	1		
	of female genital organs)	10	2	1					1		.,					1								22	100			
7-	Acute articular rheu- matism	141	54	3	2	1			6	3	3	4	4	3	2	3	5	3	3	4	4	2	2	33.				
8.	Chronic rheumatism and gout	40	19	2					2	1		. 1	1	1	2				2		2	4	1	,		**		
	Scurvy	3	2	2					2					4.								5.5	-					
	Diabetes	207	85							2		1	2		4	2	5	6	17	12	12	9	7	4	2		2.6	
	Exophthalmic goitre	5	2	4.4								.,					1									1		
	Addison's disease																••											
	Leukæmia	18	12							1	1	i		. 1		1	1	3	1		1	1						
	Anæmia, chlorosis	27	9	3					3	r		1	1				1		1	1								
	Other general diseases Alcoholism, acute and												+6			**						**						
	Alcoholism, acute and chronic	183	159										1	17	32	37	32	18	11	. 7	2	1	1					
	Lead poisoning Other chronic poison-	8	8										1	1	2		1	2		1								
	Other chronic poison-				**	••	**				••	• •		44	••					••			••	**	. 44	**	**	-
	II. Diseases of Nerv- ous System and Or- gans of Sense.	3										***		1 2	100					-		•	*				111	
	Encephalitis	3	3	1	- 1	••	**	"	2	**	**	**		1	•••	**	**	**	**	••	**	**	••		**	**	••	
	Simple meningitis	295	160	28	27	21	11	6	93	21	13	11	6	5	3	3	2	1	2		**		**			**	3	

5	SATURDAY, NOV	ЕМВЕ	R 30,	1907.				9	THI	Ξ	CI	TY	R	EC	OI	RD										1	2395
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	I.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	8o.		Col. Chin- ored. ese.
61a.	(Of which) cerebro- spinal meningitis	184	105	14	. 13	13	7	5	52	15	12	7	6	4	3	3	1	. 1	1								1.
62. 63.	Locomotor ataxia Other diseases of spinal cord		24 35		•••							**	**			3	5	2	4	4 5	3	2 5	1	3		**	
64.	Apoplexy, congestion of brain	1,048	499	1		1	I		3	••		2	3	3	11	9	21	30	56	59	70	64	67	57	33	11	7 1
66.	Softening of brain Paralysis unspecified	26 55	24		• • • • • • • • • • • • • • • • • • • •							1	1			1		1	2	2	3	3	3	4	3	1	3
67. 68.	General paresis Other forms of in- sanity		40			**		••			••	1	3		2	6	7	5	5	4	2	4	3 2	2		**	1
69. 70.	Epilepsy	51	29	1	1		1		3	3		2	2	6.	2	2	1	2	2		4						
71.	puerperal) Convulsions of infants	214	124	98	19	4	1	2	124																	,,,	6
72. 73.	Tetanus, trismus		25 1	8	**			**	. 8.	4	6	1	1	••	**			1	1	3							
74.	eases	61	36	1	2	1	**		. 4	2		1	3	+	5	6	2	4	1	1	1	2					2
75.	Diseases of the eyes Diseases of the ears.	33	20	4	3	2	1		10	1	1	2			1	1	1			1	1						1
	III. Diseases of Cir- culatory System.																				-						
77.	Acute endocarditis	333	160	2		1	1		4	4	1	2	7	10	14	6	7	13	10	17	18	14	21	6	4	2	6
79.	Organic heart diseases Angina pectoris	1,651	846 61	9	2	**	1	1.	13	11	14	16	21	27 1	32	47	6o 5	59	78	101	96	106	79	55	24 I	7	14
81.			45	••										1	1	1			4	6	5	9	9	2	5	2	4
82. 83.	Embolism, thrombosis Diseases of veins (hæmorrhoids, vari-		22	**		**		••	**	**	**	**	**	1	1	**		2	5	1	2	2	4	,2	1	1	1
84.	ces, phlebitis, etc.). Diseases of lymphatics (lymphangitis, etc.)	4	3	1	1		1		3																••		
85. 86.	Hæmorrhage Other diseases of cir- culatory system		8	4	**				4	1	1				1												
	IV. Diseases of Respiratory System.																										
87.		1								**			٠														
88. 89.	Diseases of the larynx Diseases of thyroid gland		13	6	15	**	**		11	1										**	1						
90.	Acute bronchitis		263	181	28	7	7	2	225	5	1	1	1	**		2	1	4	2	1	1	6	3	4	4	2	8
91. 92.	Chronic bronchitis Broncho-pneumonia		73 743	304	173	66	21	13	5 577	23	5	8	3	10	9	16	8	12	7	7	16	9	14	15	2	2	9 .
93.	Pneumonia Pleurisy		1,216	171	118	37	23 I	12	361	37	13 1	24 3	46	47 6	87	85	89	86	59	57	79	53	50	26 1	9	8	26 1
94.	congestion of lungs, pulmonary, apoplexy	27	15	3	1				4		ī		1		**	**	2				ī		2	1	1	2	ı
96.	Asthma	8 61	33		**	**	**			1		1.	** .	1		1	11	4		4	4	8	6	2	2	**	1
98. 99.	Pulmonary emphysema Other diseases of res- piratory system		5		• •		**				**	••	. **	**	**		**	1	1	1		1	••	1		••	
	(phthisis excepted) V. Diseases of Diges-	52	35	**				**		••	••		. 2	1	7	6	2	8	1	3	1	1	1	**	**	1	3
100.	tive System.  Diseases of mouth and																				- 2.5				2		
101.	Diseases of pharynx	17	10	1	2	1			4			1	1	1	2			1									
102.	Diseases of Oesophagus Ulcer of the stomach	50	3 29				••	1	1				2	2	4	4	4	5	1			1	3			••	1.
104.	Other diseases of stomach (cancer excepted)	181	104	31	6	5	2	1	45	1	1		3	3	2	5	2	4	6	7	7	1	2	7	5	3	4
105.	Diarrhœa and enteritis (under two years). (Of which)	2,007	1,139	976	163		••		1,139			••	**		**		••	**	•••	**	••	**	•••	**	•••	***	21
106.	Chronic diarrhœa Diarrhœa and enteritis (two years and		128	••	**	**		6		8		**		6		3	4	3	3	4	7	4	6	10	7	2	3
107.	Intestinal parasites Hernia, intestinal ob-	2	128		1	34			1					**													
109.	Other diseases of intestines	162	71	10	1	2			6	2	1	1	4	·		3	1		8	2	1	12	2				2
111.	Acute yellow atrophy of liver		2				1	**	1	**				1								**			44		
112.	liver Cirrhosis of liver	384	231	••		•••		1	1				3	9	18	21	30	37	29	22	29	13	12	3	3	1	3
113.	Biliary calculi Other diseases of liver	27 47	6 22						**				2		2	3	2	3	3			1	1	1	2		
115.	Diseases of spleen Simple peritonitis (non-puerperal)	10				**				2							::		**	••							
117.	Other diseases of di- gestive system (ex- cept tuberculosis			,,														1.		4			4.5				
18.	Appendicitis and iliac abscess	3 171	105	1	1	1		2	5	6	8	16	11	11	15	4	6	8	5	5	3		1	1		**	1
	VI. Diseases of Gen- ito-urinary System.									*																	
119.	Acute nephritis Bright's disease		120 958	10	5	7	3		22 10	8	8	6	3	8 37	11 50	17 77	7 85	9 76	102	3 92	5 107	119	66	44	31	9	14
21.	Other diseases of kid- neys and adnexa	22	12	**										2	2	2				2	2	1	1				
23.	Urinary calculus  Diseases of bladder  Diseases of uretha,	4 45	35			1			1					**	2	**			4	4		3	6	6	6	1	1
-	urinary abscess, etc. Diseases of the pros-	6	6 38		10	**		**		**	**				• • •	2		1	. 1	2	3	8	10	4	4	3	
26.	Non-venereal diseases of male genital or- gans				**	••					,,						a.,••:		٠,								
197.	Metritis	6							1.00	••	- **						**		100		**	**	**	. (60)	**	••	

_	2396		-			-	-	1 , 9	THE	-	01	1 1	H.		UI	LD,		47	9 !		SATU	JRDA	Y, N	OVE	MBE	K 30,	1907.	
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2,	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	hin-
28.	Uterine hæmorrhage (not puerperal)	1																					0				13	APP IS
29.	Uterine tumor (not cancer)	26							.,				.,															
	Ovarian cysts and	15				••	**	••	••		**	**	4.5	**	••	**	***		• ••	••							***	
32.	Other diseases of fe- male genital organs	25 44			**			**			**																	**
33-	Diseases of breast (not puerperal, nor						1	11													- 1				- **			
	VII. Puerperal Dis-	**	••	••		**		••	**	**	**	• • •	**	**	**				•••			•••	1.0			7		**
34.	eases. Accidents of preg-																											
7.5	nancy	54			**	44	49	**	**								**	**	**		••	**		**	***	••	10	••
35.	Puerperal hæmorrhage Other accidents of labor	56														,,,		**										
37.	Puerperal septicæmia. Puerperal albuminuria	79	**				**	**	••	••			••						••									
	and convulsions Puerperal phlegmasia alba dolens		**	**	••	•••	**		**						**		**	**	**		**	**	••	3.0	**			••
957	Other accidents of		**	• • •			-5.0			-	-	- 1		100						**	**						***	
141.	death Puerperal diseases of breast	10	••			**	***						**	**				**		**					**	**	**	**
	VIII. Diseases of Skin			1.5	200																***					30		
142.	and Cellular Tissue.	32	13			1			ī	1							1		1			2	1	4	1	1		
143.	Carbuncle	11	8											1	**		2				2	2		r				
144.	Phlegmon, acute abscess Other diseases of skin	19	13	1		••	.,		1	••	**	•••	**	**	3	**	3	1	1		2	***	2	36			**	
	and adnexa	8	4	2		••	**	••	2	•••	**	**	••			•••	**	••	1	1		••	••	••	**	**		••
	IX. Diseases of Loco- motory System.																	*										
	Diseases of bones (non-tuberculous) Arthritis, other dis- eases of joints (ex- cept tuberculosis	48	24	6	3	2	••	1	12	1	2	1	1	"	••	1	1	1	1	2		1	••		• •.		2	
48.	and rheumatism)	5	3	**			••					2														**		
149.	Other diseases of or- gans of locomotion.	1	1						**		1																	**
50.	X. Malformations.  Congenital malformations	309	165	151	7	1	1	2	162		3				•												3	
eT.	XI. Diseases of Infancy.  Congenital debility,																											-,
	icterus and sclerema	926	559	558	1	••	**	••	559	••			••	••	••	**	••	••	••	**	••		**	••	••	••	10	••
	Injury during birth  Other diseases pecu-	106	60	60		•••		••	60	**	**				**			***	***	**	**		14	**	•••	**		
	liar to infancy	49	36	35	1				36					**		**									**	• • •	2	**
	XII. Diseases of Old Age.												T.										11		-11		1	
	Senile debility XIII. External Causes.	393	150																		•	13	••	35	40	46	1	**
55-	Suicide by poison	41	34			••		•				1	4	3	3	8	4	2	2	4	1	2						
56. 57.	Suicide by asphyxia Suicide by hanging or	49	-34		**	**	**	**	**		1	••	2	1	5	3	*	1	1	5	6		3	2	**	••	•••	••
58.	Suicide by drowning.	21	17					**										3	::									
200	Suicide by firearms Suicide by cutting in-	70	66								1	4	3	9	5	8	3	6	9	7	2	5	2		1	1		
	Suicide by precipita-	16	15			**			**	••	**	••	••	1	1	2	1	••	2	4	2	1	1	••	•••		**	
	tion from height		2								**													1	**	**		**
62. 63.	Suicide by crushing Suicide by other meth- ods				**									**													1441	
64.	Fractures	29	24	**			**	**	**	1	2	1	2	1	6	3	1	2		• •	3	••	1	**	1	**	••	
65. 166.	Dislocations Other accidental in-	571	469	2		8	8	9	31	49	16	15	49	37	42	44	55	26	33	17	25	14	8	3				**
67.	Burn, by fire, scald	122	48	6	7	7	4	3	27	3		1	1	**	3	2	1	1	3	4	1			1				
	Burning by corrosive substances					••	••		••			••	••							••	••		**			••		••
	Sunstroke	28	18	1				**	1				1	3	3	2	2	1	1		1				1	**	••	••
70.	Electrical shock	10	10								1		2	2	3		1	1								2.		
72.	Accidental drowning	134	125			••		**		7	13	14	14	9.	9	15	15	12	4	4	4	2	1	1	1	••	5	
73.	Inanition (starvation) Inhalation of noxious gas, not suicidal	91	62		1	••	**		1 2	**		5		6	10	6		3						**	••	••	•	••
75.	Other acute poisoning	34	16	2	1			1	4	3		2		1	2			2			1		1				3	
76.	Other external violence (Of which) a. Homicide, by blows	102	81					1	5			6	12	3	6	20 3	. 5	6	6	1								
	b. Homicide, by sharp instru-	20	17										2			2								- 22	-	20	-	
	c. Homicide, by	46	41	**							1	3	7	4	3	12	4	4	2		. 1		140				1	
	d. Homicide, by poisone. Homicide, by	1				••			••	••				**		**	••		••	••				**			•••	.,
	e. Homicide, by other methods	2	1		••	**	**	**	**	••	1	••	**		••	**	123		••			**	10					••
	XIV. Ill-defined or Not Specified Causes.																			3								
77. 78.	Dropsy		••	••		**	**	••	**		- **	••				***	••	**	***	**	••			••		••		**
79.	puerperal Ill-defined causes	283	153	131	18	1		 —	151							···	···	-:				-		-			7	
	eneral diseases		3,599	268	250	173	158	68	917	147	51	136	206	258	330	353	318	232	210	129	105	83	67	32	19	6	62	2
	. Tubercular diseases.	135 (5)	1,732	59	37	14	20	8	138	15	24	97	156	197	253	265	208	154	108	46	35	22	11	2	1		39	
	. Cancer	975	343	••			1		1	2	**	3	4	5	5	17	33	34	50	44	38	35	38	20	11	13	5	**

SATURDAY, NOV	EMBI	ER 30,	1907.				1	TH	E	CI	TY	R	EC	0	RD										1	1239	7
Cause of Death.	Total, Both Sexes	All Ages	Unde. Year	1.	2.	3.	4	Total, Under 5.	5-	10.	15.	30.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	Chinese.
I.—Diseases of nervous system and organs				1		1																					17
II.—Diseases of circulatory		1,050	- 10	53	31	15	10	251	35	20	21	20	20	27	37	44	49	75	81	91	83	79	68	37	12	25	-7
V.—Diseases of respiratory	131193	1,161		3	1	3	1	24	18	18	18	28	41	53	59	73	80	105	137	133	141	117	68	35	13	26	
y.—Diseases of Digestive		2,450		332	111	52	28	1,193	69	21	38	55	67	107	115	104	123	79	80	117	93	88	56	26	19	48	
/I.—Diseases of genito-		10100	1,025	175	45	13	11	1,269	20	13	20	31	37	49	45	54	65	55	44	55	34	33	25	19	9	35	11
	2,308	1,171	11	6	8	1	1	33	19	10	20	23	48	65	99	94	87	118	104	118	134	87	56	43	13	15	
/II—Puerperal diseases	249			**	**	**					**	**					1.00	**	• • •	**	• •					**	
VIII.—Diseases of skin and cellular tissue X.—Diseases of locomotory	70	38	3		1		100	4	1				1	3		6	1	3		4	4	2		,	1		ri
system	54	28	6	3	2		1	12	1	3	3	1			1	1		1	2		,					2	
Malformations	309	165	151	7	1, 1	1	2	162		3																3	
I.—Diseases of infancy	1,084	655	653	2		1 .22		655																		12	
III.—Diseases of Old Age.	393	150					**												2	3	13	11	35	40	46	1	
III.—External causes	1,330	1,026	16	13	15	12	15	71	63	38	50	96	85	99	115	103	67	64	54	57	26	10	9	7	2	16	
a. Suicide	204	168								2	5	10	16	15	23	15	12	14	22	15	8	6	3	1		1	
b. Homicide	81	71		,			1	1		2	6	11	11	5	18	5	5	5	1	1						1	
c. Accident	1,045	787	16	13	15	12	14	70	63	34	39	75	58	79	74	83	50	45	31	41	18	13	6	6	2	14	
IIV.—Causes ill-defined	283	1 53	131	18	1	1		151							1	r					**					7	
	_		_	-	-	==	-		_	=	_	-	=	-	=	-	==	=	_	_		_			_	-	
otal males		13,523	3,092	862	389	262	137	4,742	373	177	306	460	557	733	825	798	705	710	634	684	612	504	354	227	122	252	
otal females		11,501	2,361	709	359	218	158	3,805	348	195	252	427	513	530	507	541	459	548	599	638	644	563	440	281	211	251	
Total, both sexes		25,024	5,453	1,571	748	480	295	8,547	721	372	558	887	1,070	1,263	1,332	1,339	1,164	1,258	1,233	1,322	1,256	1,067	794	508	333	503	_

Deaths of Females, by Age, and Cause of Death, for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	<b>30.</b>	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hin- ese.
	I. General Diseases.										-																	-
1.	Typhoid fever		95			**		2	2	4	7	12	16	14	14	10	7	5	2				1	1			1	
2.	Typhus fever	**											**		**				4.									
3.	Relapsing fever			1441	**	**	**					**-	**															
4-	Malarial fever		13		2	z	**		2		1		1	1	1		I		2	1	2		1				3	
5.	Smallpox	**	2	1	**		1		2							**										1.		
6.	Measles	**	220	53	80	44	23	7	207	11		2	**														3	
7.	Scarlet fever		132	14	19	24	18	12	87	28	9	1	3	2		1	1	**	++									
8.	Whooping cough		83	42	19	12	4	3	80	3	**	•••	.,	**													3	
9.	Diphtheria and croup.		360	33	63	75	48	42	261	75	16	5		1	2			1			1						3	
10.	Influenza		69	8	4	3			15	2	1	2			1	2	7	3	5	4	5	5.	8	4	2	3	5	
11.	Miliary fever			**											**						**							
12.	Asiatic cholera	4.				**					**	• •			**								**				34	
13.	Cholera nostras						** 1			**	••	•••	**			.24												
14	Dysentery		36	5	1	3		2	11			2	1	3			1			3	1		4		5	1	2	
15.	Plague										**	**						**										
16.	Yellow fever	**		**									**	**														
17.	Leprosy						••																					
18.	Erysipelas	44	38	16	2				18			2	1	1			1	2	2	3	2	1		2		3	1	
19.	Erysipelas Other epidemic dis- eases		- 4	r			2		3																	1		
20.	Pyzmia, septiczmia		1	1					1																	94		
21.	Glanders			**					**	**																		
22.	Malignant pustule																			99								
23.	Hydrophobia					**																						
24.	Actinomycosis												44															
242.																												
25.	Pellagra																											
26.	Tuberculosis of larynx		8											4	1	2		1										
27.	Tuberculosis of lungs		1,053	4	3	1	5		13	6	29	107	167	173	157	126	90	52	39	39	18	30	10	3		4	46	
28.	Tubercular meningitis		87	17	15	14	10	3	59	15	5	2	3	1			3										4	
	Abdominal tuberculosis		30	8	1				9	1	2	2	3	3	2	3	1	2	4								2	
29.	Potts' disease		12							4	2		1	1		1		1	1		1						1	
30.	Cold abscess																2											
31.	White swelling		7				1	1	2	1		2					1											
33.	Tuberculosis of other								3		1		1	**														
	Organs	••	10						1				1						1	1								
	General tuberculosis	••																										
	Scrofula	••			••	••			11					1		2												
1	Syphilis		14	11	**	**	••	••		•	•	••																
	Gonorrhæs (adults)	**	**	**	**	**		••		••	••	**																
38.	Gonorrhea (children) Cancers, etc., of the	••	**	••		**	**	**	•••	••	***					1		1	1	1		1			221			
	Cancer of stomach,	**	7	**	**	•••	**	••		••	••	••				6										**		••
	Cancer of intestines,	•••	240	••	••		**	**	**	••	**	••	1	3	3		25	21	33	37	40	34	19	11	•	5	3	••
	Cancer of female gen-	- 44	72	••	••	**	**	••	**	• •	••	1	**	•	2	3	5	4	10	10	10	10	8	2	3	**	**	• •
	ital organs	••	145	**		**	•••	** -	***	••	••	••	••	2	6	12	20	24	16	15	24	10	7	6		I.	5	••
43-	Cancer of the breast.	*	95		••	**	•••			••	**	**	**	**	2	6	21	12	6	14	9	10	7	5	2	1	1	••
200.00	Cancer of the skin Cancer of other or-	**	3	***		**					**		**	**	••	••	1	••	••	**			2	**	••	••		
	gans and unspecified Other tumors (except of female genital	**	70	**		**	1		1	1	••	3.0	**	3	4	2	8	5	11	8	10	5	7	2	*	1	**	••
	organs)		8	z				••	1		**					••	1	••	2	3			1					

Series of the se		12398		-						ГНІ	Ī.	CI.	TY	R	EC	OI	RD.	•				SATU	JRDA	Y, N	OVE	MBE	R 30	, 1907	
3. Amount of the control of the cont		Cause of Death.	Both	All-Ages.	1	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.		
Milleren	47.	matism		87	1	i		3	6	11	10	5	5	3	6	5	3	4	6	7		5	8	3	2		1	2	
Selection   Sele		and gout		21					1	1	3	1				2	2		2	••	**	••	5	2	3				•.
Part	49.			122							**						7	6		10	12	16	24	112	8				*
18. Palement internal and a section of the content	51.									***				, 1							1	1							
A Manufach Albered Manu	52.				**	**																**			**				
Second content	53.					**		**	**		•	••				1				**					••		••		,
Service Servic		Other general diseases											100																
Selection of the content of the cont	56.	Alcoholism, acute and chronic		24											3	3	6	6	3	3									
## PROPERTY OF PRO	57. 58.	ings of occupation. Other chronic poison-					**											••					**						
Semigraphish   131   15		II. Diseases of Nerv- ous System and Or-	•••	2			••	•••	••		••				••	••			••	•••			••		•••	••			*
Section of which we shall be considered the control of the control	60.																												
	61.			135	29	24	11	11	8	83	17	11	4	5	9	2	ı	1	**	1	1		*	**	.,			5	
\$ - Other Conservation	61a.	Cerebro-spinal menin-		79	8	11	8	7	8	42	10	9	3	5	7	1	i			1								2	
a fermion of the second of the	62.	Locomotor ataxia Other diseases of spinal		6								**				••		2		**	3	**		1				**	
6. Seftenessed State 1	64.	Apoplexy, congestion				**	••	1	**	1	2	**		1	1	2	1			-4	4		4		-		• • •	**	• •
66   Petrophysis composition   1   1   1   3   1   4   3   5   4   3   5   4   3   5   4   6   6   6   6   6   6   6   6   6	65.									3			**			1	**						1		1	3	4		
8. Gelley 1 3 1 1 2 3 1 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66.			31										1		1	1	1	1	3	1	5	4	3	5	1	4	1	
50   Edges   20   1	67. 68.	Other forms of insan-	**		**	**	**		••		4.			**	**	**	**	••	**	1	1	2	2	4	1	3	2	1	
Company   Comp	69.	Epilepsy				1		1		2	2			2	1	3		4	2	1	1	1	1	1		**			
2. Teams, rimme	70.	Convuisions (not puer-	**											**	**		••			**		••	••	••	••		**	**	
2 Cheere servine dis	71.		**		75	10	2	2	1	90	••	••		441	**		••		**				**	**	**	•••	**	**	• •
3. Section of the system.  7. Diagness of the system.  8. Acute canbacarditis.  8. 27 2 2 1 2 1 2 1 3 1 5 5 8 12 11 12 8 12 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14	73.	Chorea									2	**																1	
Marging   Section   Marging   Marg	74.	Other nervous dis-		25	1			1		2		2	2	1	2	2	4	2	2	I	1	1	1	2			**	1	
III. Disease of Circulatory Systems. 77. Periorditis 77. Perio						••	1	••	**	1		••		**	**			••	**		••	**	• •		**	**			
Calcitory System.  7 Pericentifis.  7 2	76.			13	2	1	1	**	1.5	4	I	1	1														•	• • •	
	~~	culatory System.		7	22		- 22				,					1			7					1		1			
1.	78.	200 000 000 000 000 000 000 000 000 000		173	2		1	2	1	6		4	4	5	8	11	11		8	12	15	14		19		5	3	4	
15. Diseases of arresies.  20. Babbins, thresholds.  21. 1	79.	Organic heart diseases		805	4	2	1		٠.	7	15	15	16	18	29	30	42	46	51	75	80	94	101	7.9	58	33	17	17	
Beholiss. Introduction (characteristics) 38	80. 81.	Diseases of arteries,			**	**		• • •	••	**	**	••	**	**			1						7	7		1 2		••	• •
Chemorholds, was been proposed as a second proposed proposed as a second proposed propo		Embolism, thrombosis		-							1		1	2	2				1	1	5	4	6	6					
4. Diseases of lymphatics 15. Hamorrhags 16. Other diseases of circulatory system. 17. Diseases of Respiratory System. 18. Diseases of Respiratory System. 19. Diseases of Respiratory System. 19. Diseases of Respiratory System. 20. Diseases of Respiratory System. 21. Diseases of Respiratory System. 22. Diseases of Respiratory System. 23. Diseases of Respiratory System. 24. Diseases of Respiratory System. 25. Diseases of Respiratory System. 26. Diseases of Respiratory System. 27. Diseases of Respiratory System. 28. Diseases of Respiratory System. 28. Diseases of Respiratory System. 29. Diseases of Diseases of Paryma. 20. Diseases of Diseases of Diseases of System. 20. Diseases of Diseases of Diseases of Diseases of Respiratory System. 20. Diseases of Diseases of Diseases of Diseases of Diseases of System. 20. Diseases of Diseases of Diseases of Diseases of System. 20. Diseases of Respiratory System. 20. Diseases of Respiratory System. 20. Diseases of Respiratory System. 20. Diseases of Diseases of Diseases of System. 20. Diseases of Respiratory System. 21. Diseases of Respiratory System. 22. Diseases of Respiratory System. 23. Diseases of Respiratory System. 24. Diseases of Respiratory System. 25. Diseases of Respiratory System. 26. Diseases of Respiratory System. 27. Diseases of Respiratory System. 28. Diseases of Respiratory System. 28. Diseases of Respiratory System. 29. Dis	83.	(hæmorrhoids, va-		8	,						16.0					2			1	1				2	1				
1.   1.   1.   1.   1.   1.   1.   1.	84.	Diseases of lymphatics		1	1					1				**			••								**		• •		
Cultatory system.  IV. Diseases of Repipiratory System.  Diseases of the largyon.  B. Diseases of the largyon.  B. Diseases of the largyon.  Chronic bronchitis.  261 147 28 13 3 6 207 5 1 1 0 1 4 7 6 10 7 9 3 6 6 10 7 9 3 6 6 10 7 9 3 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	85. 86.	Hæmorrhage Other diseases of cir-	**	5	1	**	**			1	1	2		. **	••		••	**	1	**		**	••	••	••			**	
piratory System.  5. Diseases of the larynx 5. Diseases of the larynx 6. Acute bronchitis.  6. Acute bronchitis.  7. Diseases of the larynx 7. Diseases of the larynx 8. Diseases of thyroid 8. Diseases of the larynx 8. Diseases of thyroid 8. Diseases of thyroid 8. Diseases of the larynx 8. Diseases of the larynx 8. Diseases of thyroid 8. Diseases of the larynx 8. Diseases of the larynx 8. Diseases of the larynx 8. Diseases of large, 8. Diseases of planyx 9. D		culatory system	**	••	**	**	••	**	••	**	••	**	**	••				••	**	••			••	••	**		••		**
Sabe Diseases of the laryux  Diseases of the laryux  Sab Diseases of thyrode  Sab Diseases of the laryux  Sab Diseases of thyrode  Sab Diseases of playrux  Sab Diseases of playrux  Sab Diseases of storbands  Sab Diseases of playrux  Sab Diseases of playrux  Sab Diseases of storbands  Sab Diseases of playrux  Sab Disease		IV. Diseases of Res- piratory System.																											
9. Diseases of thyroid giand  0. Acute bronchitis.  26. 147 38 13 3 6 207 5 1	37.			1						.,		1																	
gland	88.	Diseases of the larynx Diseases of thyroid	44	11	2	4	2	**	••	8	++	••	**		•••	••	**	1			1			1	•••	••	**	**	••
11. Chronic bronchitis 102 1 2 3 3 . 1 7 . 3 . 3 . 2 3 4 . 7 6 14 18 8 13 10 4 2 .  22. Bronchopneumonia 717 289 156 50 21 14 530 24 7 3 7 4 1 8 3 5 9 20 19 17 24 15 16 5 8 .  23. Bronchopneumonia 717 289 156 50 21 14 530 24 7 3 7 4 1 8 3 5 9 20 19 17 24 15 16 5 8 .  24. Pleurisy		-			147	38									**	11					4				7		3	6	
3   Pneumonia   881   106   71   44   20   18   259   27   16   17   31   27   43   33   39   48   49   63   66   55   43   36   15   14   20   24   24   27   27   27   27   27   27							1							3		2	3	4		7	6		18		13	10	4	2	
	2.	Broncho-pneumonia		717	289	156	50	21	14	530	24	7	3	7	4	1	8	3		9	1		17	24		16	5	8	
25   Congestion of lungs, pulmonary apoplexy   12   2   2   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   2   1   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   1   3   3							***								27		33										14	20	**
36   Gangrene of lung	94.	Congestion of lungs,												.,	1						1			1	2		1		
	96.	Gangrene of lung	24	3						**	•••				1		.,	1			1	••							**
Other diseases of respirant ory system (phthisis excepted).   17	97.			-		••	••	**	••		••	**	**	**	1	**	1		3	1	4	2	2	9	1	2	1	**	••
tive System.  Diseases of mouth and adnexa	98. 99.	Other diseases of res- piratory system		3.5							2			3	2	1	1	x		2	1	1	1	2		1		1	
adnexa		V. Diseases of Diges- tive System.																											
Diseases of pharynx. 7 1 1 2 3 1 1	00.	Diseases of mouth and		1			0.5			*				110		-11					-		1	12.0		124			
Other diseases of stomach   Other diseases of stomach   Cancer except   cd	01.			7	1			1		2	3	1	**		1			**											
Other diseases of stomach (cancer excepted)	02.		++	1	1	••		**		1				**			••		••		.,	••		••	**	.,		•••	• •
ed)	03.	Other diseases of stom-	**	21	••	••	••	**	••	**	**		••	2	*	1	1	4	2	1	1	2	**		••	1	1	••	• •
Of which Chronic diarrhea.  Chronic diarrhea.  (two years and over)	05.	Diarrhœa and enteritis					2	2		20	2		0.0	••	2	3	2	2	3	3	6	2	8	2	5	6	1		
Diarrhoga and enteritis (two years and over)		Of which						••		- 100	••	• •	**	**	••		••	**		19.50		100					••		• •
over)	06.	Diarrhœa and enteritis (two years and	**		**	••	1		••		••	•	**	••	•••		•••	**								••			
8. Hernia, intestinal obstruction	07	over)				**			8		10		1	2	25	**	5	4	4	6	10.75	11	11	8	7	4	7	1	
testines	08.	Hernia, intestinal ob- struction				1							1	. 1	4	8	6	11	5	8		7	7	5	5	3	24	1	
of liver	10.	testines	1.	17	4	1				5	1		**		4	1	**		1	. 1	1	**	1	1	••	1		••	
		of liver			••	I				1		••	**	••	1				**		**			••			1		**
												1		2	8									3	7	2	1		

33	SATURDAY, NOV	ЕМВЕ	R 30,	1907.		98		1	THE	E (	CIT	ΓY	R	EC	OF	RD.										1	2399	-
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2,	3.	4.	Total, Under 5.	5.	10.	15.	20,	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	hin-
113.			21			46						**	i	1	1	3		4	3	3	ı	2	1	1				
114.	Other diseases of liver	**	25 1									**.			3	1	3		2		3	3		3				
116.	(non-puerperal) Other diseases of di- gestive system (ex-	**	6	**	••	**	**			••	1		••	**	2	2					••	••	1				••	**
118.	c e p t tuberculosis and cancer) Appendicitis and iliac abscess	**	66		**			2	3			10	3	8	3	5	5	3	4	3			**			**		
	VI. Diseases of Gen- ito-urinary System.																										*	
119.				4	. 1	4	3	2	14	3	8	3	7	12	8	11	9	2	2	6	5	8	6	2	1	1	2	
120.	Bright's disease Other diseases of kid- neys and adnexa		890	1					7	7			28	44	48	63	63	69	1 81	75	94	108	69	64	34	17	12	
122.		**	10		••	••	**	**	**	**	••		**	**	**					1	**		1		• • •	••	**	
123.	Diseases of bladder Diseases of urethra, urinary abscess, etc. Diseases of the pros-												**															**
125.	Non-venereal diseases of male genital or-	**	**	**		**			**		••	**	**		•••	••		••	• •	**	**			••	••	••		••
127.	gans	**	6		••		**	**	**		**						**			,		**		**	••	• •		
128.	Metritis	**	1	.,								**		,,		1												
130.	Other diseases of		26	**	.,				**		**			1	I		11	4	2	2	3	1	1		**	.,	2	**
131.	Ovarian cysts and tumors Other diseases of fe-	.,	25					.,				1	1	6	2		4	3	4	2	1					1	**	
132.	male genital organs Diseases of breast (not puerperal, nor can-	**	44			**	**	•••	**	**	**	2	9	11	6	10	4	**	2	**	**	**		**	**		3	
	vii. Puerperal Diseases		**	••	**	***		**			**	••		**		••	••	44	**	••	**	**,		**	**		• • •	••
134.	Accidents of pregnancy		54								**	1	7	13	23	8	2											
135. 136.	Puerperal hæmorrhage Other accidents of la- bor	**	12 56									2	3 8	11	11	15	7	2	**							**		
137.	Puerperal septicæmia. Puerperal albuminuria		79			14						3	24	17	21	9	5			**							2	
139.	and convulsions Puerperal phlegmasia alba dolens		38	**	**	**							7	8	12	6	2		**									
140.	Other accidents of par- turition, sudden death		10	**			1.0						2	3	2	3												
141.	Puerperal diseases of breast				.,.	.,	••	•••			**										**						**	
	VIII. Diseases of Skin and Cellular Tissue.																											
142.	Gangrene	••	19	•••			**	**												2	1	2	6	4	3		**	
144.	Phlegmon, acute ab- scess Other diseases of skin		6	,,		1	**		1	2			••		2						1						**	
	IX. Diseases of Loco-	**	4	2	**	••	**	**	. 2		• • •		••			••	••	**		••	**	**	••		**	1	**	••
146.	motory System.  Diseases of bones (non-tuberculous)	**	24	. 8		2			14	2	3	2	1	ī				1				- 52						
147.	Arthritis, other dis- eases of joints (ex- c e p t tuberculosis and rheumatism)		2												1								1			**	4	10
148.	Amputation Other diseases of or-	**	**	**	••	• •											••			••							**	
	gans of locomotion  X. Malformations.		**	**	••	**	••	••					••	••		**				•••			••	••	••	••	•••	
150.	Congenital malforma-		144	137	5	4.			142	2	••		***											• •			1	
151.	XI. Diseases of Infancy. Congenital debility, ic- terus and sclerema																											
	Injury during birth. Other diseases peculiar		367 46	367 46	••				367 46	•••			**													.,	15	
	to infancy		13	13		**			13			••	**	••	••	••	••	••		••			••		••		1	
153.	XII. Diseases of Old		. 3	3	71	**	••	**	3	••	**		.,	••		•										.,		•••
154.	Age. Senile debility		243	**		**				••	••		.,		***				1	2	2	10	41	56	65	66	3	
	XIII. External Causes.									1			4 3				1.2											
155.	Suicide by poison Suicide by asphyxia.		7											2	2	2		2	2	2	1	1	***		••			
	Suicide by asphyxia. Suicide by hanging or strangulaion		4				••								••	••	69	2	••	••	1			1		••		••
159.	Suicide by drowning. Suicide by firearms Suicide by cutting in-		4									1	1			1	1							**	.,			11
160.	Suicide by precipita-		1			**	••		••					**			**	••		**		1	***	**				••
	Suicide by crushing. Suicide by other meth-		3																									
	ods			1.0		**		••	.,	••	••	•••	••		**	••	••		**	**	••		**		••			••
165.	Dislocaions							••2							••													
166.	Other accidental injuries	**	102	1	5	5	3	9	23 27	15 21	3	2	2	1	4	4	6	2	8	2	4	5	6	6	5	4		* 1
168.	Burn, by fire, scald Burning by corrosive substances	••	74														44								•••			•
	Sunstroke	**	10	2	••			1	3	I	**		**	1	•••		1			1	1				**	**	1	::
170.	Freezing	**												**	**				**									••
172.	Accidental drowning.  Inanition (starvation)	**	9	••	**					**		2	1		2		2	**										••
173.	Inhalation of noxious gas, not suicidal	••	29	1					1	1	1	2	4	4	1	I	1	2	1	4	3		. 2		1		1	
_			-	-	-		-	-			-				-				-			-				-		-

-

12	400								TH	E	CI.	TY	R	EC	01	RD	100		F.	139	SATU	IRDA	Y, N	OVE	MBE	R 30	, 1907	
-	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20,	25.	30.	35-	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hir
175.	Other acute poisoning		18		3	2			5				4	3		2	- 1	2				**			-			-
176. (	Other external violence Of which a. Homicide, by	**	21	3	••	٠٠,		**	3	**	••	1	6	3	2	1	2	i	1		1	••	**	**	•••	••	- 10.0	4
	b. Homicide, by sharp instru-	. "	**	••	**		**-		**			••	**		••	**	**	•••	••		**	••	••	**		**	,	
	c. Homicide, by		3		**	••	**		**				1			1	**	**	••		1	**	**	**	**	•••	**	
	d. Homicide, by	**	5	**			155	- 11	••	• •	••	••	1	**	1		1	1	.,	••	**	••	. 11	**			***	
	e. Homicide, by	++	1	••	**			**	- **	- **	**		- 1.33	**			. 1		- • • •				**			**		
	other methods.		1				••			++	••				1												146	
3	XIV. Ill-defined or Not Specified Causes.																											
77. I	Dropsy											11.															- 50	
78.	Oropsy Sudden death, not puerperal									S				٠														
79. I	Ill-defined causes		130	116	12		1	1	130				**								1.1						10	
		-	-	-	==	_	-	-		_	_	=	=	=	-	_	-	=	=	-	=	-	-	-	_	_	-	-
.—Ge	neral diseases		3,205	223	211	177	116	79	806	165	82	149	208	237	213	194	212	154	156	158	149	136	93	51	21	21	88	
	a. Tuberculous dis- eases		1,214	34	21	15	16	4	90	27	40	114	176	184	161	130	95	56	45	40	19	20	10	3		4	53	
	b. Cancer		632	44			1		1	1		1	1	12	17	30	80	67	77	85	95	70	50	26	11	8	9	
I.—D	iseases of Nervous system and organs																											
77 7	of sense Diseases of circula-		948	116	36	15	16	9	192	24	16	9	11	18	22	21	36	40	69	79	98	79	93	68	37	36	22	
	tory system Diseases of respira-		1,098	9	2	2	2	1	16	21	22	22	25	40	45	56	64	70	91	104	119	138	118	81	42	24	22	
	tory system iseases of digestive	**	2,065	548	273	114	45	39	1,019	60	28	21	46	37	51	50	51	57	71	103	111	104	100	74	54	28	38	
	system		1,491	755	154	28	20	10	967	22	20	12	12	34	35	38	49	42	44	51	40	47	22	28	17	11	22	
v 1.—1	Diseases of genito- urinary system		1,137	10	1	5	4	3	23	10	16	19	47	76	74	89	94	79	96	91	104	119	78	67	36	19	19	
VII.—	Puerperal diseases	4.	249									8	51	53	71	43	18	5		4.6							3	
VIII	Diseases of skin and cellular tissue.		32	2		2			4	2		1	- 2	22					-	2		2	6					
X.—D	Diseases of locomo- tory system		26	8	4	2			14	2	3	2								-	3	-		•	3			
к.—м	alformations		144	137	5				142	2						**	**	1	•••	••		••	1	**	**	••	4	
	Diseases of infancy		429	429					429												• • • • • • • • • • • • • • • • • • • •		•••	**		**		
	Diseases of old age		243																1	2	2	10	41	56	65	66	.,	
XIII	-External causes		304	8	11	14	14	16	63	40	8	9	26	17	16	15	17	11	19	9	12	9	11	11	6	5	2	
	a. Suicide		36								1	1	5	3	5	3	3	4	3	2	2	3		1				
	b. Homicide		10									1	2		2	1	2	1			1					12.3		
	c. Accident		258	8	11	14	14	16	63	40	7	7	19	14	0	11	12	6	16	7	n	6	11	10	6			
IV	-Causes, ill-defined		130	116	12		1	1	130																		10	
	Total, females		11.501	2 26.	700	250	218		2.804	1/9			427	512		507		450			629			440		_		-
	rotal, remaies		11,501	2,301	709	339	210	130	3,005	340	195	232	4-7	3.3	230	201	341	439	540	599	030	044	503	440	261	211	251	

BOROUGH OF QUEENS.

Deaths of Males, by Age, and Cause of Death for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3-	4.	Total, Under 5.	5-	10.	15.	20. 2	5- 3	30. 3	15. 4	0. 4	15- 51	0. 5	5. 6	). <b>6</b>	5. 7	0. 7	5. 8	io. 8	5. C	Col- Chi	n-
	I. General Diseases,																											
ı,	Typhoid fever	30	21	**	1				1	1	1	1	3	r	2	3	2	1	2	2			1				1	
2.	Typhus fever			4.0																**								
3.	Relapsing fever														**					.,								
4.	Malarial fever	7	4	1				1	2			1										1						
5.	Smallpox																							**				
6.	Measles	25	9	3	2	1	1	1	8	I.														**				
7.	Scarlet fever	15	9		I			4	5	4																		
8.	Whooping cough	23	14	7	4	2		4.4	13	1					1.1													
9.	Diphtheria and croup.	94	50	2	8	12	6	7	35	8	7						14											
10.	Influenza	11	4			4.4		1	1								1					1			1			
11.	Miliary fever								**																			
12,	Asiatic cholera																											
13.	Cholera nostras	1	r									.,			1													
14.	Dysentery	13	9	1	1	1		1	4					1	1				1	2			44					
15.	Plague			**																								
16.	Yellow fever																											
17.	Leprosy				44																							
18.	Erysipelas Other epidemic dis-	6	3	1					1			1							1				.,					
19.	Other epidemic dis-																											
20.	Pyæmia, septicæmia	1	1															1										
1.	Glanders																									-		
22.	Malignant pustule												1.0															
23.	Hydrophobia	2	1																									
24.	Actinomycosis																											
24a.	Trichinosis																										2120	
25.	Pellagra																											
	Tuberculosis of larynx	7	5												1	1			2		T							
17.	Tuberculosis of lungs	308	184		1	1			2	1		12	27	21	29	20	17	26	8	9	6	3	2	1			4	
	Tubercular meningitis	25	11	5	3				8	2				1													H	
19.	Abdominal tubercu-	4	1																			1						
30.	Potts' disease																											
	Cold abscess	. 1	1			2		1	1																		1 20	
12.	White swelling												100							- 1		- 1.					-	1
33-	Tuberculosis of other organs	3			24	44	5.0	100	0.0				1	1	- 1		44		7.4			16		100	1 1	-	-	

5	SATURDAÝ, NOV	EMBE	R 30,	1907.	12			7	HE	a Q	CIT	Y	RI	ECC	OF	D.	T)									1	240	1
4	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	I.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75-	80.	85.	Col- Cored.	
34.	General tuberculosis	r	1			.,,	47						40	44	V.,	99								:			4.1	
35.	Scrofula			**		**		••		**	**	**	**	**		••	••			•••			••		••		100	**
36.	Syphilis	3	3		**				1	**			**	**	2	** '	***	•••		**			*:	**				. **
38.	Gonorrhœa (children)																	***		**	**		**	•••	**	**	5.3	
39.	Cancers, etc., of the mouth	2		**									++															
40.	Cancer of intestines,	57	25		**			••		••	••	**		4.	1	1	2	1	3	4	5	4	4					
42.	Cancer of female gen- ital organs	12	6	199	• •	**		**	**	**		**		• •	**		2		1	*.*	1	1	1		••	**		• •
43.	Cancer of the breast.	19															**	**		**		**	**	•••	• • •	**		**
44.	Cancer of the skin Cancer of other organs	5	2																1		1				**			
	and unspecified Other tumors (except of female genital organs)	15	9	**	**,	**						**			1		1	••	1	1	••	1	2		1			••
47.	Acute articular rheu- matism Chronic rheumatism	2	2	**																								
	and gout	1	*	**	••	**					••			. 1	14.4	**		•••	**	••	• •	**	••	••				
<b>49.</b> <b>50.</b>	Diabetes	32	14										1	2	1		1	1			3	2	2	1				
51.	Exophthalmic goitre	2						***	••	••	••	••	**.	••	••	••			•••	**	••	••		••	**	••		
53.	Addison's disease	2	· ·													1												**
54.	Anæmia, chlorosis	4	2							**						1	1				:.							
55. 56.	Other general diseases Alcoholism, acute and				••		**	**	• • •	••	••	**	**	**		••		7	.,	••	**		**	**	••		- 11	**
	chronic	19	18		••	• •	**	**		**		**	••	**	2	1	6	5	2	1	1	**	**	16	**	••		**
57. 58.	Cher chronic poison- ings of occupation. Other chronic poison-										**	••	144															**
	II. Diseases of Nervous System and Organs of Sense.		••				***	••		••																		5.5
60.	Encephalitis									••							••		••			• • •	**		••	••	**	.,
	Simple meningitis (Of which)	49	23	7	5	2	1	1	16	3	1	1	7.5	1	1	••	**	**	**	***	**	• • •	**		**		**	• • •
61a.	Cerebro-spinal meningitis	16	7	1	2		1	1	5		1			ı	**			**	••	••	9.8		4.4	**	**			
62. 63.	Other diseases of	4	4	**		••	••	**					**					1							**	**	**	
64.	Apoplexy, congestion of brain	157	86										,,		1	2	5	3	3	7	19	12	13	12	6	3		
55.	Softening of brain	3			,,								••						**					2.5	25			**
66.	Paralysis unspecified.	5	3	1	**				1	**	**			**	**		1 2	3			**	••	**	1	**		••	• • •
67. 68.	General paresis Other forms of in- sanity	7	7		**							11	1	1				1	1									
69.	Epilepsy	. 6	2										1	49				1		24								
70.	Convulsions (not puer- peral)										**	**	•••		**	**	**	***	**	**	••	••				**		**
	Convulsions of infants Tetanus, trismus	46	22	16	6	**	**	**	22	1	**		44						**	**.	**						1	
72.	Chorea		3										44					*:										
74.	Other nervous diseases	3	2									11		• •	11	1		1		**	11	**			**	••	• •	••
75.	Diseases of the eyes.		••	•••	••	••	**	**	**			••	4.4	**				••					**	••				••
76.	Diseases of the ears.  III. Diseases of Circulatory System.	••	**		••	•••		.,	••		••					•••		••				.,	- 55					7.0
77.	Pericarditis	**			٠.			••				••	**	**	.,	••	•••	.,		••	**	• •	••	••	••	**	••	
78.	Acute endocarditis	9	5	2	• •	••	**	• •	2	1			3	8	1	8	7	8	11	15		26		10		2		••
80.	Organic heart diseases Angina pectoris	289	149							5											1							
đī.	Diseases of arteries, aneurism, etc	15	10	**													1		1			1	4.		1	2	.,	••
82. 83.	Embolism, thrombosis Diseases of veins	8	6		••	•••	••	••	**	I	••	••	**	**	**	1	1	••	1			• •		2		,	**	•••
SA.	(hæmorrhoids, var- ices, phlebitis, etc.) Diseases of lymphatics		**				.,	**							**					••			••	**	••		**	••
	(lymphangitis, etc.)	**	. **	••	**	**		••	**	••		**	**			**				**	**							**
85. 86.	Other diseases of cir- culatory system	3	2					,,													1.			••	**			
- - - -	IV. Diseases of Respiratory System.																											
37.	Diseases of nasal fossae	**	1.0					••	•••	**		••			••		••	••	**	••		•••	**	**			**	
8. 39.	Diseases of the larnyx Diseases of thyroid gland	2							••				* **				**										.,	
0	Acute bronchitis	62	33	16	5	3	1		25	2	.,								1		1	1	1	1	1	••	••	**
	Chronic bronchitis	7	4	**							.,		**	•	••		••	• •	**	1	1	* * *		2		••		
	Broncho-pneumonia .	212	115	59	20	2	4	4	89	5	**	2	2	2	8	8	10	18	12	5	6	6	5	1	1	2	5	
4.	Pneumonia	271	147	35					1		11	2	1	2	1		3	1	1	1	1	••				1		
5.	Congestion of lungs, pulmonary, apoplexy			••	**	**	.,	••	**	••	••	••			••			••	••	••	••	••	••	••		••	**	••
	Gangrene of lung	2	2	• • •	**	**	**	1	1	**	**	**	•	179		**	**	100				••	**	1			**	
8.	Asthma	4	2				1		- 45		.,				4.		1	**						1	On S	1.2		**
99.	(phthisis excepted)					38								:	••		••.	••		.,	••		**		••	,.	••	
00.	V. Diseases of Diges- tive System.  Diseases of mouth and	-							•	-			1				11	1			1		1	41		5-		
	adnexa	1	•••		2.0	**	**	**		200	**	**		110			14						**					
oI.	Discases of pharynx	3	3	39	1.1	3.5	1233	32	- 6	100	1.	122	4 (4	100			- 2	9.	- 54		32	-		-	1 3	- 19	1 11/2	

=	12402								TH		C1	1 Y	R	EC	OI	<b>CID</b>		Lanc.			SATU	JRDA	Y, N	OVE	MBE	R 30	, 1907	
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4-	Tetal, Under 5.	5.	10.	15.	20,	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hin
	Diseases of œsophagus	,,			.,	111	**										144		**							••		-
3.	Other diseases of stomach (cancer ex-	6	1						**	••	••	**	••	••	***	••	••		2.8	1	••	••		33	**	••	**	
,	cepted) Diarrhœa and enteritis (under two years).	382	5 212	188	24		**	**	3 212	**	•••	**	**	••	1	**	1	••	••	**		•••	••	••		**	**	
	(Of which) Chronic diarrhœa				.,																				**		3	
	Diarrhœa and enteritis (two years and over)	32	14										2		,													
	Intestinal parasites																								/		**	
3.	Hernia, intestinal ob- struction Other diseases of in-	32	15	3			2		. 4							2			. 2	1	1		2	1		1		
	Acute vellow atrophy	2	2	••	••				**	**	••	••			••	**		**		1	**		••	•••	**	1		
ı.	of liver								**														**	••			**	-
2.	Cirrhosis of liver	51	38		**				.,		1			1		5	5	8	2	6	6	r	2		1		1	
3.	Biliary calculi	1			**				**	**	••	*	199	***	***	**	· -			**	-							- 1
	Other diseases of liver Diseases of spleen	2	1	••	**	**	••	••	4.	**	2.			16.	***	**	**	••	**		**	••	1		**	••	**	-
6.	Simple peritonitis (non-puerperal)	4	1	1					1					**	***	4								••	**	**		
7.	Other diseases of di- gestive system (ex- cept tuberculosis																				2.1						•••	
8.	and cancer) Appendicitis and iliac			•••			•••	**	••	••	••	••		***	٧.	14.	••	••						••	•••			-
	VI. Diseases of Genito-	29	12				••		••	1			.3	3	**	2	.3	.1		1	••	••	••	***			••	
•	urinary System. Acute nephritis		20						-		2														ė			
ю.	Bright's disease	47 263	145	3			i		3				1	2	6	9	17	17	11	15	18	18	13	5			5	
I.	Other diseases of kid- neys and adnexa																											
	Urinary calculus	**	**	**	++	**	••					**	••	••	••		**		**	••		**						1
3.	Diseases of bladder Diseases of urethra, urinary abscess, etc.	4	4	**	•••	••	••		**	••	••			••	**	••			••	**	. **	••	1	1	1	1	**	
5.	Diseases of the pros- tate	1	1																									13
6.	of male genital or-																											-
7.	Metritis																	2.					**			**		
3.	Uterine hæmorrhage (not puerperal) Uterine tumor (not																											
٥.	Other diseases of	4		••	**		•••	**		•••	••	••	**		••		***	••	••		***			••		••	••	
	Ovarian cysts and tumors	2							** *	**	•••						**		••	••			**	**	••	••	••	
2.	Other diseases of fe- male genital organs	2						.,			.,																	133
	Diseases of breast (not puerperal, nor cancer)								-							4.								22				
	VII. Puerperal Dis-				***										55		-				•	•••					••	19
	eases. Accidents of preg-																											
	nancy	5	**	• •		••		**		••	**	**		***	**	12.	••	••	**	**	•••	••	••	••		••	22	
5.	Puerperal hæmorrhage Other accidents of labor	3							**	**	•••											**		**		•••	**	1
	Puerperal septicæmia. Puerperal albuminuria	20																1.										
	and convulsions Puerperal phlegmasia	3	**	**								**		**	**	**	••	**		**				**	**		**	
	alba dolens Other accidents of	4.4	**		••	••		**	**	••	••	••	.,	**	4.	**	••	••	**	**		••		• •	••	•••	• • •	13
	parturition, sudden death Puerperal diseases of	8	**											••			**	**	33	••								
	breast	••	••	**	••	**	••	••	**	••		••		**	••	••	••		••	••	••	••	••	**	••		••	-
	VIII. Diseases of Skin and Cellular Tissue.																											
	Gangrene	7	2		**	••	••	**	••	•••	**		••		••	••			11.7			••	. 2		**		**	
	Phlegmon, acute	3	2	**					•••		***								1		1		**,			**	2.0	
5.	Other diseases of skin and adnexa	2	1			1			1																			
	IX. Diseases of Loco- motory System.																											
6.	Diseases of bones		2																									
7.	(non-tuberculous) Arthritis, other dis- eases of joints (ex-	6	2	1	••		•••	**	1	**	••	••	1	••	•••	••	••		**		••						•••	
	cept tuberculosis and rheumatism)																											111
8.	Amputation Other diseases of or-		**				••				**			••			••	••		**		**						
	gans of locomotion.  X. Malformations.	13	11	110	••	••	••	• • •		••	••	••		***	••	••	•••	**	**		••	••	111	••	••	••	••	
0.	Congenital malforma-																											
	XI. Diseases of In-	19	8	8	••		••	••	8	**	**	•••	••	••			••	••			••	••	••	••	••	1	**	
	fancy. Congenital debility,			4					ant.																	2		
	icterus and sclerema Injury during birth	170	98	98	••	••	••	**	98		••	••	4.	174	**	**	**	••	**	••	•••	**	**	**	••	••	1	
	Other diseases pecu- liar to infancy	3	'n	1					1																			
3.	Neglect															*		**										
	XII. Diseases of Old Age.																										-	
	Senile debility	68	25	+4					**		••	••			••	••								6	5	11		
	XIII. External Causes.												15.															
	Suicide by poison Suicide by asphyxia	8	6									**			*								••	1				
	Suicide by hanging or strangulation	12	12										,			4	1		1	3	'n	1						
	Suicide by drowning.	4	3						**	**								2		**	••						*	
3.												-	-		21.1	100	150	100	1		34					122	1020	
B. D.	Suicide by firearms Suicide by cutting in- struments	14	13	**	••	**	••	**			**			30		19.5				**	9.5			**			100	

- 31	ATURDAY, NOVI	EMBE	JC 30,	1907.				-	PH)		UI.		De.			LU,				-	_				-	-	2403	_
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	4.	3.	4	Total, Under. 5.	5.	10.	15.	20.	25.	30.	35.	40.	45-	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	hi
62. 63.	Suicide by crushing Suicide by other																							••				
64	methods			**		**											•••		**	**		•••		1	20.27		1	
											44																	
66.	Dislocations Other accidental injuries	155	128	3	1	1	2	2	9	5		11	17	17	7	14	17	15	6	2	3,	1	2		1	1	4	
67. 68.	Burn, by fire, scald Burning by corrosive	31	14		3	3	1	2	9	1			1	••	••		1	1		1						.,	**	
69.	substances		6	••		•••										2	2					**	**	5.0	***	**	***	
	Freezing	, .	1	111														1								-		
	Electrical shock	4	3											. 1		ı	1											
	Accidental drowning	59	51			1			1	1	7	5	,	8	4	5	3	7		2		1						
73.	Inanition (starvation)																											
74-	Inhalation of noxious gas, not suicidal	18	14									*			1	2	2		1	i	2	2	1	1			1	
75.	Other acute poisoning	7	6		1			2	3					1			1			1							1	
76.	Other external vio- lence	15	10	r		••	**		1	**	1	1	2	••	2		2					•••		••	1		1	
	a. Homicide, by blows b. Homicide, by sharp instru-	2	1	••					**	**	1		••	••		**	**	••	••	••	••			**		• •	**	
Ŧ	c. Homicide, by	3	3	**			••	11	**	**	- **	••			1	**	1	••	••	**			••	**	1	**	**	
	d. Homicide, by	4	4		**	**	••	**	18	***	*,*)		1	••	1		1									**	**	
	e. Homicide. by		••	**	••				11	**	**		**	••	• •	**	••	•••	••		**	••	**	**	**	**	**	
	other methods.	3	1	**	**		**		**	**				••	**				•••	**	•••	•••			•••		**	1.5
	XIV. Ill-defined or Not Specified Causes.													- 4.6														
77.	Dropsy Sudden death, not puerperal		**						**				.,	**					••							**	44	
79.	Ill-defined causes	50	34	30	2	1	1		34						1.			**										
		_		_	_	-	_	_		_	_	=	=	=	=	_	_	_	=	=	_	=	_	=	=	_	-	-
.—G	eneral diseases a. Tuberculous dis-	763	413	21	21	17	7	16	82	19	9	16	33	27	41	29	33	35	22	19	18	13	13	2,	2	**	5	-
	eases	349	204	5	4	1	**	1,	II	3.	**	12	28	22	30	21	17	26	10	9	7	4	3	1			4	
I.—I	b. Cancer Diseases of nervous sys- tem and organs of	119	42	**			**	••	**	**	**	**	1		2	1	5	1	6	5	7	6	7		1	•••		
11.—	Sense	310	158	26	11	2	X.	1	41,	4	2,	1	2	- 0	6		0	10	5	,-		28	13	13	0	3	-	
v.—	system Diseases of respiratory	326	173	2	**	**		**	2.	7	6	0	3	0	0	8	14	20	16	15	17	11	15	12	*	4		
/.—I	system	581	318		32	11	8.	5	167.	13.		0	- 1	2	2	0	8	10	4	10	7	2		,	3.	2	11	,
71.—	system Diseases of genito-	555	304	194.	24,	· ·	2	3.	220			2,	2	6	10	13	17	20	15	16	20	19	14	6	10	2	-	
777	urinary system	323	179	•	L						I.																	
	-Puerperal diseases  -Diseases of skin and	40	••							22																		
	cellular tissue Diseases of locomotory	15	7		**	1	••		1	••	**	**	••	**		**	•••		1	2	1		2	**	**	**	**	
	system	6	2	1		11	**		1	• •		••	I	**	**	**	***	**	**	**	**	• •	**	**	**	•••	**	
	Malformations	19	8	8		**			8		. "			**	**			**		• •			**	**	**	• •	**	
	Diseases of infancy	183	106	106	**	• • •	**	**	106	•••	**	.,				•••			• • •				2	6		11	1	
	-Diseases of old age	68	25					6			8	19	31	31	20	28	34	. 31	10	13	6	5	3	2	5	1	7	
1111.	-External causes a. Suicide	344	274		5	5	3		23			1	3	4	6	4	5	6	3	6	1	1		1				
	b. Homicide	10	41.								1	1	2		2		2								1			
	c. Accident	286	224	4	5	5	3	6	23	7	7	17	26	27	12	24	27	25	7	7	5	4	3	1	1	1	7	
IV	-Causes ill-defined	50	34	30	2	1	1	••	34															••				
otal	males		2,001	507	96	44	23	31	701	53	27	50	80	87	92	101	123	135	86	90	100	91	75	49	34	27	38	
	females		1,582	396	80	24	26	26	552	57	28	31	38	68	69	82	60	73	68	61	81	88	79	69	50	28	42	
		-	-	-	_	-	-	-			-	-	-	-	-	-	-	-	-	-	181	_	-	-	-	-	80	

# BOROUGH OF QUEENS. Deaths of Females, by Age, and Cause of Death for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20,	25.	. 30-	35.	40.	45-	50.	55.	60.	65.	70.	75.	80.	85.	Col- Cored.	hin- ese.
	I. General Diseases.																											
1.	Typhoid fever	14.0	9			••				2		2	I.	I.	•••	1,	1	1			**	**	••			••		
2.	Typhus fever										**		••	•••	**	**	••		• • •	**	••	**	**	• • •	**	**	••	
3.	Relapsing fever										**			**	• •	• • •		•••				• •	• •	• • •	**			• •
4.	Malarial fever		3				1		r				••	1	**		1		•••		**			**			••	
5.	Smallpox							**			**	••	••	**	••			• •			**	••	**	••	••	••	••	• •
6.	Measles		16	2	6	4	I	2	15	1.			••	**	**	••	**	**	. * *	**	••	• •	**	**	**	• •	1	*
7.	Scarlet fever		6		1		2		3	2	1		••	••	• • •	**	•••	••	• • •	**	••	• •		**	••			•
8.	Whooping cough	4	9	6	3				9		••	••	••	••	••	••		• • •	**	••	••	• • •	••	••		••		
9.	Diphtheria and croup		44	1	5	5	10	6	27	17			••	••		••	••		••		**	**	••	••	**	**	•••	
0.	Influenza		7									1		••	110		**	1	1	• •	••	• • •	2	• •	2	• • •	**	
1.	Miliary fever										**		••	••	• •	••	•••			••	••	•••	•••	•••	••	**		
2.	Asiatic cholera								**					**		•••	**	**			••	**	**	••	**	••		*
3.	Cholera nostras									**			••	••		•••	**	••	**	**		•••		••		••	**	
4.	Dysentery		4	2	'				2	**			**	**	**	••	**	**	1		**	1		**			**	
5.	Plague	144							.,				**		**	••	**		**		••	**	**	**	• •	**	**	
	Yellow fever		**				**					**	**	••		••			•••			**	••	•••	**	**		
7.	Leprosy							**						**	•••	••	**	**	••	**	**	••	•••			,		
	Erysipelas		3			1				••	••	••		••	••	••	••	•••		••		**	1	**	**	••		

1	2404		1					+0	THI	(1)	CI.	LY	R)	EC	OF	KD,		THE.		S	ATU:	RDA	Y, N	OVE	MBER	30,	1907.
	Cause of Death.	Total, Both Sexes.	All Ages.	Under I Year.	ı.	2,	3.	4-	Total, Under 5.	5-	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Chin ored. ese.
9.	Other epidemic dis- eases																							14.			
0.	Pymia, septicæmia		**															4.0			••	•	••				
ı.	Glanders		••	••		**	••		**	••	••		••	•••	••	**	••	**		-	**	••	**			**	
3.	Malignant pustule  Hydrophobia		1					1																			., .
4.	Actinomycosis																										
48.	Trichinosis					••	••	•••	••	**	••	••		**	••	- • •	••	**		••	**		**		**		44
5.	Pellagra Tuberculosis of lar- ynx		. 2			**			**							2											
7.	Tuberculosis of lungs Tubercular mengingi-		124	1	1				. 2	3	4	9	17	22	18	17	10	9	4	3	3	2	1	**	**	••	2 .
9.	Abdominal tuberculo-	**	14	6	3	1	1	1	12		••				2												3 .
0.	Potts' disease		3																								
ı.	Cold abscess							.,	44	**				••	••	••		••		.,	••		**		**		
2.	White swelling Tuberculosis of other			**			••	**	**	••	••	**	••		**		••	**			•••			- * *	**	**	** *
	General tuberculosis	**	2	••	•••		1								***												
4.	Scrofula																										
36.								**		••		•••				**	**	••		**	**	• •	**	- ••	••		
17.	Gonorrhœa (adults)			••				• •	• •			••	••		**	**			**				**	**	**		
8.	Gonorrhæa (children) Cancers, etc., of the mouth		2	**														1				1					
10.	Cancer of stomach,		32											**	,,	1	2	2	4	4	6	7	4		1	1	
41.	rectum		6			**							**		•••	1	1	••	1	1	•••	**	2	**			
42.	genital organs	**	19		••	**			***	••	**		••	4.	**	4	3	3	3	1	. 1	1	2	1	**	**	
13.			9	••	**																1			2			
45.	Cancer of other or- gans and unspeci- fied		3	.,														,	1	1		1		2			
16.	Other tumors (except of female genital		6		**	**		••		•••		•••			••	**	7									**	
7.	organs)		2	**		••		••		••	••		**	1	**	1			**			• •	***	**	**	**	
8.	Chronic rheumatism		**	••	**	***	• •					**															
9.	and gout																							**			7.
0.	Diabetes		18										**		1	2	1	2		2	5	1	3	1			
1.	Exophthalmic goitre	**	2	••	••	2.1	••	••			••	**	••			••	••	2	•••	•••	**	**	••	••	**	••	** *
2.	Addison's disease	1.5		••	**	••	**	**		**		**			1												
4.	Anæmia, chlorosis	**	2								1							1					**				
6.	Other general dis- eases						**							**	••	••	***	••	**			4.		••			
	chronic	**	1	••	• •	••	**	••	**			••	••	**	**	1	**	••	**	**	***	**	**		**		
7.	Lead poisoning  Other chronic poison-			**	**			**		••		**				***					2.5				4		**
9.	ings of occupation. Other chronic poison- ings		**	**		**		,,	**									**									
	II. Diseases of Nervous System and Organs of Sense.												-22						- 22				44	-		*	
0.	Encephalitis Simple meningitis		26	10	4	1	1	2	18	1	3				1			1	2								
	Of which:													+													
ıa.	Cerebro-spinal menin- gitis		9	2	1	1	1		5	1	1	••	**	••	1	••	**	1	**		••		•••	**	•••	**	** *
2. 3.	Other diseases of spinal cord			**	**	**	**	**	**	**	• •	**		1			2	1						•	1		
64.	Apoplexy, congestion of brain		71		1				1					1	2	2	3	6	5	7	12	14	7	8	3		1
55.			3										• ••	.,			**			1	**	•••	•••	1		1	
6.			2				**		- 15:	**		•••	**	**	**	••				**	••	1		1	••	••	••
68.	General paresis Other forms of in- vanity		7	**	••					**		••						4		1					1		
59.	- L		4							1		1				1				1							r
0.					2.5			2.7				1.00													- 0.		
71.			23	21	2				23																		
2.	Tetanus, trismus		4	2					2							1					I				••		- 10
3.	Chorea Other nervous dis-			**	**			**			••							••	**	• • •	••	**	••	51	**	**	**
5.	eases	**	1	**	• •	••	••	**	**	••	••	1		**	**												
6.																											
	III. Diseases of Cir															-											
7.	culatory System.  Pericarditis		11						14								**	- 99									
8.	Acute endocaritis		4	- 44								1		1		ī		1.				1					
9.	eases		140	1	1	**	1	1	4	4	5	3	3	2	4	8	4	11	13	13	11	17	14	13	7	4	3
0.			1		••		**	**	•••	••	1	••	••	**	••	4.5								2	-:		
2.	Embolism, thrombosis		2												1				1					,,			
3.	Diseases of veins (hæmorrhoids, va-																		4				1.				
34.	rices, phlebitis, etc.) Diseases of lym phatics Gymphan		••	**		••		••		••	**	••							7.0								
	gitis, etc.)					**	**	**	**	**	**	**		**	**	**	**	••	71	**				••	••		
15.	Hæmorrhage		1	* 1					-		3.5					4.4			200								**

S	ATURDAY, NOV	EMBE	R 30,	1907.				1	HE	Ç	ri;	'Y	RE	CC	R	D.									(6)	:1	240	5
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1,	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75-	80.	85.	Col- Cored.	Chi
	IV. Diseases of Re- spiratory System.			- 1			× .					- 1			*										*	-15		-1
87.	Diseases of nasal fossae																			٠.								
88. 89.	Diseases of the larynx Diseases of thyroid		2	••			**					** *						1						r				
200	gland		1	**	***	**		**	21	**	••	**	**	1	••	**	••	**		**	••		**	••		••		
90.	Acute bronchitis		29	17												1				2	. 5			2		2		
	Broncho-pneumonia		97	33	20	3	2	3	61	4				1	1		3		3	5	5	2	3	2	4	2	3	
3.	Pneumonia	**	124	19	9	4	1	3	36	3	4	2	2	4	4	5	6	6	7	4	8	10	12	9	t	1	5	
4.	Pleurisy	***	5	1	••		•••	••	1		***	**		1	1		**	•••				1	1	10 15 10			•••	
	Congestion of lungs, pulmonary, apo- plexy							4.																				
6.	Gangrene of lung	**	••	**	••		**	**	**	••		••	** *	••	••	**				++	**	• •		**	**			
8.	Asthma					**	••						,				••	•••	**	- 11	**	**		**	••	**	••	
9.	Other diseases of respiratory system (phthisis excepted)															**				,					74.0			
	V. Diseases of Di- gestive System.																											
ю.	Diseases of mouth and adnexa		1						1																			
1.	Diseases of pharynx. Diseases of Oesoph-											**																
	agus			**		**	•••	••	**		••	**	**	••	•••	••	••	**	••		••	• •	• •	**	**	••	••	
3.	Ulcer of the stomach Other diseases of stomach (cancer		. 5	**		.,	••	***		1.5	••	•••	1	••	1		. 1		••	1	**			1	• • • •			
5.	stomach (cancer excepted) Diarrhœa and en- teritis (under two		5	**	**	**	•••	••	••		••	••	**	**	1	**	**	. 1	1	• •	**	1	33	**	1	**	••	
	Of which:		170	156	14				170	••	**	•••				**	44		**	**	••	• •			•••	**	4	
5.	Chronic diarrhea Diarrhea and en- teritis (two years	••	**	1.5	•••	••			••		**	•	**	••	••	**	••	•••	- **	••	**	**	**	**	**	**	**	
	and over)	••	18		••	1	3	**	4	3	••		**			••	••		1		3		3	2	I	1	**	
3.	Intestinal parasites Hernia, intestinal ob- struction		17	3					3						1	2		2	1		3	2	**		3	• • • • • • • • • • • • • • • • • • • •		
).	Other diseases of in- testines		••						**			**			**					44			**					
	Acute yellow atrophy of liver																											
	Hydatid of liver	**	••	**					**	••	•••	••	**					••	***	••			**		••			
	Cirrhosis of liver		13								**		**		• •	2	2	**	**	1	1	2	2	2	1		**	
	Other diseases of liver		1		1				1																			
	Diseases of spleen Simple peritonitis	••		**	••			**	**	• •	••	••		***	••			••			••		**	**			• ••	
	(non-puerperal) Other diseases of di- gestive system (ex-		3			••		1	1		•••		••	1	1			•••	**		**	**	**		**	••		
	cept tuberculosis and cancer)									**	**		14												11			
	Appendicitis and iliac abscess	**	17	**			••	**	**	3	3	••	1		3		11	1	1	4			1	**	**		••	
	VI. Diseases of Gen- ito-urinary System.																											
	Acute nephritis		18		••	••	1	••	1	1	1	••	1	1	4.	4	2	••	1		1	••	1		••		**	
	Other diseases of kid- neys and adnexa		118									3	1		4	9		15			10	14		10	11			
	Urinary calculus									••							٠.,											
	Diseases of bladder Diseases of urethra,		••	••	• • •	**		•••				**				**	**	••		• • •	••		++	**	**		**	
	urinary abscess, etc				4,4										**	**	.,							**				
	Non-venereal diseases		••	••	**	**	••	••	••	• •	**		•••	**	**	**	**	••	**	••	.,	•••		**	** '	•••	**	
	of male genital or-						••	••.		••			***									••	**	**	••			
	Metritis Uterine hæmorrhage (not puerperal)		••			**		**		•••		**	••		**		**		**				**		**			
	Uterine tumor (not cancer)		4												1		3										1	
	Other diseases of uterus			••	••	**				••		**			••	**	••		•••	**	••			**	***	***	••	
	Other diseases of fe- male genital organs		2		••			••							.,		1											
	Diseases of breast (not puerperal, nor																											
	VII. Puerperal Dis-		**	• • •	7.5	**	**	•••		**	••	**	**	- **	22													
	eases.																											
	Accidents of preg-		5	7.		**				••		**	2		3	••	.,	•••	••		••				••			
	Puerperal hæmorrhage Other accidents of		. 1	••	••	**	.**	••		**		**		2		1	1.											
	Puerperal septicæmia.		20										3	7	6	2								.,			1	
	Puerperal albuminuria and convulsions Puerperal phlegmasia		3	.,				4%	**				1	1	* **	1			•••		••	••	••	**	•••	••	••	
	Other accidents of	**	••	•••	••	**	••	**	••	100	**	••	••	••	••	**	13	**	**	••	**			.,			**	
	parturition, sudden death Puerperal diseases of	••	8	••	••	- 44	**	••	••	••	••		1	3	3	1	••	••	••	•••	••		••	**	**	*.*	••	
	breast	••	••		1.00		••	**	- * *	•••	••	••	**		100						••	**	••	***		**	*.*	
	VIII. 'Diseases of Skin and Cellular Tissue.																							4				
	Gangrene		5				**					,,	***	••				**	**	•••	1	• • •	3	1	**	•••	1	
	Carbuncle Phlegmon, acute ab-		r	**	**	**	••	**	**	••		1	••	••	••	**	.,	•••		100.00	**	••			**		,	
j.	Other diseases of skin and adnexa		1	1					1														.,			**		
	IX. Diseases of Lo- comotory System.												4															
6.	Diseases of bones			· 0					1													34				4		
	(non-tuberculous)		4	1	1	***		1	3	33		***	4.	**	1		***	**	•••			• •		**	**	• •		ı

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7-6	12406	*		-		-	1-1		TH	8	61	1 Y	P	Ē.	(O)	R D	•	197	1	P. 18	SATI	JRDA	Y, N	OVE	MBE	R 30	, 1907.
	Gause of Death.	Total, Both Sexes	All	Under Year	I.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55-	60.	65.	70.	75.	80.	85.	Col- Ch
47.	Arthritis, other dis- eases of joints (ex- cept tuberculosis and rheumatism)																						44			1	
18.	Amputation Other diseases of or- gans of locomotion																										
	X. Malformations.								÷					*	* 1										- '**		
0.	Congenital malforma-	•	11	10	••		2.	1	11			44.			•						**	••					
	XI. Diseases of Infancy.  Congenital debility,						,																				
	icterus and sclere- ma		72	72	**				72													.,					1
12.	Other diseases peculiar to infancy		2	2	**				2		**			***											**	**	
3.	Neglect	**	**	••	**	**	**	••	**	••	***	**	**	- ••	***	•••	**	44		**		••		••	**		**
	XII. Diseases of Old Age.		-		*				· 'y		*	¥ 1, \$															
4.	Senile debility  XIII. External Causes.		43	••		••			••						••			•••	**	**	4	3	7	7	13	9	1
5.	Suicide by poison Suicide by asphyxia.		2		**	••				•••			**		1	1						••	***				
	Suicide by hanging or strangulation											.,															
8.	Suicide by drowning. Suicide by firearms	**	1	- 44		**,	**		**	**	**	**		1	**	**		•••	***			••					
0.	Suicide by cutting in- struments		1											1												**	
I. 2.	tion from height		44	**								**					**								**	**	
3.	Suicide by other methods											***															
4.	Fractures Dislocations	4.		* **	**		**	**	**					**		**	7										
	Other accidental injuries		27	3		1			4	3	1	1	1	1		1	1	1	3	1	2	1	2	1		3	2
3.	Burn, by fire, scald. Burning by corrosive substances		17	2	••	2	1	4	9	6		1		1	**	••					••	••	••		••	••	**
).	Sunstroke		1					1	1				12								**						
o. I.	Freezing Electrical shock															••											
	Accidental drowning.  Inanition (starvation)	**	8		1	••		••	1		14	r	1		1	2					2						1
1.	Inhalation of noxious gas, not suicidal		4		- 1				1		2	1	**														
	Other acute poisoning Other external vio- lence		5	1		12			1					2	2												••
	Of which:  a. Homicide, by blows		1					**							1												
	b. Homicide, by sharp instru- ments		44																								
	c. Homicide, by gunshot d. Homicide, by poison		**	**	**		•••						**				**	**	••	**							
	e. Homicide, by other methods.									**														**	**		
	XIV. Ill-defined or Not Specified Causes.																										
	Dropsy Sudden death, not puerperal	**			**													•••		**	**	••	**	**			
	Ill-defined causes		16	13	3				16															**			1
Ge	eneral diseases a. Tuberculous dis-		350	21	19	10	16	10	76	26	6	12	18	26	22	33	19	23	17	13	16	15	18	6	3	1	7
	b. Cancer		77	8	4			1	16	4	4	9		23	20	8	6	9	4	3	3 8	11	11	5	1	1	5
-I	Diseases of nervous system and organs of sense		152	33	7	1	2	2	45	3	3	2	1	3	3 .	5	6	12	.7	11	13	15	7.	10	5	1	2
	-Diseases of circu- latory system		153	2	1		1	1	5	4	6	4	3	3	5	9	5	11	14	13	11	19	14	15	7	5	3
	Diseases of respiratory system Diseases of digestive	••	263	70	32	8	3	6	119	8	5	2	2	7	7	6	9	7	10	11-	13	16	18	14	5	, 5	10
	system Diseases of genito-	**	251	160	15	1	3	1	180	6	3	**	2	1	7	4	3	4	4	6	8	5	6	5	6	1	*
_	urinary systemPuerperal diseases		40				1		1	1	2	3	3	8	9	6	15	15	12	9	11	14	5	10		2	8
I	Diseases of skin and cellular tissue Diseases of locomo-		8	2					2			1									1		3	1			1
	tory system		4	10	1	••		1	3		••				1			••	•			••	••	**	**	••	
-1	Diseases of infancyDiseases of old age		77	77		**			77		••			••	••				**		••	,					1
	-External causes		70	6	2	3	1	5	17	9	3	5	2	7	4	5	2	1	3	1	4	3	7	7	13	3	3
	a. Suicide b. Homicide	**	7				••			••	**	44		3	1	2	1		••	**	• •	••	**	:.	••	71	
_	c. Accident		62	6	2	3	1	5	17	9	3	5	2	4	2	3	1	1	3	1	4	1	2	1		3	3
			16	=	3				16 === =							**		**				••					1
	Total, females		1,582	395	80	22	-		552	57	-0	144	1		12	1			13.0	1	81	88	19.7		-	T 100 0	100

#### BOROUGH OF RICHMOND.

Deaths of Males, by Age, and Cause of Death for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55-	60,	65.	70.	75-	80.	85.	Col- Cored.	hinese.
	I. General Diseases.		•			_									_		-			-	-						10	-
I. 2.	Typhoid fever Typhus fever	10	. 9	**	**	••	**	**	••	••	••		3	3	11.	1	1	i	17	**		**	**	**	**	••	• ••	***
3.																								• • •				
4.	Malarial fever	1	1				**		**								1		,,									
5.			1	••		••		• •	••	••	**	· · · ·		**			• •		**		• • •						122	
	Measles	6	5	1	2	**	1		4	1	**		*		**	••		**	••	**	••	* **	••					
8.		10	4	3	1				4													**		**	**	• •	1	
9.	22.5 (0.7 (0.7 (0.7 (0.7 (0.7 (0.7 (0.7 (0.7	28	15	2	2		4	1	9	3		1	1	1														
10.	Influenza												**				***	**										
	Miliary fever	**	••	••	**	•••	**	. **	**	••	***	•••	4.	• •	••	••	**	• •	**		••	**			**			.,
12.	Asiatic cholera Cholera nostras	**	**	**	•••	••	••	**	**	••	••	**	111	••	**	••		**	**	••	••			**	••	••	••	••
14.	Dysentery	4																										••
15.																												
16.	Yellow fever												99															
17.		••	4.0	**		••	**	**	••	••	**		**	**	••	••		**	**		•••	**	**	••	•••			
18.	Erysipelas Other epidemic dis-	3	2	**	**	••		4.4	**		••		**	**	**	••	1	**	•••	••	**	**			1	• • •	•••	
20.	Pyæmia, septicæmia	2	2	1									11	**	1									**				
21.	Glanders			42		**	**										.,	,,						**	**			
22.	Malignant pustule								***	44	**		**	**		199	++	**					.,					
23.	Hydrophobia		99	••	**	••	**	••	••	••	**	**	**	**	**	**	44.	**	**	••	••	**	**				- 44	
24.	Actinomycosis		••	**		**	**		••							**			• •	**	**	**					**	
	Pellagra																											
26.	Tuberculosis of larynx	2	2										1				1											
27.	Tuberculosis of lungs	190	139	. 3	2				5		1	2	13	14	19	28	22	15	. 7	6	3	2	2				4	1
28.	Tubercular meningitis	8	4	**	1	1	••	**	2	••	1	••	•••	**		1	• •		**		• • •	**	• •	• • •	••			
29.	Abdominal tuberculosis Potts' disease	1	1	**	**	••	**	**	**	**			**	**	**		**	1	•••	• •		•••	••	• •	**		••	
30.	Cold abscess												44												**			**
32.	White swelling Tuberculosis of other												*															
33-	organs	3	1								••	***	**	**	**					1		**						
34.	General tuberculosis.	••	**	**		••	**		**	**	**				**	**	••	**	••	•••	**	••	• • •	• • •	**	**	**	
35.	Scrofula	4							**														**	**	••	••	**	
36.	Gonorrhœa (adults)														.,			**										
38.	Gonorrhœa (children) Cancers, etc., of the							**																				
39. 40.	mouth	3	3	••		•••	••	**	• •			**	**		• •	**	15						2			'z		
41.	Cancer of intestines,	18	9		••	••		**	**				•••	••					1	I	1	3	2	1		•••		.,
42.	Cancer of female gen- ital organs	8							**				**						2	2	. * *		**	1	••	**		• •
43.	Cancer of the breast.	8																									**	
44.	Cancer of the skin	3.	3																ı				1	1				
45.	Cancer of other or- gans and unspecified Other tumors (except	7	3	**				••	•••		***	••		••	••	1		**		1					1			٠.
	of female genital	ī																										
-	Acute articular rheu- matism Chronic rheumatism	8	5	44	**						1	1		**						4.	1	1		1	**			
48.	and gout	1	••		••	**	**	• •	***		**	**	44			**			**	**	••					44		
49.	Scurvy	8											••				**	••	••	**	• • •		••	••		**	••	••
50.	Diabetes Exophthalmic goitre											.,										2		***	**		**	
	Addison's disease	1	1		**								**		1													
53.	Leukæmia	1	x		••		••			••	••	••			**		••	••	I		++	••					•••	
54.	Anæmia, chlorosis	1	1	**	**	**	**		***	**	**	7.7	**	**	**	••	••	**		**	••	1		••	••	••		
55. 56.	Other general diseases Alcoholism, acute and chronic	9	8						**		••		* * * *						**		- 11	**	**	• •	••	••	••	••
57.	Lead poisoning	٠																										
57. 58.	Other chronic poison- ings of occupation.						**																					
59.	Other chronic poison- ings		••	•••	**	••	**	**	**	••	••				••		* **	•••										••
	II. Diseases of Nerv- ous System and Or-																											
6o.	gans of Sense.																											40
	Simple meningitis	24	16	2		1			3	4	2	2			1	1	2					1						
	Of which Cerebro-spinal menin-				4			*									*											
	gitis	12	8	••	••	1	••	18.8	1	3	1	2	**	**	**		I	**	**	••	••	••		**		••	**	
62. 63.	Locomotor ataxia Other diseases of spinal	2	1		**	••	••	**	**			**	***	**	••	••	1	**	•	**			**	**		**	•	**
54.	Apoplexy, congestion of brain	64	33										1	1	2	1		3	2		4	3	7			1	4.91	
55.	Softening of brain	1	1	**	**			**						.,									1					
	Paralysis unspecified	8	4	••	20	••	••			••			••	**		••	••	1	,.		1	1	1		***	loc.	4.	
67. 68.	General paresis Other forms of insan-	7	6	**		••					••	••	.,		••		1	••	1		••	1	3	**	4.			
	ity	**			••		••	***			**	••	••,		••	***	••	**	••	••	**	••	••			9.	-20	
	Epilepsy	13	3	**				16					***							**			••	••	**	**	••	••
70.	Convulsions (not puer- peral)	1																					**	**				3.5

1	2408					_ 8			TH	E	C1	TY	R	EC	O	HD	•				SATU	RDA	Y, N	OVE	MBEI	₹ 30	, 1907.
	Cause of Death.	Total, Both Sexes.	All Ages.	Under I Year.	1.	2.	3.	4	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75-	80.	85.	Col- Ch ored. e
71.	Convulsions of infants	4	2	2				1	2							144	44					1	74	4	,	**	
72.	Tetanus, trismus	3	3	1	**	**	••	••		1			. 1	••	**	**					**		••	•••	••		**
73.	Other nervous diseases	3		1																					•••		
75-	Diseases of the eyes				••															.,	**						
6.	Diseases of the ears.	2	2	• • •	••	1	••		1	**		••	1		***		**	••		••	**	**	**	**	••	**	••
	III. Diseases of Circulatory System.									*								-							4		
8.	Pericarditis	6	6											1	1		1		1								
9.	Organic heart dis- eases	111	57									**	3			1	2	. 3	4	6	10	.6	9	6	6	1	2
0.	Angina pectoris Diseases of arteries,	4	2		••	**	••	**	••	••	**	••		••		**	••		1	••		1			•••	**	• •
32.	aneurism, etc Embolism, thrombosis	4	11															**					1				
33.	Diseases of veins (hæmorrhoids, va- rices, phlebitis, etc.)	1																									
4.	Diseases of lymphatics (lymphangitis, etc.)				,,											4.											
5.	Hæmorrhage Other diseases of cir-	1	1	1	• •	**	••	••			••	**	••					••								••	••
	culatory system  IV. Diseases of Res-	* 44	**	• •				•••	**	**			••		•••			•••	••		••	••	•••	***	••	••	
	piratory System.  Diseases of nasal fos-																										
	sae		••		**	••	• • •	••	**		••	•••				••	••	••	••		**		••		**	**	100
8.	Diseases of the larynx Diseases of thyroid gland										**															**	
٥.	Acute bronchitis		8	5					. 5												**	1	.,	1	1		.,
1.	Chronic bronchitis	. 5	3			**						**	••	**	**	**	1		**	**	. 1			••	1	**	
	Broncho-pneumonia Pneumonia	50 96	31 56	8	5	1	**	**	15	4	**	**	••	**		6	1	6	1	1	1	. 2	2	1	1	2	
4.	Pleurisy		2									1									1	.,					
5.	Congestion of lungs, pulmonary, apoplexy	, 6	3											1		1					1						
	Gangrene of lung	1	1													:.			,,			••	1				
7-	Asthma	2	2	**		**		••		• • •		**	•••	**	••	**	• •		••	1	••	1	.,				
8. 9.	Pulmonary emphysema Other diseases of res- piratory system		**	**	••	**	••	••	***	••	**				**	•••	••	••	••	**	**	**	••	•••	**	**	••
	(phthisis excepted)	2	2	1	••	••	••	••	1	•••	**	**			••	••	••		**	1	**	**	• •	••	•••	**	**
	V. Diseases of Diges- tive System.														**: 1					. 1							
0.	Diseases of mouth and adnexa		••	**	**	10	••	**	12	••		•••	**		••		**			••		••			••	.,	
2.	Diseases of pharynx.  Diseases of œsophagus				**				**					***			***	**	**		**				**		**
3.	Ulcer of the stomach	1							**												,,						
	Other diseases of stom- ach (cancer except- ed)	7	4			1		.,	1	1								**			1					1	
5.	Diarrhœa and enteritis (under two years). Of which	161	85	76	9				85												44						1
6.	Chronic diarrhœa Diarrhœa and enteritis	**	••	••			••	7	•••	**	••	••	**	••	••	••	**	••	••	••	**			**			**
	(two years and over)	12	6		. **		1		1		1				**	**	**			**	1	1	1	1	**	**	
7. 8.	Intestinal parasites Hernia, intestinal ob- struction	10	**	**		**	**	**					**	••	**	••			**			**	••	**	**	•••	**
).	Other diseases of in- testines	1																								**	
0.	Acute yellow atrophy of liver	1	•••		**		**	**					**		**					**							
	Hydatid tumor of liver Cirrhosis of liver	24	15	••		**	••	**	**	••	••	**	••	**		2		3			**			••	**		••
3.	Biliary calculi					6.0													3								
4.	Other diseases of liver	6	4				**		**		••	**							2	1		1			**		**
5.	Diseases of spleen Simple peritonitis			**	••	••	**	••		**	**		**				••		**	••	••	••	••	**	••	••	**
7.	(non-puerperal) Other diseases of di- gestive system (ex-				•••	**		•••			**		**					-	**	••	••	••	••	**		•••	
8.	c e p t tuberculosis and cancer) Appendicitis and iliac	1			**												**										
	abscess	12	8	**	**	**	••	••	**	11	**	**	2	1	***		••	2	••	••	••	**	**	**	••		•••.
	ito-urinary System.							10.0			5.5			0.1													
9.	Acute nephritis Bright's disease	95	3 46											3	1	2	2	4	3	2	6	4	6	6	3	4	1
1.	Other diseases of kid- neys and adnexa		2														1		1								
2.	Urinary calculus		••			**	••	••	••	••	• •	••	**		••					••	••	••	*	••		*	**
4.	Diseases of bladder Diseases of urethra, urinary abscess, etc.		3							**							**			••							
5.	Diseases of the pros- tate								**																		
•	of male genital or-														٠												
7.	Metritis Uterine hæmorrhage				• • •		••	••			**					**	.,		••	••		**					
	(not puerperal) Uterine tumor (not		••	* **	••	••	••	••	**	**	••	••	••	***		**	**	**	**	**	. **	**	••	**	**		
0.	Other diseases of uterus																										
	Ovarian cysts and tumors Other diseases of fe-	2							**													.,		••			
2.	male genital or-	3						••				158.85		.2											-0.		
3.	Diseases of breast (not puerperal, nor cancer)																										
			1			100							7 3	39													
	VII. Puerperal Dis-																										
34.	Accidents of preg-	2							47	0.0				* 42	1.5	1			L	yla-	-66	100	al.				5

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	SATURDAY, NOV	EMBI	ER 30,	1907.				-	THI	20	CI	TY	R	EC	01	RD										1	2409	
-	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	ı.	2.	3.		Total, Under 5.	5-	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Ch	in-
136.	Other accidents of la-	1														•												-
137.	Puerperal septicæmia.	7					**						•••													15		3.5
138.	Puerperal albuminuria and convulsions Puerperal phlegmasia	5						**					**		***	**											40	
140.	Other accidents of parturition, sudden		**		* **			**	- "	10		**	**	**		**				••		**				••		**
141.	Puerperal diseases of	**		7.44	•••	••		**		••		••	**			**		••	**	· ··	••	**		•••	•••			
	VIII. Diseases of Skin		***		**	**	**	**		••	* *				••	**	**	**	***			**		- **				
: 142.	and Cellular Tissue.										-												1					
143.	Carbuncle	- 1										7.																.,
144.	Phlegmon, acute ab- scess Other diseases of skin	1	1						**				1		***	**						**	**	• •		••		
	and adnexa  IX. Diseases of Lo-		••			**	**	• • •	***	••	••	**			••			**	••	**	**	**	**					
146.	comotory System.  Diseases of bone																											
	(non-tuberculous) Arthritis, other dis- eases of joints (ex- c e p t tuberculosis and rheumatism)	7	•	1	••			**	1	**	32	••	1	**		.5	**		**	**	1	1				•••	,	**
148.	and rheumatism) Amputation	-::	**		**		11	**		.,					**			**			**	**			**			
149.	Other diseases of or- gans of locomotion					-43.							**											**	++			
***	X. Malformations.  Congenital malforma-																							*				
, 150.	tions	6	5	3	1	**	1	**	5		**	**		.",	••	**	**	**	••	**	••		••	••		**	1	
151.	Congenital debility, ic-	96													1.42	2.5		221	10		24.		- 24				2	
1512	terus and sclerema . Injury during birth	86	1	47		1.			1				**															
152.	Other diseases pecu- liar to infancy	1																										
	Neglect				••		••						••	**		4.6	**	••			••		٠.	**	**		**	**
154.	Age. Senile debility XIII. External Causes.	41	25			91.	•••	••	••.				•	••		**	••	**				3	4	4	5	9	**	
	Suicide by poison	3	2						**	• •		**			**	1	1	••	**	**	11.	••				••	••	••,
156.	Suicide by asphyxia. Suicide by hanging or strangulation								- ::	**	**	**									***	••	**		**	**	**	••
158.																									,			
159.	Suicide by firearms Suicide by cutting in-	8	8							**		•		1	1	2	***	1	1	**		1	**		1		••	
161.	Suicide by precipita- tion from height									**	**								**							**		
162.	Suicide by crushing Suicide by other meth-								**				,,												.,			
	ods			• • •	••	••	••	**	**	••	**		**	•		•••	4.4	• •	•••		11				**	**		••
164.	Dislocations Other accidental in-																											
166.	Other accidental injuries	32	31	- **					٠	2	1		1	2	7	5	1	4	2	4	2			**		*		
167.	Burn, by fire, scald Burning by corrosive substances	5	3		••	1	••		1	••		**	**	**		2			**	••		••		1.7		• •	**	••
169.	Sunstroke	2																			**							
170.	Freezing	3	3			**	**							**	**		••		2	**	2	**	**	**	**		4.6	
171.	Electrical shock  Accidental drowning.	42	1 42	- **		**	* * * *	••				**					6		1 2	2	3			**	**	**	**	•••
173.	Inanition (starvation)						**																				**	
174.	Inhalation of noxious gas, not suicidal	2						••		••							•••	•••	••				•••	***				
175.	Other acute poisoning Other external vio- lence	6	6			**		**									1		1	**	**		**	**				
	Of which a. Homicide, by										7.5										*							
	b. Homicide, by sharp instru-		2		••	••	•••	**	**	••	••	••	••	1	••	•••	••	•••	1		14	••	••		••	••	**	
	c. Homicide, by	2	1	**	••		••	**	**	••	••	••	-1.	••	••	••	1	••	**	••	**	**	• •	**	••	••		•••
*	d. Homicide, by				••			**		**																		
	e. Homicide, by other methods.																			••		••						••
177.	XIV. Ill-defined or Not Specified Causes.												121															
177.	Sudden death, not puerperal																							.,				
179.	Ill-defined causes	40	15	15	••			••	15	••		••		••	••	••	••	••	••			**	••	**		••	••	••
1.—	General diseases	368	231	10	8	ı	5	1	25	4	5	-	18	19	22	33	28	18	13	12	6	12	5	4	3		4	1
	a. Tuberculous dis-	203	147	3	3	1			7				14	14	19	29	23	16	7	7	3	2	2				4	1
11.—	b. Cancer Diseases of nervous	55	23		•••		••		••	**		•• '		••		1	.,		4	4	1	5	3	3	2	••		
111	of sense  Diseases of circula-	126	73	6		3		1	10	6	2		2	1	3		5	4	3		5	7	12	4	2	3		••
IV	-Diseases of respira-	143	79		••	•••				•			•	-	2		3				-			-				0.00
	tory system Diseases of digestive system	237	108	76	9	2	1	**	32	4				5	4	7	7	5	5	4	4	4	3	,		1	1	••
VI	-Diseases of genito- urinary system		54									••		4	1	•	3	4	4	3	6	5	7	7			1	
	-Puerperal diseasesDiseases of skin and	16		- ** ,	••			**	••	**	••		**	**	••	**	**	••	•••	••	••	••	••	••	••	••	••	
	-Diseases of locomotory	6		4.5	**						••	••	1		••	••	••		••	**	••	**	1	**	••	••		100
-	system	7	•	1	••	••	••	••	1		•••	**	, 1					**		.,			**				•••	

12410		-						THE	2	CI	ΓY	R	EC	OF	RD.				S	ATU	RDA	Y, N	OVE	MBE	R 30,	, 1907	
Cause of Death.	Total, Both Sexes.	All Ages.	Under I Year.	1,	2.	3.	4.	Total, Under 5.	5.	10.	15.	20,	25.	30.	35.	40.	45.	50.	55:	60.	65.	70.	75.	80.	85.	Col- Cored.	Chin-
X.—Malformations	6	5	3	1		1		5		.,																	-
XIDiseases of infancy	89	48	48		4.4			48																-	**		
XII.—Diseases of old age.	41	25																			3			16.1			
XIII. External causes	112	103	2	1	1			4	5	2	2	7	8	13	11	12	10	9	6	7	4	1		3	9		
a. Suicide	13	11											1	1	. 3	2	1	1			7			2		1	**
b. Homicide	4	4		.1								1	1			1							• •	1			
c. Accident	95	88	2	I	- 1			4	5	2	2	6	6	12	8	9	9	7	6		. 3	1	**	**			
XIV.—Causes, ill-defined	40	15	15					15				**				.,				***							
Total, males		874	179	30	8	9	2	228	20	11	12	35	39	46	59	59	51	44	37	47	51	51	35	29	20	13	I
Total, females		614	161	36	4	6	8	215	14	10	10	16	21	32	32	20	25	25	16	44	26	36	34	17	21		٠.
Total, both sexes	.,	1,488	340	66	12	15	10	443	34	21	22	51	60	78	91	79	76	69	53	91	77	87	69	46	41	18	

### BOROUGH OF RICHMOND.

Deaths of Females, by Age, and Cause of Death for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1,	2,	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Ch
	I. General Diseases.																					-	-			_	
1.	Typhoid fever	**	1	1.4	**		**	••	***		• •		**	1	**	**	**	• • •	• • •	••				***			
2.	Typhus fever		**	**	**					• •	**	**	**	**			**	••			**			••			
3.	Relapsing fever	••							**	**		**	*,		**		•••		**	••	**	**	**			**	
4.	Malarial fever		**	**	12	11		• •		**	**	**	**					**			**	**			- 11		
5.	Smallpox	• • • •		15						**	**	**	**	**				• •	• • •	**	11	**	**	**	**		**
	Measles	**	7	• •	3		3	**	6	1		**	**		**		•••	**			**	++		**			
	Scarlet fever	***	. 5		2			2	4	1		**	**	••	**		••	**		78	**	**					
	Whooping cough	**	6	2	2		•••	1	5	1	**		**	••		••			••	•••	**						
	Diphtheria and croup.	**	13	2	2	2	1	1	8	3	1	**			1	•••			••	**	**	**	**		**	**	**
0.	Influenza		**	• •			**	**		**			**	**			**	**	••		**	**			••		
	Miliary fever			**		**	••		**						***					• • •	**	**				**	
2.	Asiatic cholera	••	••	**	**		**	**	"			**	•••	**		**	**					**	**	**		**	
3.	Cholera nostras		**	**			•••	**	**		••	••	1	**		**		**	**			••		**	**		••
4.	Dysentery	/	3	• •	**	**	• •	••	••	••				**	••	•••	**	••	1		••	1	**		**		**
5.	Plague	**	**	**		**	**	**		**	**				**	**	••			**		**		••	**	••	**
	Yellow fever	**	••	••	••	••	**	**	**	**	**	**		**		**	**	**	••	**	••	••	**	••	••	**	**
	Leprosy	**	**	**	**	•••	**		•••	••			1				**	**	•••	**	••	••	**	**	**	**	
	Erysipelas Other epidemic dis- eases																										
	Pyæmia, septicæmia		• •		**	**				**			**	**	••	**	**										
	Glanders	**	**					**					**	**	**		**										
	Malignant pustule	**											**	**	••			**			**	*.*					
	Hydrophobia	22									**		••	**	**												
	Actinomycosis	** .		**	**	44	**			**			**	**	••	••	••	**			**		**	**			
. '	Trichinosis	**	**		••		**	**	••	••		**	**	**		• •		••	**								
	Pellagra Fuberculosis of		• •	••				**				**	**	**	**	••	••	**	**	***		**					
	larynx	**	••	••		••	••	**	••	• •			**	**	.**		**	**	• •	••	***	**		**			
1	lungs	**	51	••	1	**	**	••	1	1	1	2	3	6	9	12	4	3	3	2		**	2	2			
9	Tubercular meningitis Abdominal tuberculo-	**	4	1	••	2	•••		3			••	•••		••	••	**	1	**.	••							
	Sis			**	• •	**	• •	**	**	**	**	4.5	**	••	**		••			••		**	4.4				
	Potts' disease	**	1.0	**			•••	**	**	***		••	**	••	**	**	**	**	**		••	**					
	Cold abscess	**	••		**	**	••			**	**	••	**	**	**	••	••	**				**	**		**		
	White swelling Tuberculosis of	**	••			**	**	•••		••		••	**	**	••		••	••		**	**	**					
	other organs	**	1	**	• •	• •	**	**	••	••	1	••	**	**		••	**			**	**						
	General tuberculosis	**	***	**		**	•••	••	**	•••	**	**	**	**-		••	••	**	**	**		**		**			
	Scrofula				••		••	**	** :	••	•••	••	**	••	**	••	••		**	••		••					
	Syphilis	**	3	1		••		1	2		••	••	**	••	**	**	•••	**	1		**		**				
	Gonorrhœa (adults)	••	**							**	••		**	**				•••	***	••	••	••		**	••		
	Gonorrhæa (children) Cancer, etc., of the	**		••				**	••	**	**	**			••	**	**		• •	**	••						
	Cancer of stomach,	**		**			**		**			**	**		**	**	••	**				**					
	Cancer of intestines,	**	9	**			• •		**	**				••	**	1	**	• • •	1	1	4	1		1			
	Cancer of female	**	3			••		••	**	**	**	**		••			1	•••	••	••	1		**	***	••	1	
	genital organs	**	8	**		••	••	**	**	**	•••	••	**	••	**	1	1	2	2	1			1				
	Cancer of the breast.	**	8	**	**	•••	**	**	**	••			1	***	•••	1	.1	•••		. 2	2		1	**		**.	
1	Cancer of the skin	**			• •		**			••	**	••		***			••	**	••	•••	**	**					
	gans and unspecified Other tumors (except of female genital	**	4	••	**	••	••	••	**	**				••	••	ı	**	2	ı	••	••	**	**		**		
	Acute articular rheu-		1	**			••	••			•••	••		••		••	••	••		••		**				1	
	matism Chronic rheumatism	**	3	**	••	••	••	**	••	1		1		••		**	**	••	1	••	••	**					
	and gout	**	1		**					••	1	** '	**	**		**	**		**	• •		••	••				
	Scurvy	++.		**	• •		44	**	••	•••	**	••	100	**	**		••	**	**	••			••				
	Diabetes	**	4	**	**	**	**		**	**	••	1	•••	••	••	•••	r	1		•••	•••	1					
	Exophthalmic goitre	**	20	**	** ,	**	**	**	••	••	**				••	••			**	••	••	**	**	46	**		
	Addison's disease	**	**	**	••	**	••	• •	**	**	••	**	**	••	**			•••	**	**	**	••	**				
	eukæmia	**	++	**	**	**	**		••	••	••	**		•••	**		**	••									
	Anæmia, chlorosis		**	**		**	:	11	**	••		**		**		••	••	•				•••					
(	Other general diseases Alcoholism, acute and	**	**							**	••	** "			**				**	• •				**			4. 44
	chronic	1	1								***				1											1.15	

	SATURDAY, NOV		30	, 1907					ТН							KI.	•	_				_					124	11
	Cause of Death.	Total, Both Sexes.	All Ages	Unde i Year	I.	2,	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35	40.	45	50.	55-	60.	65.	70.	75.	80.	85.	. Col	Chin-
57· 58.	Lead poisoning Other chronic poisonings of occupation					**			••														,					
59.	Other chronic poison- ings			•																								
60.	Encephalitis	.,	.,	٠.				,,	••						.,													7.5
61. 61a.	Simple meningitis (Of which) cerebrospinal meningitis	**	8		1				5	1	1	1												••				
	Locomotor ataxia Other diseases of spinal cord		1	**	**		**		*		**			•		**		1										
64.	Apoplexy, congestion of brain Softening of brain		31		**				:							**	**	2	5	2	2	5	5	6	2	2		
66.	Paralysis unspecified.		4						-2											1	1		1	1				
	General paresis Other forms of insanity	**			**	**		**	**		**	**							.,		- 44	**				**		
70.	Epilepsy		1		.,								••												**	**		
	fants Tetanus, trismus	**	2	2	**			**	2					**	**											**		
	Chorea		1 2	**							- 1												44					•••
	Diseases of the eyes.			**	**				**		**									• • •			11	**		***		
	Diseases of the ears.  III. Diseases of Circulatory System.		**	**	• • •	**	**				•••		••			**	• • •	**		**				44	**			
	Pericarditis		**			**	10	**	**				**	••	**				**					++				
9.	Organic heart diseases		54			**		1	1	**	**		2	1	3	2	3	3	4	1	9	5		3	4	2	2	
	Angina pectoris Diseases of arteries, aneurism, etc		4		**	**	.,	**			**							••		**	**						**	**
3.	Embolism, thrombosis.  Diseases of veins (hæmorrhoids, varices, phlebitis, etc).	**	3	**	**	44	11		**	**	**			**		••	**		1	**	**	**	*	1			**	**
	(lymphangitis, etc)						**				**		••				**										**	**
5. 1	Hæmorrhage Other diseases of cir- culatory system						11		**							••		**										
	IV. Diseases of Respiratory System.  Diseases of nasal																									-0.55		
B. I	fossae Diseases of the larynx		1		**	14	**			**	11		**							**	14							
	Diseases of thyroid gland										44											**				**		**
. (	Chronic bronchitis	••	2 19	8					15									4.4						2				
. F	neumonia	**	40	4	2		1		7	2	2	1	1	1	2	1	2	4	**		4.	3	4	2	2			
: 6	Pleurisy		3											1							.,		42					
	sthma			**	**	••			1	**	**	••				**		**				**					49	
. P	ulmonary emphysema ther diseases of res- piratory system	**		••	**.				**	**	**	**	**	••	••			••			••							**
v	(phthisis excepted)  Diseases of Digestive System.	**	••		**	**	41	**	**	**	**	**		••	•••	**		**		**	•••							**
D	iseases of mouth and adnexa	**	.,																				2.5					
	iseases of pharynx.	••	••	• •			**				••							**										
U	lcer of the stomach. ther diseases of stomach (cancer ex-	••	1		••		••	**			••		•••		••			1		**					••	••		
Di	cepted)	**	3 76	69	7				2 76								••	τ			••		••					
D	(Of which) Chronic diarrhœa iarrhœa and enteritis				**	**	.,						••	••								**				**	1	**
In	(two years and over)testinal parasites	**	6		••	1		1	2		•••		1			1		4.				1		1				
н	struction		4			**	,,	**	**	**								1	1		2		,				**	
	testines	••	3		••				.,					1		2							**	••	1			
	rrhosis of liver	.,	9				.:					**		••	2	2											**	••
	liary calculi her diseases of liver		2								••						.,					**				••		
Di	seases of spleen mple peritonitis (non-puerperal)			**			745		••													••				••	*:	
	her diseases of di- gestive system (ex- c e p t tuberculosis	••				**		•	**		10		••	••	••	•••	••	••		••	••	••	**	* *	••	**		
Ap	and cancer) pendicitis and iliac abscess	••	4		••	••	••		**		2		1	••	1	••	••					**					**	**
	Diseases of Genito- urinary System.		6		••							1	1	,	25	40	2										1	* *
	ght's disease her diseases of kid-		49	••	•••	••	••	**				.,	1		8	4	3	1		2	7	3	6	6	3	, 3		
1	neys and adnexa	• •					**	**	**	*									**		1							**

=	12412				-			- 3	ГН	E	CI.	ГҮ	R	EC	OI	RD			1		SATU	JRDA	Y, N	OVE	MBE	R 30	, 1907	2
	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year,	1.	2.	3.	4:	Total, Under	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55.	6g.	65.	70.	75.	80.	85.	Col- Cored.	hin ese
23.				**	**								11	**					**						**			-
25.	urinary abscess, etc		••	••	1.0	**	4.	••	•••	••	••	***		**			3.4	**		• • •		- ••		25				-
26.	Non-venereal diseases of male genital or- gans						•••		**						**		3		**			••	•••		••		•	K
27.	Metritis			**	44	**					.,			**					.,					100				
29.	(not puerperal) Uterine tumor (not	***	1		•••	.,		••				••	- **	1		- **	••		••		**					**		
30.	uterus					**											•••	1		. "	••	**	4.*		**	**	***	
31.	tumors		2										1	**						**	1				- 1			
33.	male genital organs Diseases of breast	**	3	**	••	**	• • •	••	**	••		**	1	T			1	**		**				1464			**	
	(not puerperal, nor cancer) VII. Puerperal Dis-			••		**	•••					- 11		•••	••				**	0.0	**				4.			
34.	eases.																											
	nancy	**	2	11	**	**	**	**	**	••	**		**	••	1	••	1	**	••	**	•••	. **		**	46	•••		
35. 36.	Other accidents of labor		1			.,									1					**	**		••	**	••		**	*
37· 38.	Puerperal septicæmia. Puerperal albuminuria		7		**	**	••	**	**			1	1	4		1	. **			*							1	
39.	and convulsions Puerperal phlegmasia alba dolens	++	5	**	•••	**	•••	**	**	••	• • •	1		2	••,	1	1	**		••		**		45				
40.	Other accidents of parturition, sudden					,			**			**	**	**	••			**	**		**	**	**		4.	**	••	
41.	death	**	1	**		**	••			• • •	**		**	1		•••	••		**	••	•••			**				
	VIII. Diseases of Skin and Cellular Tissue.									3.77	*				• •	**					••	**	**	**	**	**		
42.	Gangrene	**	3	1					1					.,								1						
43-	Phlegmon, acute	**	1	1		**	• •	••	1	••	••	14	**				++						,,			,,	.,	
	abscess Other diseases of skin and adnexa	**	**			**						11				••		**	**	••	••			••		**		
	IX. Diseases of Loco- motory System.														*	730		- 12						**			••	• •
	Diseases of bones (non-tuberculous) Arthritis, other dis- eases of joints (ex- cept tuberculosis	**	3		1				1	2	**	->+	***	**	**							.,	••				••	
	and rheumatism)	**	**		**	**	**					4.5							**								***	
18.	Amputation Other diseases of or- gans of locomotion.							**	**				**	**	**			**	••			••				**		
0.	X. Malformations.  Congenital malformations		1						.,	1						••	**	••	•••	**	**	••	**		••		••	
1.	XI, Diseases of Infancy.  Congenital debility,								- 20										122		••	-	**	••	••		***	
:1a.	icterus and selerema Injury during birth		39	39					39					**	***	• •	•••	••	***		**							
52.	Other diseases pecu- liar to infancy		1	1			**		1			**												••		••	**	•
3-	Neglect	19	**		••	**	**	••		**	**	**	**	•••	**	**	**			**				**	**			
	Senile debility XIII. External Causes.	**	16	**	**	**	••	1000	**		••		**	.,	••	••	34	**	••	**		2	.1		2	10	• ••	*
	Suicide by poison Suicide by asphyxia			**	**											**	**	••	• • •	••	•••	••	••		••	**		.,
7.	Suicide by asphyxia Suicide by hanging or strangulation	**	1																	1		11			***	**	••	• •
	Suicide by drowning.			••			**				**		**	• •	**		**											
9.	Suicide by firearms Suicide by cutting instruments Suicide by precipita-																••					**		•••	••	••		
	tion from height	•••		***	**	**	••	••		**	••					••							**					
3.	Suicide by crushing Suicide by other methods												.,		••	•••	**										••	
64.	Fractures							**	**			*											**	**				
65. 66.	Other accidental in-	••	•••	**	**	**	••	••					**	**														
57.	Burn, by fire, scald Burning by corrosive		2				1		1				**					••	"	•••	1	**				.,	++	
68.	Burning by corrosive substances		**	••			**																**	***	••	•••	••	••
69.	Sunstroke	••	2	••	**	**	**	٠.	**		••	••	**								**			1	1			
70.	Freezing												••	**	• • •	••		••	**	**			4.		**			
	Accidental drowning												4.									**		**	**	**	••	
73.	Inanition (starvation) Inhalation of noxious	**	**		**							••			**											••		
5.	gas, not suicidal Other acute poisoning		2											**	••	••			t	44		1		**		**	1	
6.	Other external vio- lence		**			·:.						**													••	**	**	90
	(Of which) a. Homicide, by blows b. Homicide, by sharp instru-	••			••				••		*										**					**		
	ments	**	**		••	**	••	••		••	**	••	•••		••	••				11	**		•••			٠.		
	d. Homicide, by					***	**										**			**	• •		••				**	
	e. Homicide, by other methods.  XIV. Ill-defined or		**	••								**			••	•••				**		••	.,	•••		**		••
7.	Not Specific Causes.  Dropsy Sudden Death, not																••								100	3.0		
	puerperal							••					**			••						**						1000
0.	Ill-defined causes		25	23	2	**	**		25		**		**		**		**					**			3.		1	

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SATURDAY, NOVI	EM BE	K 30,	1907.		_	Thu		HE	-	J 1 1	Y	RI			-	_	-	_			_	-		==		2413	_
Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55.	60.	65.	70.	75.	80,	85.	Col- Cored.	Chin ese.
I.—General diseases		137	. 6	10	4	4	5	29	8	4	4	6	7	11	16	8	9	10	6	7	3	. 4	3	44	2	Lak	
a. Tuberculous diseases		56	1	1	2			4	1	2	2	3	6	9	12	4	4	3	2			2	2		**	11.	-
b. Cancer	-44	32	1									1			4	3	4	4	4	7	1	2	1		1		
II.—Diseases of nervous system and organs of sense		53	4	3	60:		1	8	1	2	1			1	1		3	5	3	4	5	7	8	2	. 2	1.	5
III.—Diseases of Circula- tory system		64					1	1				2	1	4	3	3	3	5	1	9	6	12	6	5	3	2	
IV.—Diseases of respiratory system V.—Diseases of Digestive		72	15	11		1		27	2	2	1	1	2	2	r	2	4	1	1	10	3	4	7-	2		-	
VI.—Diseases of Genito-		110	70	8	1		1	80		2		2	1	3	5		3	,I	2	4	2	2	1	2	**	1	
urinary system		63		3.6							1	4	3	8	. 4	5	3	2	2	9	3	6	7	3	3		
VII.—Puerperal diseases		16				**	**	**	1,44		2	. 1	7	2	2	-2		**					**	***	++	1	
VIII.—Diseases of skin and cellular tissue IX.—Diseases of locomotory		4	2	**	.,			- 2		٠											t		11		. 1		
system	**	3		1	- 64	. **		1	2		**	**		**	**	**						**	4.4	**	14.4	**	
XMalformations		1					(**		1			**					**										
XI.—Diseases of infancy	**	41	41					41			**				***						**		**	**			
XII.—Diseases of old age		16									**	**			**						2	1	1	2	10		
XIII.—External causes		9				1		I			1	.,,		1	**			I	1	r	r		. 1				
a. Suicide		2									1								1								
b. Homicide					4.							**							1.0						- 4.4		
c. Accident		7				1	**	1						1				1	**	1	1			1		1	
XIV.—Causes ill-defined		25	23	2				25					.,				**	**	**			**					
Total females		614	161	35	5	6	8	215	14	10	io	16	21	32	32	20	25	25	16	44.	26	36	34	17	21	5	-

CITY OF NEW YORK. Deaths of Males, by Age, and Cause of Death for the Year Ending December 31, 1906.

Total, Both Sexes. Total, Under 85. Col- Chin-ored, ese. Cause of Death. I. General Diseases. r. Typhoid fever ..... 639 Typhus fever..... Relapsing fever .. Malarial fever..... Smallpox ..... 532 162 158 835 Diphtheria and croup 1,057 104 212 149 Influenza ..... IOI Asiatic cholera..... Yellow fever..... Erysipelas ..... Other epidemic dis-eases ..... so. Pyæmia septicæmia... Malignant pustule.... Hydrophobia ...... Actinomycosis ..... Trichinosis ..... Pellagra ..... Tuberculosis of larynx Tuberculosis of lungs 8,955 37 Tubercular meningitis Abdominal tubercu-113 losis ..... 109 196 Potts' disease..... Cold abscess..... White swelling..... Tuberculosis of other organs ..... General tuberculosis.. 5 Scrofula ..... Syphilis ..... 172 Gonorrhœa (adults) .. 37-Gonorrhœa (children)
Cancers, etc., of the
mouth
Cancer of stomach,
liver
Cancer of intestines,
rectum
Cancer of female genital organs..... 113 93 591 1,235 183 427 447 Cancer of the breast. 273 Cancer of the skin...
Cancer of other organs
and unspecified...
Other tumors (except
of female genital
organs) 68 47 255

13

	12414								TH	E	CI	TY	F	E	co	RI	ο.				SAT	URD	AY, 1	VOV	EMBI	ER 3	0, 190	7-
	Cause of Death.	Total, Both Sexes	All	Unde:	1.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85	Col-	
	Acute articular rheumatism	388	166 56	5	2		2	3	13	21	13	13	8	8	8	9	, 9	15	13	9	11	6	5	3	,			
49.			4	3			1		4									2	5	5	7	10	3	4	2	1		
50.	Diabetes	652	281	••						2	1	9	9	3	7	14	16	27	42	40	39	29	27	8	7	1	2	
51.		29 6	2	**			**	**	**	**	**	**		••	•	**	, 1		••	**				,,		1		
53-	Leukæmia	72	44			1			1	3	1	1		2	2	3	8	5	5	1	5	4	1			**		
54-	Anæmia, chlorosis	95	37	4	**	. 2			6	4		I	1	2	1	3	6	2	2	5	1	3					1	
55. 56.	Other general diseases Alcoholism, acute and chronic	636	523						**	1			7	44	90		89	80		••	**		.,	**	••			
57.	Lead poisoning Other chronic poison-	9	9										1	1	2		1	2	43	30	25			3	**		3	
59.	other chronic poisonings	1	5							••			**				1											
60.	II. Diseases of Nervous System and Organs of Sense.  Encephalitis	10	6	2			32		2																			
61.	Simple Meningitis	1,206	667	146	84	56	34	29	349	100	43	47	34	20	12	20	14	10	7	4	3	3		1	**		23	
	(of which) cerebro- spinal meningitis	812	455	80	44	39	25	25	213	79	39	38	32	16	8	12	8	6	3		. 1						12	**
62. 63.	Other diseases of spinal cord		78	**	10.0		**				**	• •	**	1	1	7	13	8	13	17	11	4	4	1	1		••	
64.	Apoplexy, congestion of brain		1,339	8		r	1		10	3		3	5	7	28	31	76	96	152	162	195	13	158	124	68	20	17	
65.	Softening of brain	62	31					1	1		++	44			1	1	3	1	4	2	2	6	1	4	2	3	1	
66.	Paralysis unspecified. General paresis	218	109	2	••	••	**	1	3	**	**	1	1	2	5	7	9	12	10	8	16	12	7	6	5	5	5	••
68.	Other forms of in- sanity	179 53	26									2	4	2		4	3	17	3	1	• 1	10	3	2	1	•••	1	**
69. 70.	Epilepsy	145	83	6	1	1	1	1	10	7	1	4	12	10	8	5	7	4	3	2	5	4			1		2	
71.	peral)	721	3	220	47	12	• •		204	3	•••		**	••	**	**	••			**	••			**	••		1	
72.	Tetanus, trismus	85	394 55	330 23	47			3	394	8	7	1	5	1	1		2	2	1	4				**	**	**	15	
73-	Chorea	8	4	••	t	**			1			1	1				1											
74.	Other nervous diseases Diseases of the eyes.	197	124	2	2	4	**		8	5	4	3	12	21	16	22	8	10	3	3	3	3	2		1	••	5	••
	Diseases of the ears.	188	113	21	10	5	3	1	40	11	9	9	10	5	9	7	4		2	3	3			1				**
	III. Diseases of Circulatory System.									-																		
5	Pericarditis'	46	29	2					2	3	2	8	1	2	5	2	••	4	2	1	3	1	••		- 1	••	1	
78. 79.		4 <b>95</b> 5,557	253	14	6	1	4	3	28	9°	5 52	59	77	18	123	180	213	217	16 264	304	316	20	23	12	7	38	6	
80. 81.	Angina pectoris Diseases of arteries,	184	120	4.11		••			••				1	ı	5	-5	11	9	15	21	20	15	8	5	4		ı	
	Embolism, thrombosis	366	66				***		3		2		1	5	6	10	16	17	17	13	20	27	37	23	21	12	12	:-
	Diseases of veins (Hæmorrhoids, var-								3				2	3		3	1	5	10	2	5	9	8	8	1	2	1	**
84.	ices, phlebitis, etc.) Diseases of lymphatics (lymphangitis, etc.)	19	10	3	1	1	2		7	**	1		1		1	2	2		1	1	1	**		1	••	••	***	••
85. 86.	Hæmorrhage Other diseases of cir- culatory system	95 1	57 I	37 1	1	**			38	1	3		1	1	3	4		2		2		1				1	6	**
	IV. Diseases of Res- piratory System. Diseases of nasal fos-																											
88.	Sae Diseases of the larynx	55	30	13	8		••	2	23	2	**		••	**	••		**	*	••	••		**	**		**	••		
89.	Diseases of thyroid gland	4	2												1		1						**		••	••	••	• •
	Acute bronchitis		650	421	87	20	12	3	543	9	1	1	2	1	1	4	3	8	3	6	6	18	17	11	9	7	18	T
	Chronic bronchitis  Broncho-pneumonia 5	254 5,101 2	2,669 1	,199	631	183	72	37	2,122	3 62	11	18	••	2	I	1	2	7	8	10	14	19	13	13	10	8	12.3	
	Pneumonia		3,344		275	101	49	25		83	25	eR.	11	32	239	257	276	35 267	34 215	31	217	55 151	120	37 65	30	20	100	4
94.	Pleurisy Congestion of lungs,	329	215	18	31	13	6	2	70	8	4	8	8	14	10	16	15	9	11	12	11	4	8	3	2	2		
	pulmonary apoplexy Gangrene of lung	121	60 36	16	1						1		1	3	••	3	4	••	1		4	2	5	6	3	8	1	
	Asthma	175	98							í		1		1		3	4	7	6	14	6	17	13	4	5	3		
98. 99.	Pulmonary emphysema Other diseases of respiratory system (phthisis excepted)	96 89	62 58	1												2	4	6	7	8	8	9	6	5	2	5	_	
	V. Diseases of Di- gestive System.								-				2	•	٠	,		12		5	•	3	2	••	**	1	4	••
00.	Diseases of mouth and adnexa	11		2			2.0	64																				
01.	Diseases of pharynx.	56	38	12	6	2	1	1	22	3		1			1 .		**	1 2			**	•	**	**	11,	**		••
02.	Diseases of œsophagus	6	5					1	1								1			1		1			1		4.	
3.	Ulcer of the stomach. Other diseases of	142	89	2	••	••	••	••	2	1	••	••	3	3	13	8	14	17	6	7	5	3	3	2	••	2		
5. ]	stomach (cancer ex- cepted) Diarrhœa and enter-	346	178	38	9	9	3	1	60	2	3	1	3	5	6	8	7	7	9	16	13	2	11	13	8	4	5	
	itis (under two years)	,783 3	3,159 2,	729 4	130			:	3,159													:.					74	
	diarrhœa Diarrhœa and enter- itis (two years and		100	**	**	**			••	•	**	**	••	••	••	••	**	**	••	••	••	••	**			••		••
	over)	722	359			90	29	12		20	7	3	10.	14	14	9	11	20	16	13	17	15	20	18	13	8	6	
	ntestinal parasites  Iernia, intestinal ob-	5		••	1		**		1	1			**	••	••	**	••	1	••	••	••	••	**		••	**	**	
	struction	577	284	53	5	4	4		67	4 2	3	6	7	7	8	15	10	27	23	16	29	25	14	15	4	4	3	2
0. 1	of liver	15	5				1		1 .			1			••	1	1			3			4	1	2	1		
	Iydatid tumor of liver	3	3				**	••								1					1							
	Cirrhosis of liver I	137	658 55			**	**	1	1 .		2 .		4	14	37	73	100 1	101	89	80	75	39	29	8	5	1	12	Í
3. 1	mary calcult	-3/	33			3.0		••		•	•		**	2	2	3	5	6	11	5	5	6	4	2	1	1		

3	Cause of Death,	Total, Both Sexes.	All Ages.	Under Year.	1.	2.	3.	4	Total, Under 5.	5-	10.	15.	20.	25.	30.	35-	40.	45-	50.	55-	60,	65.	70.	75-	80.	85.	Col- ored.	Chin- esc.
114.	Other diseases of liver	136	75	2		**	1		. 3		1	**	7	5	4	7	6	7	12	7	3	6	3	1	2	r	3	
115.	Diseases of spleen Simple peritonitis (non-	6	4			•••					••			2	2													
117.	Other diseases of di- gestive system (ex-	77 -	36	4	**	**	2	I.	7	3	1	1	.2	4	2	4	1	5	2	**	4.0	1	2	1		**		
118.	cept tuberculosis and cancer) Appendicitis and iliac abscess	17	10 333		2		2		9	23	29	42	36	40	40	24	23	2 22	15	3	12	1 2						
	VI. Diseases of Genito- urinary System.																								-113.	-6		
119.			342	33	5	13	9	1	61	20	6	12	14	25	26	40	20	24	24	26	14	11	11	7	1		6	
121.	Bright's disease Other diseases of kid- neys and adnexa	5,438	2,960	3			7		18	13	13	23	51	110	143	229	275	284	321	304	346	335	238	135	86	36	62	5
122.	Urinary calculus	23	17											ì	1	1		2	1	2	2	2	1	3	1			
123.		98	75	1	1	1	••		3	1		••		**	2	1	1		7	5	3	7	14	14	13	4	1	
125.	urinary abscess, etc. etc	36 36	27	::	::	::	::	::	- ::	::	::			1	2	3	5	3	5	3	1	2	1		1			
126.	tate	86	86	**	**	•••	**	***	**	**	•••	••	**	1	1	3	1	2	1	4	14	16	18	12	9	4		
	gans	2	2	1	**	**	**	**	1		••		**	**					. 1	**	***							
127.	Metritis	5	11		**								. **				••	**		**				**	**	**		
129.	Uterine tumor (not cancer)	94											**							**			**		**	**	**	
130.	Other diseases of uterus	34	***			**		**				**																
132.	Other diseases of fe- male genital organs	50	**	**	••		**	**	**	**	**	••	**	**	••			••	11	••						**		
133.	Diseases of breast (not puerperal, nor can-	133	**		•••		-					•		**			••		3.0			**	**	11	**	••	**	
	VII. Puerperal Dis- eases.			**	**			**	**			**	••	••	•••	••		**	**					**	••			**
134.	Accidents of preg- nancy	173		124				.,					₽×															
135.	Puerperal hæmorrhage Other accidents of	43		••					**			**	**		**				••	**		**				**		
137.	labor Puerperal septicæmia,	263	**	**											••	**	**	**	••	**		**		**	••			••
138.	Puerperal albuminuria and convulsions	123				1																						
139.	Puerperal phlegmasia alba dolens Other accidents of	2					**	**		* **		- * *												**				
	parturition, sudden death	24	**	**	••	***		**																				
	VIII. Diseases of Skin and Cellular Tissue.																											
142.	Gangrene	201	38	**		1	**		1	1	**		1				I	1	1	1	2	8	7	6	6	2	- 44	
143.	Phlegmon, acute ab-	32	65	15			**		15		2	3		1	1	1	2	**	2	5	3	3	1	2				
145.	Oher diseases of skin and adnexa	46	20	12	2	1			15								5	7	4	1	5	**	2	2		**	3	
146.	IX. Diseases of Loco- motory System.  Diseases of bones (non-tuberculous)	121	74	18	10	5			35	1	4	6											1				**	
147.	Arthritis, other dis- eases of joints (ex- cept tuberculosis						*								•									**			7	•••
	and rheumatism	15	9	1		**		•••	1		1	2	••	1	**	••		1		1	1			**				
149.	Amputation Other diseases of or- gans of locomotion		1								1		••	**	**	••	**	**	**	**	••		**	**	**	••	••	**
150.	X. Malformations.	4	-0-	111	- 23								••		•					••		•			-	••	**	4.
	XI. Diseases of Infancy.	670	382	349	14		,		377	•	3			**	••	,,	.,	••	••	••	**						7	••
151.	Congenital debility, icterus and sclere-	- 666	2055	2011					2.055																			
1518.	ma	264	2,055	2,051					2,055				**	**	**	**	**	**	**	••	••	••		**	1.1	• •	67	
152.	Other diseases pecu- liar to infancy	75	51	50	1				51									**									3	
153.	Neglect XII. Diseases of Old Age.	4	1	1	**	**	1991	**	1	**	**	111	**	**	••		••		••	**	••		**		**			
200	Senile debility XIII. External Causes.	890	324	447	••	**	••			44		••							**	6	10	30	37	68	83	90	2	
	Suicide by poison	131	90	**	••	**	•••	••	••	••	2	9	8	13	16	13	10	4	7	3	5	••					1	1
156.	Suicide by asphyxia Suicide by hanging or strangulation	69	36 59										11	10	12	15	17	17	10	18	12	5	5	3	• •	••	- 17	
158.	Suicide by drowning.	15	9										3	1	1	13		2	1	6							**	1
159.	Suicide by firearms Suicide by cutting in-	212	198	**		••		**	4.6	••	2	9	18	29	20	21	13	21	21	15	11	8	5	2	2	1	1	
	struments Suicide by precipita- tion from height	45	39					:.		••	**	••	••	2	5	5	4	4	5	7	4	1	1	••	1	••		1
162.	Suicide by crushing Suicide by other meth-	1											2	3				4	. 1			3			**	••	2	1
63.	Suicide by other meth- ods	1	1	••	••	**		••	**	••	***	**	**	44.	1				.,									1
	Fractures	113	89	**						2	2	4	7	4	12	11	15	6	8	3	5	5	2	1	2	••	1	
65.	Other accidental in- juries	2,176	1,812	11	17	24	27	41	120	164	67	94	169 -	185	192	184	179	121	103	61	77	48	28	8	**		••	••
67.	Burn, by fire, scald. Burning by corrosive	355	151	13	25	26	20	10	94	12	2	1	4	4	8	4	3	3	5	8	1			1		1	3	
	substances	112	66			••			12		••	**					• •				••	•••		••			**	
000	Sunstroke	112	11									1	3	4	9	9	9	3	6	1	3				1	••	1	
	Electrical shock	25	25								1		3	5	6	3	4	1	2									**
	Accidental drowning.	497	463	2	2	2	••		6	30	38	43	40	49	41	43	54	41	21	28	13	9	3	1	2	1	9	
73-	Inanition (starvation). Inhalation of noxious gas, not suicidal.	282	194	6		**	1		8	23-				16	23	22	22								•••			
	200		100			-3						190	23	16	-3		-	9	12	14	11	8	8	6	1	1	10	

12416	Ant							ТН	E .	CI	I. X	R	E	01	KD	•		97		SATU	JRDA	Y, N	IOVE	MBE	R 30,	1907	7.
Cause of Death.	Total, Both Sexes	All Ages.	Under I Year	1.	2.	3.	4	Total Under 5.		10.	15.	20.	25.	30.	35.	40.	45-	50.	55.	60.	65.	70.	75-	80.	85.	Col- Cored.	Chin- ese.
75. Other acute poisoning	96	49	3	3		2	4	16	5		2		6	3.	. 3	2	4	3	1	. 3		-1	-			3	
Of which)	364	246	23	2	1			27	2	3	13	40	33	29	34	20	17	13	4	6	2	2	•••	. 1	**	13	4
a. Homicide, by blows b. Homicide, by sharp instru-	45	36			**			1	**			7	5	3	4	3	5	2	3	1							
ments	56	48							. 1		4	9	9	7	5	6	2	3		- 1				- 1		2	
c. Homicide by gunshot	135	106								1	8	23	17	12	20	10	8	4	1	2							
d. Homicide by poison	3	2													1										- 30		
e. Homicide by other methods.	14	4	1									1		1													
XIV. Ill-defined or Not Specified Causes.																							4				
77. Dropsy				**		**					**											9					**
puerperal										• • •														**			
79. Ill-defined causes	969	509	446	49	*	6		505				••		**	2	1	. 13	•••						•••	**	19	
.—General diseases a. Tuberculosis dis-	20,970	11,693	752	726	468	320	169	2,435	386	157	367	675	900	1,160	1,230	1,003	907	736	575	442	328	216	107	50	19	296	46
eases	10,194	6,332	184	136	74	55	29	478	78	65	267	522	724	920	939	696	612	416	269	169	106	47	17	3	4	223	40
b. Cancer II.—Diseases of nervous systems and organs of	-	1,174	2	1	1	1	•••	5	7	4	8	16	18	30	56	100	110	152	176	155	133	114	56	27	7	16	
sense	6,046	3,226	541	146	81	41	38	847	138	65	72	84	73	90	121	174	169	217	221	254	252	189	T44	79	37	74	4
system	6,951	3,541	65	10	4	9	4	92	52	65	67	93	131	166	216	258	271	325	369	388	371	314	202	105	55	97	7
V.—Diseases of digestive	13,361	7,343	2,056	1,037	319	140	70	3,622	168	43	90	149	230	282	325	351	365	288	280	338	278	230	145	80	79	217	9
VI.—Diseases of genito-	9,003	5,327	2,849	454	108	43	21	3,475	59	46	58	75	102	134	155	181	218	185	164	161	101	92	63	36	22	110	3
urinary system		3,549	39	12	16	16	1	84	34	19	35	66	140	178	284	305	316	364	348	383	376	288	172	112	45	69	5
VII.—Puerperal diseases VIII.—Diseases of skin and	763	**		**	**	***	**		**		**	**	••		**	**	**	**	. **	**		**		•••			
cellular tissue  [X.—Diseases of locomotory system	279 137	145	28	10	2 5			3a 36	. 3	6	8	3	3	9	7	. 8	9	8	9	11	***	10	9	7	2	3	
X.—Malformations	670	382	349	14	5	7	2	377	1	3			-	5	•	•	3		5	3	2		**	•••	**	7	**
XI.—Diseases of infancy		2,262		4				2,262				**				***	- "						**	**	***	7	
XII.—Diseases of old age.	890	324			***														6	10	30	97	68	83	90	71	**
XIII.—External causes	4.741	3,663	67	52	57	51	57	384	215	118	179	333	362	383	390	365	275	222	174	160	96	37 56	24	18	90		
a. Suicide	707	556								3	11	44	56	60	77	57	62	47	54	37	24	12	7			-	
b. Homicide	253	196	. 1				1	2	1	3	13	40	31	23	30	19	15	0	4	5							•
c. Accident	3,781	2,911	66	52	57	51	56	282	214	112	155	249	275	300	283	289	198	166	116	118	72	44	17	12		**	16
XIV.—Causes ill-defined	969	509	446	49	. 4	6		505			1				2	1										19	
Fotal males		42,048	9,468	2,516	1,070	633	364	14,051	1,056	524	880	1,484	1,943	2,407	2,732	2,650	2,533	2,346	2,151	2,150	1,845	1,433	934	571	358	1,056	82
Total females		34,155	7,720	2,197	905	532	372	11,726	878	541	743	1,307												8.45.00	579 1	100	4
Total, both sexes.	-	76,203	17.188	4.713	1.075	1,165	736	25.777	1.034	1.065	1.623	2,701	3.536	4.056	4.107	4.208	4.030	7.000	2 704	4.018	2 = 84	2.057			937 2		86

CITY OF NEW YORK.

Deaths of Females, by Age, and Cause of Death for the Year Ending December 31, 1906.

	Cause of Death.	Total, Both Sexes.	All Ages.	Under- Year.	1.	2.	3.	*	Total, Under	5-	10.	15.	20.	25.	30.	35-	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	
	I. General Diseases.																	2										
1.	Typhoid fever		247		3	1	1	4	9	13	23	34	39	36	32	19	15	12	5	1	3	3	1	1	1		6	
2.	Typhus fever	**		++	**					***	**	**	**	**	**					**	**							
3.	Relapsing fever	**	. **		111		• •	••	••	**	**	••	**		••	**				**	**	**						
4.	Malarial fever	**	21	**	1	1	2	• • •	4	••	1	1	2	2	1		3	1	2	1	2		1	**			3	
5.	Smallpox	4.6	2	1	11		1		2	••	**	**	**	**	***	**	**	**			***	**						
6.	Measles	17.2	579	153	221	102	50	23	549	24	2	2		. 1	**	r	**	**		**	**		**	* **		**	8	
7.	Scarlet fever		245	25	31	44	33	24	157	59	15	1	8	3		1	1	**									1	
8.	Whooping cough	11	205	104	49	26	8	9	196	9	**		• • •			++			**								4	
9.	Diphtheria and croup.	* * *	841	-91	189	155	119	87	641	155	21	10	2	2	5			4		(0.0)	1						10	
10.	Influenza	11	140	8	5	4			17	2	2	4	**	2	5	- 4	9	12	10	10	10	14	14	11	9	5	10	
ıı.	Miliary fever						**	**		**		**	**												4.			
12.	Asiatic cholera	++				**				···						4.4				**								
13.	Cholera nostras					**				**		144				99.0												
14.	Dysentery		72	15	1	3		2	21	1		2	2	3	2	2	1	1	3	6	4	5	7	3	6	3	2	1
15.	Plague		**	**		**			**							**					44							
16.	Yellow fever										**																	
17.	Leprosy		**	+31												11							5.					
18.	Erysipelas		143	69	5	1			75		2	4	4	4	3	7	4	8	6	3	7	4	4	4	1	3	3	
19.	Other epidemic dis-		9	4	1		2		7									1	**							1		
20.	Pyæmia septicæmia		19	10	1				11				1	1			. 1	2		. 1	2							
21.	Glanders																											
22.	Malignant pustule																			41 .								
23.	Hydrophobia		4			1	44	2	3		1								1 22						99	**	200	
24.	Actinomycosis		1																	4		1				49	1	1
-0.	Trichinosis		1												1								7.4.					-
25.	Pellagra																									- 7		
26.	Tuberculosis of larynx		19										2	5	3	6		1								1		
27.	Tuberculosis of lungs		3.314	25	22	11	15	2	75	31	80	288	503	569	480	416	283	184	127	112	70	42	28	12	1	4	104	
28.	Tubercular meningitis		351	84	66	60	27	16	253	41	17	12	14	6	3	3	1	1									21	
29.	Abdominal tubercu- losis		87	17	2	2			22		2	6	7	12	8	6	5					2	,				6	1-9
30.	Potts' disease		29			1	1		3	6				,		,		,	,		,				- 100			
	Cold abscess	11125	111					- 6	- 6		,			300	•	- 2						-		37.		1 33	1	30
31.	Cord auscess	7 ***	4	. 1	**	**		**	1	***	**	**					2	**	1	**		**		144			**	-

	SATURDAY, NOV	ЕМВЕ	ER 30,	1907.				-,0	THI	E)	CI	ΓŸ	R	EC	OF	RD.										13	2417	
-15	Cause of Death.	Total, Both Sexes.	All Ages.	Under Year.	I.	2.	3.	4-	Total, Under 5.	5-	10.	15.	20.	25.	30.	35.	40.	45.	50.	55-	60.	65.	70.	75.	80.	85.	Col- Cored.	hin-
32	Tuberculosis of other		19	**			1	2	3	4	2	6	,4		1		1	- 31		2	••							•••
34	General tuberculosis.	**	17	6	2		1		9		1		4	4	2	1	1	**			**	••	••	**		**		
35		**	2	2					2																	1447		
36.	Syphilis	9.6	103	79	4	**	1	1	85				2	2	2	5	r	3	3								8	
37			2	***		•••			**	**	••	**	••	1	1	••	**				••	**		**		4.0		.:
38.		15	3	3	**		11	**	3			••		**	• •	• • •	**	••	**			**	•••	**	**			•••
40	Cancer of stomach,		644					1	1				2	7	9	19	59	59	98	94	104	90	56	30	7	9	4	
41.	rectum		244	**			1		1			2	2	8	6	12	27	25	37	29	37	21	17	10	7	3	2	
	ital organs	**	447	••	11.5		• •		**	**	1	2	2	7	26	40	60	77	62	50	57	25	18	11	6	3	11	
43-		**	268	**	**		**	**	**				1	1	9	22	40	35	32	42	27	19	20	8	7	5	5	••
45	Cancer of other or- gans and unspecified		187	1		1	2		4	1	1	2	3	5	10	10	24	24	23	23	21	12	9	10	2	3	1	
46.	Other tumors (except of female genital			21																						- 1		
47-	Acute articular rheumatism		26	1	2	2	3	7	16	30	25	15	7	16	13	0	11	13	13	10	14	3	. 6	8	***	2	. 8	**
48.	Chronic rheumatism and gout		85	1				1	2	3	5	2		3	3	7	3	7	- 2	3	7	12	11	8	4	3		
49.	Scurvy		5	1		1			2	1		1	**		1				**									1,4,4,
50.	Diabetes		371		11	••	•••	1	1	1	5	4	8	11	6	17	11	26	44	42	62	58	42	25	5	3	3	
51.	Exophthalmic goitre  Addison's disease		27	**	**	••	**	**	**	**	**	3	1	1	3	2	3	3	2	5	3	1	**	* **	**	**	1	••
52.	Leukæmia	**	23	1				1	2	2	2			2	4	2	. 1	2	2	***	I	I	2				1	
54.	Anæmia, chlorosis		63	5	r		ı		7	1	2	4	4	7	5	3	6	5	5	5	3	2	2	i	ī		3	
55. 56.	Other general diseases Alcoholism, acute and			++	**			••		**		**	**						**	**	**	**		••	.,	• • •		••
	chronic	**	113	**	**		••	**	**	••		1.	6	9	28	25	23	9	9	1	2	1	**				4.4	
57.	Other chronic poison- ings of occupation.																						-					
59.	Other chronic poison- ings II. Diseases of Nerv- ous System and Or-	**	6	**	**		* **	••	**	••		1		1	1	• •	**	••	••	1	1		**	1				
60.	gans of Sense. Encephalitis	**	4							1						2	1				**	**	**					••
61.	Simple meningitis (Of which)	••	539	130	100	40	35	21	326	67	46	26	15	18	12	3	6	4	7	4	2	2	1		***		15	••
612	Cerebro-spinal meningitis		357	60	63	31	25	15	194	52	38	24	12	14	10	3	3	3	2	1	3		1 2				11	
63.	Other diseases of spinal cord		71				2			4	1	1	3	4	2	3	7	9	6	7	10	7	2	2	1		2	
64.	Apoplexy, congestion of brain		1,371	8	3	1			12		2	2	3	6	23	35	59	90	147	150	190	191	199	143	76	43	44	
65.	Softening of brain		31	••	**	**	••		••	**		**	• • •	**	1	1	1	1	1	3	5	3	1	5	4	. 5	1	• •
66.	Paralysis unspecified.  General paresis	.,	68		2				2	1				3	4	7	. 9	6	10	5	14	13	13	14	6	7	4	**
68.	Other forms of in- sanity		27									1	1	4	5	5		1	1	3	2	1	2		1			
69.	Epilepsy Convulsions (not puer-		62		2		1	1	4	5	3	3	5	8	5	5	9	. 4.	1	3	2	2	3				1	
70.	peral)		3	**		**	••		**	2	**	••	• •	• •	**				**	••	• •	**	I	••	••	**	• •	
71.	Convulsions of infants Tetanus, trismus	**	326	272	36	10		3	326	**				1	2	2	1		3	2	2						1	
72.	Chorea		4					٠		2	2																	
74-	Other nervous diseases		73	1	1		2	2	6	3	4	4	4	8	7	6	8	6	5	1	4	3	3	1		••	2	
75-	Diseases of the eyes.	**	4	1	1	1	••	**	3	••			6						••	1	1	**	**		••	***		••
76.	Diseases of the ears.  III. Diseases of Cir-	• •	75	17	10	5	3	**	35	4	5	3		. 1	3	3		3	3	•	•							**
-	culatory System.												24		2		1	2	0.2	1			1	1	1		1	
77.	Pericarditis Acute endocarditis	**	242	6		. 2	2	2	12	11	7	9	9	12	14	21	17	9	16	18	19	22	19	17	6	4	6	
79.	Organic heart diseases		2,787	13	5	3	4	6	31	55	70	66	96	100	124	161	159	187	257	239	322	303	260	178	107	72	85	1
80. 81.			64				••	••			1	**	**	. **	1	4	2	6	2	6	8	12	14	6	2		••	• •
	aneurism, etc	**	141			••	**	**	**		• •			2	3	10	4	6	6	10	14	12	10	18	15	19	4	**
82. 83.	Embolism, thrombosis Diseases of veins (hæmorrhoids, var-	***	96	2	1		: 6	**	3	1				10	,		3											
84.	ices, phlebitis, etc.) Diseases of lymphatics		16	1	**	••	**		1	1	••	••	**	11	3	1	1	1	2	1	1	1	2	1			••	24
Sc.	(lymphangitis, etc.) Hæmorrhage		38	26 .				1	27	í	2	2			1	1	**	3			1							
85. 86.	Other diseases of cir- culatory system													**														
	IV. Diseases of Respiratory System.																											
87.	Diseases of nasal					*																						
88.	fossae Diseases of the larnyx		24	5		3	1		14	1				1		1	1	2		1			2	1				
89.	Diseases of thyroid gland		3	1					1					1	**		1		.,									
90.	Acute bronchitis		669	346	113	31	8	8	506	7	1	4	1	••	1	1	1	6	5	10	20	27	21	23	24	11	14	**
91.	Chronic bronchitis		136	1	3	3	62	1	1,853	46	4	7	3	19	12	5	5 27	27	7 30	9	63	67	61	48	49	7 27	71	
92.	Broncho-pneumonia		2,432	265	199	92	62 41	29	626	62	13	39	73	95	117	116	126	130	139	177	182	170	139	100	47	43	76	
94.	Pleurisy		114	13	17	9	6	1	46	6	2		11	8	7	8	6	2	5	3	1	5	3		1	••	2	••
95.	pulmonary, apoplexy		61	10			**		10	1	••	1	••	4		1	2		••	4	6	5	10	7	4	6	1	••
96.			13		••	••	**	**	**	• •		2	1	3		- 1	3		7	8	1 12		12	10	10		3	
97.	Asthma Pulmonary emphysema		77 34						.,						2	1		1	3	3	4	6	7	4	1	2 .		
99.	Pulmonary emphysema Other diseases of re- spiratory s y s t e m (phthisis excepted)			7	72	4.2	242	4-1			15.				2	•		1	•	2		2	,	16		1300	2	
	V. Diseases of Diges-	**	31	**	1		**	••	1	2		**	3	1 10			. 3	1	3	3			3	200		77.		
100.	tive System.  Diseases of mouth and																							2.	- X			
	adnexa	A	6 .	1	**	2	1	***	4	1	••	••	**	***		***	**	**	1		**	**	**	••	**	**	**	••
101.	Diseases of pharynx	••	18	2	1.0	••		•••		•	•	••	**	**	1	1	11		1	**	••	••			**	1.5	•	

=	12418							1	TH	E	CI	TY	R	EC	0	RD	•	'		. 3	SAT	JRDA	Y, N	OVE	MBE	R 30	, 1907	1.
	Cause of Death.	Tota Both Sexe	l, All s. Ages.	Under Year.	T.	2.	3.	4.	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45-	50.	55.	60.	65.	70.	75-	80.	85.	Col-	Chin-
102.	Diseases of œsophagus		1	1			٠,		a'		.;												.,					
104.	Other diseases of stomach (cancer ex-		53	**	••			••			1	3	5	6	7	3	11	4	1	3	4	•••	1	. 1	2	1	1	
105.	cepted) Diarrhœa and enteritis (under two years)		2,623	30	4 409	2	5	1	2,623	3	1	2	1	4	8	4	6	9	10	10	8	16	8	14	15	7	3	
	(Of which) Chronic diarrhea																			* "		1.0					51	
106.	Diarrhœa and enteritis (two years and over)		364			56	28	18	102	24	6	2	6	6	8	12	7	12	24	18	26	20	28					••
107.	Intestinal parasites																					30	28		19	15	2	
109.	struction		291	29	2		1	1	33	3	**	1	. 6	15	17	23	30	22	22	27	27	24	19	13	8	I	6	
110.	of liver		12		1		1		2				3	2	. 1	2					1		2					
	liver	••	••			**	**	••	••	***		* **	6		27	* **				**	**	**				**		
112.	Biliary calculi		373 82		**								2	3	4	10	59	13	39	35	10	31	4	3	1	2	4	
114.	liver		61	2	2				4	1			1	2	3	3	9	4	9	5	6	3	5	3	2	1	2	••
115.	Simple peritonitis (non-puerperal) Other diseases of di- gestive system (ex-		41	2				1	3	4	2	2	1	5	8	8	4				2		1	1	•••	•••		
118.	c e p t tuberculosis and cancer) Appendicitis and iliac abscess		7 211		••		1	2	3	18	38	20	18	18	18	18	16	12	10	11	3	3	4		**		5	
119.	VI. Diseases of Genito- urinary System.  Acute nephritis	.,	328	21	11	,	10	4	57	13	16	10	23	28	23	30	32	15	11	18	16	14	11	7	2	2	13	
120.	Bright's disease Other diseases of kid-	**	2,478	5		1	1	1	8	14	13	25	65	109	139	175	209	197	235	235	256	264	207	177	95	55	69	
122.	neys and adnexa Urinary calculus		35 6						2				3	2				4		4	3		1	2	2	**	**	
123.			23	1			1		2				2	••	2	1	1		3	2	•••	3	1	3	3.	2	2	
125. 126.	urinary abscess, etc. Diseases of the pros- tate Non-venereal diseases of male genital or-		9														**			••						15		**
	Metritis		8					**				1	1	2	2	1			. 1									
128.	Uterine hæmorrhage (not puerperal) Uterine tumor (not		5			**			**			1	**	2		2					••						1	••
130.	Other diseases of uterus		94 34						***			3	4	5	7	5	32	16	2	1	5	1			1	••	7 2	
131.	Ovarian cysts and tumors Other diseases of fe-	**	50			**						3	7	10	2	3	5	3	7	4	5		**			1	2	
133.	male genital organs Diseases of breast (not puerperal, nor can- cer)		133	**					**			8	33	28	. 21	23			2		••						12	
34.	VII. Puerperal Dis- eases.  Accidents of preg-												42															
35. 36.	Puerperal hæmorrhage Other accidents of		43									3	5	8	10	26	6	2		••	**	**					4	
37.	labor		135 263		**	**	**	••		••		4	18	28 65	25 63	23	14	3	••			**	••				3	
38.	Puerperal albuminuria and convulsions Puerperal phlegmasia		123									7	32	30	30	33	9	1						••			7	
	Other accidents of par-		2	••				•••	•••	••	**	••	••	2	••	••	••	**			•••	**		••	**			
	turition, s u d d e n death Puerperal diseases of breast		24										3	8	7	6						:.						
	VIII, Diseases of Skin and Cellular Tissue.						0.1													-								
12.	Gangrene		63	4		1			3							1			2		2	9	12	6	5	7	2	**
44-	abscess Other diseases of skin		35	10		2	**		12	2	1	2	1		3	3		3	1	r	2	3			1			
	and adnexa  IX. Diseases of Locomotory System.  Diseases of bones	,.	26	16	1		••	••	17	••		I	2		1	••	**	1	••	1	**	1	•••	1	••	1	••	••
30	(non-tuberculous)  Arthritis, other diseases of joints (except tuberculosis and rheumatism)	••	47	16	9	3		1	29	4	4	4	1	2	1	*:		1	1	••	**				••		5	••
48. 49.	Amputation Other diseases of or-										••																**	•••
	gans of locomotion  X. Malformations.  Congenital malforma-		••	**		••		***		••	••			••	••		••			12		••	••					
	tions	**	288	272	11	**	••	1	284	3	••	1	**	••	**		••	••	••	••	••	**		••	**	•••	1	••
51.	Congenital debility, icterus and sclerema		1,611 1,	608	2		ī		1,611												4.7						66	
51a. 52.	Injury during birth Other diseases pecu-	**	109	109					109	••																**	1	
53-	liar to infancy		24 3	3					24							**					**			**		**	1	••
	XII. Diseases of Old Age.												4.					**					••			•		**
	Senile debility XIII. External Causes.	**	566		••	**	••	••	••		••		**	••	**	••	**	••	1	3	15	39	98	113	138	159	8	
55-	Suicide by poison		41	••	••		**		•			2	8	5	7	2	5	3	4	1	3	1					••	
7.	Suicide by asphyxia Suicide by hanging or strangulation		10										3	5	9	8	6	10	3	6	5		1	1		••		
	Suicide by drowning.		6	**	••	••		••					1	3	1	**	1						••					
	Suicide by firearms Suicide by cutting in-	••	6	••	••		••	**		••	••		2	2	2	2	4	••	1	**	••	••	**	•	••	•	••	••
51. J	struments Suicide by precipita- tion from height		17			.,			::				3	1	4	3	**		2		1	1	**	••			**	
-										Y.	1		12		3	-				-	35			**	= 17	- 1	1.33	199

SATURDAY, NOV	ЕМВЕ	ER 30,	1907	de l				TH	E	CI	ΓY	R	EC	OF	RD.	T									1	2419
Cause of Death.	Total, Both Sexes.	All Ages.	Unde Year	I.	2.	3.	4-	Total, Under 5.	5.	10.	15.	20.	25.	30.	35-	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.	Col- Ch
62. Suicide by crushing 63. Suicide by other		٠.,																			.,					
methods	- ::	24			1	1		2	3	1	2,		. 1			3	2		11	1	4	1		5		
55. Dislocations 66. Other accidental in-												**										**				
juries		364	7	10	21	11	15	77	44	7	12	7	7	18	5	3	7	8	16	27 1	18	6	15	9	12	7 2
substances								**																		
o. Freezing	**	46	9	1		**	2	12	2		**	2	4		1	3		2	2	4	3		3	3	2	1
r. Electrical shock											**											**				
2. Accidental drowning.		34	. **	1	••	**	•••	1		2	3	2	5	7	6	4	1	1	••	2	••			••		1
<ol> <li>Inanition (starvation)</li> <li>Inhalation of noxious gas, not suicidal</li> </ol>		88		2	1		2	6	5	3	7	. 6	10	3	3	7	7	8	5	9	3	2	2	2		5
5. Other acute poisoning 6. Other external vio-	•••	47	1	3	2	1	1	8	1	1	3	9	8	5	3	3	1	4			1	**			••	
(Of which)	**	118	22			1		25	1		5	23	12	10	,	9	5	3	4	3	1	2			•	7
a. Homicide, by blows b. Homicide, by sharp instru-	2.5	9	2			1		3	•			••		1	1	2	••	1	•••	1	**	• • •	**	**	••	**
c. Homicide, by		. 8	1	:44		••		1	••	•	**	1	•		1	2	I	- **	••	1	**		**	**	••	1
gunshot d. Homicide, by	**	29	**	**	**	••	**	••	**	**	2	7	5	7	2	1	2	**	1		1	**	**	**	••	4
e. Homicide, by other methods.		10	4					4	1			1	1	1			1		1							
XIV. Ill-defined or Not Specified Causes.							1																			
Dropsy												**							**							
puerperal				4.			**						••	**	••	••		**	**	••			••	••	••	**
. Ill-defined causes		460	403	49	3	2	1	458	1		=		=			=		=	=							24
-General diseases		9,277	710	608	418	270	185	2,191	389	223	408	631	736	689	646	600	528	500	451	449	336	244	147	59	50	321
a. Tuberculous dis- eases		3,862	134	94	75	46	22	371	87	115	313	533	599	510	434	293	191	135	117	73	44	29	13	1	4	224
b. Cancer  Diseases of nervous system and organs of		2,831	2	••	I	3	1	7	1	2	7							255	242	253	173	123	72	31	24	23
sense		2,820 3,410	443	156	58	48	27	73 ² 84	91 72	63 82	41 79	107	57 116	67	76 200	189	219	189	194	241 376	228 374	327	228	97	95	77 97
Diseases of respiratory		6,018	1,686	891	291	118	79	3,065	125	63	53	109	135	144	158	178	176	200	265	312	313	268	207	148	99	171
-Diseases of digestive system -Diseases of genito-		4,336	2,285	420	60	40	23	2,828	63	52	30	51	89	105	130	146	124	130	120	119	113	84	65	53	34	76
urinary systemPuerperal diseases		3,205 763	28	11	12	13	5	69	27	29	34	139	193	190	255	304	.10	270	272	285	284	223	189	103	60	16
I.—Diseases of skin and cellular tissue		134	31					37	2	,	4	4	1	4	4	1	4	3	8	14	14	12	7	6	8	2
-Diseases of locomotory system		53	17	9	3		2	31	4	4	4	1	2	3			1	1				1		1		5
-Malformations		288	272	11	**		1	284	3	**	1	••	**	**	**	••	**	••	**	**	**	**	••	••		68
Diseases of infancy  Diseases of old age		1,747 566	1,744	2				1,747					.,					1	3	15	39	98	113	138	159	8
II.—External causes		1,078	47	30	50	33	40	200	101	24	38	74	74	84	63	70	56	59	40			**		*		23
a. Suicide b. Homicide	••	151	7					8			4 2	18	6	10	16	7	17	10	11	10	3	2	2			5
c. Accident		870	40	30	50	32	40	192	100	23	32	47	51	50	43	47	35	48	27	45	34	33	25	23	15	18
V.—Causes ill-defined		460	403	49	3	. 2	1	458	1		**		••	**	**	**		1	••	•••	**	••				24
al females		34,155	7,720	2,197	905	532	372	11,726	878	541	743	1,307	1,593	1,649	1,665	1,648	1,497	1,644	1,643	1,868	1,739	1,524	1,150	761	579	1,000
	-				Tot	al Day	.th.	Accord	ing to	Car	and	Age, b	. Ros	ough	hand	City	Vene	1006				,			-	
			Under		100	al Dea	atiis,	Total,	_		_							_			-	2.0			0-	C.1.C.1
		All Ages.	Year.	1.	2.	3.	4-	Under 5.	5.	10.	15.	20,	25.	30.	35-	40.	45.	50.	55.	60.	65.	70.	75-	80.		Col- Chi
Males		22,184	5,157	1,337	533	288	161	7,476	528	255	416	756	1,033	1,289	1,460	1,412	1,417	1,320	1,225	1,138	940	707	409	241	162	660
Females		17,647	4.307	1,186	430	225	154	6,302	402	269	383	693	809	835	869	888	810	862	838	955	866	721	518	341	286	591
Total, both sexes		39,831	9,464	2,523	963	513	315	13,778	930	524	799	1,449	1,842	2,124	2,329	2,300	2,227	2,182	2,063	2,093	1,806	1,428	927	582	448	1,251
ough of The Bronx-				par.			-	-					441		-0-		-	.00					0-			
Males		3,466	533 496	191	96 88	56	33 25	904 852	57	39	96 67	133	182	183	287 176	258 140	130	186	165	181	115	96 124	8 ₇ 8 ₉	72	34	93
Total, both sexes		6,277		378	184	107	58	1,756	139	93	163	-286	400	430	463	398	355	328	291	331	266	220	176	112	61	204
		===		==		===	==	-,,,,,,		=	_	=			=	===	===	=	=	==	=	==	==	_	=	
ough of Brooklyn—  Males		13,523	3,092	862	389	262	137	4,742	373	177	306	460	557	733	825	798	705	710	634	684	612	504	354	227	122	252
Females					359	218	158	3,805	348	195	252	427	513	530	507	541	459	548	599	638	644	563	440	281	211	251
Total, both sexes		25,024	5,453	1,571	748	480	295	8,547	721	372	558	887	1,070	1,263	1,332	1,339	1,164	1,258	1,233	1,322	1,256	1,067	794	508	333	503
		_			-				-	-	-	-	=	-	_	-	-	=	-	=	-	-	-	_	3	
ough of Queens—		2,001	507	96	44	23	31	701	53	27	50	80	87	92	101	123	135	86	90	100	91	75	49	34	27	38
Females				80	24	26	26	552	57	28	31	38	68	69	82	60	73	68	61	81	88	79	69	50	28	42
1			_						-				_	-	-			_	_	-	_	-	-	-		
Total, both sexes		3,583	903	176	68	49	57	1,253	110	55	81	118	155	161	183	183	208	154	151	181	179	154	118	84	55	80

### Deaths According to Nativity of Deceased and Parents of Deceased.

•			Nativity of	Deceased.				Nativit	y of Paren	ts of Dece	ased.	
Country.			Borough of			City of			Borough of			City of New
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	York.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	York.
United States	24,266	3,801	16,184	2,326	975	47,552	6,678	1,273	6,041	893	437	15,322
Ireland	5,049	746	2,811	320	178	9,104	8,671	1,378	4,967	531	304	15,851
Germany	3,185	781	2,337	547	96	6,946	4,545	1,177	3,497	864	152	10,235
Italy	1,680	226	824	84	36	2,850	5,087	524	2,409	228	93	8,341
Russia	1,594	151	728	34	9	2,516	3,338	287	1,551	84	34	5,294
England	715	137	586	77	52	1,56	686	127	670	88	56	1,627
Austria-Hungary	1,123	104	248	35	11	1,521	2,360	. 163	496	62	38	3,119
Scotland	236	40	179	25	10	490	290	51	214	33	17	605
British America	193	46	147	11	9	400	125	31	94	10	10	270
Switzerland	124	33	54	8	7	226	116	28	52	11	6	213
France	231	25	60	20	10	346	277	28	71	25	15	416
Bohemia	190	14	1	14	1	220	315	23		20		358
Roumania	159	12	14		1	186	378	21	41		2	342
Poland	65	14	68	25	13	185	110	28	157	85	18	398
Syria	18	3	10			31	29	3	28			60
Sweden	188	37	224	7	15	471		61	343	18	14	688
Norway	55	18	183	5	20	281		24	282	11	20	407
Denmark		7	54	8	6	100		7	65	10	8	133
Finland		9	27	3	5	79	- 53	17	43	3	3	120
Holland	36	5	31	1	5	78		5	35		4	86
Cuba	17	4	9	3		33		5	8	1		33
Other West Indies	75	18	51		2	150		20	59	7	1	225
Belgium	15	3	5			24	4	3	8			28
Spain	23		14	1		38		1	18	1		47
Greece	54	3	8			66		5	12	1		87
China	77		8	1		87	198		6			78
Australia	3	1	6			- 31		****				,,
Other foreign	97	13	52			10		16	40			3
Unknown	294	26	101	5	4	171	2		40	2	4	132
				17	22	460		340	1,084	134	118	4,563
Mixed nationalities							3,164	631	2,733	461	133	7,122
Total	39,831	6,277	25,024	3,583	1,488	76,203	39,831	6,277	25,024	3,583	1,488	76,203

## Deaths by Accident and Negligence.

								A		Borough of			City of
			Borough of	f		City of		Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	City of New York.
	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	New York.		nattan.	Diolix.	.,,,,,	Queens.	mond,	
					-		From windows	91	6	30			127
Fractions and Contusions.							On shipboard	13		22	1		36
Crushed by boats, etc	5	4.4				5	On streets and sidewalks	25	3	21		* **	49
Crushed by derricks, etc	5	3	1	2	1	12	Others	70	9	68	7	. 4	158
Crushed by diving	3		3	1		7	Not specified by Coroners	101	1	8	3		113
Crushed by elevators	43	2	5		.2	52	Street Vehicles.						
Crushed by machinery	15	-3	9	1	1	29	Run over by wagons, trucks, etc.	157	12	45	9		223
Crushed by falling buildings	9		5	1		15	Falls from wagons, trucks, etc	34	3	20	r	2	60
Crushed by falling rocks, stones, etc.	31	4	9	5		49	Run over by automobiles	27	7	20	8 -	2	64
Crushed by falling bodies	44	7	26	4	3	84 .	Run over by other vehicles	.5	1	2	1 44		8
Crushed by explosions	9	7	7 .	6		29	Railroads.						
Other causes	15	3	8	1	1	28	Electric	81	19	130	13	5	248
Not specified by Coroners	93	3	29	6	2	133	Elevated	12	2	4			18
Falls.							Steam	38	72	8	57	10	185
Down airshafts	4	2				6	Subways	17	2	**			19
Down areaways	3					3	Horse cars	2	4.4	**		**	2
Down elevator shafts	37	4	4			45	Falls from cars	35	3	4	2		44
Down stairs	71	8	53	6		138	Not specified by Coroners		*	2	**		2
From buildings	88	8	15	1	3	115	Wounds.						
From fire escapes	22		4			26	Gunshot	11	5	4	5	3	28
From roofs	34	2	5	1		42	Incised	2	***				2
From scaffolds	21	4	17	1	2	45	Lacerated	5		6	2		13

Richmond. City of New York.

Richmond. City of New York.

3,781

Queens.

Queens.

		-1	Borough o	f		City of				Borough of
4	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	City of New York.		Man- hattan.	The Bronx.	Brook- lyn.
Others	6	1	6	5		18	Phosphorus	**		1
Not specified by Coroners	. 1					1	Potash lye			
Burns and Scalds.							Ptomaines	10	1	6
From lamps	5	1	9		. 44	15	Roach powder	1		1
From stoves-oil, gas, etc	27	6	16	3	1	53	Strychnine	1		1
Playing with matches	18	2	11	3		34	Veronol	1		
Others	24	. 3	33	12	• •	72	Wood alcohol	1		3
Not specified by Coroners  Scalds.	43		7	4	2	56	Unknown poisons	8	1	
By fluids	56	11	32	9		108	Suffocation.			
By steam	2		5		2	9	Cavein of embankments	4	2	3
Not specified by Coroners			2				Food in larynx	5	4.4	2
	16	2		1	1	37	Foreign body in larynx	2	2	
Conflagrations			28	7	2	112	Overlaid by mother	5	1	2
Sunstroke	70	5					Other causes	12	1	5
Electric current	8	3	10	3		24	Not specified by Coroners	3		1
Drowning	219	42	134	59	42	496	Circumcision	7		3
Illuminating gas	125	14	75	12	1	227	Criminal abortion	19		6
Other gases, smoke, etc	17	3	5	5		30	Surgical operations	22		
Neglect and exposure	3	2	5	1	3	14	Caisson disease			
Poisons.										
Asectanilis	1			**	**	1				
Alcohol	2	••	2	1	••	5	*	RECAP	ITULATION	٧.
Ammonia	**	• •	1	**		1				
Arsenic	**		2	**		2				Borough o
Atropine	1	**	**	**	**	1		Man-	The	Brook-
Bichloride of mercury	2	**	**	••		2		hattan.	Bronx.	lyn.
A	**	**	1		• •	1				
Bromide			1				Fractures and contusions	272	32	102
Bromide Camphorated oil	1.5	••.				I	A CONTRACTOR OF THE PROPERTY O			
		•••	6	2			Falls	580	47	247
Camphorated oil		**		4			Falls	580 223	23	87
Camphorated oil	5	• •	6	2		13	Falls	580	23 98	8 ₇
Camphorated oil			6	1	**	13	Falls  Vehicles  Railroads  Wounds	580 223	23	87
Camphorated oil	5		6	1		13 1 2	Falls	580 223 185	23 98	87
Camphorated oil	5 2		6	1 	**	13 1 2	Falls  Vehicles  Railroads  Wounds	580 223 185 25	23 98 6	87 · 148 16
Camphorated oil	5  2		6	2 1 		13 1 2 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.	580 223 185 25 175	23 98 6	87 - 148 - 16 - 115
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline	2		6 1	2 1 		13 1 2 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations	580 223 185 25 175	23 98 6 23	87 - 148 - 16 - 115 - 17
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium	5  2		6     	2 1 		13 1 2 1 1	Falls Vehicles Railroads Wounds Burns and scalds. Conflagrations Sunstroke	580 223 185 25 175 16 70	23 98 6 23 2	87 148 16 115 17 28
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid	5 2		6	2 1 		13 1 2 1 1 1	Falls Vehicles Railroads Wounds Burns and scalds. Conflagrations Sunstroke Electric current	580 223 185 25 175 16 70 8	23 98 6 23 2 5	87 148 16 115 17 28
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum	5 2		6	2 1  		13 1 2 1 1 1 1	Falls Vehicles Railroads Wounds Burns and scalds. Conflagrations Sunstroke Electric current Drowning	580 223 185 25 175 16 70 8	23 98 6 23 2 5 3	87 148 16 115 17 28 10
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament	5 2		6	2 1   		13 1 2 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas	580 223 185 25 175 16 70 8 219	23 98 6 23 2 5 3 42 14	87 148 16 115 17 28 10 134
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol	5 2		6	2 1 		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.	580 223 185 25 175 16 70 8 219 125	23 98 6 23 2 5 3 42 14	87 148 16 115 17 28 10 134 75
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury	5 2		6	2 1 		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.  Neglect and exposure.	580 223 185 25 175 16 70 8 219 125	23 98 6 23 2 5 3 42 14	87 148 16 115 17 28 10 134 75 5
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine	5 2		6	2 1    		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls Vehicles Railroads Wounds Burns and scalds. Conflagrations Sunstroke Electric current Drowning Illuminating gas Other gases, smoke, etc Neglect and exposure. Poison	580 223 185 25 175 16 70 8 219 125 17 3 45	23 98 6 23 2 5 3 42 14 3 2	87 148 16 115 17 28 10 134 75 5 5
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash Cream of soda Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine Nitrous acid	5 2		6	2 1 		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls Vehicles Railroads Wounds Burns and scalds. Conflagrations Sunstroke Electric current Drowning Illuminating gas Other gases, smoke, etc. Neglect and exposure. Poison Suffocation	580 223 185 25 175 16 70 8 219 125 17 3 45 31	23 98 6 23 2 5 3 42 14 3 2	87 · 148 · 16 · 115 · 17 · 28 · 10 · 134 · 75 · 5 · 5 · 5 · 34 · 13
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine Nitrous acid Oleum gaultheris	5 2		6	2 1 		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.  Neglect and exposure  Poison  Suffocation  Circumcision  Criminal abortion	580 223 185 25 175 16 70 8 219 125 17 3 45 31	23 98 6 23 2 5 3 42 14 3 2 7 6	87 148 16 115 17 28 10 134 75 5 34 13 3
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline Cyanide of potassium. Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine Nitrous acid Oleum gaultheris Oil of wintergreen.	5 z		6	* * * * * * * * * * * * * * * * * * *		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.  Neglect and exposure.  Poison  Suffocation  Circumcision  Criminal abortion  Surgical operation	580 223 185 25 175 16 70 8 219 125 17 3 45 31 7 19	23 98 6 23 2 5 3 42 14 3 2 7 6	87 148 16 115 17 28 10 134 75 5 5 34 13 3 6
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline Cyanide of potassium Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine Nitrous acid Oleum gaultheris Opium	5  2        		6	** ** ** ** ** ** ** ** ** ** ** ** **		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 7	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.  Neglect and exposure  Poison  Suffocation  Circumcision  Criminal abortion	580 223 185 25 175 16 70 8 219 125 17 3 45 31 7 19 22	23 98 6 23 2 5 3 42 14 3 2 7 6	87 148 16 115 17 28 10 134 75 5 5 34 13 3 6
Camphorated oil Carbolic acid Caustic soda Chloral Chlorate of potash. Cream of soda. Cresoline Cyanide of potassium. Ergot Hydrochloric acid Jamaica rum Linament Lysol Mercury Morphine Nitrous acid Oleum gaultheris Oil of wintergreen.	5 z		6	* * * * * * * * * * * * * * * * * * *		13 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Falls  Vehicles  Railroads  Wounds  Burns and scalds.  Conflagrations  Sunstroke  Electric current  Drowning  Illuminating gas  Other gases, smoke, etc.  Neglect and exposure.  Poison  Suffocation  Circumcision  Criminal abortion  Surgical operation	580 223 185 25 175 16 70 8 219 125 17 3 45 31 7 19 22	23 98 6 23 2 5 3 42 14 3 2 7 6	87 148 16 115 17 28 10 134 75 5 5 34 13 3 6

. Deaths by Suicide in the Borough of Manhattan.

											Nativit	y.													
	Aus		Bohe	mia.	Engl	and.	Fra	nce.	Gern	nany.	Irelan	id.	Italy		Russ		Other Cour	Foreign tries.	n Uni	ited tes.	Unk	cnown.	Total	by Sexes.	
	_	Fa	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male. r	Fe- nale.	Male. 1	Fe- nale.	Male.	Fe- male.	Male	Fe- male.	Male	Fe- male.	Male	Fe- Male.	Male	Fe- male.	Bot Sexe
Cuts and stabs		, r			3				2	τ	2		i					ı .		8	1	2 .	, 1	9	3
Drowning					**				1	144		1					1 .			ı .	• 1	1 .		3	
Gunshot	6		1		4		3	1	22	r	r		7		4			8	1 3	5	5	8 .	. 5	9	8 1
Hanging	4	1	1	**	1		1		3	1			2		5		2	4 .		3 .		2 .	. 4	6 .	4
Leaps		1		1					3	**	2		2		2		2	1 .		8	6 .		1 1	8 1:	1
Railroads			44		**				++															1 .	
Aconite			i.,										44						•	1 .				1	
Ammonia	î								**		**													1 .	
Arsenic		1								***	1				**			. ,						1 1	
Belladonna											1													1 .	
Bichloride of mercury													1							1	1			2	
Carbolic acid	1	1							3			5			4			2	1	9	6	2 .	. 4	1 1;	3
Chloride of potassium											\ T		++										-	r .	
Chloroform																		•	1 .					. 1	
Cyanide of potassium													44							3 .				3 .	
Hydrochloric acid																				1	r .			1	
Hydrocyanic acid																				2 .				2 .	
Illuminating gas	5		1	2	1			1	26	7	. 8		2		7		1 1	2	2 2	3 1	6	1	5 8	36 3	4 1
Lysol										1											1				2
Morphine									1									1	1	2 .		:	+	4	1
																	1	1	T	1 .				2	2
Opium	**	10.0				24	1				1	1									1			2	2
Oxalic acid	**				-					200															

	4										Nati	vity.													
	Aus	tria- gary.	Bohe	mia.	Eng	land.	Fra	ince.	Ger	many.	Irel	and.	Ita	aly.	Rus	ssia.	Other I Coun	oreign tries.	Uni		Unkı	nown.	Total by	Sexes.	
	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male	Fe- male.	Male,	Fe- male	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- Male.	Male.	Fe- male.	Both Sexes
Paris green																		4.						1	1
Prussic acid	1								**										**						. 1
Strychnine								- **	1						3.4						**	••	1		1
Unknown poison		••		••		•••	••	••	1			.,,	••	•••	**		••	••		1.	••	44	. 1	1	2
Total by sexes	18	5	3	3	,		5	2	63	12	17	7	15		22	7	30	7	99	39	16	6	297	88	385
Total, both sexes	2	3	-	5	-	,		,	7	5	24		- 15	5	29		3	,	1 13	8	-	12	38	35	

Deaths by Suicide in City of New York.

							(				Nativ	ity.													
		tria- gary.	Boh	emia.	Eng	land.	Fra	nce.	Gera	nany.	Irel	and.	Ita	dy.	Rus	sia.	Other F Coun		Uni	ted tes.	Unkr	iown.	Total by	Sexes.	Total
	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- Male.	Male.	Fe- male.	Both
Cuts and stabs	1	1	1		5				11	1	3	1	2				1		13	.3	2		39	6	45
Drowning					1				2			1	1			1	1	1	3	2	1	1	9	6	15
Gunshot	7		1		7		4	1	48	2	5		18		7		10	2	75	9	16	••	198	14	212
Hanging	5	1	1		1		1	.,	20	5	**		3		6	2	8		10	2	4		59	10	69
Leaps		1		1				1	6		2	1	2		2	3	2	2	9	7		1	. 23	17	40
Railroads									1						11			**	1				2	••	2
Aconite													++	**	**				1		**		1		1
Ammonia	1														**				2.2	4.5			1		1
Arsenic		1							2	1	1			**		1	*		2	9.0			5	3	8
Belladonna					**						1			++	**				**	**			1	**	1
Bichloride of mercury										1			1			**			1	1			2	2	4
Carbolic acid	2	1							11	3	4	6		I	7		2	2	20	10	4	10	50	23	73
Chloride of potassium				**							. 1		**					**			**		i		1
Chloroform											* **							1			**	**	**	1	-1
Cyanide of ammonia				**									++					+4	1			**	1		1
Cyanide of potassium					1												**	**	5		**		6		6
Hydrochloric acid													**	**				•	1	1			r	1	2
Hydrocyanic acid										**							**		2				2		2
Illuminating gas	7	1	1	. 2	4		1	1	48	18	10	1	3	**	10	1	17	3	34	25	. 1	5	136	57	193
Lysol										1							**			1				2	2
Morphine				++					1								1	1	2		. 1		5	1	6
Muriatic acid															**		**		1				1		1
Opium									1					4.		1	1	1	3			**	5	2	7
Oxalic acid							1				1	1							1	2	**		3	3	6
Paris green	1									1					**					1		**	1	2	3
Prussic acid																			1				1		1
Strychnine									1														1		1
Unknown poison									1		**		**		••		1	**	••	1			2	1	3
Total by sexes	24	6	4	3	19		7	3	153	33	28	11	30	1	32	9	44	13	186	65	29	7	556	151	707
Total, both sexes	-	30	-	7	-	19	-	10	1	86	-	39	3	31	4	ı		57	2	51		36	7	7	

The 707 suicides occurred in the boroughs as follows: Manhattan, 385; The Bronx, 57; Brooklyn, 204; Queens, 48; Richmond, 13.

Deaths in Institutions, Year of 1906.		Reception Hospital	151
Death's in Institutions, Tear of 1966.		Roosevelt Hospital	505
BOROUGH OF MANHATTAN.		St. Francis' Hospital	121
Babies' Hospital	315	St. Luke's Hospital	348
	2,711	St. Mark's Hospital	70
Bellevue Hospital	211	St. Mary's Free Hospital for Children	49
	328	St. Vincent's Hospital	471
City Hospital	66	Skin and Cancer Hospital	17
Columbus Hospital	176	Sloane Maternity Hospital	
Flower Hospital	1,142	Sydenham Hospital	79 82
Foundling Hospital	C 700 C 700 C 700 C	Trinity Hospital	12
French Hospital	94	Willard Parker Hospital	235
General Memorial Hospital	37	Work House Hospital	46
German Hospital	263	J. Hood Wright Hospital.	200
Gouverneur Hospital	254		
Hahneman Hospital	54	Other institutions	777
Harlem Hospital	377		066
Home for the Aged (Little Sisters of the Poor)	45	Total	14,866
Home for Aged Hebrews	31	_	,
House of Relief	320	BOROUGH OF THE BRONX.	120
Imigration Hospital (Ellis Island)	59	Fordham Hospital	167
Italian Hospital	29	Home for Incurables	83
Lying-in Hospital	259	Lebanon Hospital	343
Manhattan Eve and Ear Hospital	28	Lineoln Hospital and Home	412
Manhattan Eye and Ear Hospital		Odd Fellows' Home	10
Manhattan State Hospital	28	Odd Fellows' Home	10 461
Manhattan State Hospital	28 399	Odd Fellows' Home	10 461 102
Manhattan State Hospital	28 399 136	Odd Fellows' Home	10 461 102 591
Manhattan State Hospital	28 399 136 1,120	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital	10 461 102 591 359
Manhattan State Hospital.  Maternity Hospital  Metropolitan Hospital  Montefiore Home  Mount Sinai Hospital	28 399 136 1,120 96	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital	10 461 102 591
Manhattan State Hospital	28 399 136 1,120 96 697 641	Odd Fellows' Home	10 461 102 591 359
Manhattan State Hospital	28 399 136 1,120 96 697 641 431	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital	10 461 102 591 359 62
Manhattan State Hospital	28 399 136 1,120 96 697 641 431 26	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions	10 461 102 591 359 62
Manhattan State Hospital.  Maternity Hospital Metropolitan Hospital Montefiore Home Mount Sinai Hospital. New York City Home for Aged and Infirm. New York Hospital New York Eye and Ear Hospital. New York City Schools and Hospital	28 399 136 1,120 96 697 641 431 26 80	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital	10 461 102 591 359 62 49
Manhattan State Hospital.  Maternity Hospital  Metropolitan Hospital  Montefiore Home  Mount Sinai Hospital.  New York City Home for Aged and Infirm.  New York Hospital.  New York Eye and Ear Hospital.  New York City Schools and Hospital.  New York Infant Asylum.	28 399 136 1,120 96 697 641 431 26 80	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions  Total	10 461 102 591 359 62 49
Manhattan State Hospital.  Maternity Hospital Metropolitan Hospital Montefiore Home Mount Sinai Hospital. New York City Home for Aged and Infirm. New York Hospital. New York Eye and Ear Hospital. New York City Schools and Hospital. New York Infirmary for Women and Children.	28 399 136 1,120 96 697 641 431 26 80 171	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions Total BOROUGH OF BROOKLYN.	10 461 102 591 359 62 49
Manhattan State Hospital.  Maternity Hospital Metropolitan Hospital Montefiore Home Mount Sinai Hospital. New York City Home for Aged and Infirm. New York Hospital. New York Eye and Ear Hospital. New York City Schools and Hospital. New York Infant Asylum. New York Infirmary for Women and Children Nursery and Child's Hospital.	28 399 136 1,120 96 697 641 431 26 80 171 17	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions  Total  BOROUGH OF BROOKLYN. Angel Guardian Home.	10 461 102 591 359 62 49 2,639
Manhattan State Hospital.  Maternity Hospital Metropolitan Hospital Montefiore Home Mount Sinai Hospital. New York City Home for Aged and Infirm. New York Hospital New York Eye and Ear Hospital. New York City Schools and Hospital. New York Infant Asylum. New York Infirmary for Women and Children. Nursery and Child's Hospital.	28 399 136 1,120 96 697 641 431 26 80 171 104 52	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions  Total  BOROUGH OF BROOKLYN.  Angel Guardian Home. Bradford Street Hospital	10 461 102 591 359 62 49 2,639
Manhattan State Hospital.  Maternity Hospital Metropolitan Hospital Montefiore Home Mount Sinai Hospital New York City Home for Aged and Infirm. New York Hospital. New York Eye and Ear Hospital. New York City Schools and Hospital New York Infant Asylum. New York Infirmary for Women and Children Nursery and Child's Hospital.	28 399 136 1,120 96 697 641 431 26 80 171 17	Odd Fellows' Home. Riverside Hospital St. Francis' Hospital St. Joseph's Hospital Seton Hospital Work House Hospital Other Institutions  Total  BOROUGH OF BROOKLYN. Angel Guardian Home.	10 461 102 591 359 62 49 2,639

Bethany Deaconess' Home Cumberland Street Hospital					*****	74	The state of the s		, I	Boroughs of		100	Ci
Eastern District Hospital						32 307 95		Manhattan.	The Bronx	. Brooklyn.	Queens.	Richmond.	
German Hospital						24I 48	Greenwood			3,906			3
Home for Aged (Little Sisters Home for Consumptives						70 136	Grace Church				12		
House of Good Shepherd Infants' Hospital						30	-Hillside					7	
We wish Hospital						901	Holy Cross			6,269		****	
Kings County Jail						3 7	Holy Trinity			1,710		****	
Sings County Emergency Hospital	pital					15 460	Little Neck		****		. 3	****	
ong Island College Hospital						315	Lake	****	****	****		51	
utheran Hospital						133	Linden Hill			****	2,401	****	
Memorial Hospital Methodist Episcopal Hospital	**********					170	Long Island State Hospital		****	6		****	
New York City Home for Aged Norwegian Hospital						345 146	Lutheran	****	****	****	5,764	****	
Prospect Heights Hospital					**********	27 4	Machpelah	****	****	****	197	****	
St. Catherine's Hospital St. Christopher's Hospital						318 81	Maimonides			113	197		
St. John's Hospital St. Mary's Hospital						99 287	Marble			****			
St. Mary's Maternity Hospital.						4I 511	Methodist		1	*****			
Samaritan Hospital						9	Methodist Episcopal				3		
Williamsburg Hospital Other institutions						133 237	Moravian		****			306	
Total				1		5,811	Mount Carmel				1		
					_	3,011	Mount Zion				3,387		
Flushing Hospital	BOROUGH					88	Mount Nebo			****	198		
amaica Hospital						51 16	Mount Olivet				1,905		
St. John's Hospital						235	Mount Loretto		• • • • •	****		11	
St. Joseph's Hospital						43 71	Mount Hope		****	. 111		****	
Other institutions						35	Mount St. Mary's			****	268	****	
• Total						539	National			89			
ВС	DROUGH O	F RICHN	MOND.				New Lots		****	4	****	12	
Almshouse						18	New Union Fields				229		
Sailors' Snug Harbor						83	Ocean View						
easide Hospital						141	Parsons				1		
t. Vincent's Hospital Inited States Marine Hospital						185	Pelham Bay		21				
Other institutions						9					48		
							Prospect		73.00	2772	0.00		
Total			• • • • • • • • • •			589	Sailors' Snug Harbor		****			54	
Total	- 2		•••••			589							
Almshouses	Recapi	itulation.				1,005	Sailors' Snug Harbor					54	
Almshouses	Recapi	itulation.			<del>-</del>	1,005 600 20,261	Sailors' Snug Harbor			176		54	
Almshouses	Recapi	itulation.			-	1,005	Sailors' Snug Harbor			176	••••	54	
Almshouses Homes for Aged Hospitals Institutions for children Institutions for insane	Recapi	itulation.			-	1,005 600 20,261 1,741 532 155	Sailors' Snug Harbor			176	  3 1,746		
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions	Recapi	itulation.				1,005 600 20,261 1,741 532 155 150	Sailors' Snug Harbor			176			
Almshouses Homes for Aged Hospitals Institutions for children Institutions for insane	Recapi	itulation.				1,005 600 20,261 1,741 532 155	Sailors' Snug Harbor			176	3 1,746 2	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions Total	Recapi	itulation.				1,005 600 20,261 1,741 532 155 150	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's			176	3 1,746 2	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions	Recapi	itulation.				1,005 600 20,261 1,741 532 155 150	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria			176	3 1,746 2	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions  Total	Recapi	born Infa	nts in Th	e City of		1,005 600 20,261 1,741 532 155 150 22,444	Sailors' Snug Harbor				3 1,746 2 	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions Total	Recapi	born Infa		e City of		1,005 600 20,261 1,741 532 155 150	Sailors' Snug Harbor				3 1,746 2  7	54	
Almshouses	Recapi	born Infa	nts in Th	e City of	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk.	Sailors' Snug Harbor				3 1,746 2  7	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions  Total  Disposition of the Dead, an	Recapi	born Infa	nts in Th	e City of	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Third Ward.  St. Mary's, Fourth Ward.				3 1,746 2  7	54	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions  Total  Disposition of the Dead, an  Cemetery.	Recapi	born Infa	nts in Th	e City of	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk.	Sailors' Snug Harbor				3 1,746 2 7 1,698	54 	
Almshouses Homes for Aged Hospitals Institutions for children Prisons Other institutions  Total  Disposition of the Dead, an  Cemetery.	Recapi	born Infa	ants in Th	e City of Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's Carmelite.  St. Mary's, Fourth Ward  St. Mary's, Fourth Ward  St. Michael's  St. Monica's				7  1,698	54 	
Almshouses Homes for Aged Hospitals Institutions for children Institutions for insane Prisons Other institutions  Total  Disposition of the Dead, an  Cemetery.  Caccia  Imshouse  M. E. Zion	Recapi	born Infa	nts in Th	e City of Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward  St. Michael's  St. Monica's  St. Peter's				7  1,698	54   47 138 	
Almshouses Homes for Aged	Recapi	born Infa	nts in Th	Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite  St. Mary's, Fourth Ward  St. Michael's  St. Monica's  St. Peter's  St. Raymond's		43		3 1,746 2 7 1,698	54   47 138 	
Almshouses Homes for Aged Hospitals Institutions for children Institutions for insane Prisons Total  Disposition of the Dead, an  Cemetery.  Cemetery.  Caccia  Limshouse  M. E. Zion  Aqueduct  Layside	Recapi	born Infa	onts in Th	e City of  Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward  St. Mary's, Fourth Ward  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake		    43 2,257		7  1,698	54   47 138  314	
Almshouses Homes for Aged. Hospitals Institutions for children Institutions for insane. Prisons Total  Disposition of the Dead, an  Cemetery.  Cacia Imshouse M. E. Zion queduct ayside aron Hirsch	Recapi	born Infa	nts in Th	Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York.	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount		43 2,257		7  1,698 123	54   47 138  314 	
Almshouses Homes for Aged	Recapi	born Infa	ants in Th	Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York. 204 77 12 3 492 208	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's Carmelite  St. Mary's, Fourth Ward  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan		43 2,257		 3 1,746 2  7  1,698 123  53	54   47 138  1,824 106	
Imshouses Iomes for Aged	Recapi	born Infa	ants in Th	Queens.	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York. 204 77 12 3 492 208	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's Carmelite.  St. Mary's, Third Ward.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan  Trinity	38	43 2,257		1,698 123 53	54   47 138  314  1,824 106	
Imshouses Iomes for Aged	Recapi	born Infa	nts in Th	Queens.  204  3 492 21,763	New Yor 77 12 208	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York. 204 77 12 3 492 208	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan  Trinity  Trinity Churchyard	38	43 2,257	176	1,698 123 53	54 47 138 314 1,824 106 30	
Imshouses Iomes for Aged	Recapi	born Infa	ants in Th  Boroughs of  Brooklyn.	Queens.  204  3 492 21,763	New Yor 77 12 208	1,005 600 20,261 1,741 532 155 150 22,444 rk. City of New York. 204 77 12 3 492 208 	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan  Trinity  Trinity Churchyard  Union Fields	38	43 2,257	176	 3 1,746 2  7  1,698 123  53	54   47 138  1,824 106	
Imshouses Imshouses Imshouses Imspective of Aged Imshouses Imstitutions for children Institutions for insane Imstitutions	Recapi	born Infa	ants in Th	Queens.  204 21,763	New Yor 77 12 208	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Third Ward.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan  Trinity  Trinity Churchyard  Union Fields  United Jewish Congregational.	38	43 2,257	176	1,698 123 53	54 47 138 314 1,824 106 30	
Imshouses Iomes for Aged	Recapi	born Infa  I The Bronx	nts in Th	Queens.  204 21,763 772	New Yor 77 12 208	1,005 600 20,261 1,741 532 155 150 22,444 rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060 2	Sailors' Snug Harbor.  Salem Fields  Sandy Hill  St. Andrews  St. George's  St. John's  St. James  St. Joseph's  St. Luke's  St. Mary's, Astoria  St. Mary's, Carmelite.  St. Mary's, Fourth Ward.  St. Michael's  St. Monica's  St. Peter's  St. Raymond's  Silver Lake  Silver Mount  Springfield  Staten Island  Sylvan  Trinity  Trinity Churchyard  Union Fields  United Jewish Congregational.  United States Crematory.	38	43 2,257	176	 3 1,746 2  7  1,698 123  53	54   47 138  1,824 106	
Imshouses Imshouses Imshouses Imspective of the Aged Institutions for children Institutions for insane Institutions Imshouse Imsh	Recapi	born Infa  I The Bronx	ants in Th  Boroughs of  Brooklyn.	Queens.  204 21,763 772	New Yor 77 12 208	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 208 21,763 62 772 5,060 2 1,155 1,886	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Carmelite. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory. Vaughn		43 2,257	176	1,746 2 7 1,698 123 533 942	54 47 138 314 1,824 106 30	
Imshouses Iomes for Aged Iospitals Institutions for children Institutions for insane Institutions Institution	Recapi	born Infa  I The Bronx	ants in The Boroughs of Brooklyn.	Queens.  204 21,763 772 1,289	New Yor   Richmond.   77	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 208 21,763 62 772 5,060 2 1,155 1,886 3	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Third Ward. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory Vaughn Washington	38 1	43 2,257	176	1,746 2 7 1,698 123 53 533 942	54 47 138 314 1,824 106 30	
Imshouses Iomes for Aged Iospitals Institutions for children Institutions for insane Institutions Institution	Recapi	born Infa  I The Bronx	ants in Th  Boroughs of  Brooklyn.  62  1,155  597	Queens.  204  3 492  21,763  772  1,289	New Yor	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060 2 1,155 1,886 3 4,787	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Carmelite. St. Mary's, Fourth Ward. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory Vaughn Washington		43 2,257	176	1,698 123 53 53	54  47 138  314  30	
Almshouses Homes for Aged. Hospitals Institutions for children Institutions for insane. Institutions Total  Total  Disposition of the Dead, an  Cemetery.  Cacia Imshouse Imshouse Imshouse Imshouse Imshouse Imshouse Imshouse Institutions  Queduct Institutions Imshouse Imshouse Institutions Imshouse Imshouse Institutions Imshouse Imshouse Imshouse Institutions Imshouse Institutions Imshouse Institutions Institutions Institutions Institutions Institutions Institutions Institutions Imshouse Institutions Imshouse Institutions Imshouse Institutions Inst	Recapi	born Infa  I The Bronx  5,060	62 1,155 597 843	Queens.  204  3 492  21,763  772  1,289  3,944	New Yor	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 208 21,763 62 772 5,060 2 1,155 1,886 3	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Third Ward. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory Vaughn Washington	38 1	43 2,257	176	1,698 123 53 942	54  47 138  314  30  4	
Almshouses Homes for Aged	Recapi	born Infa  I The Bronx  5,060	62 1,155 597 843	Queens.  204  3 492  21,763  772  1,289  3,944	New Yor 208	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060 2 1,155 1,886 3 4,787 94 7	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Carmelite. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory. Vaughn Washington Woodland Woodland	38	43 2,257	176	1,746  2  7  1,698  123  53  533  942	54  47 138  314  30  4	
Almshouses Homes for Aged	Manhattan.	born Infa  I The Bronx	62 1,155 597 843	204 204 21,763 21,763 21,289 3 3,944 238	New Yor	1,005 600 20,261 1,741 532 155 150 22,444 rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060 2 1,155 1,886 3 4,787 94 7 238	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Third Ward. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard United Jewish Congregational. United States Crematory. Vaughn Washington Woodland Woodlawn	38	43 2,257	176	1,698 123 53 533	54 47 138 314 1,824 106 4	
Almshouses Homes for Aged Hospitals Institutions for children Institutions for insane Prisons Other institutions  Total  Disposition of the Dead, an  Cemetery.  Acacia  Almshouse A. M. E. Zion  Aqueduct  Bayside  Baron Hirsch	Recapi	born Infa  I The Bronx  5,060	62 1,155 597 843	Queens.  204  3 492  21,763  772  1,289  3,944	New Yor 208	1,005 600 20,261 1,741 532 155 150 22,444  rk.  City of New York.  204 77 12 3 492 208 21,763 62 772 5,060 2 1,155 1,886 3 4,787 94 7	Sailors' Snug Harbor. Salem Fields Sandy Hill St. Andrews St. George's St. John's St. James St. Joseph's St. Luke's St. Mary's, Astoria St. Mary's, Carmelite. St. Mary's, Fourth Ward. St. Michael's St. Monica's St. Peter's St. Raymond's Silver Lake Silver Mount Springfield Staten Island Sylvan Trinity Trinity Churchyard Union Fields United Jewish Congregational. United States Crematory Vaughn Washington Woodland Woodlawn Woodlawn Woodrow Church West Baptist	38	43 2,257 2,217	176	1,698 123 53 533 942	54 47 138 314 1,824 106 30 4	

The following tables present statistics relating to the present City of New York, showing the growth of population since 1800 in the territory now comprised within the Population of the Former City of

BOROUGHS OF MANHAT

Ward.	Year of Formation.	From What Taken.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.
First	1791	***************************************	4,320	7,941	7,630	12,085	9,929	11,331	10,380	10,629
Second	1791	- i	5,167	8,493	7,439	8,214	9,315	8,203	7,549	6,394
Third	1791		6,449	7,426	7,495	9,201	10,801	9,599	10,884	11,581
Fourth	1791		6,935	10,226	9,856	10,736	12,240	12,705	15,439	15,770
Fifth	1791		9,148	14,744	14,523	12,421 -	15,093	17,722	18,495	19,159
Sixth	1791	***************************************	13,076	11,286	11,821	13,309	20,061	13,570	14,827	17,198
Seventh	1791		15,394	12,120	10,886	13,006	14,192	15,873	21,481	22,982
Eighth	1803	Seventh Ward		9,128	10,702	13,766	24,285	20,729	28,570	29,073
Ninth	1803	Seventh Ward		4,719	4,343	11,162	10,956	17,333	20,618	24,795
Tenth	1808	Seventh Ward		10,290	10,824	17,806	23,932	16,438	20,926	29,026
Eleventh	1825	Ninth and Tenth Wards					7,344	14,915	26,845	17,053
Twelfth	1825	Ninth and Tenth Wards					7,938	11,808	24,437	11,652
Thirteenth	1827	Tenth Ward						12,598	17,130	18,517
Fourteenth	1827	Sixth and Eighth Wards						14,288	17,306	20,235
Fifteenth	1832	Ninth Ward						******	13,202	17,755
Sixteenth	1836	Twelfth Ward								22,723
Seventeenth	1837	Eleventh Ward								18,619
Eighteenth	1846	Sixteenth Ward								
Nineteenth	1850	Twelfth Ward							******	
Twentieth	1851	Sixteenth Ward								
Twenty-first	1853	Eighteenth Ward								
Twenty-second	1853	Nineteenth Ward							******	
Twenty-third		Westchester County				- (11/11)	1111111			
Twenty-fourth		Westchester County	********	******	******	******	, ,,,,,,			
Total	1000000000000000		60,489	96,373	95,519	123,706	166,086	197,112	268,089	312,710

Note.—In this and the four following tables, the columns headed by decade years give the results of the United States census, and the others, excepting when otherwise stated, the results of The figures, for years prior to 1870, for this and the following tables, are taken from the official report of the New York State census of 1865. The totals at the foot of the columns for totals, that for 1840 being 313,161; for 1850, 515,557, and for 1860, 813,668.

The city was originally divided into seven wards in 1686, by Governor Dongan's charter. They were not numbered at that time, but were called the West, South, Dock, East, North and The New York State census of New York City (Boroughs of Manhatttan and The Bronx) was not taken by wards, but by assembly districts, so that only the total is available for this table.

N. B.—The Twenty-third and Twenty-fourth Wards constitute the present Borough of The Bronx. They were formed from a part of Westchester County, and owing to the division of represented above, which afterward became a part of New York, was separated from Westchester County as a whole, and formed into the towns of West Farms (1846) and Morrisania, formed from A. On June 6, 1895, a portion of Westchester County, comprising a part of the present Twenty-fourth Ward, was annexed to The City of New York; the population of this annexed

Deaths of Persons 100 Years of Age and Over.

			Age.						Borough	of		City
Date of Death.	Name.	Years.	Months.	Days.	Nativity.	Cause of Death.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	
Mar. 7, 1906	Joseph O'Donneli	102			Ireland	Bright's disease	1					
Mar. 9, 1906	Elizabeth Jackson	100			United States	Heart disease	1		44	**		
Mar. 16, 1906	Johanna Smiddy	102			Ireland	Old age	44		1			
May 31, 1906	Rebecca Mochalei	101			Hungary	Old age	1					
une 12, 1906	Rose Lafeinine	103		**	Italy	Endocarditis	1		-4.4."			
uly 4, 1906	Mary Fay	105	44		England	Endocarditis	1					
uly 28, 1906	Catherine Ross	100			Ireland	Senility	-1					
Aug. 13, 1906	Louis Perlstein	101		***	Russia	Senility	1					
ept. 1, 1906	Donato Migliano	101			Italy	Disease of prostate	1					
uly 19, 1906	Ellen Green	101			United States	Old age				1		
Oct. 4, 1906	Mary Murphy	100	**		Ireland	Old age			1			
Oct. 16, 1906	Fanny Deuefski	104			Russia	Gangrene	1					
Dec. 9, 1906	Anna Teski	101	**		Germany	Gangrene		1	1441			
Dec. 25, 1906	Izakel Freedman	101	**		Russia	Pulmonary oedema	1					
Dec. 28, 1906	Leibe Solomson	100		**	Germany	Old age	1					
T	otal										-	-

### OFFICE OF THE SECRETARY OF THE DEPARTMENT OF HEALTH.

Quarter ending.....

The following official reports, communications and applications, summarized and classified as to the subject matter, were received in the office of the Assistant Chief Clerk and submitted to the Board, through the Secretary, for consideration and final

Special reports and communications submitted to the Board of Health for action
Premises declared a public nuisance
Premises ordered vacated
Lodging-house permits granted
Cow permits granted
Mercantile permits granted
Miscellaneous permits granted
Permits denied
Permits revoked
Board orders extended or modified
Extension or modification of Board orders denied.
Board orders rescinded
Delayed and imperfect certificates of birth, marriages and deaths approved and ordered filed
Corrected certificates of births, marriages and deaths approved afiled
Certificates of registration issued to master plumbers.

## Summaries for Years 1790 to 1906 Inclusive.

The following tables have been compiled from the records of the Health Departments of New York and Brooklyn before consolidation into the present City of New York. The New York tables, therefore, present the statistics of the present boroughs of Manhattan and The Bronx, and the Brooklyn tables those of the present Borough of Brooklyn. It has been found impossible to prepare similar tables for the boroughs of Queens and Richmond:

FORMER NEW YORK (BOROUGHS OF MANHATTAN AND THE BRONK).

Estimated Population, Deaths, Births and Marriages, from 1790 to 1906 Inclusive.

Popula- tion.	Deaths.	*Births.	*Mar- riages.
32,962	******		
35,009			
37,182		*******	*****
39,491	.,		
41,943			******
44,548			
	32,962 35,009 37,182 39,491 41,943	32,962 35,009 37,182 39,491	tíon. Deaths. *Births.  32,962

limits of that city, so far as the same can be ascertained, together with the development and successive segregation of the smaller civil divisions thereof: New York, by Census, Since 1800.

TAN AND THE BRONX.

1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	Police Census, 1890.	*New York State Census, 1892.	Police Census, 1895.	United States Census, 1900.	*New Yor State Cer sus, 1905
12,230	19,754	13,486	18,148	9,852	14,463	14,298	17,939	11,122	12,075		12,508	9,516	
6,962	6,665	3,249	2,506	1,194	1,312	1,012	1,608	929	1,510		1,038	1,488	
11,900	10,355	7,909	3,757	3,367	3,715	2,874	3,582	3,765	3,418		4,014	1,797	
21,000	23,250	22,895	21,994	17,352	23,748	20,828	20,996	17,809	19,337		18,405	19,554	
20,362	22,686	21,617	22,337	18,205	17,150	15,951	15,845	12,385	12,949		10,603	8,298	
19,343	24,698	25,562	26,696	19,754	21,153	19,861	20,196	23,119	23,058	*****	22,897	20,004	
25,556	32,690	34,422	39,982	36,962	44,818	45,636	50,066	57,366	62,139		74,227	89,237	
30,900	34,612	34,052	39,406	30,098	34,913	32,465	35,879	31,220	41,890	·	31,374	29,059	
30,907	40,657	39,982	44,385	38,504	47,609	49,403	54,596	54,425	60,243	,	60,987	59,650	
20,993	23,316	26,378	29,004	31,537	41,431	41,757	47,554	57,596	64,076		70,168	71,879	
27,259	43,758	52,979	59,571	58,953	64,230	63,855	68,778	75,426	83,337		86,722	99,144	*****
13,378	10,451	17,656	30,651	28,259	47,497	60,510	81,800	245,046	275,587		364,412	476,602	
22,411	28,246	26,597	32,917	26,388	33,364	34,013	37,797	45,884	51,649	,	58,802	64,117	
21,103	25,196	24,754	28,080	23,382	26,436	26,453	30,171	28,094	30,752	******	31,904	34,035	
19,422	22,564	24,046	27,587	25,572	27,587	25,529	31,882	25,399	32,707		26,216	24,066	
40,350	52,882	39,823	45,176	41,972	48,359	48,235	52,188	49,134	61,419	*	57,430	52,808	
27,147	43,766	59,548	72,953	79,563	95,365	101,075	104,837	103,158	107,737		114,727	130,796	
	31,546	39,415	57,462	47,613	59,593	61,195	66,611	63,270	70,299		67,469	61,325	
	18,465	17,866	32,795	39,945	86,090	118,727	158,191	234,846	257,766		267,076	257,448	
		47,055	67,519	61,884	75,407	79,764	86,015	84,327	93,844	*	94,969	89,798	
		27,914	49,017	38,669	56,703	58,831	66,536	63,019	78,689		72,144	60,211	
	******	22,605	61,725	47,361	71,349	83,420	111,606	153,877	184,979		194,893	189,261	
				2000	-0 -0-	24,320	28,338	53,948	60,445		81,567	132,413	
*****	4,436	12,436	16,343	19,024	28,981	11,874	13,288	20,137	20,810		26,508	A 68,094	
371,223	519,983	642,246	830,012	745,410	971,273	1,041,886	1,206,299	1,515,301	1,710,715	1,801,739	1,851,060	2,050,600	2,384,326

the New York State census.
1840, 1850 and 1860 are the true totals, as given in the reports of the United States census for those years. The actual figures of the columns, however, when summed up, do not give the same Montgomerie Wards, the rest of Manhattan Island forming the Out Ward.

townships and villages, correct figures cannot be given previous to the census of 1875, the population, as given in the table for previous years, being the minimum, but not the true total. The portion West Farms (1855).
district June 1, 1900, according to the United States census, was 25,085.

Year.	Popula- tion.	Deaths.	*Births.	*Mar- riages.	Year.	Popula- tion.	Deaths.	*Births.	*Mar- riages.
1796	47,314				1834	255,230	8,937		
1797	50,252			*****	1835	270,089	7,096		
1798	53,372	******	******		1836	278,275	8,068		
1799	56,686				1837	286,719	8,626		
1800	60,206			*****	1838	295,400	7,911		
801	63,081				1839	304,353	7,910		
802	66,094				1840	313,578	8,469		
(803	69,250				1841	324,342	9,093	******	*****
804	72,557	2,084			1842	335,474	9,154		******
805	76,022	2,297			1843	346,991	8,659		
866	79,653	2,174	*****	*****	1844	358,902	8,890		
807	83,456	2,236			1845	371,223	10,122		
808	87,442	1,950			1846	396,686	11,411		
809	91,618	2,038			1847†	423,896	14,844	317	185
810	95,993	2,073			1848	452,972	14,892	170	199
811	95,957	2,431		******	1849	484,043	22,605		
812	95,920	2,503			1850	517,246	15,826		
813	95,884	2,335			1851	538,490	20,738		
814	95,848	1,884			1852	560,607	20,196		
815	99,952	2,511	,		1853‡	583,632	21,979	10,157	3,203
816	104,232	3,000			1854	607,603	28,473	17,979	5,595
817	108,695	2,409			1855	632,559	24,448	14,145	4,199
818	-113,350	3,106			1856	664,980	21,748	16,199	3,633
819	118,204	3,178			1857	699,062	22,811	18,427	3,710
820	123,266	3,522			1858	734,892	23,269	13,340	3,942
821	130,840	3,422			1859	772,558	22,745	9,035	3,100
822	138,879	3,212			1860	812,154	24,760	12,454	4,241
823	147,413	3,551			1861	794,905	24,525	10,004	2,993
824	156,471	4,224			1862	778,023	23,150	7,612	2,896
825	166,086	4,920			1863	761,500	26,617	6,426	3,272
826	172,978	4,961			1864	745.327	25,792	5,877	2,675
827	180,157	5,139			1865	729,498	25,767	5,332	2,733
828	187,634	4,843			1866	767,979	26,815	10,006	5,792
329	195,421	4,734			1867	808,489	23,159	12,535	7,144
	203,532	5,522			1868	851,137	24,889	12,590	6,926
830			******	******					8,695
831	215,381	6,347	******	******	1869	896,034	25,167	13,947	
833	227,920	5,689		******	1871	943,300	26,976	20,821	7,985 8,646

Popula- tion.	Deaths.	*Births.	*Mar- riages.	Year.	Population.	Authority.
981,671	29,084	22,683	8,871	1810	96,373	United States Census, August 1.
968,710	32,647	22,068	9,008	1814	95,519	New York State Census, June 1.
1,030,607	28,727	25,747	8,397	1820	123,706	United States Census, August 1.
1,044,396	30,709	23,813	7,565	1825	166,086	New York State Census, July 1. (?)
1,075,532	29,152	23,744	7,099	1830	202,589	United States Census, June 1.
1,107,597	26,203	25,569	7,129	1835	270,089	New York State Census, July 1. (?)
1,140,617	27,008	25,729	7,629	1840	312,710	United States Census, June 1.
1,174,621	28,342	25,573	8,446	1845	371,223	New York State Census, July 1.
1,209,196	31,937	27,536	9,002	1850	515,547	United States Census, June 1.
1,244,511	38,624	26,130	10,077	1855	629,904	New York State Census, June 1.
1,280,857	37,924	27,321	11,085	1860	813,669	United States Census, June 1.
1,318,264	34,011	28,972	11,556	1865	726,386	New York State Census, June 1.
1.356.764	35,034	30,527	11,805	1870	942,292	United States Census, June 1.
		30,030	11,716	1875	*1,041,886	New York State Census, June 1.
			12,216	1880	1,206,299	United States Census, June 1.
				1890	1,513,501	United States Census, June 1.
		7.11		1900	†2,050,600	United States Census, June 1,
				1905	2,384,326	New York State Census, June 1
- 2	200 (270)					
				Note—A city census, taken by o	rder of the Co	ommon Council in 1805 (date uncertain), gave th
				population variously at 93,634 and 1	00,619.	
				and Twenty-fourth Wards, was anne	exed to The C	ity of New York; the population of this annexe
				†On June 6, 1895, a portion of	Westchester (	County, comprising a part of the present Twenty
				fourth Ward, was annexed to The (	City of New Y	Tork, the population of this annexed district Junus 25,085.
		271212	200			
				Population of	Former Ne	ew York City by Wards.
						1890.
				. 1860.	1865. 1870.	
2,055,714	43,227	54,010	22,927			Census. Census.
	981,671 968,710 1,030,607 1,044,396 1,075,532 1,107,597 1,140,617 1,174,621 1,209,196 1,244,511 1,280,857	tion.         Deaths.           981,671         29,084           968,710         32,647           1,030,607         28,727           1,044,396         30,709           1,075,532         29,152           1,107,597         26,203           1,140,617         27,008           1,174,621         28,342           1,209,196         31,937           1,244,511         38,624           1,318,264         34,011           1,356,764         35,034           1,396,388         35,682           1,437,170         37,351           1,479,143         38,933           1,522,341         40,175           1,566,801         39,679           1,612,559         40,103           1,659,654         43,659           1,708,124         44,329           1,758,010         44,486           1,809,353         41,175           1,873,201         43,420           1,990,553         38,877           1,976,572         40,438           2,014,330         39,911	tion.         Deaths.         *Births.           981,671         29,084         22,683           968,710         32,647         22,068           1,030,607         28,727         25,747           1,044,396         30,709         23,813           1,075,532         29,152         23,744           1,107,597         26,203         25,569           1,140,617         27,008         25,729           1,174,621         28,342         25,573           1,209,196         31,937         27,536           1,244,511         38,624         26,130           1,280,857         37,924         27,321           1,318,264         34,011         28,972           1,356,764         35,034         30,527           1,396,388         35,682         30,030           1,437,170         37,351         31,319           1,479,143         38,933         34,023           1,522,341         40,175         36,136           1,566,801         39,679         37,527           1,612,559         40,103         39,250           1,659,654         43,659         46,904           1,708,124         44,329         49,	tion.         Deaths.         *Births.         riages.           981,671         29,084         22,683         8,871           968,710         32,647         22,068         9,008           1,030,607         28,727         25,747         8,397           1,044,396         30,709         23,813         7,565           1,075,532         29,152         23,744         7,099           1,107,597         26,203         25,569         7,129           1,140,617         27,008         25,729         7,629           1,174,621         28,342         25,573         8,446           1,209,196         31,937         27,536         9,002           1,244,511         38,624         26,130         10,077           1,280,857         37,924         27,321         11,085           1,318,264         34,011         28,972         11,556           1,356,764         35,034         30,527         11,805           1,396,388         35,682         30,030         11,716           1,479,143         38,933         34,023         13,740           1,522,341         40,175         36,136         14,533           1,566,801         39,	981,671 29,084 22,683 8,871 1810 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 1820 18	Second   S

23,962

25,993

27,265

27,965

30,228

34,369

54,013

57,511

62,131 65,229

66,862

70,311

43,304

41,704

41,776

48,743

45,199

46,108

*Incomplete.

†First year of registration of births and marriages. ‡Births and marriages from July 1 to December 2.

1906...... 2,484,432

Population of Former City of New York, from 1628 to 1900, with Dates and Numbers of Censuses.

Year.	Population.	Authority.
1628	270	City Inspector's Report, 1861.
1656	1,000	City Inspector's Report, 1861.
1664	1,500	City Inspector's Report, 1861.
1697	4,302	Census (Noah Webster in "American Magazine," New York, March, 1788).
1703	4,375	City Inspector's Report, 1861.
1712	5,841	City Inspector's Report, 1861.
1723	7,248	City Inspector's Report, 1861.
1731	8,622	City Inspector's Report, 1861.
1737	10,664	City Inspector's Report, 1861.
1746	11,717	City Inspector's Report, 1861.
1749	13,294	City Inspector's Report, 1861.
1756	13,046	Noah Webster, loc. cit.
1771	21,862	Noah Webster, loc. cit.
1786	23,614	Noah Webster, loc. cit.
1790	33,131	United States Census, August 1.
1800	60,515	United States Census, August 1.

						1	1890.	
· i	1860.	1865.	1870.	1875.	1880.	*U. S. Census.	†Police Census.	1900.
First	18,148	9,852	14,463	14,298	17,939	11,105	12,075	9,516
Second	2,506	1,194	1,312	1,012	1,608	922	1,510	1,488
Third	3,757	3,367	3.715	2,874	3,582	3,757	3,418	1,797
Fourth	21,994	17,352	23,748	20,828	20,996	17,764	19,337	19,554
Fifth	22,337	18,205	17,150	15,951	15,845	12,351	12,949	8,298
Sixth	26,696	19,754	21,153	19,861	20,196	22,993	23,058	20,004
Seventh	39,982	36,962	44,818	45,636	50,066	57,231	62,139	89,237
Eighth	39,406	30,098	34,913	32,465	35,879	31,169	41,890	29,059
Ninth	44,385	38,504	47,609	49,403	54,596	54,654	60,243	59,650
Tenth	29,004	31,537	41,431	41,757	47,554	57,514	64,076	71,879
Eleventh	59,571	58,953	64,230	63,855	68,778	75,708	83,337	99,144
Twelfth	30,651	28,259	47,497	60,510	81,800	244,793	275,587	476,602
Thirteenth	32,917	26,388	33,364	34,013	37,797	45,882	51,649	64,117
Fourteenth	28,080	23,382	26,436	26,453	30,171	28,038	30,752	34,035
Fifteenth	27,587	25,572	27,587	25,529	31,882	25,185	32,707	24,066
Sixteenth	45,176	41,972	48,359	48,235	52,188	49,250	61,419	52,808
Seventeenth	72,954	79,563	95,365	101,075	104,837	102,668	107,737	130,796
Eighteenth	57,462	47,613	59,593	61,195	66,611	63,100	70,299	61,32
Nineteenth	32,795	39,945	86,090	118,727	158,191	232,978	257,766	257,448
Twentieth	67,519	61,884	75,407	79,764	86,015	84,218	93,844	89,798
Twenty-first	49,017	38,669	56,703	58,831	66,536	62,295	78,689	60,21
Twenty-second	61,725	47,361	71,349	83,420	111,606	156,526	184,979	189,261
Twenty-third				24,320	28,338	53,621	60,445	132,413
‡Twenty-fourth			·····	11,874	13,288	19,779	20,810	A 68,09
Total	813,669	726,386	942,292	1,041,886	1,206,299	1,513,501	1,710,715	2,050,600

* June 1, 1890. † October, 1890.

† Twenty-third and Twenty-fourth Wards annexed January 1, 1874.

A. On June 6, 1895, a portion of Westchester County, comprising a part of the present Twenty-fourth Ward, was annexed to The City of New York; the population of this annexed district, June 1, 1900, according to the United States Census, was 25,085.

Former New York. BOROUGHS OF MANHATTAN AND THE BRONX. Annual Number of Deaths from Prominent Causes for Thirty-nine Years.

	Year.	rebro-spinal Meningitis.	Diphtheria.	dno.	Typhoid Fever.	yphus Fever.	easles.	arlet Fever.	c Smallpox.	slarial Fever.	Whooping Cough.	Diarrhœal Diseases.	Diarrheal Diseases of Children Under Five Years of Age.	incer.	ilmonary Tuberculosis.	Other Tuberculous Diseases.	Heart Discases.	Diseases of Nervous System.	ronchitis.	neumonia.	right's Disease.	uerperal Fever.	ther Puerperal Diseases.	Sunstroke.	ccidents.	Homicide.	Suicide.
				483	378	137	526		203	132			2,884	-1.77		846					557	108	116	26	797	37	10
20 20 20 20 20 20 20 20 20 20 20 20 20 2	1870	32	308	421	422	96	298	975	293	213	201	4,483	3,917	355	4,030	926	699	3,037	855	1,836	787	150	128	238	. 834	45	10
1869	1871	48	238	466	251	65	409	791	805	279	465	3,869	3,353	335	4,186	886	813	2,656	964	1,834	947	193	188	21 0	11,071	65	11
1869		782		675	386	86	463	990	929	326	565	5,538	4,915	392	4,274	999	894	3,159	1,040	2,150	949	284	192	320	1,108	69	14
1869	1873	290	1,151	732	313	39	306	1,045	117	263	268	4,475	3,903	425	4,134	905	860	2,777	1,068	2,328	876	258	169	34	968	73	11

Year.	Cerebro-spinal Meningitis.	Diphtheria.	Croup.	b Typhoid Fever.	Typhus Fever.	Measles.	Scarlet Fever.	c Smallpox.	Malarial Fever.	Whooping Cough.	g Diarrheal Diseases.	g Diarrhogal Diseases of Children Under Five Years of Age.	Cancer.	Pulmonary Tuberculosis.	Other Tuberculous Diseases.	Heart Discases.	e Diseases of Nervous System.	Bronchitis.	Pneumonia.	Bright's Disease.	Puerperal Fever.	Other Puerperal Diseases.	Sunstroke.	Accidents.	Homicide.	Suicide.
1874	158	1,665	594	305	14	319	879	484	265	489	3,900	3,468	416	4,034	817	883	2,432	1,065	2,398	828	232	161	19	1,008	59	180
1875	0.0	2,329	758	376	28	167	514	1,280	246	407	4,047	3,575	424	4,172	773	985	2,417	1,111	2,802	909	222	148	19	967	62	155
1876	127	1,750	527	325	20	362	891	315	195	406	4,077	3,632		4,194	776	992	2,457	1,214	2,542	958	190	152	206	902	55	150
1877	116	951	472	343	17	155	983	14	250	440	3,893	3,397	495	4,044	647	880	2,357	1,033	2,148	923	185	113	21	820	57	148
1878	97	1,007	499	321	4	272	1,099	2	285	382	3,213	2,785	570	4,466	721	1,068	2,358	1,184	2,288	919	172	128	52	809	58	142
1879	108	671	522	268	4	244	1,477	25	300	537	3,271	3,826	572	4,343	728	1,164	2,445	1,263	2,554	1,027	216	143	41	837	48	117
1880	170	1,390	910	372	3	479	618	31	336	277	4,405	3,815	659	4,706	736	1,153	2,672	1,375	2,822	1,029	224	183	116	1,007	58	152
1881	461	2,249	1,038	594	160	429	1,964	451	457	286	4,821	4,159	706	5,312	811	1,289	3,140	1,511	3,261	1,187	244	182	134	1,059	65	166
1882	238	1,525	729	516	65	913	2,066	259	386	658	4,654	3,959	732	5,247	805	1,477	2,865	1,583	3,472	1,241	236	171	103	1,099	76	199
1883	223	1,009	644	625	15	716	744	12	371	327	3,905	3,297	678	5,290	653	1,693	2,727	1,435	3,409	1,195	254	162	83	1,100	62	161
1884	210	1,090	748	476	27	762	608		308	490	4,356	3,722	731	5,235	804	1,662	2,911	1,485	3,159	1,163	241	197	107	1,055	55	229
1885	202	1,325	855	405	15	736	559	26	297	495	4,146	3,482	754	5,196	749	1,800	3,095	1,605	3,650	1,188	213	181	146	1,078	59	207
1886	223	1,727	968	433	14	668	371	31	286	575	4,264	3,595	779	5,477	872	1,894	3,081	1,701	3,656	1,210	186	185	42	1,176	63	223
1887	203	2,167	889	421		767	589	99	290	188	4,620	3,947	832	5,260	747	2,018	3,373	1,838	3,707	1,128	198	157	216	1,288	70	235
1888	173	1,914	639	364	4	591	1,361	81	270	573	4,367	3,648	870	5,260	813	1,880	3,529	1,892	4,288	1,147	246	196	96	1,085	57	247
1889	145	1,686	605	397		470	1,242	1	228	647	4,500	3,889	848	5,179	862	1,970	3,491	1,814	4,075	1,763	226	167	32	1,148	72	244
1890	136	1,262	521	352		730	408	2	176	487	4,304	3,779	954	5,492	917	1,978	3,210	1,987	4,989	2,024	208	173	62	1,449	61	239
1891	189	1,361	609	384	1	663	1,220	2	185	352	4,629	4,044	902	5,160	949	2,285	3,341	1,836	5,818	2,116	249	171	95	1,597	56	300
1892	230	1,436	670	400	45	864	977	81	161	371	4,824	4,177	996	5,033	1,028	2,330	3,655	1,754	5,841	1,991	277	140	320	1,900	38	241
1893	489	1,970	588	• 381	200	393	551	102	133	542	4,487	3,890		5,124					6,487		237	147	43	1,607	47	314
1894	213	2,359	511	326	*	584	541	154	126	272	4,266	3,757	1,022	4,658	1,062	2,170	3,466	1,329	4,725	1,879	193	165	115	1,728	61	331
1895	204	1,634	342	322		793	468	.10	90	496	4,621	4,061	1,030	5,205	1,078	2,297	3,429	1,636	5,751	2,019	218	191	85	2,045	76	376
1896	178	1,555	208	297	**	714	402	1	112	435	4,282	3,776	1,141	4,994	932	2,396	3,358	1,292	5,383	2,195	198	218	765	2,641	71	384
1897	232	1,376	214	299		391	500	24	118	308	3,956	3,559	1,217	4,843	948	2,346	3,345	1,089	4,621	2,059	169	234	39	1,782	65	436
1898	258	788	135	376	1	446	523	1	126	442	4,321	3,847	1,260	4,957	944	2,379	3,155	1,127	5,301	2,426	157	219	388	1,860	93	463
1899	287	940	145	294		379	332	18	80	350	3,292	2,935	1,321	5,238	971	2,203	3,190	1,132	5,418	2,739	138	247	95	1,808	97	433
1900	201	1,121	155	372		470	315	12	104	318	3,809	3,340	1,473	5,278	910	2,276	3,091	1,093	6,747	2,924	169	259	205	2,198	92	500
1901	201	d1,227		412	**	272	635	399	93	159	3,695	3,296	1,575	5,233	816	3,088	3,404	934	5,792	2,951	155	246	898	2,579	82	470
1902	190	1,142		399		462	635	218	67	385	3,356	2,985	1,536	4,893	851	3,133	3,399	1,020	5,841	2,814	162	247	25	1,927	89	477
1903	208	1,232		350		321	465	3	39	187	3,086	2,761	1,683	5,263	839	3,064	3,241	859	6,308	2,951	141	234	76	2,032	78	521
1904	1,083	1,272		309		556	534	1	38	120	3,759	3,390	1,740	5,511	783	3,188	4,442	1,044	8,029	3,146	169	278	22	3,033	119	567
1905		860		310	***	314	271	1	19	239	3,822	3,349	1,834	5,678	670	3,072	4,591	864	6,139	3,175	189	396	134	2,283	103	422
1906	600	983		369		662	212		27	202	3,652	3,354	1,856	5,900	796	3,506	3,612	720	6,682	3,231	157	301	75	2,280	158	442

a Exclusive of 53 killed in riot July 12. b Including typho-malarial fever.
c The vaccinating corps was organized as a separate branch of the Department on September 29, 1874, in accordance with chapter 635, Laws of 1874, passed June 15.
d Including croup since 1901.
e Number given in annual report for 1873, 2,702; discrepancy caused by transfer of deaths of simple cerebro-spinal meningitis from zymotic to nervous causes.
g The figures on diarrhocal diseases have been revised so as to agree with the Bertillon classification of diseases, with the addition of dysentery.

Deaths from All Causes in Former New York City, by Age and Sex, Since 1865.

Year.	т	otal.		der 1	and ]	Year Under ears.	and	Years Under Years.		Under	and	Years Under Years.	and	Years Under Years.	and	Years Under Years.	and	Years Under Years.		Years Over.
3.22	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M,	F.	M.	F.	M.	F.	M.	F.
1866	14,287	12,528	4,260	3,576	1,434	1,254	1,154	993	6,848	5,823	766	679	936	1,044	2,916	2,544	1,947	1,418	874	1,020
1867	12,281	10.878	4.099	3,298	1,446	1,382	1,056	971	6,601	5,651	604	491	722	771	2,169	2,046	1,530	1,108	655	811
868	13,300	11,589	4,394	3,763	1,480	1,408	1,035	987	6,909	6,158	651	538	767	799	2,532	2,045	1,665	1,140	776	909
869	13,369	11,798	4,002	3,403	1,504	1,402	1,345	1,203	6,851	6,008	728	567	704	798	2,496	2,131	1,822	1,291	768	1,003
870	14,475	12,700	4,534	3,849	1,429	1,274	1,156	1,091	7,119	6,214	661	525	839	888	2,871	2,506	2,067	1,493	918	1,074
871	14.452	12,574	4,287	3,707	1,459	1,248	1,148	1,222	6,894	6,077	682	588	924	893	2,990	2,516	2,048	1,458	914	992
872	17,327	15,320	5,260	4,531	1,754	1,588	1,620	1,435	6,834	7,554	980	916	1,109	1,058	3,384	2,893	2,260	1,688	960	1,211
873	15,313	13.771	4,649	4,029	1,444	1,289	1,439	1,332	7,532	6,650	922	819	869	970	2,928	2,565	2,093	1,580	969	1,187
874	15,060	13,667	4,445	3,834	1,479	1,339	1,508	1,351	7,432	6,524	880	903	822	845	2,781	2,512	2,172	1,603	973	1,280
875	15,979	14,730	4,569	3,971	1,628	1,508	1,596	1,576	7,793	7,055	916	987	916	1,010	3,025	2,624	2,280	1,660	1,049	1,394
876	15,432	13,720	4,506	3,664	1,659	1,416	1,544	1,421.	7,709	6,501	830	762	825	927	2,869	2,433	2,133	1,712	1,066	1,385
877	13,624	12,579	3,986	3,433	1,301	1,194	1,232	1,161	6,519	5,788	721	619	763	893	2,496	2,273	2,082	1,656	1,043	1,350
878	13,997	13,011	3,828	3,272	1,387	1,229	1,378	1,316	6,593	5,817	716	708	743	890	2,600	2,402	2,274	1,800	1,071	1,394
879	14,807	13,535	4,145	3,425	1,319	1,199	1,415	1,274	6,879	5,898	789	701	794	944	2,807	2,591	2,339	1,891	1,199	1,510
880	16,831	15,106	4,810	3,915	1,581	1,420	1,521	1,403	7,912	6,738	815	788	941	969	3,213	2,880	2,618	2,122	1,332	1,609
881	20,671	17,953	5,358	4,333	1,915	1,769	2,235	2,127	9,508	8,229	1,327	1,310	1,212	1,171	3,981	3,205	3,114	2,290	1,529	1,748
882	20,096	17,828	5,378	4,489	1,864	1,722	2,075	1,992	9,317	8,203	1,089	1,051	1,145	1,169	3,978	3,072	3,066	2,477	1,501	1,856
883	18,174	15,837	4,700	3,968	1,459	1,201	1,305	1,223	7,464	6,392	871	833	1,186	1,218	3,919	3,168	3,202	2,405	1,532	1,821
884	18,401	16,633	5,206	4,430	1,578	1,411	1,366	1.281	8,150	7,122	786	782	1,137	1,126	3,652	3,218	3,154	2,526	1,522	1,859
885	18,916	16,766	5,035	4,268	1,584	1,420	1,540	1,420	8,159	7,108	832	796	1,078	1,167	3,932	3,243	3,320	2,649	1,595	1,803
886	20,269	17,082	5,529	4,301	1,712	1,476	1,607	1,496	8,848	7,273	853	791	1,172	1,112	4,269	3,195	3,520	2,660	1,607	2,051
887	20,997	17,936	5,578	4,505	1,686	1,552	1,767	1,678	9,031	7,735	942	922	1,277	1,116	4,462	3,343	3,542	2,828	1,743	1,992
888	21,558	18,617	5,648	4,763	1,750	1,573	1,879	1,745	9,277	8,081	1,003	973	1,284	1,256	4,590	3,394	3,644	2,857	1,760	2,056
889	21,289	18,390	5.730	4,797	1,716	1,594	1,719	1,596	9,165	7,987	935	882	1,200	1,273	4,555	3,371	3,692	2,879	1,742	1,998
890	21,435	18,668	5,598	4,690	1,647	1,605	1,414	1,351	8,659	7,646	745	722	1,270	1,232	4,947	3,699	3,935	3,197	1,879	2,172
891	23,104	20,555	6,119	5,122	1,840	1,683	1,773	1,687	9.732	8,492	957	972	1,352	1,316	4,977	3,799	4,014	3,427	2,072	2,549
892	24,044	20,285	6,222	5,174	1,983	1,740	1,894	1,671	10,099	8,585	1,004	970	1,397	1,346	5,260	3,770	4,290	2,336	1,994	2,278
893	24,146	20,340	6,024	5,082	1,746	1,575	1,768	1,670	9,538	8,327	997	1,019	1,532	1,358	5,473	3,860	4,527	3,410	2,079	2,360
894	22,216	18,959	5,911	4,913	1,777	1,517	1,754	1,686	9,442	8,116	909	916	1,240	1,212	4,779	3,515	3,946	3,043	1,900	2,15
895	23,224	20,196	6,186	5,081	1,975	1,845	1,621	1,513	9,782	8,439	770	798	1,294	1,276	5,106	3,862	4,182	3,313	2,090	2,50

Year.	Т	otal.		der 1	and	Year Under Years.	and	Years Under Years.		Under lears.	and	Years Under Years,	and	Years Under Years.	and	Years Under Years.	and	Years Under Years.		Years Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1896	22,592	19,030	5,926	4,751	1,695	1,516	1,446	1,473	9,067	7,740	766	780	1,222	1,251	5,194	3,597	4,286	3,250	2,057	2,412
1897	20,749	18,128	5,406	4,608	1,524	1,360	1,312	1,185	8,242	7,153	758	749	1,994	1,165	4,561	3,446	3,950	3,211	2,044	2,404
1898	21,799	18,639	5,555	4,608	1,652	1,459	1,157	1,160	8,364	7,227	704	699	1,246	1,165	4,934	3,613	4,258	3,316	2,293	2,619
1899	21,588	18,323	5,032	4,123	1,488	1,349	1,212	1,187	7,732	6,659	748	722	1,158	1,223	5,231	3,753	4.333	3,368	2,386	2,598
1900	23,489	19,738	5,549	4,459	1,648	1,416	1,347	1,129	8,544	7,104	819	818	1,251	1,234	5,629	4,017	4,683	3,701	2,563	2,864
1901	23,570	19,734	5,100	4,248	1,531	1,416	1,303	1,211	7,934	6,875	882	800	1,275	1,185	6,003	4,049	4,952	3,803	2,524	3,022
1902	22,677	19,027	5,182	4,299	1,584	1,430	1,300	1,222	8,066	6,951	897	835	1,157	1,254	5,472	3,933	4,735	3,442	2,350	2,612
1903	22,691	19,085	4,833	4,089	1,343	1,247	1,133	1,096	7,309	6,432	872	830	1,264	1,180	5,611	4,050	5,044	3,804	2,591	2,789
1904	26,618	22,125	5,529	4,598	1,620	1,597	1,454	1,338	8,603	7,533	1,234	1,244	1,521	1,516	6,549	4,421	5,888	4,213	2,823	3,198
1905	24,844	20,355	5,625	4,693	1,467	1,247	1,196	1,059	8,288	6,999	992	975	1,457	1,306	6,005	4,100	5,343	3,961	2,759	3,014
1906	25,650	20,458	5,690	4,803	1,528	1,373	1,162	978	8,380	7,154	919	767	1,421	1,276	6,213	4,082	5,857	4.013	2,860	3,166

Note—These ages have been selected as representing approximately the progressive stages of human life, viz., infancy, childhood, youth, maturity, decline and old age.

Deaths from Typhoid Fever in Former New York City, by Age and Sex.*

Year.	Tota	F.	Unde Yea M.		and U		and U	Jnder	Total U 5 Yea M.		and	Vears Under Vears. F.	and U	Juder	and I 45 Y	lears Under ears.	45 Y and I 65 Y	Years Under ears.	65 Yand	Vears Over.
1866	286	228	2	2	2	3	18	18	22	23	45	42	-							-
1867	172	175	2	2	8	3	16	14	26	19	45 21	43	72	57 38	103	67	34	32	10	(
1868	181	148			3	3	9	11	12	14	31	27			48	56	36	28	14	3
1869	210	168	1		2		14	11	17	11	32	25	47	38	57	39	26	21	8	9
1870	225	197	2	3		2	9	11	11	16	27	28	50	45	62	51	36	28	13	8
1871	164	87	1	2	2	1	5	1	8	4	22	19	47	43 30	85 60	73 26	39 22	21	9	16
1872	220	166	1	1	6	2	7	9	14	12	44	30	55	56	76			6	5	2
1873	181	132	2	1	3		12	7	17	8	13	20	50	37	67	43	25	18	6	7
1874	159	146		4	1	3	5	1	6	8	29	24	50	42	46	37 40	27	25	7	5
1875	199	177 .	1		5	1	5	5	11	6	27	38	42	47	75		22	25	6	7
1876	180	145	1	2	3	2	13	6	17	10	19	21	53	40	64	55	36	20	8	11
1877	171	172		I	4	3	т3	7	17	11	28	27	47	40		44 60		21	9	9
1878	163	158	1		2	2	10	12	13	14	24	28	50	36	50 49		23	24	6	10
1879	125	143	2		4	2	9	8	15	10	25	- 23	29	32	35	53	21	22	6	5
1880	202	170	1	3	2	3	10	12	13	18	23	32	60	39		45	17	25	4	8
1881	350	244			2	1	15	19	17	20	40	32	103	85	73 125	45 67	23	. 28	10	8
1882	267	249	2		1	4	9	11	12	15	29	33	82	80			50	28	15	12
1883	356	269	1	4	2	2	11	15	14	21	46	42	121		102	90	35	22	7	9
1884	267	209	1		3	1	9	7	13	8	31	23	76	91 60	127	78	39	25	9	12
885	229	176	1	1	1	4	7	7	9	12	29	18	68		110	83	32	29	5	6
886	237	196	4	2	2		18	8	24	10	21	29		59	87	57	32	27	4	3
887	235	186	1		ī	2	5	13	7	15	15	26	72	55	85	62	29	32	6	8
888	235	129		1	1		9	2	10	3	18	21	79 8o	42	101	69	25	25	8	9
889	228	169	1	i	I	1	10	4	12	6	22	19	• 70	44	97	43	26	14	4	4
890	201	151	1		2	2	5	4	8	6	19	21	53	54	95	64	25	18	4	8
891	221	163	-1	1	3	2	0	8	13	11	21	31	75	43 50	87 82	59	25	19	9	3
892	230	170	r	2	4	2	7	2	12	6	25	19	66			48	19	18	11	5
893	234	147	1		2	2	4		7	6	17	13	75	59	106	59	16	23	5	4
894	194	132	2	1	1	1	2	3	5	5	20	19	49	39 35	103	64	27	22	5	3
895	207	115	2		3	1	3	3	8	4	16	14	55	36 -	95	51	23	21	2	1
896	180	117	2	2			7	3	0	5	20	22	36	31	98	41	19	19	6	1
897	188	111		2		2	5	5	5	0	12	19	53	26		42	14	16	3	1
898	253	123			1	1	4	3		1	27	13	89		91	45	27	9		3
899	173	121			1		2	2	3	2	10	16	15.00	35	105	52	23	16	4	3
900	234	138	2		2	2	5	6	9	8	21	11	39	26	96	65	23	12	2	**
901	246	166		í	3	1	8	7	11	9	14	19	53 58	34	124	65	#24	19	3	1
902	262	137			4	1	4	3	8	4	12	22	61	52 36	133	61	24	19	6	6
903	211	139	1		2		4	7	7	7	24	28	60		150	58	27	11	4	6
904	195	114	2	2	1	3	7	7	10	12				30	95	61	19	9	6	4
905	179	131	I		2		3	4	6	4	9	13	52	30	95	43	24	13	5	3
906	227	142			1		3	100	6	4	-3	.0	54	35	82	60	23	10	1	4

^{*} Including typho-malarial fever.

Deaths from Typhoid Fever, Former New York City, by Months.*

	-													Year.
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	
-					-	,		-				_	_	1882
1871	18	13	15	15	14	8	16	28	29	33	24	26	239	1883
1872	18	15	26	21	21	21	34	57	51	30	40	30	364	1884
1873	22	15	19	14	26	16	16	43	48	25	29	21	294	1885
1874	24	16	24	16	10	16	13	25	32	33	39	27	275	1886
1875	26	16	19	23	19	18	22	40	68	42	34	20	347	1887
1876	21	19	16	20	18	16	21	35	41	29	28	19	283	1888
1877	14	21	6	8	26	12	16	33	43	32	35	29	275	1889
1878	14	13	6	9	13	7	20	38	35	40	25	25	245	1890
1879	18	10	7	11	9	9	10	30	18	28	9	19	178	1891
1880	10	17	17	16	12	14	23	22	32	30	29	19	241	1892
1881	17	10	27	38	30	18	33	42	72	59	53	47	446	1893

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1882	23	18	20	17	18	10	29	44	50	70	38	25	362
883	19	18	24	22	15	22	31	63	79	90	66	22	471
884	16	22	16	10	16	18	25	49	62	66	54	35	389
885	16	11	10	14	16	17	19	32	49	50	34	26	294
886	12	9	28	13	9	5	22	37	55	59	43	33	32
887	28	13	21	11	11	16	33	51	53	38	26	22	32
888	12	13	14	17	17	11	35	42	81	52	37	33	364
889	27	15	21	18	17	19	31	71	57	57	40	24	397
890	20	28	14	12	11	11	31	49	64	49	34	29	354
891	14	11	17	13	20	23	28	57	65	56	51	29	384
892	15	25	17	19	23	23	52	53	57	55	31	30	40
893	22	18	29	25	29	23	21	35	42	70	41	26	38

1882..... 36

1883..... 22

1884..... 27 37 25 18

34 57

31 23 37 44

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tota
1894	22	11	17	18	11	14	28	42	57	46	32	28	326	1885	24	39	37	33	36	37	34	41	41	35	24	27	40
1895	17	16	8	14	13	23	27	37	46	48	37	36	322	1886	26	34	37	37	43	25	19	33	29	44	35	32	39
1896	20	17	11	12	10	13	25	42	38	39	34	36	297	1887	25	22	25	23	22	32	32	36	43	33	25	30	34
897	19	15	9	10	14	19	29	40	32	40	28	44	299	1888	23	23	23	24	22	18	21	21	29	20	26	20	27
898	8	12	14	8	11	19	20	56	96	59	42	31	376	1889	121	11	11	19	10	15	15	35	26	30	19	16	2:
899	15	9	14	15	18	11	21	30	40	52	43	26	294	1890	17	10	9	8	15	20	12	23	16	15	12	19	1
900	27	19	10	10	18	20	30	37	56	52	42	51	372	1891	14	8	13	11	11	19	19	23	25	21	13	8	1
901	41	19	21	22	18	14	31	40	64	64	39	39	412	1892	8	10	15	11	12	16	17	12	21	13	16	10	1
902	24	10	17	22	18	20	32	47	42	70	55	42	399	1893	7	7	17	11	8	13	12	22	10	7	8	11	1
903	25	16	19	23	23	22	23	39	43	48	35	34	350	1894	10	3	8	10	15	18	11	15	10	11	9	6	1
904	16	15	21	12	18	17	21	41	37	39	30	42	309	1895	4	2	7	8	9	9	5	5	11	10	12	8	
905	19	15	17	15	11	16	25	43	49	44	28	28	310	1896	7	5	8	9	10	11	9	9	12	22	6	4	1
906	13	21	8	25	17	16	27	39	46	64	55	38	369	1897	7	6	5	8	12	17	16	8	8	18	5	8	1
***						000						_		1898	6	5	5	8	12	7	5	22	27	14	10	5	1
*Exclusive of	typho	-malari	al feve	r, exce	epting	1888 t	0 1906	, whe	n it w	as inc	luded.			1899	r	6	2	7	6 '	6	14	7	5	10	9	7	
Dogth	a feat	m Ma	lariat	Farran	. For		Ta 1	71-	City 1	h M				1900	5	5	9	7	12	5	9	12	10	16	11	3	1
Death	S IIO	II Ma	lariai	rever	S FOI	mer i	New :	OTK	City,	by M	ontns.			1901	3	5	2	5	2	6	5	11	23	13	8	10	
														1902	4	5	6	4	5	9	10	6	7	9	1	1	
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	1903	ī	2	3	1	10	7	3	2	2	3	4	1	
												_		1904	2	ī	3	4	7	5	4	3	2	3	2	2	
381	26	35	64	56	52	33	50	59	76	66	48	40	605	1005						- 6	-						

In this table typho-malarial fever is included, excepting in 1888 to 1906, during which years it is included in tables of typhoid fever.

Deaths from Measles in Former New York City, by Age and Sex.

44 37 540

Year.	To	tal.	Und	er i	and U	ear Inder ears.	and	Tears Under ears.	Total U	Inder ars.	5 Y and 1 15 Y	Tears Under Tears.	15 Y and U 25 Ye	ears Inder ears.	25 Y and U 45 Y	ears Inder ears.	45 Y and U 65 Y	Tears Inder ears.	65 Y	Years Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F
1866	93	60	15	13	45	21	24	20	84	54	9	5	**			1		4.		-
1867	272	227	66	42	113	97	70	75	249	214	22	12	1			1				
1868	98	102	38	27	31	35	23	30	92	92	6	8		2						
1869	271	255	74	62	102	95	83	74	259	231	11	20		4	1					,
1870	165	133	42	22	57	51	54	49	153	122	11	10	9.4	**	1	1				
1871	213	196	60	42	78	76	61	67	199	185	14	8	4.4	3						
1872	244	219	68	61	84	72	79	69	231	202	12	15	1	1	**	1				
1873	141	165	40	50	46	59	43	46	129	155	10	7	1	1	1	2		***		* .
1874	167	152	49	46	60	49	45	40	154	135	11	12	2	1		4				
1875	76	91	12	22	31	35	25	26	68	83	8	8								
1876	194	168	44	40	68	61	59	55	171	156	22	9		1	1	2				1
1877	87	68	34	14	27	25	20	20	81	59	6	8				1				
1878	134	138	39	42	45	38	41	44	125	124	8	11		1	1	2			**	
1879	130	114	33	16	48	47	36	38	117	101	12	12		I	1					
1880	256	223	82	53	86	81	75	74	243	205	13	17		**		1				
1881	210	219	52	62	71	73	70	67	193	202	16	14		2	1	1				
1882	443	470	113	131	149	150	145	147	407	428	33	33	3	3		6				
1883	371	345	109	83	131	136	91	90	331	309	35	28	3	3	2	5				
1884	415	347	108	105	163	120	119	99	390	324	23	19		2	1	2	1			
1885	375	361	103	107	145	140	99	86	347	333	26	24	**	3	1	1	1			
886	346	322	93	77	156	127	76	95	325	299	16	22	2	1	3		**			
887	387	380	119	110	138	140	109	101	366	351	16	22	3	4	2 1	2		1		
888	325	266	100	87	116	103	87	63	303	253	19	8		2	3	2		1		
1889	234	236	66	55	95	89	51	76	212	220	18	14	4			2				
1890	385	345	121	99	139	141	105	87	365	327	16	16			3	1	I			1
1891	316	347	82	94	116	138	95	102	293	334	18	12	3	**	2	1				
1892	451	413	151	111	166 .	150	113	122	430	383	18	27	1	1	1	2	1			
893	202	191	57	54	85	67	47	59	189	180	9	11	1		3	1.7			**	
894	298	286	96	88	108	94	73	85	277	267	20	15		3	1	1				
895	374	419	84	108	167	157	105	132	356	397	15	20	1	1	2	1				
896	355	359	99	88	119	133	118	116	336	337	16	16	2	3	1	2		1		
897	192	199	53	55	80	79	52	50	185	184	6	12		2	1	1	**	**		
898	252	194	76	48	112	88	58	49	246	185	6	5		2		2				
899	202	177	60	35	81	90	45	46	186	171	16	5				1	++	44		.,
900	238	232	60	56	95	101	67	55	222	212	15	15		2		2	.1	1		
901	150	122	37	24	53	48	48	40	138	112	11	7		1		2	1			
902	240	222	76	50	87	82	61	73	224 .	205	13	11	1	2	1	2	1	2		,,
903	167	154	58	43	69	62	32	41	159	146	5	8	2		1					
904	282	274	79	66	103	121	76	75	258	262	17	9	3	2	4	1	44			
905	170	144	60	37	72	61	31	34	163	132	5	10		2	1		1			
906	326	336	88	98	133	132	84	91	305	321	14	13	4	4.6	3	2				

De	aths :	from	Measl	les, F	orme	r New	You	k Cit	y, by	Mon	ths.			Year.	Tan.	Feb.	Mar.	April.	May.	Tune.	Tuly.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec. T	Cotal.		-												
	-													1873	25	29	20	17	36	40	50	23	5	21	13	21	306
1871	108	80	53	44	38	24	28	17	4	4.	9	4	409	1874	28	28	38	41	43	43	45	18	15	8	6	6	319
1872	13	48	45	46	65	83	84	41	3	14	17	14	463	1875	8	3	7	6	16	23	.27	18	8	5	13	33	167

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1876	42	63	67	55	45	34	27	2	5	14	. 5	3	362	1892	50	47	77	119	168	160	98	32	25	11	25	52	864
877	4	1	4	8	26	28	24	17	7	12	4	20	155	1893	38	27	25	27	31	49	36	35	17	11	43	54	393
878	36	38	54	56	33	18	10	5	8	2	. 5	7	272	1894	105	106	118	85	45	36	26	5	11	13	10	24	584
1879		1	4	12	11	26	28	24	20	13	31	74	244	1895	26	33	65	85	115	156	93	51	20	20	46	83	793
880	100	92	69	73	70	1 21	21	9	7	1	6	10	479	1896	93	95	118	126	79	69	44	29	12	14	12	23	114
881	18	21	38	35	63	93	38	29	12	5	15	62	429	1897	25	33	46	25	40	35	31	21	10	24	51	50	391
882	140	142	122	101	140	79	69	25	8	22	21	44	913	1898	71	58	82	67	47	33	25	12	11	6	12	22	446
883	60	50	81	108	103	92	77	46	16	21	21	41	716	1899	33	20	23	30	41	47	39	19	14	22	45	46	379
884	36	29	35	41	93	117	124	57	36	26	70	98	762	1900	79	103	86	64	42	35	27	16	1	6	2	9	470
885	150	119	119	98	84	73	52	17	5	2	11	6	736	1901	7	7	13	16	21	21	36	11	8	11	26	95	272
1886	5	2	8	10	17	26	58	36	21	48	166	271	668	1902	87	103	73	57	32	40	24	0	2	6	10	10	462
887	293	181	96	43	33	23	29	6	7	10	22	24	767														
888	26	23	18	29	54	86	86	55	36	38	42	98	591	1903	28	36	38	36	39	29	37	13	9	8	26	22	321
889	117	87	73	60	29	29	18	8	3	5	18	23	470	1904	65	56	92	103	85	53	31	16	12	9	17	17	556
890	24	32	50	109	129	107	63	45	20	28	48	75	730	1905	17	13	36	31	42	65	40	20	10	7	15	18	314
891	105	63	67	84	82	79	59	26	15	24	14	45	663	1906	51	79	131	127	98	71	44	13	12	7	14	15	662

Deaths from Scarlet Fever in Former New York City, by Age and Sex.

Year.	Tot	al.	Unde Yea		and U	nder	and U	Inder	Total U		and U	Inder	and U	Inder	25 Y and U 45 Y	nder	45 Y and U 65 Ye	ears nder	65 Y	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1866	420	386	36	32	76	94	210	178	322	304	96	77	2	3		. 2		77		
1867	328	327	25	27	54	48	179	182	258	257	63	68	4	1	3	1				
868	417	444	34	29	73	68	200	205	307	302	103	119	3	10	4	10		3		
1869	488	478	36	47	105	92	246	223	387	. 362	88	106	10	5	3	5	٠			
870	499	476	39	43	102	88	235	246	376	. 377	116	88	5	8	2	3				*
871	397	394	28	22	69	51	205	225	302	293	85	91	5	7	5	3		**		
872	521	469	43	31	91	69	249	242	383	342	122	109	4	6	12	12				
873	570	475	37	39	99	72	297	224	433	335	127	124	7	11	3	5				
874	476	403	34	29	79	56	234	181	347	266	119	117	5	11	4	9	1		**	
875	262	252	30	19	52	39	1.15	117	197	175	55	64	8	9	2	4				
876	447	444	32	27	84	76	222	208	338	311	103	122	2	7	4	4				
877	489	494	32	34	85	75	236	253	353	362	131	123	4	4		5	1			
878	516	583	24	36	106	100	265	290	395	426	111	143	4	7	6	4		2		
879	782	695	52	34	145	134	404	351	601	519	173	161	8	. 7		. 8		**		
880	323	295	18 .	15	66	54	180	152	264	221	54	70	2	2	3	2				
881	956	1,008	47	50	164	152	467	492	678	694	258	278	9	19	10	15	1	1		
882	1,072	994	63	53	196	142	529	489	788	684	240	262	24	25	18	23	2			
883	367	377	36	31	68	63	167	174	271	268	88	84	5	16	2	9	1			
884	314	294	30	25	67	55	133	125	230	205	64	72	11	14	9	2		1		,
885	295	264	29	21	67	52	129	118	225	191	63	64	3	6	4	3				
886	198	173	14	10	46	34	101	96	161	140	33	30	2	**	1	3			1	
887	297	292	13	12	57	58	169	151	239	221	52	66	4	3	2	1		1		
888	689	672	48	39	113	100	347	351	508	490	163	173	11	3	7	6			**	
889	622	620	23	43	131	95	325	298	479	436	118	147	14	23	10	14	1			
890	201	207	9	14	35	40	99	102	143	156	55	45	2	2	1	4				,
891	616	604	40	26	105	95	319	302	464	423	136	165	11	10	5	5				
892	482	495	39	29	63	74	244 .	235	346	338	118	131	12	16	6	7		2		
893	285	266	24	23	40	40	142	127	206	190	69	68	6	4	4	4				,
894	263	278	17	14	50	39	127	135	194	189	58	72	7	11	. 3	6	1		**	
895	248	220	16	13	34	41	149	105	199	158	42	57	4	1	3	4	**	• •	**	
896	203	199	8	12	34	25	106	105	148	142	53	52		1	2	4	**			
897	265	235	10	15	56	33	127	124	193	172	69	59		4	1	**	2		••	
898	248	275	18	18	48	40	119	151	185	209	56	56	2	7	5	3	**	1.8		-
899	161	171	10	. 8	27	32	83	81	120	_121	38	48	3	2		**		**	**	,
900	186	129	22	6	40	22	77	62	139	90	38	32	2	6	7	1	* **			
901	322	313	11	18	47	39	151	138	209	195	100	102	7	7	5	8	1	i		
1902	337	298	20	15	47	48	169	130	236	193	88	90	8	8	5	6	**	1		19
1903	231	234	9	10	41	35	91	101	141	146	77	72	7	7	6	9	••	**	**	9
1904	259	275	15	12	37	43	123	111	175	166	66	90	11	12	7	6		1	44	
1905	137	134	12	4	19	16	64	58	95	78	32	45	8	5	2	5		1	**	
1906	110	102	4	11	16	9	48	43	68	63	35	33	4	5	3	1				- 4

Deaths from	n Scarlet	Fever.	Former	New	York	City.	by Months.	

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1871	107	77	86	73	72	52	66	55	20	47	65	71	791
1872	95	107	103	126	131	113	75	27	25	47	65	76	990
1873	80	86	78	83	110	86	99 -	55	49	71	102	146	1,045
1874	116	100	114	80	78	81	58	51	52	48	45	56	879
1875	71	66	49	55	60	46	34	14	15	20	33	51	514
1876	65	80	100	134	108	99	56	26	25	33	74	91	891
1877	105	93	95	120	92	102	68	54	52	60	60	82	983
1878	111	96	110	97	93	87	57	54	35	60	102	197	1,099
1879	251	225	254	186	159	119	90	36	50	31	41	35	1,477
1880	34	33	25	38	46	30	20	27	24	54	119	168	619
1881	178	176	150	185	194	139	152	108	95	125	145	317	1,964
1882	403	401	337	291	234	154	69	44	26	26	37	44	2,066
-00-	80	6-	04	or	120	87	37	27	28	32	35	35	744

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1884	53	60	64	68	68	54	48	21	25	19	50	78	608
1885	72	73	77	77	71	53	35	16	4	14	24	43	559
1886	49	43	42	49	44	29	25	15	11	18	23	23	371
1887	46	41	54	55	56	55	33	21	30	44	55	99	589
1888	109	116	123	136	145	138	84	79	66	65	112	188	1,361
1889	221	208	249	229	150	69	30	9	12	19	17	29	1,242
1890	47	41	58	36	32	37	24	14	15	12	40	52	408
1891	88	115	100	169	155	121	118	64	42	50	73	125	1,220
1892	145	134	138	132	144	92	33	20	24	27	36	52	977
1893	58	69	79	86	85	53	33	19	11	15	14	29	551
1894	44	66	70	78	64	67	34	18	15	15	30	40	541
1895	68	65	78	59	53	46	15	13	10	10	16	35	468
1896	74	53	37	41	46	26	25	9	12	20	28	31	402

						-										-											
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1897	39	51	50	51	51	58	. 36	14	22	32	42	54	500	1902	82	82	70	80	99	70	45	20	16	24	19	28	63
1898	88	66	78	56	71	48	35	9	10	16	13	33	523	1903	46	52	67	73	57	40	26	13	10	9	22	47	465
1899	39	41	52	34	39	41	15	7	9	9	15	31	332	1904	79	84	73	81	66	34	20	11	7	17	31	31	534
1900	32	64	46	47	34	15	17	11	9	8	8	24	315	1905	42	42	51	36	35	22	7	2	3	10	10	11	271
1901	55	61	102	106.	100	64	43	19	8	12	33	32	635	1906	21	23	32	19	37	14	11	6	7	6	12	24	212

Deaths from Small-pox in Former New York City by Age and Sex.

	Year.	Tot	al.		er i ar.	and U	Inder	and I	ears Under ears.	Total U	nder ars.	and V	ears Under ears.	and Un 25 Year	der	and Un 45 Yea	ars nder ars.	45 Yea and Un 65 Yea	ars ider irs.	65 Y and	Years Over
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.	м.	F.	M.	F.	M.	F
1866		29	15	6	1	3	4	1	2	10	7	1	1	4	2	10	4	4	1		
1867		12	7	3	3		**	2		5	3	**	2	3	1	3	1	1			
1868		15	11	4	4	44.7	2	5	1	9	7		.,		1	5	2	1	1		
1869		104	99	19	28	18	13	22	27	. 59	68	9	11	6	13	23	7	6		1	
1870		167	126	32	. 37	17	10	26	24	75	71	16	14	21	12	44	22	11	6	**	
1871		454	351	74	58	34	33	53	43	161	134	58	58	84	63	131	77	19	17	1	
1872		548	381	85	60	40	38	60	52	185	150	54	52	111	76	168	83	24	16	6	
1873		67	50	15	16	1	4	2	3	18	23	7	3	10	9	26	14	5	1	1	
*1874		281	203	57	42	33	31	45	28	135	101	25	26	39	28	72	39	8	7	2	
1875		709	571	114	110	86	70	110	108	310	288	71	70	110	70	181	108	34	30	3	
		179	136	25	25	13	11	19	26	57	62	12	1.2	28	28	64	26	17	8	1	
		10	. 4		1	1		1		2	1		**		1	5		2 '	2	1	
		1	1		1		4.		**	**	1			4,4		I			**		
		13	12	2	1	2	3	5	1	9	5	1	3		1	2	2	1	I		
1000		19	12	3	2	2	3			5	5	1		1	3	10	3	2	1		
		262	189	25	39	28	22	34	34	87	95	26	26	50	30	78.	30	18	7	3	
		142	117	21	18	10	14	32	21	63	53	12	16	15	21	40	21	11	5	1	
		8	4		1	1				1	1	1		1	3	3		. 2			
			**		1		1	5	4	8	6	4	1		1	3	2	1			
		16	10	3	4	1		3	3	8	7	3	2	1		8		2			
		22	9		7		6	7	0	22	22	4	8	14	4	15	1	6	2	1	
		62	37	11		-		4	4	16	12	3	3	10	1	27		2	2		
	*******	58	23	8	5	4	3							1		**				**	
1889		1			**			**										2		•••	
1890		2						**		**						•••					
1891	******	2		**									2			2	6	6	**	**	
1892		48	33	10	10	4	3	7	5	21	18	1		5	5	14			2	1	
1893		60	42	7	10	6	4	7	7	20	21	2	2	9	6	25	11	3	2	1	
1894		97	57	9	13	9	9	7	16	25	38	1	5	14	3	41	9	14	1	2	
1895		7	3	1	**	1	.,			2	**	**		1		4	3		••	**	
1896		1	1.5			**	**							1			**	**		**	
897		14	10		3	4	2.4	3	3	7	6	1	1	3	1	2	2	1	**	**	
898		1	11				**		**	1	* **	**	• • •	**		•••	**		**	2.5	
		11	7	2	2	1	1		1	3	4	• •	• • •	4	2	2	1	2		11	
		6	6	1	I,		1		1	1	3		**	1	• • •	2	2	- 1	. 1	1	
		244	155	36	37	19	26	42	31	97	94	16	14	19	6	85	27	23	13	. 4	
2011/01/01/01		139	79	9	11	5	5	16	14	30	30	7	9	12	9	68	23	21	7	1	
		. 1	2				11			**	1		**	11	**	**	1	1		11	
		1									**	• •				1	**		***	**	
State of the state			1						79.0				.,		1	49	**				
905		*														**					

^{*} Vaccinating corps organized September 29, 1874, in accordance with act of Legislature passed June 15, 1874.

Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
24	64	115	110	97	98	88	57	23	23	36	70	805
105	105	116	149	185	124	48	14	7	12	31	33	929
39	22	7	6	17	12	3	1	,	2	6	2	117
-	7	11	28	34	27	34	34	43	44	78	140	484
	121	101	104	180	178	157	65	42	50	64	68	1,280
	72	50	48	26	26	9	3	2	4		3	315
1		4	4	1	3	1		**				14
		- 1		1								2
			2	1	8	9	4			1		25
				2		2		2	2	4	19	31
				77	67	32	30	11	22	20	45	451
		2.7			18	6	1			1		259
	155											12
									3	8	5	26
												31
	24 105 39 4 150 72 1  31 61	24 64 105 105 39 22 4 7 150 121 72 72 1 31 20 61 65	24 64 115 105 105 116 39 22 7 4 7 11 150 121 101 72 72 50 1 4 1 31 20 44 61 65 51 3	24 64 115 110 105 105 116 149 39 22 7 6 4 7 11 28 150 121 101 104 72 72 50 48 1 4 4 1 2 2 31 20 44 52 61 65 51 30 3 5	24 64 115 110 97 105 105 116 149 185 39 22 7 6 17 4 7 11 28 34 150 121 101 104 180 72 72 50 48 26 1 4 4 1 1 1 2 1 2 2 31 20 44 52 77 61 65 51 30 26 3 5 4	24     64     115     110     97     98       105     105     116     149     185     124       39     22     7     6     17     12       4     7     11     28     34     27       150     121     101     104     180     178       72     72     50     48     26     26       1      4     4     1     3         1      1          2     1     8         2        31     20     44     52     77     67       61     65     51     30     26     18         3     5     4	24     64     115     110     97     98     88       105     105     116     149     185     124     48       39     22     7     6     17     12     3       4     7     11     28     34     27     34       150     121     101     104     180     178     157       72     72     50     48     26     26     9       1      4     4     1     3     1         1      1           2     1     8     9         2      2       31     20     44     52     77     67     32       61     65     51     30     26     18     6	24       64       115       110       97       98       88       57         105       105       116       149       185       124       48       14         39       22       7       6       17       12       3       1         4       7       11       28       34       27       34       34         150       121       101       104       180       178       157       65         72       72       50       48       26       26       9       3         1        4       4       1       3       1            1        1               2       1       8       9       4            2        2        2         31       20       44       52       77       67       32       30         61       65       51       30       26       18       6       1            <	24     64     115     110     97     98     88     57     23       105     105     116     149     185     124     48     14     7       39     22     7     6     17     12     3     1        4     7     11     28     34     27     34     34     43       150     121     101     104     180     178     157     65     42       72     72     50     48     26     26     9     3     2       1      4     4     1     3     1          1      1             2     1     8     9     4          2      2      2       31     20     44     52     77     67     32     30     11       61     65     51     30     26     18     6     1	24     64     115     110     97     98     88     57     23     23       105     105     116     149     185     124     48     14     7     12       39     22     7     6     17     12     3     1      2       4     7     11     28     34     27     34     34     43     44       150     121     101     104     180     178     157     65     42     50       72     72     50     48     26     26     9     3     2     4       1      4     4     1     3     1            1      1              1      1               2     1     8     9     4           2     1     8     9     4           2     77     67     32     30	24     64     115     110     97     98     88     57     23     23     36       105     105     116     149     185     124     48     14     7     12     31       39     22     7     6     17     12     3     1      2     6       4     7     11     28     34     27     34     34     43     44     78       150     121     101     104     180     178     157     65     42     50     64       72     72     50     48     26     26     9     3     2     4        1      4     4     1     3     1            1      1              2     1     8     9     4            2      2      2     2     4       31     20     44     52     77     67     32     30     11     22     20       6	24       64       115       110       97       98       88       57       23       23       36       70         105       105       116       149       185       124       48       14       7       12       31       33         39       22       7       6       17       12       3       1        2       6       2         4       7       11       28       34       27       34       34       43       44       78       140         150       121       101       104       180       178       157       65       42       50       64       68         72       72       50       48       26       26       9       3       2       4        3         1        4       4       1       3       1

Deaths from Smallpox, Former New York City, by Months.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1889		ī	4.0										1
1890			2										2
1891			1	r									2
1892	1	6	3	9	9	8	7	14	5	10	7	2	81
1893	3	7	11	11	9	7	2	2	19	9	9	13	102
1894	13	27	21	20	20	15	10	4	8	2	10	4	154
1895	3	4			1			44		2			10
1896					1				**			44	1
1897			2	7	6	6	3						24
1898											1		1
1899	1	1	1	1	5	7	1			1	.,		18
1900	1			1	1	1		2	**	r	5		12
1901	9	32	37	38	62	71	80	33	9	11	7	10	399
1902	35	39	28	38	20	39	15	4					218
1903	2			1									3
1904		++				1							1
1905			++		1.			1					1
1906													

^{*} Vaccinating Corps organized September 27, 1874, under act of Legislature passed June 15, 1874.

## Deaths from Whooping Cough in Former New York City, by Age and Sex.

Year.	Tot	al.	Und Ye	er i	and U	Inder	and U		Total U	Jnder ars.	and U	ears Under ears.	and U	ears Inder ars.	and U	ears Inder ears.	and U 65 Ye	ears inder ears.		Tears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F
1866	48	66	23	27	16	22	8	15	47	64	1	2 .		44	44.7	7				-
1867	65	90	39	45	18	26	8	16	65	87		3								
1868	89	128	53	64	27	43	8	18	88	125	1	3		148						
1869	152	206	74	98	46	63	26	39	146	200	6	6						4.4		
1870	79	122	44	61	16	38	18	22	78	121	1	1								
1871	196	269	103	136	65	78	26	49	194	263	2	6								
1872	261	304	135	143	66	75	50	72	251	290	10	14	44							
1873	117	151	56	79	29	41	31	29	116	149	1	1						1		
1874	214	275	110	151	58	69	45	49	213	269	1	4						1		
1875	185	222	114	123	50	55	19	40	183	218	2	4								
1876	178	228	97	113	40	59	35	49	172	221	5	6		1	I					
1877	1/89	251	98	112	47	75	39	53	184	240	5	11							**	
1878	159	223	86	113	37	63	33	42	156	218	3	4						1	**	
1879	253	284	128	132	69	87	49	55	246	274	7	10								
1880	134	143	64	60	38	53	30	26	132	139	2	. 4						**	**	
1881	135	151	73	63	33	54	23	30	129	147	6	-				**		**		
1882	289	369	155	187	80	90	46	78	281	355	8	13		1	**	**	**	•••		•
1883	169	158	80	88	45	37	35	28	160	153	8	3	1	1	**	**	••		••	
1884	226	264			56	68			217	257	9	7				**		1		
1885	216		131	139		81	30	50 62	214	270	2		**	**		**	**			
		279		127	57		39					9	**	2.55	**	**			••	
1886	261	314	144	159	70	88	40 -	57	254	304	7	10	**	**			**	•••	**	
1887	87	101	49	48	23	30	13	18	85	96	2	4				1	**			
1888	238	335	119	163	58	89	47	65	224	317	14	17			**	1	**		**	
1889	285	362	167	173	67	97	49	81	283	351	2	11	**	**			• •		**	
1890	213	274	115	133	49	79	40	56	204	268	7	6	1		1					
1891	168	184	95	96	42	44	28	39	165	179	3	4	**		**	1			**	
1892	156	215	71	104	51	58	32	45	154	207	2	8			- **		**			
1893	249	293	122	126	83	95	39	59	244	280	5	12	**	**		1	. **			
1894	103	169	57	76	17	45	26	43	100	164	3	. 5	**			**	**		4.	
1895	216	280	114	127	58	92	38	50	210	269	5	10		1 .	1	1.5	44			
1896	189	246	112	113	42	66	29	57	183	236	6	10				**	- 48			
1897	132	176	73	87	26	52	31	31	130	170	2	6	7			++				
1898	198	244	105	116	62	70	28	51	195	237	3			6						
899	158	192	74	99	58	40	25	46	157	185	1	6			1.1			1		
900	143	175	69	78	38	45	32	41	139	164	4	9				ī		1		
901	65	94	31	43	22	29	11	19	64	91	1	2		**						
902	175	210	100	111	43	49	28	44	171	204	4	6		**						
903	76	111	41	57	22	29	13	22	76	108		3								
904	50	70	28	31	10	22	8	15	46	68	3	2	1	**						
905	105	134	51	70	31	33	20	27	102	130	3	3				1		.,		
906	95	107	51	54	25	25	17	23.	93	102	2	5								

Deathe	from	Whoming	Court	Former	Mour	Vorte	City	by Months.
Deaths	HOIII	Wildoning	Cough,	T OTHER	TICM	TOIR	CILY.	Dy Months.

	_				_	-						_		Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tota
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	1888	25	21	29	28	26	40	70	81	82	60	41	70	57
	-	-					-	-				_		1889	53	53	83	85	67	53	57	61	41	33	28	33	64
871	17	14	22	24	27	15	26	53	81	71	49	66	465	1890	46	42	36	30	26	46	61	57	50	37	26	30	48
872	84	95	74	81	64	43	33	25	24	21	9	12	565	1891	52	36	43	47	40	25	18	21	21	19	13	17	35
873	14	22	35	24	19	14	23	27	26	25	18	21	268	1892	22	16	21	33	26	25	52	58	31	32	29	26	37
874	26	38	43	36	28	38	47	59	57	46	35	36	489	1893	39	64	90	65	55	35	45	44	34	19	16	36	54
875	49	43	40	36	31	31	42	31	37	25	19	23	407	1894	19	24	29	39	27	16	26	34	14	18	6	20	27
876	37	56	46	44	36	18	25	46	33	21	24	20	406	1895	27	30	33	48	30	44	69	64	60	39	22	30	49
877	23	30	39	35	24	26	55	68	61	39	16	24	440	1896	33	16	44	50	51	33	51	50	49	26	14	18	43
878	25	18	20	18	35	35	44	50	44	43	24	26	382	1897	22	27	38	36	24	22	29	29	25	17	10	19	30
879	67	61	91	59	54	40	32	25	37	27	23	21	537	1898	13	23	42	37	38	38	74	66	44	24	22	21	- 44
880	33	24	25	22	20	26	25	23	23	21	18	17	277	1899	25	32	28	20	22	28	42	44	36	24	21	28	35
	15	19	19	16	13	17	22	36	37	30	29	33	286	1900	34	38	34	38	31	21	31	27	21	16	14	13	31
882	39	44	76	72	67	56	75	75	56	33	35	30	658	1901	10	12	14	11	12	8	13	23	13	13	14	16	15
883	25	32	25	31	27	19	36	43	28	21	16	14	327	1902	29	37	30	47	37	39	44	39	37	15	21	10	38
884	22	26	23	32	44	28	64	55	72	51	42	31	490	1903	24	16	12	16	24	15	8	22	20	10	10	10	18
885	28	27	35	26	24	22	49	81	56	35	36	76	495	1904	4	10	15	11	9	9	15	13	10	5	8	11	12
886	70	69	87	71	44	35	60	48	37	30	13	11	575	1905	10	18	25	38	26	19	29	34	15	13	3	9	23
887	32	11	16	10	12	11	25	24	22	8	7	10	188	1906	10	5	10	11	19	14	18	33	22	27	11	22	20

## Deaths from Diphtheria and Croup in Former New York City, by Age and Sex.

Year.	Tot	al.	Undo Ye	er i ar.	and U	nder	and U	ears Under ears.	Total U		and U	ears Under ears.	and U	ears Inder ears.	25 Y and U 45 Ye	ears Inder ears.	45 Y and U 65 Ye	ears nder ears.	65 Y and C	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.	M.	F.	M.	F.
1866	416	387	92	71	113	100	168	156	373	327	33	44	4	. 5	2	5	3	4	1	
1867	299	284	64	61	79	88	123	105	266	254	26	25		3	4	2	3			
1868	327	292	73	43	87	73	125	134	285	250	35	39	1	1	3	1	3	1		

Year.	Tot	al.	Unde		and U	nder	and U	Inder	Total U	nder ars.	and	Years Under Years.	and U	nder	and U	ears inder ars.	and U	ears nder ears.	65 Y and	Cears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.
1869	413	398	66	68	110	101	192	176	368	345	40	47	1	r	í	4	3	1		
1870	364	365	48	50	106	. 86	160	170	316	306	42	50	3	2	2	5	1	1	• •	1
1871	359	345	47	37	106	93	168	157	321	287	33	52	2	4	2	1	**	• •	1	1
1872	557	465	72	57	142	132	263	270	477	459	75	97	3	2	2	3		1	• •	2
1873	949	934	95	96	187	163	433	421	715	680	211	242	9	3	11	3	1	5	2	1
1874	1,092	1,167	107	90	227	212	510	509	844	811	225	* 333	8	9	10	8	4	4	1	2
1875	1,516	1,571	145	106	339	330	715	723	1,199	1,159	297	388	8	10	9	9	3	5		**
1876	1,176	1,101	121	103	321	228	528	530	970	861	187	213	9	. 11	4	12	5	3	1	1
1877	761	662	80	61	173	168	371	300	624	529	123	125	6	5	6	2	1	1	1	
1878	767	739	91	53	179	164	353	356	623	573	135	156	3	3	4	1	2	4		2
1879	598	595	68	53	153	133	284	290	505	476	86	104	2	7	5	6	**	1	***	1
1880	1,154	1,146	101	77	280	251	576	571	957	899	189	238	1	3	6	4	1	2	**	
1881	1,673	1,614	165	131	371	344	790	758	1,326	1,233	324	347	14	19	7	10	2	4		1
1882	1,136	1,118	113	102	291	244	510	533	914	879	200	219	11	6	7	8	3	4	1	2
1883	836	817	97	77	224	174	356	373	677	624	148	165	4	15	7	9		4		
1884	939	899	103	69	230	215	424	436	757	720	163	166	10	5	5	7	2	1	2	
1885	1,078	1,102	104	94	256	246	530	551	890	891	176	200	6	4	5	4	1	2		1
1886	1,393	1,302	159	117	329	291	650	614	1,138	1,022	242	261	A	6	8	10	1	2		1
1887	1,617	1,439	164	99	383	302	772	726	1,319	1,127	272	276	15	19	9	13	2	2	***	2
1888	1,321	1,232	120	118	325	284	626	577	1,071	979	224	236	12	11	10	4	2	2	2	
1889	1,181	1,110	136	104	287	273	544	499	967	876	200	213	5	11	- 5	8		2	4:	
1890	920	863	99	71	233	188	430	432	762	691	151	152	ī	9	4	9	1	2	ĭ	
1891	1,017	953	111	85	232	202	494	465	837	752	163	182	6	11	8	4	3	4		
1892	1,119	987	92	67	269	222	580	494	941	783	160	185	9	10	6	5	2	4	1	
1893	1,253	1,305	98	110	300	273	617	612	1,015	995	226	283	5	12	2	8	3	5	2	2
1894	1,464	1,406	125	109	351	301	731	701	1,207	1,111	249	275	4	5	3	11	I	3		1
1895	1,017	959	130	84	247	232	477	449	854	765	146	181	5	5	9	6	3	2		
1896	888	875	96	65	241	197	405	430	742	692	130	167	2	8	11	7	3	İ		
1897	770	820	82	74	196	213	350	354	628	641	128	170	8	3	5	5	1	1		
1898	475	448	52	35	150	101	193	203	395	339	65	103	4	1	6	5	4		1	
1899	525	560	62	52	133	149	240	257	435	458	83	86	ī	4	6	9	4.2	3		
1900	669	607	72	64	147	108	297	279	516	451	131	138	9	7	11	10	2			1
1901	620	607	64	77	172	123	275	28,3	511	483	95	115	5	6	5	3	3		1	
1902	633	509	71	53	179	130	256	213	506	396	113	98	5	9	8	6	i			
1903	628	604	73	56	151	147	275	264	499	467	109	131	8	4	8	2	3	5	I	
1904	66 r	611	85	49	183	169	273	26.4	541	482	103	101	6	8	8	13	2	5	1	-
1905	436	424	69	54	111	106	181	180	361	340	68	73	3	5	4	5				3 Ja
т906.,	559	424	63	55	172	119	223	171	458	345	85	66	6	7	9	3	1	3		

Deaths i		Diebt	horio	and C	roun	Form	or N	ow V	rk Ci	tur by	, Mon	the															
Year.		-		April.									Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tota
1871	83	63	74	68	52	35	29	35	41	63	81	80	704	1889	269	254	277	289	247	206	137	110	100	123	122	157	2,29
1872	105	94	99	67	76	54	39	51	90	124	160	162	1,121	1890	156	176	188	186	167	141	125	92	85	112	160	195	1,78
1873	151	144	116	115	108	116	124	123	176	223	245	242	1,883	1891	156	185	194	166	131	133	134	111	139	176	209	236	1,97
1874	201	172	163	177	134	127	132	135	133	253	320	312	2,259	1892	214	182	202	229	203	121	158	106	125	158	191	217	2,10
1875	321	272	269	251	215	243	201	173	220	283	299	340	3,087	1893	239	198	241	193	206	204	188	146	148	214	279	302	2,55
1876	350	298	271	210	222	154	96	95	97	161	142	181	2,277	1894	350	260	278	275	336	272	212	159	142	170	204	212	2,87
1877	108	120	134	116	105	71	84	65	121	161	175	163	1,423	1895	219	175	190	187	204	171	155	137	105	112	145	176	1,97
1878	197	154	175	144	121	98	65	61	76	119	144	152	1,506	1896	208	187	158	146	192	165	126	104	105	87	127	158	1,76
1879	143	113	108	67	78	66	44	60	69	122	173	150	1,193	1897	162	. 133	167	159	195	164	127	94	89	85	107	108	1,59
1880	142	149	135	149	130	114	133	140	182	307	373	346	2,300	1898	91	108	111	94	88	56	69	39	41	67	71	88	92
1881	328	254	288	273	271	289	257	236	227	283	268	313	3,287	1899	97	85	98	95	94	99	82	74	53	86	104	118	1,08
1882	323	248	289	234	226	179	126	102	79	137	149	162	2,254	1900	143	151	131	137	152	106	82	58	42	56	103	115	1,27
1883	180	140	153	149	140	114	96	114	115	136	151	165	1,653	1901	130	99	136	137	123	117	70	55	59	78	97	126	1,22
1884	128	147	131	147	145	136	100	109	97	209	237	252	1,838	1902	122	119	100	129	106	99	87	66	45	64	89	116	1,14
1885	178	209	190	181	181	177	151	117	135	155	213	293	2,180	1903	128	103	120	120	132	108	95	66	67	72	88	133	1,23
1886	252	236	236	196	198	194	193	153	133	254	314	336	2,695	1904	147	130	126	178	143	110	73	62	65	59	55	124	1,27
1887	321	263	285	271 '	323	275	181	125	190	228	279	315	3,056	1905	100	95	79	100	95	65	62	50	43	46	47	78	86
1888	210	248	308	213	280	221	183	145	07	132	174	233	2,553	1906	107	127	141	116	119	79	65	20	27	41	69	72	98

Deaths from Pulmonary Tuberculosis in Former New York City by Sex and Age.

Year.	To	tal.	Unde Ye:		and U		and U		Total U		and U	ears Jnder ears.	15 Y and U 25 Ye	Inder	25 Y and Y 45 Y	lears Under ears.	45 Y and U 65 Ye	nder	65 Y and 6	ears Over.
	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1866	1,791	1,690	41	37	27	30	45	24	113	91	46	65	318	360	813	771	412	289	89	114
1867	1,648	1,608	45	32	31	30	21	39	97	101	46	37	269	324	- 779	775	368	294	89	77
1868	1,812	1,602	21	11	34	32	24	25	79	68	37	45	301	344	869	766	426	292	100	87
1869	1,748	1,616	2	4	22	21	28	29	52	54	42	40	270	334	857	796	419	286	108	106
1870	2,097	1,933	22	16	32	21	30	31	84	68	40	52	314	393	995	927	533	382	131	111
1871	2,233	1,953	39	35	40	29	32	29	111	93	47	47	343	350	1,130	988	494	359	108	116
1872	2,176	2,098	26	18	29	29	36	34	91	81	37	56	366	378	1,108	1,074	474	385	100	121
1873	2,121	2,013	28	19	15	23	30	32	73	74	26	52	348	418	1,039	992	507	357	128	120

Year.	Tot				TI	IE	CI	TY	RE	CO	RD	•			SATU	RDAY,	NOV	EMBER	30, 1	907.
		tal.	Unde		and Un	ier	and U	ears Under ears.	Total U		and	Years Under Years.	and U	nder	and	Years Under Years.	45 and 65	Years Under Years.		Years Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F
874	2,096	1,938	19	23	21	23	25	21	65	67	35	61	338	344	1,059	966	497	387	102	- 11
875	2,200	1,972	22	28	22	21	32	25	76	74	49	65	368	439	1,084	932	515	345	108	11
876	2,192	2,002	23	21	26	22	22	32	71	75	48	68	380	434	1,099	941	483	375	111	10
877	2,051	1,993	27	20	23	24	22	39	72	74	32	42	343	450	974	937	516	376	114	11
878	2,256	2,210	44	34	29	26	31	28	104	88	25	45	381	456	1,060	1,062	573	431	113	12
879	2,280	2,063	36	28	31	20	28	18	95	66	28	44	389	472	1,127	1,006	538	369	103	10
880,	2,446	2,260	48	30	23	22	29	19	100	71	43	63	432	486	1,196	1,133	561	378	114	12
881	2,913	2,399	39	29	24	28	26	19	89	76	47	66	478	499	1,472	1,259	674	385	153	11
882	2,841	2,406	43	48	20	29	28	40	91	117	34	59	471	507	1,431	1,117	667	471	147	13
383	2,847	2,443	33	32	26	26	26	29	85	104	33	56	487	528	1,416	1,189	698	440	128	14
885	2,835	2,400	57	56	22	18	36	30	103	85	36 36	55 63	498	460	1,399	1,221	662	428	137	13
886	3,149	2,394	68	40	35	21	28	24	131	85	38	48	488	505	1,618	1,173	721	389	153	10
887	3,000	2,260	55	44	28	41	23	15	106	100	43	52	520	476	1,565	1,133	643	378	123	12
388	3,013	2,247	39	40	16	18	23	18	78	76	34	66	480	523	1,631	1,111	682	379	108	9
889	2,990	2,189	32	19	30	23	17	17	79	59	44	66	462	511	1,599	1,105	700	332	106	11
890	3,160	2,332	30	31	24	23	22	21	76	75	22	70	503	498	1,710	1,199	725	405	124	8
891	2,994	2,166	27	. 25	15	16	19	16	61	57	30	62	489	481	1,635	1,116	640	355	139	9
892	2,917	2,116	32	29	29	21	24	23	85	73	34	61	479	466	1,547	1,088	654	336	118	9
893	3,075	2,049	31	29	27	17	26	27	84	73	35	67	574	469	1,584	1,012	675	337	123	9
894	2,821	1,837	31	20	18	15	24	20	73	55	. 35	47	456	430	1,520	977	636	258	101	7
895	3,113	2,092	45	26	29	27	22	16	96	69	21	53	482	488	1,738	1,077	660	318	116	8
896	2,991	2,003	24	21	26	15	13	21	63	57	24	56	469	496	1,684	1,014	636	291	115	8
897	2,878	1,965	28	23	24	17	13	23	65	63	28	41	484	443	1,573	1,012	633	318	95	8
398	2,990	1,967	29	13	18	12	9	19	56	44	28	48	449	393	1,643	1,037	692	344	122	10
399	3,247	1,991	37	28	16	13	24	26	77	67	33	50	438	440	1,879	1,051	675	288	145	9
900	3,223	2,055	28	11	22	10	27	18	77	39	29	48	415	380	1,830	1,172	734	308	138	7
001	3,306	1,927	14	12	15	13	18	16	47	53	25	48	374	441	1,934	1,054	723	248	91	8
03	3,245	2,018	17	8	9	14	15	16	47	38	30	59	436	461	1,896	1,128	759	267	8 ₃	6
04	3,485	2,026	26	17	16	20	25	18	67	55	46	68	466	498	2,054	1,083	772	268	80	5
05	3,596	2,082	36	12	18	24	25	23	79	59	30	78	480	477	2,082	1,114	840	303	85	5
06	3,814	2,086	28	20	29	17	24	22	81	59	38	67	454	486	2,110	1,113	1,006	318	125	4

Year.	Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
871	403	375	407	371	345	292	347	306	328	345	308	359	4,186	1889	445	430	485	426	417	376	422	440	422	412	384	520	5,179
872	343	390	434	380	359	310	351	345	319	346	324	373	4,274	1890	797	512	476	418	422	368	428	413	424	400	394	440	5,492
873	388	354	405	385	371	300	295	307	333	318	343	335	4,134	1891	468	378	521	508	478	344	387	399	421	414	407	435	5,160
874	313	340	356	375	350	270	284	322	331	364	344	385	4,034	1892	468	415	511	516	451	363	407	362	389	360	364	427	5,03
875	386	374	428	428	333	274	325	309	317	333	303	362	4,172	1893	412	402	567	554	474	394	393	418	333	386	367	424	5,124
876	358	350	415	344	339	309	373	324	347	358	337	340	4,194	1894	421	389	438	368	388	366	395	381	350	358	384	420	4,658
877	356	337	361	357	342	297	338	323	318	341	329	345	4,044	1895	489	464	502	458	414	365	389	442	401	450	412	419	5,205
878	391	355	417	353	355	345	354	384	342	393	374	403	4,466	1896	460	415	466	468	495	409	364	404	408	383	326	396	4,994
879	417	389	408	393	332	301	346	286	334	367	389	381	4,343	1897	422	459	406	400	381	363	392	420	390	444	369	397	4,843
880	402	375	412	394	365	351	385	380	376	408	399	459	4,706	1898	387	358	443	416	439	376	423	379	410	413	437	476	4,957
881	494	424	468	484	450	357	407	396	428	465	477	462	5,312	1899	493	475	514	465	435	394	416	416	353	410	433	434	5,238
882	456	437	479	491	474	376	443	383	400	464	404	440	5,247	1900	440	442	509	527	508	420	423	399	370	427	386	427	5,278
883	463	440	553	493	473	363	450	396	371	406	409	473	5,290	1901	529	440	492	477	435	421	410	410	398	428	412	381	5,233
884	412	432	470	447	433	416	406	419	397	467	470	466	5,235	1902	412	430	468	436	406	401	404	366	357 ~	434	394	385	4,893
885	475	450	530	475	443	376	401	415	415	439	380	397	5,196	1903	502	481	494	482	454	374	391	406	379	409	418	473	5,263
886	490	412	521	511	495	423	439	443	374	432	459	478	5,477	1904	453	487	553	550	534	397	439	436	382	416	444	420	5,511
887	522	438	486	504	437	411	390	386	404	425	419	438	5,260	1905	485	449	580	531	502	449	427	416	440	444	465	490	5,678
1888	412	445	588	520	463	351	413	408	350	461	398	451	5,260	1906	502	487	560	510	520	486	460	479	428	486	467	515	5,900

Deaths from	Cancer	in	Former	City of	New	York.	hw	Age and Se	v

						- 4						-								
Year.	Tot		Under	ır.	and U	ears.		Inder ears.	Total U	ars.	and I	ears Under ears,	and U	nder ars.	and U	Tears Under ears.	and U	lears Inder ears.	and	ears Over.
	M.	F. '	M.	F.	M.	F.	M.	F	M.	F.	'M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1866	74	195		2				2		4	3	2	1	5	13	58	36	96	21	-30
1867	89	204	1	**	**	**	**	**	1			2	2		26	73	46	97	14	34
1868	84	231		.,			1	1	1	1		1	3	3	20	68	44	109	16	49
1869	78	226					1	1	1	1			1	1	21	76	37	111	18	37
18:0	110	245	117								1	. 2	1	4	23	72	70	122	15	45
1871	93	242			**			1		1		3		2	22	79	56	127	15	30
1872	114	278		1	**	1	2	1	2	3	1	**	3	3	23	98	61	131	24	43
1873	138	287	1	**	2		**	2	3	2	1		5	6	38	93	68	142	23	44
1874	124	292	**		1		2		3		4	1	5	5	23	92	63	149	26	45
1875	147	277	**					**			2	1	3	4	25	84	81	149	36	39
1876	152	307	**	**	1	1		1	1	2		1	5	5	31	86	90	149	25	6,
1877	153	342	1					**	1		2	1	- 5	6	33	102	77	163	35	70
1878	182	388	2								1	1	3	2	37	102	104	209	35	74
1879	193	379					2				2	1	4	5	39	106	102	184	44	83

4 . . .

Year.	To	tal,	Unde Yea		and U	Inder	and U	Inder	Total U		and U	ears Inder ears.	and U	nder	and U	ears Inder ears.	45 Y and U 65 Y	ears Inder ears.	65 Y and	Vears Over.
	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	м.	F.	М.	F.	M.	F.
1880	219	440			1	r	3	1	4	2	3		4	4	45	119	117	235	46	80
1881	244	462		1		1	2	3	2	. 5	1	1	7	4	49	127	129	239	56	86
1882	265	467		1	1		2	1	3	2	2 .		10	5	58	141	137	235	55	84
1883	221	457	1			1	2	1	3	2	3	2	4	5	36	144	128	219	47	85
1884	263	468	100	1				2	2	3	4.0	1	7	3	46	124	152	237	56	100
1885	228	526		1		1	2	**	2	2		5	4	2	45	146	124	287	53	8.4
1886	257	522		1		1	4	2	4	4	1	2	4	9	53	136	145	262	50	109
1887	278	554					1	**	1		1	3	10	6	63	148	137	309	66	88
1888	284	586			1	1	. 1	1	2	2	1	1	1	9	57	160	157	304	66	110
1889	276	572			1				2		4	1	4	8	52	164	149	297	65	102
1890	356	598	r	1			3	2	4	3	3	x	6	7	70	171	186	298	87	113
1891	318	584	1		1		1		3		4	4	2	9	70	148	172	306	67	117
1892	356	640			**	2	3	2	3	4	6		8	6	60	177	197	337	82	116
1893	383	610	1	1	2	1	2	2	5	4	1	4	3	4	87	152	191	319	96	127
1894	362	660		1			4	2	4.	3	2	4	5	5	65	158	208	345	78	145
1895	391	639	1	3	2		3	4	6	7	2	5	4	7	65	164	216	316	98	140
1896	449	692		3	1	1/	3	2	4	6	1	2	7	9	93	168	238	350	106	157
1897	474	743		i			5	1	5	2	1	2	8	5	83	160	266	407	111	167
1898	497	763			**	3		4		7	6		6	11	90	198	290	389	105	158
1899	509	812	1	2			4	**	5	2	2	6	9	9	81	200	283	428	129	167
1900	558	915	1	2	1		1	1	3	3	8	1	17	9	93	222	305	465	132	215
1901	629	946		1		1	7	2	7	4	4	**	11	15	129	241	336	487	142	199
1902	590	946	1	1	2	1	3	6	6	8	5	3	9	11	122	225	325	491	123	208
1903	655	1,028	3	1	1	1	3	3	7	5	6	3	9	12	118	237	343	551	172	. 220
1904	710	1,030	1	4	2	2	5	6	- 8	12	3	4	, 11	13	126	249	405	519	157	233
1905	768	1,066	1	2	1		2	3	4	5	5	5	18	10	143	266	385	544	213	236
1906	766	1,090	. 2	2	1		1	. 4	4	6	9	2	16	15	135	245	399	598	203	224

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1871	28	20	35	26	34	20	34	24	26	24	40	24	335	1889	58	51	76	68	72	72	77	85	68	73	70	78	848
872	30	34	31	26	44	37	26	34	34	29	32	35	392	1890	92	61	80	78	102	80	78	72	81	65	79	86	954
873	40	29	32	35	31	32	50	38	45	30	29	34	425	1891	60	63	102	79	81	60	65	68	81	86	59	98	902
874	41	33	37	39	38	32	30	32	36	40	31	27	416	1892	76	83	90	82	82	81	87	85	84	86	83	77	996
875	36	30	45	40	36	40	38	33	37	29	33	26	423	1893	63	80	92	89	86	66	98	96	70	84	77	92	993
876	32	36	37	27	42	45	36	36	40	34	37	57	459	1894	78	75	86	92	85	89	104	93	69	79	79	93	1,022
877	40	39	42	38	41	33	46	52	40	38	39	47	495	1895	99	78	86	86	74	68	106	105	81	95	67	85	1,030
878	44	47	51	45	48	55	56	41	58	46	40	39	570	1896	97	96	91	103	93	94	93	101	79	93	105	96	1,141
879	44	42	48	50	44	47	57	57	50	41	43	49	572	1897	107	118	105	88	109	83	98	114	88	113	95	99	1,217
880	45	54	67	55	62	55	61	49	52	50	56	53	659	1898	90	83	105	107	110	101	120	113	98	115	117	101	1,260
.881	66	58	44	60	73	60	46	59	56	70	55	59	706	1899	96	88	112	114	106	120	112	111	101	119	118	124	1,321
882	75	48	63	66	51	68	69	57	53	67	52	63	732	1900	135	133	120	133	122	121	119	125	121	119	122	103	1,473
883	50	52	56	50	71	63	57	62	57	51	58	51	678	1901	149	114	142	124	140	147	147	111	117	125	122	137	1,575
884	58	57	74	65	69	61	61	61	46	53	61	65	731	1902	116	100	123	130	168	127	124	138	115	117	136	142	1,536
1885	55	68	67	46	62	69	66	60	56	68	69	68	754	1903	165	125	153	147	128	140	147	141	124	132	123	158	1,683
886	53	73	78	62	65	70	62	67	49	69	64	67	779	1904	143	134	157	137	153	113	131	146	174	145	159	148	1,740
1887	82	49	59	70	63	80	68	73	66	9.2	56	74	832	1905	145	132	165	169	143	150	157	143	141	164	166	159	1,834
888	75	67	80	89	78	78	46	62	73	84	64	74	870	1906	156	154	142	160	144	136	161	167	159	157	147	173	1,856

Deaths from Bronchitis in Former City of New York, by Sex and Age.

Year.	Tot	al.	Unde Yes		and U	nder	and U	Inder	Total U	nder ars.	and U	ears Jnder ears.	and U	nder	25 Y and U 45 Y	Inder	and U 65 Y	Inder	65 Y and	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.	М.	F.	M.	F.	M.	F
1866	301	256	163	123	46	29	18	24	227	176	6	9	2	2	13	20	27	20	26	3
1867	375	320	184	140	81	53	34	25	229	218	8	6	3	6	23	23	25	25	17	4
1868	403	400	186	176	63	58	36	45	285	279	10	10	5	1	28	18	33	39	42	
1869	465	412	231	155	71	76	56	48	358	279	7	11	1	1	22	16	39	29	38	1
1870	413	442	243	186	52	60	31	44	326	290	7	11	4	5	12	21	29	33	.35	1
1871	492	472	259	238	79	67	35	44	373	349	12	6	3	5	15	12	30	36	59	(
1872	504	536	269	234	75	89	41	36	385	359	5	13	2	4	20	18	40	44	52	ç
1873	525	543	295	258	79	75	33	42	407	375	8	11	4	6	19	16	34	38	53	ç
1874	533	532	278	238	68	71	41	47	387	356	5	10	1	5	28	16	50	37	62	10
1875	585	526	307	233	97	54	45	44	449	331	6	9	1	1	16	19	48	44	65	14
1876	629	585	331	241	89	71	44	44	464	356	8	8	2	4	15	16	47	53	93	14
1877	462	571	238	234	64	61	30	39	332	334	11	9	1	1	22	24	36	49	60	15
1878	610	574	334	268	97	67	49	42	480	377	10	10	1	3	20	18	37	54	62	11
1879	593	670	305	292	75	73	42	43	422	408	13	12	3	2	18	24	53	49	84	. 17
1880	704	671	352	283	84	93	46	48	482	424	12	11	7	2	31	31	68	69	104	13
1881	778	733	404	311	108	103	68	69	580	483	17	15	7	4	27	23	46	73	101	12
1882	787	796	426	344	110	123	61	80	597	547	11	15	4	6	23	20	62	60	90	14
1883	763	672	386	279	100	96	49	37	535	412	13	6	5	4	30	28	59	82	121	1.
1884	723	762	377	304	99	101	41	40	517	445	10	19	8	6	27	29	64	97	97	1

12436	,		THE	CITY	RECO	RD.		SATURDAY,	NOVEMBER	30, 1907.
Year.	Total.	Under 1 Year.	1 Year and Under 2 Years.	2 Years and Under 5 Years.	Total Under 5 Years.	5 Years and Under 15 Years. M. F.	15 Years and Under 25 Years.	25 Years and Under 45 Years.	45 Years and Under 65 Years.	65 Years and Over

Year.	Total.		Under 1 Year.		and Under 2 Years.		and Under 5 Years.		Total Under 5 Years.		and Under 15 Years.		and Under 25 Years.		and Under 45 Years.		and Under 65 Years.		65 Years and Over.	
	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F. *	M.	F.	M.	F.	M.	F.
1885	801	804	388	327	129	92	52	47	569	466	11	11	8	16	38	28	71	78	104	205
1886	872	829	413	324	122	112	77	68	612	504	14	9	8	9	53	43	81	91	104	173
1887	926	912	453	361	114	102	63	79	630	542	12	21	15	15	48	47	99	110	122	177
1888	955	937	518	398	102	115	49	63	669	576	14	13	13	8	36	47	106	101	117	192
1889	908	906	459	362	137	120	62	56	658	538	13	11	15	23	46	50	73	114	103	170
1890	965	1,022	498	447	145	154	78	65	721	666	19	14	11	16	49	53	86	118	79	155
1891	924	912	494	403	147	122	59	67	700	592	15	17	8	9	46	39	74	111	81	144
1892	930	824	500	385	138	139	78	64	716	588	17	12	12	10	50	42	70	79	65	93
1893	756	821	425	408	106	108	62	65	593	581	7	13	7	14	44	35	54	75	51	103
1894	675	654	358	307	141	99	61	62	560	468	7	15	7	11	16	27	40	53	45	80
1895	790	846	461	406	124	158	63	65	648	629	11	15	5	3	26	20	47	74	53	105
1896	656	636	398	323	102	117	55	57	555	497	10	9	5	4	17	14	37	49	32	63
1897	537	552	328	258	83	87	40	44	451	389	6	16	1	4	13	15	30	45	36	83
1898	553	574	327	283	94	92	29	36	450	411	7	14	3	5	12	24	37	41	44	79
1899	582	550	377	279	90	82	38	45	505	406	9	18	5.	4	6	19	28	46	29	57
1900	545	548	298	261	96	8 r	45	45	439	387	8	13	7	6	20	16	26	39	45	87
1901	433	501	262	244	69	81	34	38	365	363	8	5	5	8	15	13	13	33	27	79
1902	498	522	320	280	68	74	34	46	422	400	5	4	5	3	13	10	25	29	28	76
1903	413	446	222	206	77	84	34	32	333	322	6	8	1	5	5	15	33	33	35	63
1904	505	539	283	250	95	97	39	44	417	391	6	10	2	2	11	14	34	34	35	88
1905	411	453	251	229	72	65	26	26	349	320	4	15	2	4	3	4	20	32	33	78
1906	346	374	219	181	54	71	15	24	288	276	2	. 2	1	3	6	3	13	26	36	54

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
871	93	88	97	89	101	59	53	52	69	81	8r*	101	964	1889	182	217	234	159	133	107	96	104	105	120	129	128	1,81
872	95	101	135	134	87	64	59	38	57	73	80	117	1,040	1890	391	190	229	201	163	116	94	98	96	121	136	152	1,98
873	122	123	107	110	98	54	54	58	44	56	114	128	1,068	1891	174	127	195	333	179	120	82	82	107	124	117	196	1,83
874	111	111	127	108	94	52	47	51	67	76	101	120	1,065	1892	221	179	206	195	185	125	106	57	107	104	132	137	1,75
875	149	110	137	110	93	55	57	44	69	90	90	107	1,111	1893	181	135	241	229	134	80	68	76	82	93	101	157	1,57
876	120	139	178	107	81	65	58	82	63	89	99	133	1,214	1894	175	156	128	136	97	103	62	63	71	95	107	136	1,329
877	115	127	129	94	72	59	50	42	56	88	90	111	1,033	1895	229	195	180	167	126	86	66	70	74	118	144	181	1,636
878	119	130	142	123	113	67	57	49	69	95	122	98	1,184	1896	142	131	179	177	125	67	58	80	72	88	76	97	1,292
879	159	130	145	114	95	63	64	51	71	111	126	134	1,263	1897	100	124	125	109	103	77	51	54	72	86	83	105	1,089
880	106	122	140	138	131	102	43	82	78	112	126	195	1,375	1898	112	135	147	102	90	55	45	50	72	91	90	138	1,12
881	166	169	153	159	120	93	81	69	86	106	135	174	1,511	1899	134	123	110	105	88	68	53	46	66	101	124	114	1,13
882	218	169	188	152	167	103	78	67	76	92	133	140	1,583	1900	137	169	177	145	- 85	43	39	32	36	69	84	77	1,09
883	155	132	183	174	145	79	59	68	77	87	110	166	1,435	1901	112	97	115	104	69	49	27	43	44	68	74	132	934
884	158	131	148	137	124	84	79	78	75	118	160	193	1,485	1902	153	119	104	103	92	40	43	51	61	71	93	90	1,02
885	157	180	210	163	137	105	93	76	89	93	124	178	1,605	1903	88	97	93	96	91	49	37	37	53	53	76	89	85
886	203	178	190	127	119	88	85	76	101	142	164	228	1,701	1904	135	129	137	113	85	59	51	33	60	67	79	96	1,044
887	218	168	206	180	159	109	81	98	132	151	142	194	1,838	1905	104	93	110	105	74	62	45	43	35	52	69	72	864
888	191	200	227	181	168	120	111	97	111	144	158	184	1,892	1906	112	90	116	73	58	39	38	23	25	48	45	53	720

Deaths from	Pneumonia in	Former	New V	ork City	hv	Age .	and	Sev	

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.		Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years,		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Year and Ove	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	F.	M.	F.	M.	F.
1866	764	624	219	194	102	87	75	62	396	343	19	17	47	41	123	87	126	79	53	5
1867	773	66 r	270	182	112	119	79	85	461	386	33	24	37	30	95	80	109	77	38	6
1868	870	798	303	263	127	144	78	89	508	496	26	27	29	48	139	93	121	80	47	5
1869	1,144	956	318	302	168	152	146	127	632	581	64	39	48	30	164	116	181	97	55	9
1870	1,046	790	295	225	146	118	86	69	527	412	31	26	44	33	183	137	183	100	78	8
1871	1,022	812	251	228	153	116	102	102	506	446	28	39	35	32	183	106	177	105	93	8
1872	1,238	912	320	221	171	122	124	100	615	443	37	57	54	31	224	131	221	142	87	10
1873	1,357	971	367	295	170	123	100	100	637	518	41	42	72	44	277	139	228	127	102	10
874	1,335	1,063	356	277	167	135	92	105	615	517	44	45	58	42	252	151	263	165	103	14
875	1,558	1,244	356	299	201	181	106	117	663	597	46	42	65	56	334	179	319	177	131	19
876	1,359	1,183	352	294	194	168	141	114	687	576	57	43	51	58	234	177	229	168	101	16
877	1,171	977	292	268	165	125	103	91	560	484	41	38	59	49	206	128	209	160	96	11
878	1,204	1,084	310	280	200	179	139	126	649	585	43	42	46	35	170	133	192	149	104	14
1879	1,411	1,143	351	239	161	161	126	120	638	520	56	51	69	42	261	163	246	194	141	17
880	1,552	1,270	370	293	184	188	150	126	704	607	53	59	77	52	293	188	289	211	136	15
881	1,836	1,425	400	307	232	203	191	157	823	667	67	72	77	53	360	213	357	227	152	19
882	1,976	1,496	441	329	250	210	192	168	883	707	61	69	114	61	429	219	322	261	167	*17
883	1,947	1,462	370	305	210	175	146	143	726	623	66	73	112	74	448	243	438	251	157	19
884	1,767	1,392	378	328	216	215	161	124	755	667	61	66	82	67	388	209	338	234	143	14
885	2,043	1,607	398	323	252	196	170	164	820	683	51	57	123	82	454	277	396	315	199	19
886	2,063	1,593	456	353	259	193	148	150	863	696	66	70	126	79	463	256	389	268	156	22
887	2,059	1,648	448	352	232	198	169	177	849	727	61	69	119	81	472	268	377	283	181	22
888	2,422	1,866	480	435	286	232	218	177	984	844	87	81	150	76	537	305	481	334	183	22
1889	2,306	1,769	502	422	266	230	187	160	955	812	82	59	136	114	581	279	406	313	146	10

Year.	To	tal.	Unde Yea	r i	and U		and U	ears Jnder ears.	Total U	Inder ars.	and l	ears Under ears,	and U	nder	25 Y and U 45 Y	Inder	45 Y and U 65 Ye			ears Over
	М.	F.	M.	F.	M.	F.	M.	F.	- M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1890	2,759	2,230	552	435	310	325	207	209	1,069	969	84	69	183	127	720	416	516	393	187	250
1891	3,258	2,560	739	504	384	343	287	249	1,410	1,096	121	84	182	137	719	416	552	484	274	343
1892	3,363	2,478	730	598	440	362	274	243	1,444	1,203	113	102	191	122	816	378	570	407	229	266
1893	3,692	2,795	721	591	371	323	261	243	1,353	1,157	99	106	233	145	985	485	769	557	253	345
1894	2,712	2,013	660	496	356	286	243	205	1,259	987	72	78	139	100	601	319	435	318	206	211
1895	3,146	2,605	802	609	484	433	272	268	1,558	1,310	93	97	163	124	638	367	463	383	231	324
1896	3,046	2,337	802	620	445	370	259	246	1,506	1,236	82	79	147	91	594	301	508	368	209	262
1897	2,585	2,036	736	595	386	307	236	167	1,358	1,069	70	73	108	90	482	259	374	275	193	270
1898	2,861	2,440	759	607	428	406	259	229	1,445	1,242	76	95	118	97	562	349	415	380	244	277
1899	2,936	2,482	800	637	441	398	256	259	1,497	1,294	77	80	122	115	536	312	463	366	241	315
1900	3,715	3,032	953	689	544	491	327	323	1,824	1,503	100	128	180	120	693	384	604	499	314	398
1901	3,137	2,655	783	631	432	441	242	236	1,457	1,308	93	93	122	115	650	373	541	431	274	33
1902	3,081	2,760	930	756	502	510	258	290	1,690	1,556	90	115	102	113	487	323	470	336	242	317
1903	3,437	2,871	841	696	462	405	257	259	1,560	1,360	99	106	137	93	631	377	657	516	353	419
1904	4,629	3,400	877	763	560	496	299	245	1,736	1,504	122	144	167	108	1,095	428	1,038	668	471	548
1905	3,395	2,744	866	679	469	423	248	214	1,583	1,316	86	89	123	91	674	308	622	514	307	426
1906	3,705	2,977	1,000	851	577	487	272	233	1,849	1,571	88	73	122	72	653	345	655	462	338	454

Deaths fro	m Pne	imonia 1	Former	New	Vork	City	hv	Months	

* Deaths from Diseases of Nervous System, Former New York City, by Months.

Year.	Tan	Feb	Mar.	April	May	Tune	Tuly.	Aug	Sept	Oct.	Nov.	Dec.	Total.	Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	. To
rear.	Jan.	T CO.	Mai.	21p111	. may.	June	July.	2108.	- Copie						-									-		1.00.00	
1	227	195	213	188	170	94	79	63	108	157	148	192	1,834	1871	227	201	246	240	246	215	248	252	188	208	179	206	2,6
2	198	267	316	264	228	124	89	81	87	134	149	213	2,150	1872	207	274	350	337	342	273	348	242	198	184	184	220	3,
73	224	228	280	248	269	155	116	109	105	146	229	219	2,328	1873	279	227	314	253	234	194	257	224	227	208	166	194	2,
74	239	245	279	323	242	160	110	97	107	128	214	254	2,398	1874	218	209	215	210	209	207	226	213	172	193	179	181	2,
5	410	297	364	278	265	149	138	113	135	174	225	254	2,802	1875	209	188	227	218	199	196	252	219	204	157	151	197	2
6	255	321	370	282	241	149	114	105	118	156	195	236	2,542	1876	209	218	222	227	181	169	319	209	177	172	170	184	2
7	263	212	278	243	194	115	105	108	109	154	176	191	2,148	1877	189	178	200	193	218	204	260	198	197	190	170	160	2
8	280	247	306	249	222	143	84	103	106	141	181	226	2,288	1878	207	167	227	206	154	196	288	210	180	176	163	184	2,
9	341	251	330	274	214	126	103	92	114	171	268	270	2,554	1879	245	193	230	175	203	213	250	194	186	190	162	205	2
80	261	248	266	375	340	163	127	108	134	205	246	349	2,822	1880	218	199	229	221	271	259	236	217	198	207	211	206	2,
31	366	371	391	393	282	176	151	134	157	200	254	386	3,261	1881	277	269	312	334	276	225	270	248	224	234	215	256	3
2	376	370	453	393	464	234	169	103	135	191	225	359	3,472	1882	265	241	252	273	244	250	305	218	211	194	191	221	2
3	357	361	526	472	345	213.	133	122	127	182	240	331	3,400	1883	229	226	267	249	234	213	267	205	221	182	206	228	2
4	348	339	349	304	268	186	167	150	156	209	298	385	3,159	1884	238	222	267	275	232	274	256	258	222	217	203	247	2
5	376	486	587	512	337	229	150	139	149	160	217	308	3,650	1885	261	281	304	269	256	260	311	233	222	213	242	243	2
5	387	354	506	374	256	184	176	160	125	258	376	500	3,656	1886	258	253	290	293	266	251	296	247	204	240	217	266	
7	480	370	394	466	390	164	137	119	205	260	347	375	3,707	1887	261	277	300	286	318	292	348	263	253	269	228	278	3
8	460	505	648	426	409	222	175	168	203	335	318	419	4,288	1888	212	267	286	327	298	337	296	338	319	264	256	329	3
9	405	394	534	508	352	229	147	161	205	270	308	562	4,075	1889	300	303	369	302	289	300	322	255	243	243	257	308	3
0	,111	434	487	465	412	276	205	223	196	285	362	533	4,989	1890	303	262	305	313	271	272	296	251	218	246	204	269	3
1	502	478	646	1,112	563	352	237	208	242	296	508	674	5,818	1891	282	258	313	336	221	333	233	315	260	249	251	290	3
2	648	609	685	691	711	385	301	255	254	340	464	498	5,841	1892	293	298	372	333	336	317	397	265	245	254	246	299	3
3	687	613	1,089	1,082	653	359	252	223	234	287	379	629	6,487	1893	306	300	405	404	348	306	353	303	233	275	236	281	3
4	680	551	525	512	425	314	230	206	224	286	333	439	4,725	1894	323	303	330	315	300	319	326	226	253	238	252	281	3
5	835	609	618	681	541	311	231	268	267	366	449	575	5,751	1895	316	282	322	322	300	310	297	292	274	235	241	238	3
6	633	619	739	803	522	284	257	218	298	340	324	346	5,383	1896	268	272	324	301	297	277	316	355	238	249	218	243	3
7	422	494	627	489	401	303	228	236	259	358	353	451	4,621	1897	273	291	340	324	259	290	283	240	270	253	228	294	3
8	497	543	560	536	496	317	264	244	309	376	447	712	5,301	1898	314	285	283	300	271	250	250	249	239	228	222	264	3
	623	584	580	556	478	324	292	231	298	365	438	648	5,418	1899	311	272	320	274	258	270	244	242	231	242	233	293	
	713	893	1,117	938	634	374	297	240	247	380	405	509	6,747	1900	274	297	348	326	292	213	242	181	203	229	227	259	
	790	493	724	612	500	336	245	231	267	391	498	705	5,792	1901	303	245	362	329	306	289	326	251	232	240	232	289	
2	2	776	659	574	571	322	285	257	306	366	407	459	5,841	1902	311	327	325	349	258	242	281	242	228	282	260	294	2
		745	742	645	616	370	321	263	268	351	548	747	6,308	1903	299	275	284	327	313	257	226	216	210	272	271	291	:
				1,119	754	381	291	275	281	382	525	813	8,029	1904	352	307	415	549	572	416	326	263	266	286	299	391	
5		684	737	701	553	375	299	261	237	340	523	625	6,139	1905	435	435	619	621	500	347	312	229	268	261	246	318	4
6		679	883	822	668	412	276	279	314	410	505	685	6,682	1906		345	330	404	375	264	233	245	259	287	261	279	3

^{*} Includes deaths from cerebro-spinal meningitis from 1901 on.

Deaths from Bright's Disease in Former New York City, by Sex and Age.

Year.	Tot	al.	Unde Ye		and U	ear Inder ears.	and I	ears Inder ears.	Total U	Inder ars.	5 Y and U 15 Y	ears Inder ears.	and U	nder	25 Y and U 45 Y	Inder	45 Y and U 65 Ye	Inder	65 Y and	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1866	242	170	. 2	2	2	3	11	4	15	9	14	11	23	26	94	53	76	47	20	24
1867	225	178	1		2		5	1	8	ı	11	6	18	29	84	87	86	41	18	1
1868	301	233	1	1	3	2	10	9	14	14	8	10	25	25	122	100	89	56	43	3
1869	330	227	2	2	3	2	14	7	19	11	21	19	25	31	117	71	112	66	36	2
1870	432	355	2	2	5	1	13	7	20	10	14	5	39	43	144	139	150	115	65	4.
1871	501	446	2	1	3	2	16	3	21	6	14	14	29	33	180	188	184	159	73	4
1872	523	426	3		3	1	. 7	7	13	8	16	21	36	35	201	168	185	140	72	5
1873	431	445			2	1	6	11	8	12	13	9	27	36	158	182	173	149	52	5
1874	4,29	399	2	2	2	2	6	8	10	12	12	11	18	36	146	163	185	113	58	6.
1875	461	448	2	4	4.5		5	5	7	9	7	9	27	42	166	175	193	152	61	6
1876	516	442	1		1	3	6	4	8	7	16	9	27	31	183	165	203	171	79	59

Year.	To	tal.	Unde	r i	and U		and U	nder	Total U		and U	ears Jnder ears.	and U		25 Y and U 45 Y		and U		65 Y and C	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
877	493	430	2		2		9	5	13	5	18	15	22	31	173	166	194	142	73	7
878	499	420	2	1	2	1	15	3	19	5	17	14	29	37	158	130	196	157	80	7
879	526	501	3		1	1	10	8	14	9	14	14	36	35	181	185	208	183	73	7
880	540	489	2	4.5	2		6	1	10	1	15	10	24	28	179	180	233	186	79	8.
881	655	532	6	1	2		9	4	17	5	15	13	31	28	204	179	27.5	208	113	9
382	640	601	2	4	1	2	10	11	13	17	12	12	28	41	230	204	259	218	98	10
383	661	534	2		4	4.	6	2	12	6	14	16	28	28	229	172	266	211	112	10
384	609	554	3	2	3	2	9	8	15	12	14	12	23	44	190	175	259	210	108	10
385	658	530	4	4	1	1	6	2	11	7	14	12	26	45	197	159	278	220	132	8;
386	627	583	3	2	2	1	4	6	9	9	6	8	27	24	191	175	266	229	128	138
387	581	547	1	2	2	2	4	5	7	9	13	8	28	27	182	187	227	204	124	112
88	585	562	1	4	2	1	10	7	13	. 12	18	14	33	41	171	178	244	222	106	95
89	969	794	4	2	4	1	10	5	18	8	11	13	36	49	313	241	408	305	183	178
890	1,089	935		2	1	**	8	7	10	9	10	6	33	57	366	269	450	391	219	203
891	1,153	963	5	2	2	1	12	8	19	11	14	20	49	38	388	318	468	371	215	205
392	1,078	913	6	3	4	1	8	8	18	12	23	16	39	61	349	310	460	352	189	161
393	1,140	931	1	1	1	1	9	5	11	7	13	17	44	40	373	280	463	397	236	190
394	1,023	856	t	1	1	1	10	3	12	5	18	15	46	47	305	275	438	337	204,	177
895	1,082	937	2,	1	1	3	1	7	4	11	8	5	30	35	290	248	493	401	257	237
896	1,173	1,022	1	3	5	3	3	3	9	9	8	12	35	39	308	270	513	406	300	286
897	1,054	1,005	2		1		4	6	7	6	9	12	38	49	268	239	454	412	278	287
898	1,304	1,122	ī	2	3	ī	5	1	9	4	4	15	47	44	323	289	579	4.64	342	306
899	1,496	1,243	5	3	2	1	9	3	16	7	14	22	44	49	393	334	654	538	375	293
000	1,521	1,403	6	6	8	3	15	7	29	16	9	21	44	45	416	388	678	581	345	352
01	1,601	1,350	22	10	6	6	19	15	47	31	26	20	43	47	4.64	362	653	508	368	382
02	1,542	1,272	14	7	4	2	16	10	34	19	15	17	45	51	446	316	666	554	336	315
903	1,522	1,296	1	3	2	2	8	2	11	7	15	18	40	40	386	332	651	547	419	352
04	1,665	1,481	4	6	1	1	3	4	8	11	5	15	47	50	413	368	749	609	443	428
005	1,690	1,485	2	5		1	2	**	4	6	10	10	40	38	381	340	744	615	511	476
906	1,811	1,421	1	1			4		5	1	7	11	39	46	466	372	802	547	492	444

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1871	77	86	101	100	102	89	82	82	82	79	77	73	1,030
1872	72	75	99	113	100	76	81	78	89	73	75	98	1,029
1873	83	72	99	86	91	74	88	87	71	68	90	76	985
1874	85	60	111	70	88	58	65	86	77	83	100	92	975
1875	109	97	90	94	86	81	92	85	82	85	83	113	1,107
1876	86	111	130	106	92	83	106	86	72	83	84	93	1,132
1877	93	65	112	106	104	81	90	85	97	105	107	94	1,139
1878	86	88	108	106	104	96	94	99	76	90	97	117	1,161
879	144	113	119	111	120	101	125	85	92	102	120	116	1,348
880	107	106	87	127	123	127	114	117	106	128	113	163	1,418
881	144	134	135	165	143	136	157	121	119	161	142	144	1,701
882	161	173	161	165	168	146	139	146	146	163	142	146	1,856
883	157	159	156	143	175	146	157	150	154	155	153	149	1,854
884	148	168	164	170	164	160	177	141	160	165	160	151	1,928
885	196	173	183	192	196	170	176	150	164	164	165	166	2,095
886	179	156	212	191	192	142	173	208	186	185	178	212	2,214
887	196	177	207	231	202	216	221	184	176	188	175	202	2,375
888	189	208	238	197	233	179	188	186	138	185	186	215	2,342
889	225	250	216	229	179	171	215	198	151	189	182	232	2,437
890	241	163	219	200	218	207	217	172	162	205	193	213	2,410
1891	220	204	235	270	216	198	202	194	164	196	176	226	2,501
1892	211	205	209	231	218	157	211	186	180	189	191	207	2,395
.893	208	180	286	248	250	194	212	191	186	203	186	227	2,571
1894	244	202	221	214	207	192	191	211	156	200	234	207	2,479
1895	256	231	258	244	232	222	230	178	186	228	223	209	2,697
1896	269	260	265	231	223	204	225	238	169	189	200	212	2,685
1897	235	186	256	250	234	207	172	188	169	189	203	210	2,499
1898	276	266	278	282	260	237	210	220	207	211	242	272	2,961
1899	268	248	267	276	264	257	267	274	221	297	275	280	3,194
1900	326	312	341	293	288	249	264	214	240	274	305	288	3,394
1901	341	273	304	310	233	230	243	179	247	292	313	326	3,291
1902	303	285	295	293	263	254	219	250	224	283	226	303	3,198
1903	344	282	297	276	293	239	232	214	205	244	280	294	3,200
			322	325	304	246	291	270	261	267	328	312	3,610
1904	347	337	369	310	282	284	280	258	249	308	320	295	3,594
1905	334	333	344	313	320	258	258	202	281	272	266	370	3,618

This table includes all acute and chronic forms of nephritis.

Deaths from Heart Diseases, Former New York City, by Months.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1871													
1872	95	77	86	75	84	77	62	64	57	69	77	71	894

Year.	Jan,	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1873	76	56	80	68	77	75,	55	66	73	67	86	81	860
874	77	76	63	88	87	59	63	59	62	87	71	91	88;
875	102	88	70	95	85	77	72	73	67	82	70	104	98
876	86	74	86	84	77	76	90	70	76	94	77	102	99
877	84	61	99	71	75	68	63	61	53	78	72	94	87
878	106	82	106	102	86	80	66	62	91	89	85	113	1,06
879	115	137	121	102	80	93	81	94	81	81	102	77	1,16
880	123	93	104	99	99	94	86	81	74	96	83	121	1,15
881	134	106	109	130	134	96	88	90	102	93	101	106	1,28
882	131	102	130	156	137	121	126	92	86	111	142	143	1,47
883	160	157	146	147	150	125	132	122	118	129	138	169	1,69
884	153	130	158	135	162	129	118	109	111	136	160	161	1,66
885	155	164	172	183	168	135	137	126	121	130	144	165	1,80
886	183	180	186	165	154	154	144	122	119	121	169	107	1,89
887	162	178	196	184	168	143	149	144	188	149	173	184	2,01
888	174	153	176	168	172	143	139	126	148	171	163	147	1,88
889	165	167	189	158	186	135	148	151	132	151	175	213	1,97
890	184	155	196	176	194	162	146	143	122	151	167	182	1,97
891	223	142	235	221	215	177	167	174	146	200	185	200	2,28
892	208	222	232	244	184	182	191	150	144	186	177	210	2,33
893	236	200	252	229	221	192	198	175	150	162	169	195	2,37
894	212	183	195	194	191	185	172	169	160	156	189	164	2,17
895	234	199	231	205	191	149	169	194	145	197	168	215	2,29
896	217	191	242	215	214	165	170	165	185	246	197	189	2,39
897	234	185	256	219	194	162	160	177	178	197	172	212	2,34
898	193	154	168	170	203	195	143	180	201	237	244	291	2,37
899	204	218	233	218	189	137	129	131	154	181	197	212	2,20
900	199	184	222	240	222	168	155	172	148	187	166	213	2,27
901	253	279	338	292	303	276	187	195	214	212	247	292	3,08
902	334	301	316	311	307	240	201	216	186	256	233	232	3,13
903	278	268	277	297	258	243	225	226	200	249	292	251	3,06
904	286	293	297	324	274	184	207	236	197	265	285	340	3,18
1905	242	315	274	287	268	215	213	207	243	257	267	284	3,07
906	290	269	299	333	301	258	290	236	273	283	326	348	3,50

Deaths from Puerperal Diseases, Former New York City, by Months.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1871	29	36	37	36	45	28	23	30	15	30	30	42	381
1872	34	52	52	52	44	33	36	45	22	24	33	49	476
1873	54,	50	55	52	45	31	23	26	18	23	27	23	427
1874	34	47	35	49	44	37	30	32	22	13	17	33	393

Year.	т	otal.		er 1	and 2	Year Under Years.	and 5	Years Under Years.	Total Ur	nder rs.	and U	ears Jnder ears.	and U	ars nder ars.	25 Y and U 45 Y	ears Juder ears.	and U	ears Inder	65 Y and C	ears Over.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F,	M.	F.	М.	F.	M.	F.	M.	F.
1866	221	89		1	1			1	i	2			24	12	139	50	48	18	9	;
1867	4	1					**			+4	1		1		1	1	1			19.1
1868	159	37		4		1		2		7	1	**	23	4	99	18	34	6	2	3
1869	24	2			1			**	1	11	1	1	2		16	1	4	**	**	
1870	181	57	9	4	1	* 1	1		11	5	2	++	15	6	99	- 29	50	11	4	
1871	17	4		1		1	1		1	2	1		1	**	9	I	4	1	1	
1872	220	100	10	6	4		3	2	17	9	6	3	16	11	118	49	59	18	4	1
1873	25	9	2	3	r	2	3	1	6	6	1	**	5	1	10	1	3	1	**	
1874,	15	4	r						1	.,	**	9.6	1	1	8	2	5	**	**	- 0
1875	11	8	1	1				. 2	1	3	1	1		I	4	2	3	**	2	13
1876	155	51	11	2	3	1	3	1	17	4	1	4	5	6	99	16	28	13	5	8
1877	16	5	1	ĭ		1	1	1	2	3	2		'n	1	4		. 5		2	1
1878	40	12	7	2		1		2	7	5	2		2	**	18	- 3	8	2	3	4
1879	34	7	2	2	1				3	2	4				20	2	6	2	1	1
	78	38	11	10	2	2	2		15	12	2	2	8	5	38	5	12	11	3	
1880	108	26	8	6	2	1	4	2	14	9	3	2	12		52	4	24	6	3	
1881				8	1	3	2	2	8	13	1		7	3	44	4	16	4	2	,
1882	78	25	5				5		8	9	1	1	5	5	31	3	11	3	4	
1883	60	23	3	9		1	2	1	11	7	2		8	2	36	9	17	5	1	
1884	75	32	5	5	4		2			6	2	2	4	2	60	11	26	11	3	(
1885	108	38	10	5	1	1			13							1	9	4	1	1
1886	31	11	1	2		1	1		2	3	1	1	4	1	14					
1887	173	43	11	10	3	2	2	2	16	14	2		14	4	105	10	33	11	3	
1888	66	30	9	10	. 2	1	2	1	13	12	1	3	5	1	31	4	11	5	5	
1889	24	8	5	5	1	1	1	. 1	7	7	2	• •	2		7	**	4	1	2	* *
1890	47	15	1	4	1	2	**	2	2	8			5		27	2	8	5	5	• •
1891	78	17	13	6	1	1		**	14	7	3		7	2	34	2	15	3	.5	3
1892	226	94	9	9	3	1	3	1	15	11	2	1	11	8	106	32	85	35	7	7
1893	32	11	3	2	1	3		***	4	5	2		3	. 1	14	3	. 8	2	1	**
1894	89	26	4	4		1	2	3	6	8	1	4	9	3	59	4	12	6	2	1
1895	53	32	9	9	2	2	4	3	15	14			4	1	16	6	16	7	2	4
1896	549	216	17	13	4	4	1	1	22	18	4		20	9	301	58	174	87	28	44
1897	30	9	7	1	3	2	1		11	3	2		2	2	11	2	4	2	**	
1898	270	118	31	32	5	7	1	3	37	42	1	1	5	3	141	22	68	32	18	18
1899	55	40	16	9	2	3	2	2	20	14	2	3	4		16	7	6	10	7	6
	140	65	14	22	2	4	1	5	17	31	3		9	3	66	3	32	21	13	7
1900	506	392	67	38	16	20	7	5	90	63	2	11	10	9	176	66	163	135	65	108
1901	15	10	1	3				1	1	4		1	1		10		1		2	.5
1962			6	11	2	2	1	3	9	16	I	2	2		7	4	16	7	6	6
1903	41	35					1				-1		1		7	i	4.4	4.	44	1
1904	13	9	3	3		1	6	2	4	3 16	3	1	5	3	29	8	25	9	11	14
1905	100	51	18	13	3		1		27		0		,	2	, 18	5	12	6		11
1906	42	33	8	7	2				11	8						3				

Deaths from	n Sunstroke,	Former	New	York	City,	by	Months.	

Dea	ths f	rom :	Sunsti	roke,	Form	er Ne	ew Y	ork C	ity, D	y Mo	ontns.			Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	1879					40	7	18	16				.,,	41
	_	_			-		•		_			-		1880				**	23	35	39	to	9				116
871				ī	4	5	7	4	40				21	1881					9	1	18	49	55	2	**	11	134
872					2	13	236	63	6				320	1882		.,				12	79	11	1		**		103
873					2	6	24	2			4.4		34	1883					1	12	65	5	++	**	2.5	33	83
874						4	12	3					19	1884					1	9	5	17	75		**		107
875						9	7	**	3				19	1885				**	**	6	127	13	**			***	146
876					1	6	187	11	1		**		206	1886					++	4	23	15					42
877					3		8	10					21	1887						1	4	152					216
878						5	43	2	2				52	1888						65	11	19	1		**		96

Cholera. * Yellow Fever. †Hydrophobia.

Deaths by Chloroform, Ether, Illuminating Gas, Railroad, Elevated Railroads, Horse, Cable and Electric Cars, Street Vehicles and Electric Current, in Former New York City From 1870 to 1906, Inclusive.

Year.	Chloro- form.	Ether.	*Illumi- nating Gas.	Steam Rail- roads.	Elevated Rail- roads.	Horse, Cable and Electric Cars.	Sub- way Cars. V	Street Vehicles.	Electric Cur- rent,
1870	t		1	26		45	**	18	
1871	r		7	24		52		37	
1872	1	2	1	29		54		33	
1873	1	**	1	31		46		39	
1874	1		1	22		33		26	
1875		1		28		31	11	30	
1876	r	1		22		26	**	24	
1877				28	144	20		22	
1878	2	2	2	25	1	34	99	42	
1879	2	2	(**	22	23	24	11	35	
1880	1	1	9	22	9	26		45	
1881	1	1	12	34	10	28		29	1
1882			16	38	15	29	**	41	1
1883			11	26 .	10	24		35	
1884	2	2	18	21	9	30		33	
1885	1	1	13	26	14	23	- 44	27	
1886	4	4	27	27	10	25		31	
1887	1	1	22	22	15	21		39	3
1888			32	39	6	14		55	5
1889	1	1	30	59	4	24		57	8
1890	4	4	36	58	3	12		44	4
1891	1	2	35	53	12	47		54	
1892	7	1	52	56	8	49		73	
1893	5	4	38	44	7	44		54	3
1894	2	1	31	48	10	43		85	4
1895	1	2	47	58	7	47		100	
1896	3	1	42	47	9	56		109	
1897	1	3	48	49	8	55		86	
1898	3	1	60	39	11	64		104	
1899	5		65	41	9	91		118	1
1900	5	6	103	44	9	99		117	
1901	4	2	114	31	7	116		114	
1902	4	1	154	60	23	111		158	0
1903	6	2	176	30	19	97		189	
1904	10	7	215	44	14	98		204	1
1905	2	7	218	82	33	104	21	204	
1906	8	4	139	110	14	140	19	246	1

^{*} Previous to 1880, most of the deaths caused by illuminating gas were supposed to be intentional, and were classed with suicides. Since that year the deaths believed to be accidental have been separated from the others.

Deaths from Smallpox, Cholera, Yellow Fever and Hydrophobia, in Former New York City, from 1804 to 1906, Inclusive.

Year.	‡ Small-pox.	Cholera.	* Yellow Fever.	†Hydrophobia
804	169			
1805	62		270	
1806	48			****
1807	29			****
1808	62	****	****	
809	66		13	
810	4			
811	117	****	****	****
1812	21			
1813	2			
1814	2		****	2
1815	94			
1816	179	****		
1817	14	****	1	
1818	19	****		
1819		1111	23	****
1820		****		1
1821	****		3	****
1822		****	166	****
1823	18	****	1	****
1824	394		****	****
1825	40	****		****
1826	58			
1827	149			
1828	93			
1829	16			****
1830	.176			r
1831	224		****	1
1832	89	3,513		****

333	25			1
834	233	971		
835	351	****	****	. 2
836	173			3
837	170			3
338	91			2
839	69	2	2	2
840	234	1		
841	220	****		1
842	181			
843	119		****	****
845	20	6	,	ī
846	425			****
847	53			****
348	585	2	****	7
849	372	5,071		2
850	241	57		4
851	586			
352	516	374	1	1
353	68 r	33	5	i
354	624	2,509	6	
355	107	19	2	4
856	396	8	13	3
57	434	11	****	2
358	511	5	5	****
359	62	9	4	2
860	289	18	2	1111
362	616	12	****	5
363	269	9		1
364	78	9	****	3
865	394 674	10	2	1
366	44	1,137	****	3
867	19	82	3	4
368	26	9	1	1
869	203	6	r	5
870	293	1	3	3
371	805	6	2	7
372	929	4	****	6
373	117	1	3	
374	484	2	****	5
375	1,280	****		****
376	315	****	1	5
377	14	2	1	4
378	2		2	2
380	25 31	****	1	****
381	451			3
382	259			2
383	12			1
884			3	1
885	26	124.	1	****
386	31		1	
887	99			1
388	8 r	****	3	****
389	1	****	****	1
Bgo	2	****	****	1
391	2	****	****	
892	81	9	1	• • • • •
B93	102		****	2
394	154			3
895	10	****	****	3
896	24			
898	1	****	1	3
899	18			1
900	12			4
901	399			5
902	218			4
903	3		****	3
	. 1		****	
The case of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second				2
904 905 906.				

‡ Small-pox.

^{*} The number of deaths from Yellow Fever in the year 1798, as reported to Mayor Varick, was 714.

[†] In 1874 there was a death reported as due to Hyssophobia in addition to the 5 deaths from Hydrophobia.

[‡] Vaccinating Corps organized September 27, 1874, under act of Legislature passed June 15, 1874.

Note.—These diseases have been selected from the confessedly imperfect records of the years preceding the organization of the Health Department, as being diseases of such bold characteristics and exciting so great public interest as to make it probable that the record of them is complete.

Applied   Property		402	989	204	196'\$	4,637	3.507	****			14		***					***					
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Active Country (1996) 1997 (Westerd Discontinue) (Maller Country (1996) 1997 (1996) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (1997) 1997 (		2	802	19	3,048	168,8	3,307	****	0881		1	ī	313			9	<b>†</b> 1	691		118	**		
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April   Second   Se		01	<b>*65</b>	S	3,916	241'2	3,484	****				Colore	.eti.	ı. Wh	икпоми	D ,5	Femal	ile.	M	Total.			Year,
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1	****	SI	195	883	3,406	859,1	144.8	****	9281	=	=	_	-		_		_				_		
April   Comp		95	<b>†</b> £9	46€'€	084.1	¥04	4.521	2311							lete).	comp	ord In	(Rec	City	York			*
Pright   Service   Service   Service   Tables		84	884	1,462	3,051	404.1	\$89.5	****		WeW	mer	10 For	ration	Regist	10 7	Year	First	eht ,	2481	Since	Касе	pur	rths by Sex
Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part	Tubercu- losis.	Typhus Fever,			Scarlet Fever.	Measles.			Year.	_	_												
## 100 OC 1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912   1912			1																				
10   Part   Pa	evieulor	ıI ,0061	01 4781	mort betr	ses Repor	sasiG suc	d Infectio	ns suoizsti	Cases of Cor	\$96,72	155	z £25'2	189'8	2 2914	2 270'	£81,2	\$46°z	046'1	951'2	916'1	201'2	624	zbo
1960   1972   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970			,XNC	D THE BRO	NA NATT	VHNAM 3	o shou	вовс		The same													
1906   1916   1916   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918   1918	4 2				. York.	OIQ NO				100000													
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,										426'22	822'8	140'z	* †11'z	1,833	219'1	078,1	<b>***</b>	2141	<b>†\$</b> 2'1	549'1	088,1	\$66°	1
1   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   100   101   100   101   100   101   100   101   100   101   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100										074'12	122,5	t66'I	£82,2	865'1	£15'I	824,1	toz'z	094'1	t14'1	901'1	6141	006	668
Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   110-06   Section   1								14 Chinese.	səpnioui .	NA TON													
										598'02	498'1	611'2	889'1	479'1	918'1	†6†'ı	121'2	009'1	079'1	14541	989'1	969	
190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190		00811	110'60	****	34,200	30,043	115'04			£15,02	958'1	606'1	686'1	844,1	848'1	224,1	441'2	1911	224'1	624'1	£44'1	246	968
			a la		7	1 10 2				219'02	608,1	9£0'z	£20'z	524'1	294,1	624'1	2,134	Z85'I	†19°1	9441	989'1	129'1	
			1000							888,71	869'1	494'1	0\$9'1	£\$4'1	522,1	984,1	1,655	892'1	215,1	1,234	551'1	481,1	
1.   1.   1.   1.   1.   1.   1.   1.										441,01	0151	1,284	915'1	092'1	125,1	150,1	\$191	1,365	822,1	984.1	142'1	152'1	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							and the			100'91	645'1	615'1	51841	862,1	551'1	\$\$1'I	252'1	242'1	262,1	1,334	255,1	961'1	
1			No. of Contract							192,21	049'1	1,413	804,1	418'1	\$66	1,321	1,393	122,1	044'1	161,1	492'1	852,1	168
										z66't1	£\$†'1	£1£41	£6†'ı	1,253	600'1	820,1	zof'ı	451'1	862,1	821,1	1,154	1,304	
### Colors of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of each of						4-1-1-1				004,41	tez'1	984'1	925,1	0,240	610'1	zto'ı	1,332	1,300	950'1	1,133	060'1	208.1	688
The color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the										14,533	088,1	842'1	z6†'ı	191'1	091'1	20°1	168'1	1,262	481'1	610'1	020'1	972'1	888
Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored State   Colored Stat		100								044,81	022'1	1,434	255,1	041'1	000'1	200'1	ztz'ı	1,133	060'1	880,1	846	1,043	488
27. 1000 862 40 1001 1010 860 1010 1010 1010 1010 1010										912,21	990'1	125,1	491'1	491'1	894	096	1,058	€26	606	190'1	898	106	988
## 1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902   1902						3.33				914'11	180,1	901'1	041'1	846	8+4	918	1,052	266	496	106	\$16	000'1	882
24										208,11	066	981'1	1,253	946	122	996	810,1	†11'I	026	994	885	020'1	
25. 9 40 6 20 7 Mar. Moril May, June. July. Ang. Sept. 10 20 80 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8									*	955,11	980'1	986	291,1	016	608	820	890'1	1,124	1,001	863	283	196	
Fear   Jan   Cob										280,11	690'1	000'1	490,1	426	838	284	086	000'1	t84	028	916	926	s88
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont									Control of the Control	440'01	098	£20'1	1,027	128	604	584	096	816	094	858	049	004	188
Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colored   Colo										200'6	048	458	288	894	685	819	008	284	944	549	624	994	
Tear. Tear. War. Mari. May. June. July. Aug. Sept. 60 60 60 307 62 52 52 52 52 52 52 52 52 52 52 52 52 52										944,8	244	888	946	414	515	919	254	124	199	230	685	249	648
Tear. Jan. Med. May. June. June. May. April. May. June. June. May. May. June. June. May. May. June. June. May. May. June. June. June. May. May. June. Jule.									AND A REAL PROPERTY.	629'4	904	844	054	049	z44	222	<b>†89</b>	\$99	932	489	ZoS	009	848
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. 904. 623 623 624 644 675 670 683 642 670 684 685 685 685 685 685 685 685 685 685 685										621'4	419	269	904	965	tos	015	619	869	285	925	925	555	448
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Nov. Dec. Nov. Dec. Sept. Oct. Nov. Dec. Nov. D			4.5.5.							660'4	225	<b>†65</b>	232	280	221	144	259	623	998	145	<b>†\$9</b>	019	948
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Nov.		3.				6-11				\$95'4	848	284	014	029	818	649	449	984	tz4	684	649	283	
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Sept. Sept. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Sept. Sept. Oct. Nov. Dec. Mar. April. Mar. Sept. Sep									With the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t	466,8	069	137	830	223	238	559	184	908	594	119	229	689	
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Moy. Dec. Total. Male. Female. Unknown, White. Colored. Stated Sea Sea Sea Sea Sea Sea Sea Sea Sea Sea										148'8	989	233	825	184	909	649	853	258	944	519	489	844	
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. July. White. May. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. July. White. May. July. White. Oct. Nov. Dec. Total.  Year. Jan. July. White. May. July. White. Oct. Nov. Dec. Total.  Year. July. White. May. July. White. Oct. Nov. Dec. Total.  Year. July. White. May. July. White. Oct. Nov. Dec. Total.  Y										800'6	824	863	\$88	644	689	669	494	833	198	212	213	£24	248
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Sept. Sept. Oct. Nov. Dec. Total.  Year. Sept. Se										949'8	444	808	+68	106	159	283	6+4	830	<b>†</b> \$9	223	otg	929	148
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Sept. Sept. Oct. Nov. Dec. Total.  Year. Sept. Nov. Dec. Total.  Year. Sept. Sept. Sept. Sept. Sept. Nov. Dec. Total.  Year. Sept. Sept. Sept. Sept. Nov. Dec. Total.  Year. Sept. Nov. Dec. Total.  Year. Sept. Sep				1						\$864	184	640'1	299	829	538	069	<b>\$08</b>	204	008	134	280	414	
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  1875. 25,813 12,054 11,550 80 23,403 341 7,144  1878. 25,729 13,154 12,575 25,381 348 1  1878. 1878. 25,729 13,154 12,575 25,381 348 1  1878. 1878. 25,729 13,154 12,575 25,381 348 1				1		1000				\$69'8	<b>†</b> 69	228	029	866	809	999	604	832	883	\$98	129	489	698
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  1875. 25,813 12,054 11,659 90 23,559 253  1876. 25,813 12,054 11,550 80 23,403 341  1877. 25,569 13,074 12,495 25,266 303  1887. 25,813 12,054 11,550 80 23,403 341  1887. 25,813 12,054 12,054 12,055 303  1887. 25,813 12,054 12,054 12,055 303										926'9	\$48	859	623	185	185	254	932	444	\$19	694	245	695	898
Year. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec. Total.  1875. 256 228 229 274 461 523 601 554 604 767 683 612 2,792  1875. 25,744 12,114 11,550 80 23,403 341										441.7	144	849	149	519	230	085	424	994	929	415	463	255	298
Year. Jan. Feb. Mar. April. May, June. July. Aug. Sept. Oct. Nov. Dec. Total.  1875. 25,813 12,054 11,669 90 23,559 253 1896. 1896. 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,669 11,					**					z64'z	219	589	494	to9	<b>†</b> \$\$	109	223	194	\$42	622	228	952	998
rear. Total, Male. Female. Unknown, White. Colored. Stated										TOTAL.	туес	'AON'	120 .	ndəc .	Snv ·	Sinc :	ount .	CETAT 'III	ıdv .	TEIN .	as z	, ne t	Tear.
Marriages Reported by Months, Since 1866 Former New York City		Colored	White.	Unknown,	Female.	Male.	Total.	/ 2	кэХ	f-1-1-T													
12442 SYTURDAY, NOVEMBER 30, 1907.	1										VI	01k C	Y Wa	N 191	Horn	9981	Since	stin	oM v	ted. b	Керог	ges	eitteM

168,51	••••	410'2	84	4.634	0/2'12	\$69'8		9061
15,036		\$61'z	21	8244	194'01	8,545		
zz\$'£1		3,136	43	124'8	684,02	12,183	****	
11,203		294,5	92	2,443	888'4	919'11 -		1803
224'6	****	629'2	416	7.724	13,560	10,413		2061
	****	S+6'1	194'1	\$68,01	296'4	924.4		1061
		654'1	143	1884	906'21	t9£'8*		
		062'1	29	9854	\$86'8	026'4	062	6681
	1	1,535	ZI	089'9	451'11	2,213	380	8681
		1,004	23	669'4	811,6 .	964'01	001	
	3	200,1	S	824.4	058,11	£60'11	306	9681
****		\$96	17	808,8	8,203	9:66	428	1862
****	****	264	022	894'4	69493	551'6	984	
• • • •	844	800,1	191	t92'S	221'4	894'9	223	1893
****	142	071'1	848	840,7	087,21	t59't	088	
****	6	1,342	12	24442	086'11	448.4	067	1681
	- 1	001'1	9	280€	<b>***</b> 5*6	4,350		
****		<b>*</b> 1*'1	z	648,8	£++'9	684'9	****	
****	*	801,1	311	881'4	642'4	164'9		8881
****	z	\$00'I	343	241.8	290'9	£26'S		
	99	968	601	969'1	820'5	28248		9881
****	<b>†</b> 8	<b>†</b> 46	86	\$£9'z	\$600	026'2		
	133	201,1	S	3,262	\$65.4	2,223		
	14	1,393	92	3,825	3,828	960'z		
	202	989	204	196'\$	4.637	205.€		s881
	209	106	888,1	191'4	920.8	961'S	****	1881
	2	808	19	3,048	168,8	208.8	****	0881
****	8	435	\$9	9++'\$	2,333	1,783	****	6281
	01	<b>†69</b>	S	316.8	241'2	\$3,484	****	8481
****	SI	209	48	\$4 <b>†</b> E	614'1	825,2		
	SI	195	883	2,406	859,1	144.8	****	9281
	95	<b>†</b> £9	46€ '€	084'1	¥04	4.521	****	
	84	000	zoti	3,051	Zob's	3,004		1874

* Including Croup since 1900.

	233	\$12.25	1/8	12,387	942.81	242.52	+48
	218	594,22	65	416'01	404'11	22,683	
****	66z	692,12	23	892.01	182,11	890,22	
	922	\$65.02	or	10,032	647,01	128,05	
z	691	14,353	t'S	016,9	095.2	14.524	
• • • •	192	\$\$4.£1	91	588.9	960'4	246'81	698
	801	12,564	S	981'9	188'9	249'21	898
	191	Sot'zı	8	191'9	468'9	12,569	498
	48	20,01	10	\$06.4	202'\$	411'01	998
••••			****	****		55.332	989
	82	199'S	13	804'2	896'z	689'5	
	38	555.9	SI	140'8	3.287	6,373	
	92	209'4	13	3,693	426.8	2894	2981
•••	14	864.6	64	8444	2/0'9	698'6	1981
***	28	196'S	11	££8,2	3,154	866'5	
•••	84	080,8	82	3,881	612'\$	821,8	6\$81
•••	63	690'21	εı	684.8	6,380	12,132	8\$81
•••	122	855,71	Sı	209'8	£90.6	089'21	
***	981	214.21	12	004.7	28148	209.51	9\$81
• • •	191	012,210	11	66819	196'9	148.81	
***	218	858,91	14	942,8	918.8	940.41	+\$81
	112	\$41.6	6	648.4	668'+	48216	
***		****					
	****	S		z	ε	S	1881
							1820
***		****					6\$81
	1	£41	****	84	96	121	8481
	1	313		S+1	691	\$15	4981

CITY AND BOROUGH OF BROOKLYN. Estimated Population on July 1 in Each Year, from 1790 to 1906, Inclusive.

Year.	Popula- tion.	Year.	Popula- tion.	Year.	Popula- tion.	Year.	Popula- tion,
1790	1,598	1819	6,418	1848	80,130	1877	515,927
1791	1,662	1820	7,114	1849	88,452	1878	532,789
1792	1,729	1821	7,742	1850	97,534	1879	550,202
1793	1,798	1822	8,412	1851	106,279	1880	568,15
1794	1,871	1823	9,140	1852	115,810	1881	586,36
795	1,946	1824	9,931	1853	126,195	1882	605,160
796	2,024	1825	10,791	1854 a	189,113	1883	624,556
797	2,106	1826	11,600	1855	206,147	1884	644,57
798	2,190	1827	12,469	1856	217,227	1885	665,23
1799	2,279	1828	13,403	1857	228,901	1886 b	695,648
1800	2,366	1829	14,407	1858	241,204	1887	732,120
801	2,516	1830	15,512	1859	254,167	1888	756,72
802	2,676	1831	17,001	1860	267,131	1889	782,20
803	2,846	1832	18,633	1861	272,836	1890	808,25
804	3,027	1833	20,421	1862	278,663	1891	833,13
1805	3,219	1834	22,381	1863	284,614	1892	858,77
806	3,423	1835	24,529	1864	290,692	1893	885,20
1807	3,641	1836	26,554	1865	297,814	1894 c	952,34
1808	3,872	1837	28,747	1866	315,600	1895	984,39
809	4,118	1838	31,121	1867	334,448	1896 d	1,023,76
	4,379	1839	33,691	1868	354,421	1897	1,058,47
810	4,251	1840	36,530	1869	375,588	1898	1,094,36
811	4,093	1841	40,283	1870	397,404	1899	1,131,46
812		1842	44,423	1871	413,399	1900	1,169,55
813	3,940	1843	48,988	1872	430,038	1901	1,205,79
814	3,838	1844	54,022	1873	447,347	1902	1,243,16
815	4,254		59,574	1874	465,352	1903	1,281,68
816	4,714	1845		1875	483,788	1904	1,321,40
817	5,225	1846	65,761		7.20		
818	5,791	1847	72,591	1876	499,600	1905	1,362,35

CITY AND BOROUGH OF BROOKLYN. Population by Census from 1790 to 1905, Inclusive.

Years,	Population.	Authority.	Date.
1790	1,603	United States Census	Aug. 1
1800	2,378	United States Census	Aug. 1
1810	4,402	United States Census	Aug. 1
1814,	3,805	New York State Census	June 1
1820	7,175	United States Census,	Aug. 1
1825	10,791	New York State Census	July 1
1830,	15.394	United States Census	June 1
1835	24,529	New York State Census	July 1
1840	36,233	United States Census;	June 1
1845	59.574	New York State Census	July 1
1850	96,838	United States Census	June 1
1855	205,250	New York State Census	June 1
1860	266,661	United States Census	June 1
1865	296,378	New York State Census	June 1
1870	396,099	United States Census	June 1
1875	482,493	New York State Census	June 1
1880	566,663	United States Census	June 1
1890	806,343	United States Census	June 1
1892	957,958	New York State Census	Feb. 1
1900	1,166,582	United States Census	June 1
1905	1,358,891	New York State Census	June 1

Note—The population given in this table is that of the City of Brooklyn, which was not made conterminous with Kings County until 1896.

Population, by Census, of Various Towns Annexed to Brooklyn, from 1854 to 1896 With Dates of Annexation.

							Populat	ion.	
Town.	Ward.	Da Ann	ate (			ed States ensus.		Tork State	Estimated at Time of Annexation.
Williamsburg	2	1		1854	1850	34,519	1855	56,476	51,602
New Lots	26	Aug.	Ι,	1886	1880	13,655	1892	38,541	23,457
Flatbush	29	April	25,	1894	1880	7,634	1892	12,625	
Gravesend	31	May	3,	1894	1880	3,674	1892	8,418	34,387
New Utrecht	30	July	1,	1894	1880	4,742	1892	9,129	
Flatlands	32	Jan.	Ι,	1896	1880	3,127	1892	4,234	4,749

The intercensal population of these towns has been calculated by the geometrical method, using the census populations given above as the basis.

Population of the Borough of Brooklyn, by Wards.

	Date of Forma- tion.	From What Taken.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.	1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census 1900.
	1834								1,523	2,148	4,622	6,062	6,441	6,967	6,128	6,476	16,084	18,729	20,040	22,784	20,327
	1834								4,674	5,447	6,903	9,357	8,383	9,817	8,760	9,117	8,860	9,254	8,986	10,529	8,565
a	1834	Village and Town of Brooklyn							2,764	3,834	5,936	8,749	8,900	10,084	8,890	9,984	15,809	18,271	18,754	24,140	17,949
	1834	BIOORIYII							5,724	6,827	8,819	11,032	12,282	11,766	11,506	12,087	12,616	12,819	12,324	15,580	12,568
	1834	}	2,378	4,402	3,805	7,175	10,791	15,394	4,510	7,415	9,419	13,682	16,352	17,400	17,820	20,490	18,591	18,517	20,175	19,175	18,86
	1834								2,139	4,043	10,651	11,536	18,490	22,710	26,407	28,296	34,072	35,437	37,693	48,939	42,48
	1834	Town of Brooklyn							2,042	4,521	9,958	6,371	12,523	12,096	15,968	22,312	26,488	31,663	35,726	39,490	40,471
b	1834	TOWN OF DIOURISH							487	944	1,369	2,585	5,318	9,190	9,829	9,592	12,127	17,388	31,239	42,758	52,41
b	1834	100		*					666	1,054	1,897	3,261	9,133	17,342	23,443	15,279	13,643	15,044	17,696	21,081	42,870
b	1850		****			****	****				••••	11,782	21,749	25,258	28,668	34,592	24,866	27,140	34,031	50,318	39,100
	1863	Fifth Ward				****	****	1111	****		••••	12,421	22,213	28,821	18,242	21,243	21,629	21,680	22,693	25,007	22,60
	1863	Sixth Ward							****				6,990	11,083	13,085	18,302	17,525	22,201	27,368	31,734	30,35
	1854				16								14,044	17,958	17,791	18,711	19,547	21,029	21,628	24,282	24,029
	1854	Williamsburgh								5,094	11,338	30,780	12,414	15,475	15,425	20,649	23,925	25,559	27,246	32,629	31,48
	1854	Williamsburgh				*****		1111		21024		0-17	6,559	10,566	11,449	18,406	21,255	23,654	27,630	30,319	30,269
	1854												15,350	21,181	24,379	26,438	39,206	42,712	45,720	51,152	56,550
	1854]	D	656	208	770	930	958	1,620	3,325	1,295	1,857	3,739	5,508	7,934	10,234	17,353	23,998	30,088	41,424	46,315	57,309
	1854	Bushwick	050	798	759	930	950	1,020	3,323	1,293	1,037	31733	2,601	4,316	6,319	11,607	17,459	23,926	74,960	22,267	25,133
	1856	Seventh and Thir- teenth Wards												6,697	8,055	16,321	21,908	27,661	36,244	38,187	37,645
	1863	Fifth Ward													13,980	19,179	21,430	24,188	24,136	26,120	25,446
		Seventh Ward														27,904	24,834	31,956	50,118	57,362	58,957
		Eighth Ward														11,761	17,736	25,473	50,250	57,807	66,575
	Tors	Seventh Ward															10,005	14,396	29,348	33,292	61,813
		Ninth Ward															5,799	8,823	16,771	17,888	31,767
		Seventh Ward															13,081	19,055	44,638	56,682	48,328
		New Lots											2,261	3,271	5,009	9,800	11,047	13,655	29,505	38,541	66,086
	1892 }	Eighteenth Ward							••••									,		34,695 38,882	43,96

<sup>a. Williamsburg and Bushwick annexed.
b. New Lots annexed.
c. Flatbush, Gravesend and New Utrecht annexed.
d. Flatlands annexed.</sup> 

Note.—The population for intercensal years has been calculated by the geometrical method, that for the various annexed towns separately, as described elsewhere.

Ward.	Date of Forma- tion.		1800	. 1810.	1814.	1820.	1825.	1830.	1835.	1840.	1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.
29	1894	Flatbush	94	6 1,159	1,062	1,027	1,049	1,143	1,537	2,099	2,225	3,177	3,280	3,471	2,778	6,309	6,940	7,634	12,338	12,625	27,188
30	1894	New Utrecht	. 77	8 907	970	1,009	982	1,217	1,287	1,283	1,863	2,129	2,730	2,781	3,394	3,296	3,843	4,742	8,854	9,129	24,700
31	1894	Gravesend	48	520	552	534	408	565	695	799	898	1,064	1,256	1,286	1,627	2,131	2,180	3,674	6,937	8,418	14,609
32	1896	Flatlands	49	3 517	507	512	491	596	684	810	936	1,155	1,578	1,652	1,904	2,286	2,651	3,127	4,075	4,234	8;243
Total.			5.74	0 8,303	7,655	11,187	14,679	20,535	32,057	47,613	78,691	138,882	216,355	279,122	311,090	419,921	509,154	599,495	838,547	*3,707 996,071	1,166,582

Note—Flatbush, New Utrecht, Gravesend and Flatlands were formed in 1878; New Lots was formed from Flatbush in 1852.

*Inmates of institutions, Kings County at large, not included in ward figures.

*a Present Third Ward formed from Tenth in 1878; old Third Ward is now part of First.

*b Present Eighth, Ninth and Tenth wards formed in 1868; the Ninth took in part of the Twenty-second in 1891.

CITY AND BOROUGH OF BROOKLYN.

Deaths, Births, Marriages and Still-births Reported, from 1866 to 1906, Inclusive.

Year.	Deaths.	Births.	Marriages.	Still- births.
866	8,683	*3,124	*853	
867	8,389	5,224	1,677	
868	8,750	4,802	2,130	
1869	8,759	5,349	2,461	
1870	9,546	4,817	2,367	
1871	10,259	4,424	2,447	
1872	10,648	4,216	2,561	
1873	10,968	5,027	2,520	1,03;
874	11,011	7,668	2,675	1,03
1875	12,470	8,576	2,734	97
1876	12.334	9,723	2,850	98
1877	11,362	10,507	3,047	81
878	11,075	10,747	3,091	84.
879	11,569	10,462	3,322	88
880	13,222	11,975	3,814	88
881	14,533	10,906	3,948	92
882	15,014	10,801	4,584	1,07
883	13,758	11,050	4,150	1,01
884	14,116	11,718	4,510	1,659
885	15,369	11,588	4,364	1,184

Year.	Deaths.	Births.	Marriages.	Still- births.
1886	15,790	12,132	4,910	1,193
1887	17,078	12,750	5,700	1,299
1888	16,061	11,562	4,763	1,277
1889	18,480	17,075	9,606	1,279
1890	19,827	15,000	7,500	1,305
1891	21,349	16,500	7,500	1,733
1892	20,807	18,000	7,800	1,682
1893	21,017	19,250	7,350	1,550
1894	21,183	19,419	5,935	1,673
1895	22,568	20,465	6,779	1,770
1896	22,501	21,424	7,116	1,807
1897	20,674	21,109	7,254	1,919
1898	21,989	21,395	7,129	1,888
1899	21,649	21,203	7,612	1,688
1900	23,507	22,572	8,124	1,813
1901	23,271	22,182	8,303	1,776
1902	22,344	23,507	9,014	1,829
1903	22,192	27,292	9,616	1,838
1904	24,831	28,859	10,019	1,922
1905	23,935	30,972	10,782	1,991
1906	25,024	34,538	11,966	2,071

*Marriages and births were first recorded in the last eight months of the year 1866.

## CITY OF BROOKLYN.

Annual Number of Deaths from Prominent Causes, for Thirty-nine Years.

Year.	Diphtheria.	Croup.	Scarlet Fever.	Measles.	Typhoid Fever.	Smallpox.	Typhus Fever.	Whooping Cough.	Malarial Fever.	Brouchitis.	Pulmonary Tuberculosis.	Pneumonia.	*Diarrhœal.	*Diarrhœal, Under 5 Years.	Cancer.	Bright's Disease and Nephritis.	All Nervous.	Puerperal Diseases.	Violence.	Sunstroke and Heat.	Suicide.
868	133	126	487	30	103	2	20	191	98	182	1,098	449	1,699	1,530	112	106	1,054	34	262	36	27
869	139	176	348	262	96	21	12	193	99	212	1,136	577	1,249	1,130	131	157	1,028	36	229	4	19
870	110	200	220	62	111	135	7	71	143	184	1,281	520	1,473	1,289	134		1,528	88	269		25
871	157	255	522	67	92	373	8	110	138	231	1,355	613	952	855	155		1,596	108	320		28
872	184	327	327	59	149	737	12	96	146	239	1,465	778	1,718	1,550	147	216	1,943	141	338		31
873	252	325	314	69	103	116	3	136	153	243	1,376	745	1,564	1,411	168	211	1,388	131	312	5	31
1874	580	318	479	90	81	53	7	130	124	285	1,267	744	1,400	1,272	197	228	1,231	157	303	6	34
1875	965	440	304	6	102	619	9	161	137	369	1,522	892	1,395	1,262	200		1,292	157	312		39
1876	812	412	352	159	97	309	8	190	137	397	1,539	883	1,546	1,367	192		1,225	128	622		59
1877	778	325	730	10	82	5	3	118	154	314	1,587	724	1,569	1,332	200	328	1,123	156	299	6	50
1878	544	317	363	67	59	**	••	195	184	365	1,509	829	1,298	1,084	233	332	1,297	149	294	13	52
1879	689	250	344	38	59	2		204	145	479	1,665	975	1,364	1,127	231	318	1,238	182	316	22	37
1880	1,118	420	222	156	71	2		111	256	495	1,736	972	1,738	1,498	221	327	1,387	155	420	36	31
1881	1,169	438	651	56	99	142	3	118	306	471	1,754	1,022	1,864	1,573	254	414	1,512	162	402	48	55
1882	631	334	892	168	93	65	1	249	289	684	1,806	1,204	2,082	1,717	285	481	1,498	172	433	36	62
1883	409	318	505	69	92	3		132	258	573	1,847	1,245	1,799	1,482	262	485	1,427	148	414	29	58
1884	385	280	218	114	107	2		222	272	622	1,913	1,118	2,081	1,743	323	507	1,357	208	440	41	66
1885	519	313	363	175	153	3	2	157	242	675	1,965	1,446	2,113	1,807	301	614	1,483	216	477	57	53
886	782	403	340	106	123	52	3	260	241	764	2,085	1,468	1,651	1,398	293	675	1,549	167	422	8	46
887	950	503	271	172	143	109	1	59	256	790	2,026	1,418	1,969	1,672	349	657	1,897	154	485	32	61
1888	984	301	475	59	153	90	44	194	199	786	2,051	1,663	2,249	1,938	345	867	2,198	163	517	34	75
889	1,101	366	273	205	161			281	182	392	2,055	1,814	1,860	1,606	356	827	2,298	159	488	14	86
890	902	381	227	182	182		1	238	168	1,010	2,169	2,325	2,240	1,968	414	892	2,438	166	570	23	94
801	766	414	485	203	180		**	140	120	1,015	2,117	2,537	2,413	2,133	416	993	2,430	201	492	18	73
892	775	362	412	168	162	51		192	195	987	2,128	2,357	2,569	2,277	418	1,039	2,619	240	582	94	79
893	607	271	7	111	179	200		261	140	960	2,174	2,569	2,514	2,234	441	1,060	2,649	173	601	14	120
894	1,279	381	188	204	159	102		243	127	832	2,260	2,181	2,595	2,235	457	1,199	2,292	168	757	52	165
895	1,139	315	124	192	173			263	138	832	2,299	2,624	2,721	2,382	572	1,387	2,322	188	864	43	161
896	1,063	247	150	333	163	1		179	148	871	2,245	2,553	2,486	2,130	534	1,448	2,215	237	1,247	333	160

Year.	Diphtheria.	Croup.	Scarlet Fever.	Measles.	Typhoid Fever.	Smallpox.	Typhus Fever.	Whooping Cough.	Malarial Fever.	Bronchitis.	Pulmonary Tuberculosis.	Pneumonia.	*Diarrheal.	*Diarrheal, Under 5 Years.	Cancer.	Bright's Disease and Nephritis.	All Nervous.	Puerperal Diseases.	Violence.	Sunstroke and Heat.	Suicide.
1897	795	203	187	190	173	3		164	107	802	2,164	2,232	2,124	1,853	561	1,443	2,132	194	992	22	197
1898	595	150	159	194	270			234	90	699	2,394	2,384	2,821	2,489	632	1,503	2,137	164	990	141	189
1899	583	161	175	197	205			143	59	761	2,435	2,682	2,457	2,090	701	1,624	1,981	152	902	38	153
1900,	673	190	130	310	301			235	58	775	2,445	3,216	2,707	2,361	695	1,717	1,853	260	1,008	103	198
1901	1732		495	162	272	9		110	67	670	2,479	2,891	2,916	2,447	760	1,897	1,917	213	1,199	331	189
1902	762		275	239	322	91	**	188	46	815	2,317	3,001	2,207	1,890	791	1,976	1,668	197	975	9	242
1903	830		244	167	267	2		118	36	653	2,396	2,910	1,854	1,583	778	2,123	1,724	228	1,144	59	234
1904	706	4.0	282	333	303	6		69	42	630	2,634	3,670	2,427	2,140	817	2,253	2,054	236	1,136	14	223
1905	594	**	182	193	297	8		138	29	408	2,420	3,099	2,274	2,078	899	1,984	2,413	275	1,167	71	174
1906	793	**	258	446	230	6		132	29	524	2,557	3,557	2,266	2,104	975	2,076	1,998	249	1,330	28	204

^{*}The figures on diarrhoal diseases since 1877 have been revised so as to agree with the Bertillon classification of causes of death, with the addition of dysentery. †Including croup since 1901.

CITY OF BROOKLYN.

Cacae	of	Contorious	and	Infectious	Disappea	Deposted	fuena	-0-0	4.	****	Instraina
Cases	OI	Contagious	and	Infectious	Diseases	Reported	from	1873	to	1000,	Inclusive

Year.	Croup.	Diphtheria.	Measles.	Scarlet Fever.	Smallpox.	Typhoid Fever.	Typhus.	Tuber- culosis.
873		319	****	930	426	207	10	
874		1,651		2,448	268	214	9	
875		2,669	****	1,269	2,519	263	12	
876		2,329		1,657	1,131	191	11	
877		2,280		2,930	87	180	5	
878	1111	1,744		1,988	. 3	168	4214	
879		1,801	219	2,208	6	137		
880		3,058	2,572	1,727	10	143		
188	****	3,218	906	4.554	498	181	9	
882		4,599	2,670	4,599	185	148	2	
883		1,185	1,604	3,167	12	202		
884		976	1,225	1,990	14	194		
885		1,348	3,441	2,288	16	435		
886		1,602	923	1,645	125	343		
887		1,995	2,479	1,877	215	444		
888	****	2,297	674	2,675	374	394		
889		2,798	4,723	2,668	2	399		

Year.	Croup.	Diphtheria,	Measles.	Scarlet Fever.	Smallpox.	Typhoid Fever.	Typhus.	Tuber- culosis.
1890		2,241	1,821	1,657		313		
1891		1,850	2,892	2,701		418		
1892		1,829	3,118	3,078	184	243	****	
1893		1,672	2,272	2,961	449	216	****	
1894		3,812	4,688	2,119	459	284	4444	
1895	411	4,276	3,438	1,991	11	285		
1896	319	4,912	7,074	2,471	3	245		
1897	285	3,862	4,695	2,924	7	312		
1898	208	3,008	2,933	2,136		581		
1899	206	2,688	3,098	2,308	31	422		A.,
1900		*3,856	5,111	1,878	12	697	****	
1901		3,942	3,511	5,188	410	644		
1902		4,236	5,506	3,529	503	961	****	2,838
1903		5,705	4,862	2,921	15	1,003	****	3,426
1904		5,026	10,321	4,037	29	1,050	****	4,339
1905		4,307	7,053	2,884	34	1,913		4,897
1906		5,211	13,827	2,760	52	1,215		5,324

Reporting of measles was begun in the latter part of 1879; croup in 1895; typhoid fever not fully reported.

* Croup included in diphtheria since 1900.

## Population of Borough of Queens, by Wards.

Ward.	Date of Formation.	Formerly Known as	1800.	1810.	1814.	‡182o.	1825.	1830.	1835.	1840.	1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census 1900.
1	1898	*Long Island City												****			15,587	17,129	30,506	35,745	48,272
2	1898	Newtown	2,312	2,437	2,472		2,478	2,610	3,505	5,054	5,521	7,208	4,694	13,725	13,891	20,274	10,614	9,804	17,549	19,776	40,903
3	1898	Flushing	1,818	2,230	2,271		2,325	2,820	3,643	4,124	3,918	5,376	7,970	10,189	10,813	14,650	15,357	15,906	19,803	20,816	25,87
4	1898	Jamaica	1,661	2,110	1,880		2,401	2,376	2,885	3,781	3,883	4,247	5,632	6,515	6,777	7,745	8,983	10,088	14,441	17,654	30,761
s	1898	†Hempstead															****			****	7,193
		Total	5,791	6,777	6,623		7,204	7,806	10,033	12,959	13,322	16,831	18,296	30,429	31,481	42,669	50,541	-52,927	82,299	93,991	152,999

* Formed in 1870 from Newtown. The other towns were formed in 1788.
† Only part of Hempstead was consolidated with the other towns forming Greater New York, and the population previous to consolidation cannot be given.
‡ In this year the aggregate of the county alone was taken.

## Population of Borough of Richmond, by Wards.

Ward.	Date of Formation.	Formerly Known as	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.	1845.	1850.	1855.	1860.	1865.	1870.	1875.	188•.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.	New York State Census 1905.
1	1898	Castleton	1,056	1,301	1,348	1,527	1,786	2,216	2,868	4,275	5,203	5,389	8,252	6,678	7,683	9,504	10,957	12,679	16,423	17,261	21,441	23,659
2	1898	*Middletown												6,243	6,866	7,589	8,332	9,029	10,557	11,477	13,200	14,035
3	1898	Northfield	1,377	1,595	1,710	1,980	1,984	2,162	2,297	2,745	3,343	4,020	4,187	4,841	5,201	5,949	6,619	7,014	9,811	9,641	13,701	15,347
4	1898	Southfield	932	1,007	998	1,012	719	971	845	1,619	2,631	2,709	5,449	3,645	4,407	5,082	4,426	4,980	6,644	6,324	9,516	9,481
s	1898	Westfield	1,198	1,444	1,446	1,616	1,443	1,773	1,681	2,326	2,497	2,943	3,501	3,985	4,052	4,995	4,862	5,289	8,258	8,64,8	9,163	10,198
		Total	4,563	5,347	5,502	6,135	5,932	7,122	7,691	10,965	13,674	15,061	21,389	25,392	28,209	33,029	35,196	38,991	51,693	53,351	67,021	†72,846

^{*} Formed in 1860, from Castleton and Southfield. The other towns were formed in 1788. † Includes 126 inmates of institutions not credited to wards.

City of

Boroughs.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.
Manhattan	60,489	96,373	95,519	123,706	160,686	197,112	268,089	312,71
The Bronx				*****				*****
Brooklyn	5,740	. 8,303	7,655	11,187	14,679	20,535	32,057	47,61
Queens	5,791	6,777	6,623	*6,914	7,204	7,806	10,033	12,95
Richmond	4,563	5,347	5,502	6,135	5,932	7,122	7,691	10,96
Entire City	76,583	116,800	115,299	147,942	193,901	232,575	317,870	384,24

* Arithmetical mean between previous and following census (see note to Queens table).

Note.—The census population, as given in this table, is somewhat less than the true population of the territory now comprised within the limits of The City of New York, for the reasons given in

Table of Maximum, Minimum and Mean Temperature and Rainfall in the Vicinity of The City of New York, at Fort Columbus, from 1822 to 1854; Deaf and Dumb Asylum, from 1855 to 1868, and New York Observatory, Central Park, from 1869 to Date.

Temperature-Fahr.

(Figures furnished by Daniel Draper, Ph. D., Director of Central Park Observatory.)

Year.	Maximum.	Month.	Minimum.	Month.	Mean
:\$22	100	July	-1	January	54.
823	91	July	3	{ February }	50.
824	96	July	2	February	52.
1825	104	July	-3	December	54.
826	97	July	—1	January	52.
827	96	July	0	January	51.
1838	99	July	9	January	54.
829	95	July	7	January	52.
1830	98	July	.5	January	54.
831	98	August	8	January	51.
\$32	97	August	1	January	51.
833	94	July	8	March	51.
834	94	{July} August}	6	December	51.
835	89	. { July } August }	-1	January	49.
836	89	{July}	0	February	47.0
837	86	[July] August]	10	{ January } February }	49.
		[ July]		February	
838	94	August	6		50.
839	86	July		January	
840	91	June	2	January	51.
841	92	June	9	January	51.
842	85	{July} {September}	16	{ January } { February }	53 -
343	93	July	9	February	51.
844	92	June	3	January	52.
845	99	July	6	February	53-
846	95	July	.5	February	52.
847	94	June	12	November December	52.
848	91	July	3	January	52.
849	94	July	0	January	50.
850	94	July	9	February	50
851	93	July	4	December	52
852	93	July	-2	January	51
853	98	June	9	January	52
854	93	July	5	December	50
855	93	July	-7	February	50
856	95	July	-5	January	50
857	90	August	0	January	52
858	93	June	-3	· February	53
859	96	July	-5	January	53
860	89	July	-7	February	52
861	92	August	<del>-3</del>	February	53
862	95	August	8	December	53
863	90	June	6	February	54
864	97	June	8	February	55
865	95	July	6	January	55
866	98	July	-13	January	52.
867	91	June	4	January	49.
868	92	July	0	February	48.
1869	94	August	4	March	51.

Year.	Maximum.	Month.	Minimum.	Month.	Mean.
1870	94	June	9	∫ February ]	53 - 5
10/011111111111111111111111111111111111	94	June	y	December	53.5
1871	92	May	-2	December	51.1
1872	. 95	July	3	{ March } December }	51.0
1873	94	July	-1	{ January } February }	50.9
1874	98	June	3	February	51.3
1875	93	June	-3	January	49.4
1876	98	July	3	December	51.8
1877	92	July	10	March	52.7
1878	94	July	7	{ January } February }	53 - 5
1879	98	July	-4	January	52.3
1880	96	May	6	December	53.2
1881	101	September	-3	February	52.3
1882	93	July	-6	January	51.9
1883	95	July	-1	December	50.4
1884	91	{ June August September }	-3	December,	52.4
1885	99	July	-2	February	51.1
886	94	July	-4	February	51.0
887	96	July	4	January	50.9
888	96	June	0	January	49.3
889	91	{ May } June }	3	February	52.7
1890	98	July	7	March	52.7
891	98	August	9	March	58.8
1892	97	July	9	January	51.8
1893	95	June	1	January	50.4
1894	96	July	1	February	52.7
1895	97	September	-4	February	52.6
1896	98	August	—5	February	53 - 4
1897	93	[July] September]	6	January	53-4
1898	100	July	8	February	54.5
1899	95	July	-6	February	53 - 5
1900	97	July	5	February	53.7
	100	July	8	January	52.0
1901		July	8	December	1
1902	90				52.8
1903	95	July	4	February	52.4
1904	94	July	-4	January	50.6

Table of Maximum, Minimum and Mean Temperature and Rainfall in the Vicinity of The City of New York at Fort Columbus, from 1822 to 1854; Deaf and Dumb Asylum, from 1855 to 1868, and New York Observatory, Central Park, from 1869 to Date.

July.....

August....

96

95

1905.....

1906.....

January....

February....

53.2

54.6

Rainfall, in Inches (Including Snow Water).

(Figures furnished by Daniel Draper, Ph. D., Director of Central Park Observatory.)

Year.	Maximum.	Month.	Minimum,	Month.	Total.	Depth of Snow. (Inches.)
1822						
1823						
1824	****					
1825						
1826						
1827						
1828						

2.7		37	1
	ew	Vo	17.

New Yor State Cer sus, 1905	United States Census, 1900.	New York State Census, 1892.	United States Census, 1890.	1880.	1875.	1870.	1865.	1860.	1855.	1850.	1845.
2,112,69	ſ 1,850,093	1 801 770	1,441,216	1,164,673	1,005,692	942,292	726,386	813,669	629,810	515,547	371,223
271,629	200,507	1,801,739	74,085	41,626	36,194	28,981	19,024	16,343	12,436	4,436	
1,358,891	1,166,582	996,071	838,547	599,495	509,154	419,921	311,090	279,122	216,355	138,882	78,691
198,241	152,999	93,991	82,299	52,927	50,541	42,669	31,481	30,429	18,296	16,831	13,322
72,846	67,021	53,351	51,693	38,991	35,196	33,029	28,209	25,392	21,389	15,061	13,674
4,014,304	3,437,202	2,945,152	2,487,840	1,897,712	1,636,777	1,466,892	1,116,190	1,164,955	898,286	690,757	476,910

the foot notes to the tables for Manhattan and The Bronx and Queens.

Year.	Maximum,	Month.	Minimum.	Month.	Total.	Depth of Snow (Inches.)
1829						
1830	****	***********				
1831	****	***********	****			
1832		*********	****		****	
1833			****	***********	****	117
1834	****				****	***
τ835	****				****	222
1836	6.46	June	.63	May	27.57	***
1837	9.50	May	2.10	September	65.51	***
1838	4.96	September.:	1.83	July	41.90	•••
1839	7.61	December	.69	January	42.97	•••
1840	4.59	October	1.00	December	29.80	
1841	5.30	January	.80	February	42.08	***
1842	4.30	October	1.07	January	33.98	• • • •
1843	15.26	August	.76	June	41.37	
1844	6.00	July	.55	April	36.38	
1845	4.87	January	1.22	April	34.08	
1846	9.70	May	.48	September	48.91	
1847	6.93	August	1.53	April	64.85	
1848	7.28	Мау	1.16	April	36.80	
1849	5.63	October	.61	January	31.74	
1850	9.20	May	2.33	November	54 - 53	
1851	6.94	April	.90	June	40.88	
1852	6.20	August	2.06	October	43.84	
853	6.80	November	1.04	December	52.20	565
854	8.80	April	.70	March	45.18	***
855	7.37	October	1.57	September	51.76	
856	6.73	August	.66	February	41.92	
857	9.05	April	1.30	November	53.88	
858	6.42	June	1.47	October	52.87	
859	8.21	March November	1.75	June	45.17	***
860	7 . 57	November	1.43	December	56.52	
861	8.09	June	1.73	December	53.98	
862	9.03	July	1.05	September	57.03	
1863	8.60	December	2.04	February	48.01	
864	5.90	June	2.23	August	62.86	
865	10.42	February	1.67	July	51.68	***
866	10.09	June	.78	September	54.61	
867	9.60	September	2.01	October	64.02	
1868		February	1.39	April	46.47	30.6
869	6.87	April	1.83	May	42.12	25.4
871	5.11	October	2.07	January	51.26	34.2
872	7.50	July	1.29	February	42.49	40.3
1873	9.56	August	1.28	June	47.99	40.9
1874	8.77	April	1.70	October	45.83	35.6
875	8.97	August	1.33	May	40.90	48.2
876	8.79	March	.94	January	41.77	30.7
877	8.14	October	.68	December	40.18	27.3
878	7.97	August	1.97	April	48.66	13.7
879	7.95	August	.43	October	39.03	37.6
880	8.53	July	.62	May	36.64	27.6
881	5.81	March	.86	August	36.26	23.7
882	16.85	September	1.14	August	45.30	20.1
	4.53	October	1.49	March	35.77	52.5
883	6.17	December	.21	September	52.25	31.5
884				September		
885	5.67	August	.41		38.34	23.2
886	5.40	May	.95	August	39.38	31.0
887	7.76	June	.34	May	43.99	31.8
888	8.16	September	1.53	July	53.32	37 - 7
889	11.89	July	1,10	December	57.16	21.00

Year.	Maximum.	Month.	Minimum.	Month.	Total.	Depth of Snow. (Inches.)
1891	6.12	January	1.48	June	39.55	17.37
1892	7.14	November	. 59	October	35.60	34.63
1893	8.72	August	1.13	July	48.26	45.62
1894	8.68	September	.98	June	41.01	35.25
1895	5.01	January	.46	February	35.27	22.75
1896	7.41	July	.96	January	41.96	64.00
1897	9.56	July	.72	October	44.55	31.75
1898	6.72	May	1.25	June	47.90	35.25
1899	6.12	September	1.09	May	38.57	35 - 37
1900	5.38	February	2.01	December	41.19	13.37
1901	7.64	July	- 55	February	48.69	10.62
1902	7.16	October	1.28	November	52.77	42.74
1903	13.31	October	.30	May	58.32	20.50
1904	7.85	August	1.88	May	41.64	47.99
1905	5.84	September	.72	May	37.44	26.87
1906	5.90	April	1.06	November	40.18	20.25

THE RESULTS OF THE USE OF REFINED DIPHTHERIA ANTITOXIN, GIBSON'S "GLOBULIN PREPARATION," IN THE TREATMENT OF DIPHTHERIA.

By William H. Park, M. D., Director of the Research Laboratory, Assisted by Binford Thorne, M. D., Resident Physician, Hospital for Contagious Diseases, Department of Health.

All who use diphtheria antitoxic serum extensively are aware that in from to 30 per cent. of the injected cases of diphtheria, pronounced rashes, of an urticarial or erythematous type, occur. In the majority of cases these serum effects are disagreeable rather than harmful, but occasionally the rash is accompanied by constitutional disturbance presenting, in the most severe cases, high temperature, vomiting, prostration, and sometimes other symptoms. These marked constitutional reactions are especially likely to follow very large injections of from 10,000 to 20,000 units in young children who have high temperatures due to broncho pneumonia or other complications. In these cases the serum reaction is distinctly harmful, for by lowering the general resistance of the body to other infections it neutralizes to some extent the good done by the neutralization of the diphtheria toxin by the antitoxin. Furthermore, the rashes, especially those of a scarlatinal type, are puzzling in a diagthermore, the rashes, especially those of a scarlatinal type, are puzzling in a diagnostic sense.

nostic sense.

There have been many attempts made to separate diphtheria antitoxin from the non-antitoxic portions of the accompanying serum. Those interested in the chemical side of these investigations are referred to the recent article by Gibson.* In 1900, Atkinson, working in his laboratory, eliminated all but the globulins from the antitoxic serum. This partially refined antitoxic serum was tried in thirty-six cases. The results,† both as to antitoxic effect and serum reactions, were so nearly identical with those in an equal number of cases treated with the whole serum from the same horse that it did not seem to be worth while to go to the expense of preparing such an antitoxic solution. Attempts to effect a practical separation of the antitoxin from a greater portion of the proteid non-antitoxic substances of the serum were continued. In August, 1905, we began trials with an antitoxic solution from which much more of the serum proteids had been eliminated than in the Atkinson preparation. Dr. R. B. Gibson, bacteriologist in the Research Laboratory, placed the half-saturation ammonium sulphate precipitate derived from the antitoxic serum in saturated sodium chloride solution, and found that along with a portion of the globulins all the antichloride solution, and found that along with a portion of the globulins all the anti-toxin passed into solution. In this way the nucleoproteids and the insoluble globulins present in the Atkinson preparation were eliminated. The soluble globulins precipi-tated by acetic acid were filtered, partially dried and finally placed in a sac of parchment membrane and dialized in running water. This antitoxic solution of soluble globulins was then rendered neutral, and sufficient sodium chloride was added to make it isotonic.

soluble globulins was then rendered neutral, and sufficient sodium chloride was added to make it isotonic.

In carrying out the process there is a loss of about 30 per cent. of antitoxin units, because of retention upon filters, loss in dialyzing, etc. On testing this solution on a number of children we found that the results were favorable, except that more local pain was produced than with the whole serum. Stricter attention to the neutralization soon overcame this, so that when the serum was injected on one side and the globulin solution on the other the patient was unable to tell the one from the other. In October, 1905, the antitoxic globulin solution was administered by the Medical Inspectors not only in the hospitals for diplitheria, but also in private homes. Since December it has been gradually distributed throughout New York City, and is now the only form of antitoxin supplied by the Health Department.

Results from the Use of Antitoxic Globulin Solution—The antitoxic effect was identical with that of the whole serum. Our tests have shown that not only the toxins and the so-called toxones produced in media by diphtheria bacilli, but also those produced in the animal by injections with living diphtheria bacilli are neutralized completely by the globulin solution. We could not detect the slightest evidence that any desirable substance in the antitoxic serum is lost by the refining process. Not only we ourselves, but the resident and attending physicians watching the cases in the contagious disease hospitals noted that the rashes following the injections of the globulin solution seemed to be less severe than those which followed the injection of whole serum. It was especially noted that there were very few who had any constitutional disturbances even when the rashes did appear.

As the serum supplied by different borses or ison, the same horse at different

whole serum. It was especially noted that there were very few who had any constitutional disturbances even when the rashes did appear.

As the serum supplied by different horses, or from the same horse at different times, is known to vary in the rashes and other after effects it produces, and as it is, therefore, difficult accurately to compare the globulin solution and the whole serum derived from different bleedings, it was decided to make a decisive test by collecting

* Journal of Biological Chemistry, Vol. I., Nos. 2 and 3. † Archives of Pediatrics, November, 1900.

a quantity of serum from four different horses, mixing it thoroughly, and then after precipitating one-half, to treat an equal number of patients simultaneously with the whole serum and with the globulin solution. These tests were carried out chiefly in the Willard Parker Hospital, but a few also in the Riverside Hospital. We are indebted to Drs. Lynah and Watson, the resident physicians in charge of these two hospitals, for their interest and aid.

hospitals, for their interest and aid.

It soon became evident that the serum we had chosen for the test was of such a character that eruptions and constitutional disturbances usually appeared in those injected with the whole serum. Whether it was because the serum from four long-treated horses had been mixed, or whether because of some other reason, it is certain that this serum produced more after effects than any lot we had used in the hospital since 1899. These after effects were so marked and occurred in such a large proportion of the children that we had to abandon the use of the whole serum. The rashes in those given the globulin preparation were much less severe. In persons over ten years of age almost no rashes occurred after either preparation. The patients treated with the whole serum and the antitoxic globulins were most carefully watched by us, and the course of the disease, as well as the after effects, noted.

#### TABLE I.

Results of Injecting the Mixed Antitoxic Horse Serum in Fifty Cases of Diphtheria Occurring in Children under Ten Years of Age.

*I	Years.	Units Given.	C 1 Dist. 1	D-d.
*1			Constitutional Disturbances.	Rash,
	0.9	10,000 M	Marked, 5 degrees rise of temperature	Eighth day, general erythema lasting six days.
2	1	3,000 S	Slight	Tenth day, urticaria general.
3	1	14,000 M	High temperature, due partly to pneumonia	Fourteenth day, urticaria lasting five
4	1.3	15,000 M	Moderate, 2 degrees rise of	days.
5	1.9	5,000 S	Absent	Eighth day, general erythema.
6	1.5	35,000 S	High temperature and marked disturbance	Sixth day, urticaria; eighth day, gen eral crythema of very severe type
7	1.3	10,000 M	Absent	
8	1.3	13,500 M	Moderate, with I degree rise of temperature	Fourth day, severe general urticaria
9	1.6	10,000 M	Masked by pneumonia hav- ing 106 degrees tempera- ture	lasting three days.  Seventh day, severe general ery
10	1.7	10,000 M	Moderate, with 2 degrees rise of temperature	thema.  Sixth day, severe general erythema
	1.9	10,000 M	Marked, with 3 degrees rise of temperature	lasting three days.  Third day, morbilliform; eleventl
	1.5	7,000 M	Slight	day, severe general urticaria.  Fourteenth day, erythema and urti
3	1.5	10,000 S	Slight, with 1.5 degrees rise	Fourteenth day, erythema and urti- caria general for two days.
			of temperature	Second day, quite severe erythem lasting one day.
15	2	17,000 M	Slight, with 1.5 degrees rise of temperature  Marked, but possibly due	Third day, very severe urticaria for two days.
		33,032	to sepsis	Third day, urticaria and erythematery severe, lasting fifteen days.
6	2	3,500 S	Absent	
7	2.5	7,000 M	Moderate, 2 degrees rise of temperature	Fifth day, severe urticaria for six days.
8,	2.5	14,000 M	Slight	Thirteenth day, severe urticaria for three days.  Twelfth day, general urticaria for
9	2	3,000 S	Slight	two days.
0	2	10,000 M	Slight	Sixth day, general urticaria for three days.
1	1.5		Absent	
2	2.5		Extremely severe, 3 degrees to 6 degrees for ten days. Extremely severe, 2 degrees	Eighth day, morbilliform continued and intense for ten days.
3	2	7,000 S	to 4 degrees for one week	Fifteenth day; morbilliform continued and intense for eight days.
4	2.5	8,000 S	Severe, 4 degrees rise of temperature	Tenth day, erythema for two days seventeenth, second lasted six days
5	2.5	7,000 M	Severe, 4 degrees rise of temperature	Seventh day, erythema for two days twelfth day, second lasted fiv
2	- 0		Slight	days.  Twenty-second day, general erythe
7	2.8	12,500 M 10,000 M	Severe, but possibly due to	ma.
			pneumonia	Fourteenth day, erythema for fiv days.
8	3	10,000 M	Absent	
9	3	8,000 M	None, except 1.50 rise of temperature	Sixth day, urticaria for two days.
	3	7,500 M	Absent	
31	3	10,000 M	temperature for one week	Thirteenth day, severe erythema for one week until death.
32	3	3,000 S	Absent	
33	3	14,000 S	Absent	
35	3	7,500 S	Severe, for ten days 4 de- grees rise of temperature. Very severe, with 4 de-	Thirteenth day, severe erythema lasting ten days.
			grees to 7 degrees rise of temperature for ten days.	Eighth day, general erythema over whole body for ten days.
36	4	3,750 S	Absent	Twelfth day savers and
37	4	10,000 M	Absent	Twelfth day, severe erythema.
38	4	10,000 S	Absent	
19	4	10,000 M	temperature	Sixth day, general erythema lastin three days.
40	4	5,000 S	Absent	Fifth day, general erythema lastin three days.
<b></b>	4	10,000 M	Marked, 4 degrees to 6 degrees rise of temperature	Tenth day, very severe, lasting fiv
	4.5	12,000 S	Absent	days until death.
42		10,000 M	Moderate, 3 degrees rise of	min in the second of the second
42	5	10,000 1		butth day your cavers untigonic land
13			temperature	Fifth day, very severe, urticaria last ing five days.
13	6	5,000 S	Absent	Fifth day, very severe, urticaria last ing five days.
3			temperature	

Case.	Age	Antitoxin Units	Dele	terious Effects.
Case.	Years.		Constitutional Disturbances.	Rash.
47	9	10,000 \$	Slight	Eighth day, general urticaria.
*48	8	3,750 S	Absent	
*49	8	3,750 S	Absent	
*50	9	3,750 s	Absent	
_				
50	a 3.24	b	Thirty-five developed con- stitutional disturbances	Thirty-six developed rashes.

- * Intubated.
- † Croup.
- M Marked severity (of which eighteen were intubated).
- s Slight severity. a. Years average.
- b. Average units per case, 9,250. M equals 28; s equals 22.

#### TABLE II.

desults of Injecting Refined Antitoxin (Antitoxic Globulins) Made from Serum Obtained from the Same Horses and at the Same Bleedings as the Antitoxic Serum Used in the Cases Given in Table I.

	Age.	Antitoxin,		
No.	1180	Severity.	Constitutional Disturbances.	Rash.
1	0.5	7,000 S	Absent	Sixth day, moderate urticaria and erythema lasting four days.
2	*0.9	15,000 M	Absent	Second day, general erythema last
3	†I	10,000 M	Masked by pneumonia	ning two days. Ninth day, general erythema lasting
4	1.5	5,000 S	Absent	five days until death,
5	*1.5	12,000 M	Rise of 1 degree of tem-	
6	*0.3	7,000 s	Absent	Third day, urticaria for one day. Second day, general erythema for three days.
7	1.5	12,000 M	Absent	mice days.
8	-4	3,000 S	Absent	
9	*1.2	10,000 M	Absent	Tenth day, urticaria lasting four
0	1.2	15,000 M	Absent	days. Eighth day, urticaria lasting two
1	*1.5	12,000 M	Absent	days. Eighth day, urticaria, pretty severe
2	*1.3	12,000 M	Absent	lasting three days.
3	0.9	5,000 M	Absent	Fourth day, erythema lasting thirty
4	.5	7,000 M	Absent	six hours.
5	*1.5	12,000 M	Absent	Fifth day, urticaria for one day.
6	2	10,000 M	Absent	
7	†2	12,000 M	Absent	
8	†2	10,000 M	Ab ent	Seventh day, mild urticaria for one
9	†2	12,000 S	Absent	day.
0	2	24,000 M	Absent	
1	†2	7,000 S	Absent	
2	2	7,000 S	Absent	
3	*2	10,000 S	Masked by pneumonia	Thirteenth day, general erythems
4	2	10,000 M	Absent	lasting three days. Tenth day, general erythema lasting
5	*2.5	12,000 M	Rise of 1 degree of tem-	three days.
6	*2.5	12,000 M	Rise of 3 degrees of tem- perature for 12 hours; then normal	Fifth day, urticaria, then erythema- together lasting five days.  Seventh day, urticaria for two days
7	*3	17,000 M	Absent	bevenu day, uricana for two days
8	*3	10,000 M	Absent	Eleventh day, erythema for two days
	†3	12,000 M	Absent	Eleventh day, erythema for two days
9	*3	20,000 M	Absent	Sixth day untique lasting to 1
	*3		Absent	Sixth day, urticaria lasting two days
		12,000 M		Second day, slight general erythems lasting twenty-four hours. Sixth day, urticaria lasting two days
2	4		4.	Sixth day, urticaria lasting two days
3	*4.5	8,000 м	Absent	
4	†4	12,000 S		
15	14.5	12,000 M	Absent	
86	*4	12,000 M	Absent	
37	4	12,000 M	Rise of 2 degrees of tem- perature for one day	Eighth day, severe urticaria, trace lasting five days.
8	4	12,000 5	Absent	and days.
39	5	5,000 s	Absent	
10	5	12,000 M	Absent	
41	5	3,000 S	Absent	
42	5	19,000 M	Rise of 2 degrees of tem- perature for one day	Sixth day, severe erythema, trace
13	5.5	3,000 S	Absent	lasting seven days.
	6	10,000 S	Absent	
44	6		Absent	Sixth day neticaria and earthern
46	6	3,000 S	Absent	Sixth day, urticaria and erythem for three days.  Seventh day, urticaria for two days.
	*7			beventil day, utilicaria for two days.
47		12,000 M		4
18	*8.5	24,000 M	Absent	
19	9	7,000 S	Absent	
50	9	3,500 S	Absent	

- * Intubated.
- † Croup. м Marked severity.
- s Slight severity. a. Years average.
- b. 10,600 units average injections. M equals 31; s equals 19.
- Of the fifty cases there were thirty-one of marked severity; eighteen of these were intubated.

#### TABLE III.

Comparative Table Giving a Summary of the Constitutional and Local Reactions
Obtained in the Treatment of Fifty Cases of Diphtheria in Young Children
with a lot of Antitoxic Serum Derived from Four Horses and of an Equal
Number of Similar Cases Treated with a Solution of the Antitoxic Globulins
Derived from a Portion of the Same Lot of Serum:

Children Who Children Who Wer Were Treated With Treated With the the Whole Serum. Antitoxic Globulins

	Per Cent.	Per Cent.
Marked constitutional symptoms accompanied by severe and per-		
sistent rash in	28	• •
oped erythema or urticaria	18	4
or less general rash	20	**
general urticaria or erythema	4	34
No appreciable after effects whatever	30	54

#### TABLE IV. Duration of Rashes,

				D	ays.				
	1	2	3	4	5	6	7	8 and Over.	Total Rashes,
Antitoxic globulin cases	4	7	5	3	3		2		23
Whole serum cases	1	4	10	1	10	3	2	5	36

After all the tested patients had become fully convalescent or had left the hospital the histories were finally gone over and compared. It was found that fifty children under ten years of age treated with the whole serum had lived at least nine days, or long enough for the development of serum effects. The first fifty consecutive or long enough for the development of serum effects. The first htty consecutive cases in children under ten years treated with the antitoxic globulins precipitated from the same lot of serum and living nine days or over were taken to compare with these. Table I. gives the salient points for each case treated with the whole serum and Table II. the same for those treated with the solution of antitoxic globulins. Tables III. and IV. summarize these points.

It is noticeable that not only were the rashes more frequent, but also much more persistent in the patients who received the whole serum. Twenty-three rashes following the use of the whole serum lasted over three days in this series, as against only six in the antitoxic globulin cases.

six in the antitoxic globulin cases.

Summary and Conclusions—The results obtained in these series of one hundred cases are so definite that it seems safe to conclude that the removal of a considerable cases are so definite that it seems safe to conclude that the removal of a considerable portion of the non-antitoxic globulins, as well as the albumins from the serum by the Gibson method, has eliminated much of the deleterious matter from the serum, so that severe rashes, joint complications, fever, and other constitutional disturbances are less likely to occur from the antitoxic globulins than from the antitoxic serum from which it was obtained. The globulin preparation when tested by animal experiments appears to retain all the antitoxic properties of the whole serum. The contient of the globuline still recommensions the autitoxic properties of the whole serum. portion of the globulins still accompanying the antitoxin in the Gibson preparation is shown to be capable of exciting rashes and occasionally constitutional disturbances, although, as stated above, to a less extent than the serum. It is almost certain that

methods will be devised to refine antitoxin still farther, and so possibly eliminate all appreciable deleterious effects of the antitoxic serum.

Whether this globulin solution will be much less likely than the serum to cause collapse in the rare cases of peculiar susceptibility, such as in a certain percentage of those suffering from status lymphaticus, is still undertermined. It has now been used in several thousand cases of diphtheria without accident.

The concentration of antitoxin made possible by the elimination of the non-antitoxic substances is not only a convenience, but of distinct clinical importance, as

it tends to encourage large doses.

The antitoxic globulin solution, like the serum, tends to become slightly cloudy when kept at moderate or high temperature, and substances such as solutions of carbolic acid and trikresol are especially likely to cause a precipitate to develop. The antitoxin in the globulin preparation retains its potency about as long as that in the whole serum.

## THE ETIOLOGY AND DIAGNOSIS OF HYDROPHOBIA.

Anna Wessels Williams, Assistant Director, and May Murray Lowden, Assistant Bacteriologist.

## Introduction.

During the spring of 1904 the "Negri bodies" were demonstrated by one of us in smears from the central nervous system of animals dead from hydrophobia. At that smears from the central nervous system of animals dead from hydrophobia. At that time, however, the technic was poor and the stains were unsatisfactory, so the use of the method in diagnosis was not begun. Many of the cases reported by Dr. Poor were studied by us in this way, the "bodies" being demonstrated in smears from three horses and from several dogs and guinea pigs, while they were not found in normal dogs, guinea pigs or rabbits, or in guinea pigs dead from tetanus or diphtheria toxin.

Last fall, in connection with the study of smears from vaccinia and variola stained by Giemsa's method, smears from hydrophobia cases were again tried and it was found that the "bodies" were brought out very clearly and characteristically by the Giemsa solution; and, as a consequence, the present work was planned.

Some of the most interesting material used by us has been obtained through the kindness of Dr. R. J. Wilson and of a number of veterinarians of New York City, to all of whom we wish to express our thanks. Most of the sections have been prepared by Miss C. R. Gurley. All of the work has been done with the help and encouragement of Dr. Wm. H. Park, to whom thanks are due.

Investigations on hydrophobia have been carried on from three principal standpoints; first, the therapeutic; second, the diagnostic, and third, the etiological. Since the establishment of the Pasteur treatment, the importance of making a quick diagnosis has become so evident that the efforts of many workers have been directed toward this end, and only occasionally has the purely etiological standpoint been considered. Pasteur and his immediate followers relied for their diagnosis entirely upon rabbit inoculations, and this meant a fifteen to twenty days' wait before the patient knew whether or not the treatment he was receiving was necessary. In 1898 this time was shortened to about nine days in our laboratory by Wilson, who found that guinea pigs came down with the disease much more quickly than rabbits. From time to time it has been thought that certain histological findings were diagnostic: for instance, the came down with the disease much more quickly than rabbits. From this to thise it has been thought that certain histological findings were diagnostic; for instance, the "rabic tubercles" of babes, and the areas of "round and oval-celled accumulation in the cerebrospinal and sympathetic ganglia" of Van Gehuchten and Nelis, were said to be specific, but further study has shown that they are not absolutely specific for rabies. In many cases the whole picture of the grosser histological changes is sufficiently characteristic to warrant the diagnosis of rabies, but often it is not so.

Bailey, in his studies on the ganglion cells in normal and hydrophobic rabbits gives a good bibliography of the histological findings up to 1901.

It was not until Negri, in 1903, described certain bodies seen by him in the large nerve cells in sections of the central nervous system that anything was found which seemed absolutely specific for hydrophobia. Negri claims that these bodies are

not only specific for rabies, but that they probably are animal parasites, and the cause

not only specific for rabies, but that they probably are animal parasites, and the cause of the disease.

He describes them as usually round or oval bodies from 1 m to 23 m long, and containing vacuoles in some of which are granules of varying size and number; generally there is a central larger structure surrounded by smaller ones. By Mann's method of staining, the organism generally takes a brilliant eosin-red, with the exception of the granules, some of which stain a light blue, and the others a faint red. The central structure gives the appearance of being a nucleus. The bodies are sometimes in touch with the nucleus of the host cell, sometimes far from it, often in the cell branches where they are more elliptical in shape. There are irregular, pear-shaped and three-cornered forms, all of which special shapes Negri thinks due to the position of the organism within the host cell. He speaks of multiplying forms but does not describe any definite division forms. He says he is able to identify the bodies in the hanging-drop fresh, and in a weak acetic acid solution; but does not recommend this method for general use in diagnosis, as it is difficult to differentiate the bodies under these conditions from the nerve-tissue elements. He finds his organism generally in greatest numbers in the large nerve cells of Ammon's horn, less frequently in ally in greatest numbers in the large nerve cells of Ammon's horn, less frequently in those of the cerebral cortex, the cerebellum, the medulla, the spinal cord, and the cerebrospinal ganglia. The organisms vary greatly in numbers in the different cases. In some cases he could find only an occasional one, while in others they were in-

He says very little about the bodies in animals dying of fixed virus, merely stating that they have been found in rabbits that have died on the seventh day after inocula-

that they have been found in rabbits that have died on the seventh day after inoculation with fixed virus, but they are very tiny, infrequent and found with difficulty. He finds the largest forms in dogs inoculated subdurally with street virus.

Negri's work was soon corroborated by many Italian observers. Volpino, Bertarelli, D'Amato, Daddi, Di Vestea, Guarnieri and Martinotti published almost immediately after Negri's first publication. They were soon followed by Celli and De Blasi, Pace and Bosc. The "bodies" have been found by these authors, and later by others in all varieties of animals which are susceptible to hydrophobia, i. e., in dogs, cats, rabbits, rats, mice, guinea pigs, birds, cattle, horses and human beings.

In 1904 Luzzani published a report of 179 cases, and in all but nine of those which were proven by animal inoculation to be rabies, the "Negri bodies" were found.

In our own laboratory in the same year. Poor examined 10 cases of street rabies

were proven by animal inoculation to be rabies, the "Negri bodies" were found. In our own laboratory in the same year, Poor examined 19 cases of street rabies and many cases of experimental rabies, and in all except those inoculated with fixed virus the "bodies" were found. In fixed virus animals he found an occasional homogeneous eosinophilic granule in the cerebellar cells, about which he expressed no opinion. Similar granules were also seen by various other observers, some of whom consider them possibly tiny forms of the organism; but nothing definite has been observed about them, and as indefinite granules have also been seen in other conditions, their significance is uncertain.

significance is uncertain.

In 1904 Negri's work, so far as the presence of these "bodies" in hydrophobia is concerned, was further corroborated by the following workers: Dominici, Marzocchi, Bandini, Fasoli and Schuder. There was no dissenting voice as to their presence, and as to their diagnostic value. Many controls were made by the different observers, especially by Volpino, Marzocchi, Domicini and Poor. They examined tetanus, strychnin, pneumococcus, staphylococcus, alcohol, formalin, tubercle bacillus, diphtheria toxin, and of human beings who had died from epilepsy, syphilis, alcohol poisoning, tuberculosis and various nervous affections. Many normal animals were also examined, all with negative results so far as the "Negri bodies" were concerned.

During this time the "bodies" were tested for their resistence to various physical and chemical agents, such as heat, cold, drying, immersion in glycerin, etc., and they were found to retain their characteristic appearance and virulence after more or less manipulation. It does not necessarily follow, however, that the "bodies," even if they are living organisms, need to retain their characteristic appearance in order

they are living organisms, need to retain their characteristic appearance in order to be virulent. We know, for instance, that trypanosomes may seem to disappear from blood which continues to be infective. (Laveran and Mesnil.)

Remlinger showed that the medulla of rabbits inoculated subdurally with fixed

virus may be virulent on the third day, but he did not work out the exact degree of virulence—that is, the approximate number of organisms in the material inoculated. The fact that it is virulent after inoculation, and that no "Negri bodies" have been found at this early period, he thinks is another indication that they are not organisms. He does not consider the possibility of there being tinier forms than those so far seen, but believes that the organism in its whole life-cycle is ultra-microscopic in

In regard to the significance of the "bodies," up to 1905 all of these authors, with two exceptions, agree with Negri in considering them probably Protozoa and the cause of hydrophobia. The two exceptions are Remlinger and Schuder.

These latter investigators consider the fact that the virus can be filtered through a filter practically impervious to ordinary bacteria, a proof that the "Negri bodies," which they say are too large to pass such a filter, are not the cause of hydrophobia. Bettarelli, however, showed that the residue after filtration was also virulent, and he and others expressed the conjugators that besides forms too large to pass the filter there and others expressed the opinion that besides forms too large to pass the filter, there might be forms tiny enough to do so. We know that in a medium containing a growing protozoon we find both large and small forms, the limits in size of the smallest forms not being known in some cases; the fact, therefore, that the filtered portion and unfiltered solid residue both possess virulence is an added indication that we are

unhitered solid residue both possess virulence is an added indication that we are dealing with Protozoa. MacNeal has shown with the trypanosomes that besides the large forms, there are forms tiny enough to pass a Berkefeld.

Practically nothing has been done with regard to the exact degree of virulence possessed by filtered and unfiltered portions of the emulsions of rabies virus. Late in 1905, Di Vestea showed that the filtered virus possesses characteristics different from unfiltered, thus indicating that the forms in each may be different in character. He thinks that the undiscovered extracellular forms may be tiny enough to pass the

Quite recently Volpino elaborates more fully an hypothesis advanced by him in 1904, in regard to the filterable forms. He thinks that the real organism is very tiny, that probably only the inner bodies in the so-called "Negri body"—the tiny bodies which he had shown to be definite basophilic forms—are the parasites, and that the homogeneous-appearing substance in which they are imbedded and which makes up the rest of the "Negri body" as Negri describes it, is derived from the host cell, caused by the reaction of it to the parasite. He gives a number of drawings arranged in the form of a life-cycle to illustrate this idea.

Negri's latest article, appearing in June, 1905, states that the central body shows Negris latest article, appearing in June, 1905, states that the central body shows more characteristically as a nucleus in sections from rabid cattle which he had stained in a special way by hematoxylin, and that in the same animals there appear bodies presenting characteristics of cysts. These later studies confirm all of his previous work and emphasize the fact that some of the bodies contain a central complex characteristic mass of chromatin, sometimes appearing solidly stained, sometimes as a distinct network, and sometimes encircled by smaller solidly staining masses of chromatin. Each chromatin mass is surrounded by a clear, unstained ring.

The bodies which he interprets as cysts, he describes as similar in dimensions, shapes and general staining characteristics to the other forms, but different in minute structure. By the staining method of Mann they seem to be filled with tiny, refractive, somewhat elongated granules. Some seem to be surrounded by a membrane which is occasionally notched as if about to break. The iron-hematoxylin stain brings out the structure of these bodies very clearly. They seem to be filled with numerous black-staining "spores" less than 1m long and narrower, which appear as tiny filaments slightly curved with a small swelling near the centre.

In 1905 still other workers corroborated Negri's work, among them Abba and Bormans, Way, Zaccaria, Maresch, Schiffmann, Galli-Valerio and Bohne. Only one author failed to corroborate the work. Maas, in sections from a case of human rabies, could find no "Negri bodies." Luzzani in this year published another collection of cases. Out of 457, 297 proved by the biological test to be hydrophobia, and in only nine of these were the "bodies" not found in sections. The bodies were not found in any other animal. any other animal.

Maresch, by Bielschofsky's staining method, claims to have brought out the structure more distinctly.

structure more distinctly.

Schiffmann, after studying the "Negri bodies" as they appear in street rabies and examining many controls, confirming fully the diagnostic value of the "bodies," studied the changes which they seemed to undergo in passage from animal to animal of the same species and of one species to another. He states that the greater the number of passages through a single species of animal, the smaller the "bodies," until in "fixed virus" in down inequalited with rabbit fixed virus. "bodies" in dogs inoculated with rabbit-fixed virus.

Bohne describes the shortest method so far published for examination of sections. The whole process lasts only three hours, and the author states that it is very satisfactory. The method is as follows: Small pieces of the nerve tissue are placed in 15 c.c. of pure aceton and kept at 37° C. for about 30 to 45 minutes. They are then put in 55° paraffin and left from 60 to 75 minutes, boxed, cut at 6 m, dried at 60°, and stained with a modified Mann's method in 4 minutes. The "bodies" show a vaculated and granular structure and some of the elliptical forms seem to be dividing. On the whole, they take more of a magenta stain than the "bodies" do in sections prepared in the regular way. The author considers their parasitic nature still doubtful. doubtful.

During 1905 a good review of recent studies on hydrophobia came out in the "Bulletin de l'Institut Pasteur," and in 1906 Bertarelli published a good review in the "Referate" of the "Centralblatt fur Bakteriologie."

We may sum up the results obtained from the foregoing studies as follows:

I. In nearly 100 per cent. of definite cases of street rabies characteristic "bodies" are found in the large nerve cells of sections from all or from a part of the central nervous system and the connected ganglia.

2. The general characteristics of most of these "bodies" are as follows: Rounded

or oval forms varying in size from 1 m to 25 m, with a homogeneous acidophilic ground substance containing a central body surrounded by granules; these inner bodies vary in structure and staining qualities, but are principally basophilic and be in the form of reticular masses, rings, rods, or points; they are usually situated

within vacuoles.

3. The "bodies" vary also in number, being very few in some cases and numerous in others. According to one author, they become fewer the greater the number of passages through a single species of animal, and are not found in fixed virus. Others have found occasional small forms in fixed virus, but not in large enough numbers

4. No "bodies" have been found before the appearance of symptoms, although the central nervous system is infective before this time.

5. No "bodies" have been found in the peripheral nerves or in the salivary or other glands, although these organs have been shown to possess a certain amount of

infectivity.

6. The most rapid satisfactory method of demonstrating the "bodies" for diagnosis is a complicated section process which takes at least three hours.

7. The filtered virus is infective, therefore some forms of the causative agent

7. The filtered vir must be extremely tiny.

In no other disease have bodies similar in appearance to the "Negri bodies"

been found.

9. When the "bodies" are found in sections, the diagnosis of hydrophobia is certain and the biological test need not be made; when they are not found, the case may have been one of hydrophobia and the biological test must be made.

10. The significance of the "bodies" is still in doubt for the following reasons: They have not been found in all cases of hydrophobia, notably not in fixed virus, neither have they been found in all parts of nervous tissue proved to be virulent, especially before the beginning of symptoms; (b) forms small enough to pass the coarser Berkefeld filters have not been seen; (c) the structure has not been shown definitely to be analogous to that of known living organisms; (d) no definite series of forms indicating growth and multiplication have been demonstrated; (e) the stain-

of forms indicating growth and multiplication have been demonstrated; (e) the staining qualities, contrary to those of known Protozoa, are more acidophilic than basophilic. In January of 1906 one of the writers made a preliminary communication of part of the work reported in the following pages. Emphasis was placed upon the fact that the demonstration of the "Negri bodies" by the "smear method" which was recommended by the writer in 1904 (see discussion under Poor's first article), had, by better technic, proved to be wonderfully successful. By this method the structure of the "bodies" is brought out more definitely than by the section method, and the whole process is much simplified and may be completed within half an hour after removal of the nerve tissue from the animal.

of the nerve tissue from the animal.

The method of examining the central nervous system, especially the brain, by smears has been used by several pathologists, among whom may be mentioned Ewing, who obtained interesting results by this method in his studies on the pathology of ganglion cells.*

Original Work.

The work may be divided into two parts:

The value of the "Negri bodies" in diagnosis and their rapid identification A study of the "bodies" with a view to determining their nature.

In all, 141 animals, including seven varieties, have been studied with these two its in view. The following table gives a classified list of these animals:

points in view. The following table gives a classifi	ed hist of these annuals.	
	Dogs	25
	Cat	1
	Human beings	3
	Dogs	7
	Rabbits	12
Animals inoculated with street rables	Guinea-pigs	3.2
	Mice	5
	Dog	1
	Rabbits	27
Animals inoculated with fixed virus	Guinea-pigs	7
L 1	Mouse	1
	Dogs	12
	Rabbits	4
Control animals	Guinea-pigs	2
	Calf	1
	Human being	1

In the first part of the work we have tried to determine: (1) Whether the "bodies" seen in the smears are similar to those seen in the sections, (2) the correspondence between the smear method, the section method, and the biological test, (3) the comparative value of each method in diagnosis, and (4) the specificity of the "bodies"

It was decided that these points might be brought out by using all three diagnostic tests in a series of street rabies animals and of a number of controls. Therefore with each animal chosen for this purpose the following routine was carried out: (1) the brain, medulla, and parts of the spinal cord and connected ganglia were removed; (2) small pieces from each part were fixed in Zenker's fluid; (3) smears were made from corresponding parts; and (4) animals were inoculated subdurally with an emulsion of corresponding parts, and from the animals that died either smears or sections or both were made.

The technic of the smear work is as follows:

Glass slides and cover-glasses are washed thoroughly with soap and water,

then heated in the flame to get rid of oily substances.

2. A small bit of the gray substance of brain chosen for examination is cut out with a small sharp pair of scissors and placed about one inch from the end of the slide, so as to leave enough room for a label. The cut in the brain should be made at right angles to its surface and a thin slice taken, avoiding the white matter as much as pos-

3. A cover-slip placed over the piece of tissue is pressed upon it until it is spread out in a moderately thin layer, then the cover-slip is moved slowly and evenly

*Just after this paper went to press the article by Frothingham appeared. His work corroborates the results obtained by the smear method of diagnosing rabies. We have tried the impression method which he describes, as well as a number of other methods of making smears of the central nervous system and find the results obtained by them all good in some particulars, but the method we describe has so far given us uniformly better results in the diagnosis work.

over the slide to the end opposite the label. Only slight pressure should be used in making the smear, but slightly more should be exerted on the cover-glass toward the label side of the slide, thus allowing more of the nerve tissue to be carried farther down the smear and producing more well-spread nerve cells. If any thick places are left at the edge of the smear, one or two of them may be spread out toward the side of

left at the edge of the smear, one or two of them may be spread out toward the side of the slide with the edge of the cover-glass. If the first smear does not seem to be well spread out others should be made until a satisfactory one is obtained.

4. For diagnosis work such a smear should be made from at least three different parts of gray matter of the central nervous system: first, from the cortex in the region of the fissure of Rolando or in the region corresponding to it (in the dog the convolution around the crucial sulcus), second, from Ammon's horn, third, from the cerebellum. In many of the animals reported here smears were made from the gray matter of the cerebral cortex, around the fissures of Rolando and Sylvius, from the olfactory bulb, Ammon's horn, cerebellum, medulla in the region of the roots of the cranial nerves, spinal cord in the dorsal and lumbar regions, spinal and Gasserian ganglia, salivary glands, suprarenals pancreas, and some of the peripheral nerves. From the last four-named structures the smears were not very successful, so only a few were made. made.

The smears are dried in air and subjected to one or both of the two following staining methods:

(a) Giemsa's solution. The smears are fixed in methyl alcohol (commercial is (a) Giemsa's solution. The smears are fixed in methyl alcohol (commercial is just as good as pure) for about 5 minutes. The staining solution recommended last by Giemsa! (I drop of the stain to every c.c. of distilled water made alkaline by the previous addition of one drop of a I per cent. solution of potassium carbonate to 10 c.c. of the water) is poured over the slide and allowed to stand for one-half to three hours. The longer time brings out the structure better, and in 24 hours well-made smears are not overstained. After the stain is poured off, the smear is washed in running tap water for one to three minutes, and dried with filter paper. If the smear is thick, the "bodies" may come out a little more clearly by dipping in 50 per cent. methyl alcohol before washing in water, then the washing need not be as thorough. By this method of staining, the cytoplasm of the "bodies" stains blue and the central bodies and chromatoid granules stain a blue-red or azur. Generally the larger "bodies" are a darker blue than the smaller, the smallest of all may be very light (Plate "bodies" are a darker blue than the smaller, the smallest of all may be very light (Plate 19, Journ. Infect. Diseases, 1906). The stain varies somewhat according to the thickness of the smear. Some have a robin's-egg blue tint, but this is after a longer fixation in the methyl alcohol. In this case the red blood cells may have a greenish tint. (See Part II. for full description of "bodies" stained by this method.) The cytoplasm of the nerve cells stains blue also, but with a successfully made smear the cytoplasm is a carread out that the outline and structure of most of the "bodies" are cytoplasm is so spread out that the outline and structure of most of the "bodies" are seen distinctly within it. The nuclei of the nerve cells are stained red with the azur, the nucleoli a dull blue, the red blood cells a pink-yellow, more pink if the decolorization is used. The "bodies" have an appearance of depth, due to their slightly refractive qualities.

For diagnostic purposes this method of staining may be shortened as follows: Methyl alcohol, 5 minutes, equal parts of the Giemsa solution and distilled water, 10 minutes. In this way "bodies" are generally brought out well enough for diagnosis, and sometimes the structure shows distinctly. It is always well, however, to make smears enough for the longer method of staining, in case the shorter one should prove unsatisfactory.

(b) The eosin-methylene blue method recommended by Mallory. The smears are fixed in Zenker's solution for one-half hour; after being rinsed in tap water they are placed successively in 95 per cent. alcohol-hodine one-quarter hour, 95 per cent. alcohol one-half hour, absolute alcohol one-half hour, eosin solution 20 minutes, rinsed in tap water, methylene-blue solution 15 minutes; differentiated in 95 per cent. alcohol lasting from one to five minutes, and dried with filter paper. With this method of staining the cytoplasm of the "bodies" is a magenta, light in the small bodies darker in the larger; the central bodies and chromatoid granules are a very dark blue, the nerve cell cytoplasm, a light blue, the nucleus a darker blue, and the red blood cells a brilliant eosin pink (Plate 18, Journ. Infect. Dis, 1906). With more decolorization in the alcohol the "bodies" are not such a deep magenta and the difference in color between them and the red blood cells is not so marked. (b) The eosin-methylene blue method recommended by Mallory. The smears

The "bodies" and the structure are often more clearly defined with this method The "bodies" and the structure are often more clearly defined with this method and perhaps on the whole it is better to use it for making diagnoses; but when there are only tiny "bodies" present, or when the brain tissue is old and soft, the Giemsa stain seems to be the more successful; above all, when one wishes to study the nature of he centrals tuctures and granules the Giemsa stain must be used. We therefore recommend strongly the use of both methods. Even if both are used and one has to wait for the longer method, the technic is far simpler than any so far published.||

Not only do the "bodies" come out more distinctly by the smear method, but the pathological changes accompanying them are well demonstrated. For instance, the swellings of the neuro-fibrils described by Ramon y Cajal, the collections of the lymphoid cells, the increase of the endothelioid cells, the degenerated nerve cells are all clearly seen.

all clearly seen.

lymphoid cells, the increase of the endothelioid cells, the degenerated nerve cells are all clearly seen.

The technic of the section work is as follows: (1) The small pieces are left in Zenker's fluid for three to four hours; (2) washed in tap water for five minutes; (3) placed in 80 per cent. alcohol+iodine (enough tincture of iodine added to give port wine color) for about 24 hours; (4) 95 per cent. alcohol+iodine 24 hours; (5) 95 per cent. alcohol 24 hours; (6) absolute alcohol from four to six hours; (7) cedar oil until cleared; (8) cedar oil+paraffin 52° aa, two hours; (9) paraffin 52° two hours in each of two baths; (10) boxing; (11) sections are cut at 3 to 6 m, dried in thermostat at 36° C. for about 24 hours protected from the dust, and stained according to the cosin and methylene blue method recommended by Malloy. The most important point in the technic is the time the material is allowed to remain in Zenker. According to our experience, two hours' fixation is not enough, three to four hours is very good, and with every hour after five hours the results become less satisfactory. Left in Zenker over night the tissue is granular and takes the cosin strain more or less deeply, both of which results interfere with the appearance of the tiniest "bodies," especially of the very delicate, tiny forms found by us in sections from fixed virus. Another point in favor of the short fixation in Zenker is that the precipitate formed by the mercury is not so great and is more easily got rid of, which is a very great help in the identification of the tiniest forms. Schiffmann recommends short fixation in Zenker, but he does not state the time he finds best.

It is thought, also, that washing for any great length of time in water after fixation does not help the specimens, the few that were left for a much longer time than the five minutes are not as satisfactory as the others.

In regard to the rest of the technic, it is sufficient to say that the changes to the different fluids were made with great regularity and th

In regard to the rest of the technic, it is sufficient to say that the changes to the different fluids were made with great regularity, and the final differentiation in alcohol of the stained sections was done most carefully.

In the sections made in this way we have been able to demonstrate clearly very tiny forms as well as good structure in the larger forms, a description of which will

be given in Part II.

†This method has proved so practical in our hands that an effort is being made to extend its

The Board of Health of New York City is preparing a circular containing a description of the foregoing technic, with more explicit directions in regard to the regions from which the smears are to be made, with the added information that such smears, as well as the fresh material, may be sent to the nearest laboratory familiar with the appearance of the "Negri bodies" or to the Research Laboratory of the New York Health Department. If the smears have been made successfully and the "Negri bodies" are found, the sender may receive word almost immediately, and no sections or inoculations of the material need be made.

\$\frac{1}{2} \text{Azur II.} = \text{Losin} & \text{3.0 g} & \text

§Dr. Poor recommends it strongly for diagnostic purposes.

§Dr. Poor recommends it strongly for diagnostic purposes.

||Van Gieson working in our laboratory, suggests a staining method which differentiates the "Negri bodies" more quickly than either of the two methods described above. So far, the best proportion of the stains used have not been determined, but satisfactory results have been obtained from the following mixture: To 10 drops of distilled water three drops of a sat. alc. sol. of rose anilin violet and six drops of Loffler's solution of methylene blue are added. The smears are fixed while moist in methyl alcohol for one minute. The stain is then poured on, warmed until it steams, poured off, and the smear is rinsed in water and allowed to dry.

The cytoplasm of the "bodies" is a deep and distinctive red, their inner structures are a dark blue, the nerve cells are a light blue and the blood cells a pale salmon-red.

The staining mixture remains good for about an hour.

TABLE I.

Results of Examination of Rabies Material by Means of Smears, Sections and Animal Inoculations.

No.	Species.	Date of Autopsy.	Clinical Diagnosis.	Presence of Negri Bodies in Smears.	Presence of Negri Bodies in ' Sections,	Result of Animal Inocula- tion.	Bodies in Smears from Animals	Presence of Negri Bodies in Sections from Animals Inoculated.
		1905.						
1.	Dog	11-10	Rabies	+	**	+	• • •	**
2.	Dog	11-23	Rabies	+	+	11		••
3.	Dog	12- 2	Doubtful	+	+	7.7	••	**
4.	Dog	12- 4	Rabies	+	+	. **	**	• •
5.	Dog	12- 9	Suspicious	-	-	-	**	
6.	Dog	12- 9	Suspicious	-	_	-		44
7.	Dog	12- 9	Suspicious	_	_	_		
8.	Dog	12-15	Rabies	+	44	+	+	+
		1906.	Dekler					
9.	Dog	1-4	Rabies	+	+	+	+	+
10.	Dog	1-10	Rabies	+	+	• •	**	** *
11.	Dog	1—18	Doubtful	-	**		**	**
12.	Dog	1-22	Rabies	+	+	+	+	+
13.	Dog	1—26	Rabies	+	+	+	+	+
14.	Dog	1-29	Rabies	+	+		**	***
15.	Dog	2-20	Rabies	+	+	+	+	111
16.	Dog	2-23	Rabies	+	+	+	+	+
17.	Dog	2-26	Rabies	*D'btful	++	+	+	+
18.	Dog	2-26	Doubtful	_	_	_		
19.	Dog	2-27	Rabies	+		+		
20.	Dog	3— 2	Rabies	+	+	+	+	+
21.	Dog	3-3	Rabies	+	+	+	+	+
	200		Distemper or Rabies		+			
22.	Dog	3— 6				+	+	+
23.	Dog	3-12	Rabies		+			
24.	Dog	3-13	Rabics		+	+	+	+
25.	Dog	3-26	Rabies	+	+			
12		1905.						
26.	Cat	12- 5	Rabies			+	***	
27.	Human	11-10	Rabies		+	+	+	••
28.	Child	11-16	Rabies	+	+	+	+	**
		1906.						
29.	Child	1-16	Rabies	+ '	+ .	+	+	+
30.	Human	1- 9	Alcoholic neurities	_	_	-		
31.	Dog	1- 4	Inoculated with human	1				
32.	Dog	1-16	rabies. No symptoms. Inoculated with human rabies. No symptoms.	_	14		**	
33.	Dog	1-30	rabies. No symptoms. Inoculated with human	-	-			••
			Inoculated with human rabies. Typical symptoms	+	+			
34.	Dog	1-31	Inoculated with human	1			122	
	Dog	2- 6	symptoms	+	+	+		
35.	Dog	2- 0	Inoculated with human		4			
36.	Dog	2-15	Inoculated with human rabies. Typica symptoms	ì	+	+	+	+
37-	Dog	3- 6	Inoculated with street	t		-	T	-
		1905.	rabies. Typica symptoms		**	+	+	+
38.	Calf		Normal					
39.	Dog		Normal					
40.	Dog				**			
41.	Dog		Normal					
			Normal					2.5
42.	Dog							
43-			Normal		**	**	••	
44-	Dog	******	Normal	-	_	_	**	**

^{*} Brain in bad condition. Two days old.

A few tiny "bodies" found.

In Table I we have given the results of the animals studied with a view of determining the four points mentioned at the beginning of this section. In some of them the full examination as planned was carried out, in others, besides the smears, only sections or animal inoculations were made. The controls are not as many as might have made had not so much control work been done previously by us and by so many others.

The results are as follows:

1. No control animal shows appearances similar to the "Negri bodies," either in smears or in sections. The various suspicious cases, especially the case of the dog with filaria, we consider among the best controls, because here we are dealing with animals dead after symptoms similar to those of hydrophobia.

2. In all of the cases proved by the biological test to be hydrophobia, "Negri bodies" are found in either smears or sections or in both.

3. In the animals which had been inoculated from these animals "Negri bodies" are found in either smears or sections or in both.

are found in either smears or sections or in both.

4. The general characteristics of the "bodies" seen in the smears are similar to those of the "bodies" seen in sections.

5. The three tests correspond as to diagnostic results.
6. The smear method is much better than the section method in demonstrating the "bodies" for diagnostic purposes.
7. When the "bodies" are present in the smears the diagnosis of hydrophobia is certain, even if the biological test is negative. When they are not found the diagnosis is uncertain.

8. In a very few cases of street rabies, only extremely tiny forms are found. These may be easier to find in sections than in smears.

9. In doubtful or negative cases both the section method and animal inoculations should be tried.

II,

In studying the nature of these bodies many points have only been touched upon and others are still being investigated, but we believe that enough new knowledge has been gained to warrant this publication.* The plan of this part of the work is

- I. The comparison of the general in smears, in sections, in hanging-drop.
  - in different species of animals. in different animals of same species. Shape in different parts of same animal. in different stages of the disease. Number
  - (d) Site (d) Site in different numbers of passages. after different modes of inoculation. Detailed characteristics of structure.

Cytoplasm. Central bodies.

- Chromatoid granules. (c) (d) Different shapes
- transverse Division forms { longitudinal. (e) budding.

Conjugation forms

(g) Stages at which different forms appear. Relation between the time the central nervous tissue becomes infected and

the time the bodies appear.

Spread of the bodies to different parts of the host.

Significance of the bodies and comparison with known organisms.

General Characteristics of Bodies in Smears Compared with those in Sections: Size—The majority of the forms seem larger in smears than they do in sections:

Size—The majority of the forms seem larger in smears than they do in sections from the same case. The largest forms measured are about 18 m and the smallest structured forms about 0.5 m. We can easily see that a form appearing as 0.5 m in a smear might scarcely be visible in a section, and that such tiny forms, considering their extreme plasticity (see under structure), might easily pass the coarser Berkefeld filters. We have found that the size varies more with the course of the disease (which includes the question of accustoming the virus to the host, e. g. fixed virus), than it does merely with different species of animals. This means that the bodies may vary greatly in different stages of the disease. We may say in general that no very large forms are found in the early stages of the disease or in any stage in certain varieties of especially susceptible animals to which the virus has become accustomed (fixed virus). While in later stages of the disease or in any stage in certain varieties of especially susceptible animals to which the virus has become accustomed (fixed virus). While in later stages of the disease in animals inoculated with virus from another species, or in varieties of animals that are not fully susceptible to the disease, both large and small forms are found.

We have not yet had the opportunity of examining smears from rabid cattle, so we are not able to corroborate the statement of Negri that the largest forms are found in this variety of animal; but if it holds, it would seem that the reasons for the fact might be that cattle are among the less susceptible animals, and that they are generally inoculated with a virus from a different species of animal. Of course, other things being equal, we should expect a certain amount of variation in size and structure of an organism growing in different species of animals, just as we get variations in the same variety of bacteria and of other low forms of life grown in d Size-The majority of the forms seem larger in smears than they do in sections from

or too unequal pressure in making the smears) the bodies are broken up and their identity lost. The principal types of shapes seen in smears are given in the accompanying plates. Plate 19, Figs. 3 to 56, inclusive, and the photographs may be studied in this connection. The same types of shapes are seen in all varieties of animals studied.

Number—Generally more bodies are seen in smears than in sections from similar parts of the same case. Since we have learned to identify many tiny bodies, we have found that there are more in all cases, including fixed-virus cases, than have hitherto been reported. In any case we feel that we are able to demonstrate enough forms, or, at least, to account for enough forms, to correspond to the degree of infectivity of the

part.

Site—As is shown in Plate 18, Fig. 2, in the "Journal of Infectious Diseases," 1906, page 484, the topography of the bodies may be well preserved in smears. Their situation in the cytoplasm of the body and branches of the larger nerve cells is well shown. In parts of the smear which are more broken up the bodies may appear as if lying free, and it is these bodies, if the pressure has not been too great, that show the structure best. Such bodies have for the most part been chosen for the photographs (especially 1, 2, 4 and 5). There are often many tiny "bodies" in degenerating nerve cells, but these show better in sections than in smears. The tiny forms which we have seen in the nuclei of the host cells also appear more distinct in sections than in smears.

smears.†

Structure—The principal point in favor of the smear method of examination is that the structure of the bodies comes out so clearly and so characteristically that it is easy to draw a close analogy between it and that of known Protozoa. In the first place, as has been shown by Negri and most of the other investigators, the following fact holds true: Wherever the variety or species of animal infected, the bodies preserve their same general characteristic structure, i. e., a hyaline cytoplasm with an entire margin, and with one or more inner bodies having a more or less complicated and regular structure. This fact alone, that by such an entirely different method of examination the bodies show the same characteristic structure in so many different varieties of animals, is a very strong point in favor of their not being degeneration varieties of animals, is a very strong point in favor of their not being degeneration

forms.

In general we may say the same things in regard to the relation between structure of the "bodies" and the variety, etc., of the animal, that we did when discussing size, because their structure varies to a certain extent with their size. The tiny forms, rounded, with a more or less centrally-situated chromatin-staining granule, slightly larger forms with three to several such granules (often four), elongated forms with a central chromatin line, and tiny forms in two or in groups of three or more (Plate 19, Figs. 3-8) are the only types found in fixed virus (with an occasional slightly larger form containing a larger central body and a few tiny granules). The tiny forms found in fixed virus seem to be far more delicate than apparently equally tiny forms seen in other lesions, that is, they take the stain more delicately, the central structure is not so distinct, and the whole body is more easily destroyed by pressure in the former than in the latter case. Hence, it is only in the best made smears that these fixed-virus forms are seen, and then only after the eve has been accustomed to their fixed-virus forms are seen, and then only after the eye has been accustomed to their

very delicate coloring and outline.

The forms found in fixed virus animals are the only ones which are better preserved or at least which are more distinctly seen in sections than in smears. This is due probably to their extreme delicacy. The fact that we have found very many forms in all cases (15) of developed fixed-virus infection studied makes it probable that they are present in every case and that they come out better with the technic described in Part I. than with the technic followed by other investigators. In regard to their specificity, we would say that we have made few controls, for the following reason: As slight alterations in technic seem to interfere with their demonstration, and as, therefore, their non-appearance might not mean that they are not present, large numbers of animals would have to be examined before one could be sure that forms simulating them might not be present in certain cases. The facts, however, that in our four controls and in the first two days after inoculation of a series of ten experimental rabbits (see below for details of this experiment), they are not found, and that when they do appear they possess certain characteristics in structure, site and number corresponding to the course of the disease, makes it pretty evident that we are dealing with the specific organism. These bodies have the following characteristics: They are tiny rounded forms, sometimes wavy in outline, as if possessing slight amoeboid

^{* [}The editor regrets being unable to reproduce the plates accompanying the original article. y will be found on page 483 of the "Journal of Infectious Diseases," Chicago, 1906.] They † With van Gieson's new staining method these tiny forms are well differentiated in smears.

motion; sometimes elongated, extending along the rim of the host-cell nucleus, motion; sometimes elongated, extending along the rim of the host-cell nucleus, or along one of the nerve fibrils, as if moving there; they take a delicate, light magenta stain, very similar to that taken by the small serum globules in the blood vessels, and it would be difficult, if not impossible, to distinguish some of them from these serum globules if they were in the blood vessels. Many of the organisms, however, show a small chromatin granule, situated more or less eccentrically, sometimes on the very rim of the body. In the larger forms the granule is large; in the smaller it cannot always be seen (Plate 18, Fig. 1, "Journal of Infectious Diseases," 1906); some of the larger forms show from two to several granules, and occasionally there is a body with the definite central body and the small granules about it. In these fixed-virus sections we have found certain tiny bodies in some of the nerve-cell nuclei, especially in the smaller of those cells which show decided degenerative changes of the cytoplasm. These intranuclear forms seem to stand out quite distinctly from the rounded, acid-staining degenforms seem to stand out quite distinctly from the rounded, acid-staining degen-erative masses. The latter are not so refractive as the former. The intranuclear forms have not yet been studied sufficiently to allow a decided opinion in regard to their place in the life-history of the organism. They are quite frequent in the olfactory bulbs of guinea pigs after inoculation with rabbit-fixed virus.

The fact that none of the larger forms of the "bodies" are found in animals dying after fixed-virus inoculations is an added indication that the bodies are not products of degeneration of the host cells.

That the development of only these tiny forms with their simple structure in fixed-virus animals is due to the fact that the special strain inoculated is accustomed to the one variety of host is shown by the result obtained by inoculating the strain into another variety of animal. We have inoculated one dog and several guinea pigs subdurally and three mice subcutaneously with fixed virus from the rabbit, and in each case (in only one case in mice, as only one of the three died) besides the tiny forms there have been numerous large forms with the characteristic deficite were or less complicated structure (corresponding to Plate acteristic, definite, more or less complicated structure (corresponding to Plate 19, Figs. 17-34, "Journal of Infectious Diseases," 1906). This is contrary to the results obtained by Schiffmann upon inoculating rabbit-fixed virus into dogs. In his cases he could find no bodies whatever. On the other hand, we have had delayed fixed-virus action in one rabbit (inoculated with 2 c.c. of a thin emulsion into the ear vein, with death on the 11th day after typical symptoms of paralytic rabies), and in this animal we found only the tiny, delicate forms found in the other fixed-virus rabbits.

In regard to variations in structure at different stages of the disease, most of our study has been made upon animals inoculated with fixed virus, and the forms and structure in these cases seem to be about the same in the early stages as in later ones. It would seem that under these favorable conditions for the organism it grows and divides so rapidly from the beginning and infects so many of the host cells, that the animal is overwhelmed before the parasite has a chance to develop the larger forms. The results are different in the animals inoculated with

We inoculated one series of seven rabbits with street virus from a dog, killed the first animal on the seventh day after and the others, respectively, on the ninth, eleventh, twelfth, fourteenth, sixteenth and seventeenth days. The results as to number and structure of the bodies are briefly as follows:

Seventh-day Rabbit—In the bodies of the large nerve cell of Ammon's horn

Seventh-day Rabbit—In the bodies of the large nerve cell of Ammon's horn and cerebral cortex an occasional tiny form and an occasional one of the intermediate grades were seen. (Forms corresponding to Plate 19, Figs. 3-16, "Journal of Infectious Diseases," 1906.)

No definite extracellular forms were seen, but neither sections nor smears have yet been studied minutely. This is the earliest day reported for forms found after inoculations with street virus. Negri reports finding them on the tenth day in a dog. In our series of animals those that were allowed to remain alive did not begin to have visible symptoms until the thirteenth and fourteenth days.

Ninth-day Rabbit—Many very definitely structured forms were seen in the large nerve cells of practically all parts of the cerebral nervous system, smears and sections showing equally well. The forms corresponding to Plate 19, Figs. 3-12, were in the majority, those corresponding to Figs. 13-16 in moderate numbers, and those corresponding to Figs. 17-32 occasionally.

Eleventh-day Rabbit—Practically no difference between it and ninth day one. In the twelfth, fourteenth, sixteenth and seventeenth-day rabbits the larger forms appeared in gradually larger numbers, and many more division forms were seen.

So far most of the study in this series has been made on the earlier stages. There are no marked differences in the "bodies" found in different parts of the central nervous system of one animal dead twenty-five days after inoculation into the sciatic nerve. The general histological lesions are more intense in the cord, and there is a larger number of the larger "bodies" there than usual, but the "bodies" in the brain are about the same in number and structure as in ani-

the "bodies" in the brain are about the same in number and structure as in animals dying from subdural inoculations.

Appearance of "Bodies" in Hanging Drop—So far we have done only enough work with the hanging drop to make us realize that it is an extremely difficult method of study, and needs most careful control at each step. There is no doubt that certain forms of the organism can be recognized; but the nerve tissue elements change so quickly, assuming flagellated and delicately granular form which simulate those of known organisms, that the control must be at one's side before one realizes that the object studied is not a living organism.

Detailed Characteristics of Structure.—In smears as well as in sections, the extendam appears quite homogeneous, there is no evidence of a reticulum, or of a

cytoplasm appears quite homogeneous, there is no evidence of a reticulum, or of a granular structure outside of the definite chromatoid granules. The smears, however, have brought out one important point in regard to the cytoplasm more clearly than the sections, and that is that it is more basophilic than acidophilic in staining qualities. With the Giemsa stain, as we have seen in Part I., it takes the methylene-blue stain more than the eosin-red, and even with the simple eosin methylene-blue stain the

protoplasm appears as a deep magenta unless much decolorized.

One of the points, then, which has been brought up against the protozoan theory falls to the ground. The cytoplasm takes the stain as does that of many well-known

falls to the ground. The cytoplasm takes the stain as does that of many well-known protozoa—the malarial organism, for instance.

In studying the central bodies of these organisms, as they appear in the smears, one of the first things noticeable is that they are not surrounded by a clear space—that there is no sign of a vacuolar appearance in the whole body. This is a very different appearance from that given in the sections, and it shows that the vacuoles described in the sections are artefacts due to the technic. We notice next that in the great majority of the organisms the central body stands out clearly, as decidedly different in structure, and slightly so in staining qualities, from the chromatoid granules which surround it. The general type of the structure of the central body is that of well-known protozoan nuclei; for example, Prowazek gives a descript of the nucleus in certain stages of the Plasmodiophora brassicae, which might be used here to describe the most typical appearance of these central bodies.

The chromatin is arranged in a more or less granular ring around the periphery of the central body or nucleus leaving an achromatic or more acid-staining centre in which is situated, generally eccentrically, a varying-sized karyosome (Plate 19, Fig. 37, "Journal Infect. Diseases," 1906). There are a number of variations from this principal type, according to stage of development. Often the whole nucleus answers to the description of the compound karyosomo given by Calkins in his description of the protozoan nucleus. In the tiny "bodies" the chromatin can only be seen as a dot, in those a little larger it may be a large solidly staining granule, or a ring or rod, the latter often hour-glass shaped. In forms large enough for the characteristic structure to be developed and to be clearly seen, the central body may show evidence of fragmentation (Plate 19, Fig. 18, 38, 51, etc., "Journal Infect. Diseases," 1906). Just such evidence of fragmentation is shown in many protozoan nuclei preparatory to division. It is interesting that forms showing this phase, and, moreover, very similar in general appearance to some of the forms seen here, have been depicted by Doflein in the early stages of the life-cycle of Glugea lophii, a myxosporidium, parasitic in the ganglion cells of a fish (Lophius piscatorius).* The staining of the nucleus will be considered with that of the chromatoid granules.

The chromatoid granules are most frequently arranged in a more or less complete circle about the nucleus. They are somewhat irregular in outline and size, being occasionally ring-shaped, sometimes elongated, often in twos, due probably to active The chromatin is arranged in a more or less granular ring around the periphery

*In Doflein's later classification (1901) he names this species Nosema lophii and places in the suborder Microsporidia under the order Cnidosporidia.

changes of growth and division. They take generally a more mixed chromatin stain than the chromatin of the nucleus. This fact is brought out in the Giemsa-stained smears. Here the nuclear chromatin takes generally a definite azure tint, while the chromatoid granules are more of a blue, though sometimes they may appear more red, That the red in the central body and granules is not an eosin-red, is shown first by its peculiar magenta tint, and second by the fact that when partly decolorized by methyl alcohol, the red color disappears from these structures, leaving them a dark blue, while the cytoplasm is a pale blue-pink and the red blood cells are a definite eosin-pink. If a dilute methyl alcohol is used, an interesting series of differentiations in color may be obtained. Such a more or less regular arrangement of chromatoid granules in the cytoplasm of Protozoa is of frequent occurrence (Calkins, Minchin). It is a marked feature, according to the observations of one of us, in certain stages of the Plasmodiophora brassicae. The further changes in the central bodies and granules will be considered under division forms.

Different Shapes.—We agree with Negri in considering many of the different shapes due to the position of the organism in the host cell. There is no doubt that the substance of these bodies is extremely delicate and plastic, easily adapting itself to the position in which it is found and easily destroyed by artificial means. Many of the elongated forms are forms growing and dividing in this way because of position between the fibrile. The triangular forms (Plate to Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at Fibre 19 and Plate at F

to the position in which it is found and easily destroyed by artificial means. Many of the elongated forms are forms growing and dividing in this way because of position between the fibrils. The triangular forms (Plate 19, Figs. 26, 50, and Plate 21, Fig. 7, "Journal Infect. Diseases," 1906) are probably forms that have grown in the angle made by the giving off of a nerve cell branch. They have been placed by us, in Plate 19, underneath the much elongated forms as possible division forms of the latter; but they probably are not. The principal cause of most of the different shapes, however, is the rapid growth and division of the organism.

Division Forms.—The whole picture is one of rapid growth and multiplication, and this corresponds with the clinical history. The elongated forms containing from two to five or even six nuclei are the result of rapid nuclear division without corresponding cell division. This condition is found quite frequently in Protozoa (Thelohania Mulleri, Minchin, p. 292). The elongation in this way is probably due, as we have said, to the position of these bodies between the nerve fibrils, and to their great

Under the most favorable conditions (fixed virus), growth and division occur most rapidly and simply, the tiny forms dividing and redividing apparently indefinitely. Whether there is simple conjugation, or fusion of unequally divided forms during this condition, it is difficult to say. It would probably take much study to settle this question. Small mulberry masses are found during this stage, but whether they are the result of the breaking up of a larger form or of the rapid division of a tiny form it is impossible for us to say as yet. We have also seen appearances which suggest plasmodial phases. There seems to be distinct evidence of an intranuclear invasion also in fixed-virus infection.

in fixed-virus infection.

modal phases. There seems to be distinct evidence of an intranuclear invasion also in fixed-virus infection.

In cases where there has been an inoculation of comparatively small quantities of the virus, i.e., a small number of forms of the parasite capable of immediate infection, or in cases where there has been an infection of less susceptible animals (dogs, cattle, human beings, etc.), or with a less accustomed virus (fixed virus of rabbits into guinea-pigs or mice), we get a slower growth with its larger structures and different division forms. The chromatin accumulation in the form of a definite nucleus, apparently undergoes fragmentation very easily, and so we have forms containing two to several central bodies, some rounded (Plate 19, Figs. 12, 13, 14, 19, etc., "Journal Infect. Diseases," 1906), some elongated (Fig. 15), some of unequal division, similar to budding (Fig. 29). Then we find forms with bodies apparently differentiated within one membrane (Figs. 20, 31, 53), and bodies with practically all stages of hour-glass constriction, indicating transverse division (Fig. 32). Many pairs, unequal in size, apparently fusing or dividing, have been seen (Figs. 33, 45), and finally, we have large bodies with the chromatin scattered throughout the whole organism in the form of tiny, unevenly rounded or elongated masses, one or two larger, indicating the remains of the nucleus, and in these forms we get all stages of apparent budding (Figs. 40, 41, 42, 54, 55). The buds vary somewhat in size, some being very tiny. The formation of buds accounts for the appearance in the same cell of both large and small forms. It also helps to account for the rapid spread of the organisms. These tiny budded forms similar to "swarm spores" are probably motile and pass quickly to other host cells.

We have also formed a number of more or less indefinite masses, taking the stain.

quickly to other host cells.

We have also found a number of more or less indefinite masses, taking the stain a little more deeply than the other bodies, and apparently made up of large numbers of tiny bodies, but so far they have been too indefinite for us to be sure that we have cystlike structures. We have not studied the sections minutely enough yet to find out how such structures appear there, or whether they are similar to the "cysts"

described by Negri.

Conjugation Forms.—At first sight "the buds" were thought by us to be possibly conjugating individuals, but when on further study they were found to be principally, if not entirely, in forms which showed marked fragmentation of the chromatin, they were interpreted as budding forms. Such unequal forms as are represented in Plate

were interpreted as budding forms. Such unequal forms as are represented in Plate 19, Figs. 33 and 45, may be conjugating forms, but so far we have not been able to decide as to their significance.

The Relation Between the Time the Central Nervous Tissue Becomes Infective and the Time the Bodies Appear.—Our principal work on this point has been done with fixed virus. After finding that tiny, characteristic forms were found in two rabbits dying on the eighth and ninth days after subdural inoculation with fixed virus, we inoculated ten rabbits subdurally with fixed virus (629th passage), killed one every day by chloroform, and examined the central nervous system in the following way: One-half of the brain and medulla, including the olfactory bulb, was cut into slices, and with slices from the dorsal and lumbar spinal cord, including one or two spinal ganglia, was placed in Zenker and subjected to the technic for sections mentioned in Part I. From the other half of the brain and corresponding parts of the cord, two sets of smears were made, and each stained respectively by the two methods mentioned in Part I. Unfortunately, with this series of animals, we did not test the virulence of the nerve tissues, so we do not know at exactly what period it became distinctly virulent. However, in an earlier series of eight rabbits inoculated in the same way and from which only smears were made, Dr. Poor tested the in the same way and from which only smears were made, Dr. Poor tested the virulence roughly, as follows: One animal was killed each day, with the exception of the eighth, which died on the ninth day. From the lumbar cord and from Ammon's horn pieces of about the same size, so far as we could judge from eye measurement, were cut. Two dilutions were made from each piece, a stronger one, by the addition of 3 c. c. of normal salt solution, making an emulsion; and a weaker one, by making a 1: 1,000 dilution of the stronger. Two guinea pigs were inoculated with the weak dilution ½ c.c. each; two with the strong dilution, ½ c.c. each.

Of the animals inoculated with the weak dilutions of the cord, none died; of those inoculated with weak dilutions of the brain, none died from the first or second day rabbits, one died from the third day and one from the fourth day animal, none from the fifth day, one from the sixth day, two from the seventh day and none from the ninth day animal. Of the animals inoculated with the strong dilutions of the cord, none died from first, second, third and fourth day rabbits; one from the fifth day, one from the sixth day and none from the seventh day animal. Eighth and ninth day animals were not inoculated. Of the animals inoculated with the strong dilutions day animals were not inoculated. Of the animals inoculated with the strong dilutions of the brain, none died from first and second day rabbits, two died from the third, fourth, fifth, sixth and seventh day rabbits; eighth and ninth day animals not inocu-

In this experiment, then, the weak dilution of the cord was not infective in the doses used; the strong dilution was not infective until the fifth day, and then not regularly so; while both dilutions of the brain became infective on the third day, the weaker one less so, and continued so to the end. These results corroborate the work of Remlinger, who found the medulla virulent on the third or fourth day after subdural inoculations of fixed virus.

In neither of these sets of experiments has the approximate number of organisms present been shown, and until we know this we cannot say that in any measured amount of infective material there may be more than an occasional tiny form, which it might be very difficult, perhaps impossible, to find in sections or smears of such

In the examination of the ten rabbits mentioned first in this connection, although we have so far studied only a comparatively few sections, we have found the bodies appearing as follows: On the first and second days, none; on the third day an occasional one in the large lymphoid cells of the perivascular lymph spaces at the base of Ammon's horn; on the fourth day a few tiny undoubted ones in the large nerve cells of the olfactory bulb, of the lower curve of Ammon's horn, and of the motor area of the cerebral cortex; on the fifth, a moderate number in the same areas and in

scattered cells throughout the whole brain; on the sixth, many in the same areas and in the medulla; on the seventh (two animals), on the eighth and on the ninth, very many, as in the other fixed virus animals studied (Plate 18, Fig. 1, "Journ. Infect.

From this series of experiments it seems that the bodies may be found soon enough and in practically large enough numbers to account for the beginning infectivity of the nerve tissue, and that with only a little more careful experimenting this may be

brought out clearly.

Four control rabbits were studied in this connection, two normal rabbits, one

Four control rabbits were studied in this connection, two normal rabbits, one which had died from pneumococcus infection and one from yeast infection.

Spread of the Bodies to Different Parts of the Host.—This point is now being studied by us. It is taken up under two heads: first, the spread of the organisms from the point of inoculation, and second, its spread from the site of infection.

In whatever way the virus enters the body, so far as we know, there is no development of the organism, or none, to any appreciable extent, until it reaches the central nervous system, and not until after a certain amount of development there does it infect the peripheral organs. Before the disease was well studied it was thought that the salivary glands were the chief site of the infection. But it has been shown that these glands are not always infective, and when they are, not until comparatively late in the disease and that when the virus is inoculated into them, the animal seldom comes down with the disease and probably never if the centripetal nerves are cut comes down with the disease and probably never if the centripetal nerves are cut (Bertarelli). This means that the parasite does not grow in the salivary glands, that it is only carried there incidentally by its spread from the central nervous system it is only carried there incidentally by its spread from the central nervous system along the nerve branches. That the organisms escape into the blood and are carried in this way in small numbers is shown by the fact that the blood in large quantities has been found infective (Marie). Principally by the nerve channels, secondarily by the blood and lymph channels, the organisms are carried in small numbers to all parts of the body. With other investigators, we have found the suprarenal capsules infective (in one out of two street-rabies dogs). One of the three guinea-pigs inoculated died after typical symptoms of rabies, and the central nervous system showed many good-sized bodies and was infective for other animals. If it is true that the organisms pass in such comparatively small numbers to the various peripheral organs. organisms pass in such comparatively small numbers to the various peripheral organs, and especially if only the smaller forms pass, then our chances of identifying them in the salivary and other glands are very slight. Smears from these parts are un-

satisfactory, and we have not yet been able to study the sections.

In regard to the spread of the organisms from the point of inoculation, the parasites are probably carried to the central nervous system along channels similar to

In regard to the spread of the organisms from the point of inoculation, the parasites are probably carried to the central nervous system along channels similar to those by which they are carried away, and unless enough of them can quickly reach the nerve cells, they are probably destroyed by the macrophages. We have found, as we have said, what appear to be tiny bodies in the large lymph cells on the third day after inoculation with fixed virus. In one fixed-virus rabbit, found dead on the morning of the seventh day after inoculation, an animal which had been used before, and whose resistance was probably lessened, the central nervous system was loaded with large lymphoid cells, many of which were apparently filled with tiny organisms.

This question is still being studied.

Significance of the "Bodies" and Comparison with known Organisms—Although it may be questioned whether enough forms have been found to account for every stage in a life-cycle, it is certain that the great majority of the bodies stand out so clearly as organisms with such definite, constant, characteristic, structure and staining reactions and show so many forms similar to division forms of known Protozoa, that the picture is difficult to explain in any other way than as that of a developing organism belonging to the group Protozoa. It seems unnecessary further to consider the possibility of their being changed red blood cells or any other form of degeneration of the host tissue; and this alone is evidence in favor of their being organisms.

From time to time cases have occurred in which the "bodies" are seen in such numbers and in such stages of development that we are as sure of their being organisms as we are that the bodies photographed by Wright from Delhi boil, are organisms. As we study the picture further and find at almost every step analogies in the life-cycle of known Protozoa, the evidence is so overwhelming that there seems no reason to doubt that they are living organisms; the small single forms with their tiny chromatin centra a phenomenon which has been described as occurring in all classes of Protozoa (Calkins, Minchin)—all these and more make a collection of evidence which amounts

The parasite seems to possess more points of resemblance to organisms belonging to the sub-order Microsporidia, than to those of any other order.

## Summary and Conclusions.

1. The smear method of examining the Negri bodies is superior to any other method so far published for the following reasons: (a) It is simpler, shorter, and less expensive; (b) The Negri bodies appear much more distinct and characteristic. For this reason and the preceding one, its value in diagnostic work is great; (c) The minute structure of the Negri bodies can be demonstrated more clearly; (d) Characteristic staining reactions are brought out.

2. The Negri bodies as shown by the smears as well as by the sections are specific to hydrophobia.

specific to hydrophobia.

3. Numerous "bodies" are found in fixed virus.

4. "Bodies" are found before the beginning of visible symptoms—i. e., on the fourth day in fixed virus, on the seventh day in street virus, and evidence is given that they may be found early enough to account for the appearance of infectivity in

5. Forms similar in structure and staining qualities to the others, but just within the limits of visible structure at (1,500 diam, magnification) have been seen. Such tiny forms, considering the evidence they give of plasticity, might be able to pass the

tiny forms, considering the evidence they give of plasticity, might be able to pass the coarser Berkefeld filters.

6. The Negri bodies are organisms belonging to the class Protozoa. The reasons for this conclusion are: (a) They have a definite, characteristic morphology; (b) This morphology is constantly cyclic, i.e., certain forms always predominate in certain stages of the disease, and a definite series of forms indicating growth and multiplication can be demonstrated; (c) The structure and staining qualities as shown especially by the smear method of examination resemble that of certain known Protozoa, notably of those belonging to the sub-order Microsporidia.

7. The proof that the "Negri bodies" are living organisms is sufficient proof that they are the cause of hydrophobia; a single variety of living organisms found in such large numbers in every case of a disease, and only in that disease, appearing

in such large numbers in every case of a disease, and only in that disease, appearing at the time the host tissue becomes infective in regions that are infective, and increasing in these infective areas with the course of the disease can be no other, according to our present views, than the cause of that disease.

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Toxin-half negative + in 41 hours.

Water-half negative † in 40 hours.

#### THE ELECTRICAL CHARGE OF TOXIN AND ANTITOXIN. By Cyrus W. Field and Oscar Teague.

(From the Research Laboratory of the Department of Health, New York City.)

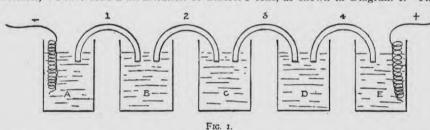
Soon after the discovery of diphtheria antitoxin, several investigators attempted to convert diphtheria toxin into antitoxin by the electrical current, and some went so far as to suppose that this method would supersede the costly and time-consuming process of immunizing animals. Smirnow a inoculated rabbits with half a cubic centimeter of a two to three days old broth culture of diphteria bacilli, and twenty-four hours later, when the animals were sick, injected 10 cubic centimeters of the anodal fluid, obtained by passing a current for eighteen hours through diphtheria toxin. According to him, the animals were saved by the injections. Bolton and Pease b stated that two cubic centimeters of the anodal fluid obtained from diphtheria toxin neutralized ten minimal lethal doses of the toxin. It is a well-established fact that acids destroy diphtheria toxin more readily than alkalies, and hence it is to be considered that it was the acid at anode which in Bolton and Pease's experiments neutralized the toxin. The latter investigators believed that the electric current caused a rearrangement of the constituent atoms of the toxin molecule, so that antitoxin resulted; but they did not determine whether the toxin molecule moved with or against the current by virtue of the charge which it carried. Soon after the discovery of diphtheria antitoxin, several investigators attempted the current by virtue of the charge which it carried.

the current by virtue of the charge which it carried.

The first to undertake the determination of the electro-positive or electro-negative nature of diphtheria toxin and antitoxin was Romer. c Romer used a U-shaped tube and allowed the electrodes to dip into the toxin and antitoxin to be investigated. After the current had been passed for a stated interval of time, the fluid was pipetted from both branches of the tube simultaneously and tested on guinea-pigs for toxic or antitoxic properties. The results were entirely negative, since he was unable to determine whether the toxin or antitoxin particles traveled toward the cathode or anode. This failure was due primarily, we believe, to the destruction of the toxin and antitoxin by the products of electrolysis, brought about by the strong current employed, for Romer states that he used oil to get rid of the bubbles at the electrodes. Furthermore, the method of simultaneous pipetting very likely caused some mixing of the different portions of the fluid.

the different portions of the fluid.

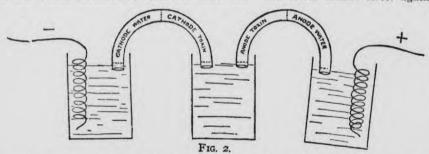
To avoid these errors in technique and to eliminate the effects of electrolytic products, we first used a modification of Bilitzer's cells, as shown in Diagram 1. The



cells and connecting tubes were of glass; the electrodes consisted of coils of platinum wire. The cells A, B, D and E were filled with distilled water, which was brought to the same level in all of them by means of water-filled connecting tubes. The central cell, C, was then filled to a slightly lower level than the others with the toxin or antitoxin to be tested. The small connecting tubes I and 4 being in place, and the direct lighting current turned on, the tubes 2 and 3 were filled with distilled water and simultaneously placed in position, thus completing the circuit. After the current had been passed for the desired length of time, the connecting tubes 2 and 3 were removed at the same moment, care being taken that they remained filled. Then I and 4 were removed. Under the influence of the current, the fluid in A became alkaline, that in E, acid, while B and D remained almost neutral. Hence, only the fluid in the two latter cells was tested on guinea-pigs for toxic or antitoxic value. The results were unsatisfactory and contradictory, probably owing to the fact that some of the test fluid passed into the neighboring cells along the outside surface of the connecting tubes, being drawn up by capillarity. When we used longer connecting tubes, the internal resistance became too great for the passage of an appreciable amount of current. This method was therefore discarded.

method was therefore discarded.

The following apparatus yielded decisive results. Two semi-circular glass tubes, each 1 cm. in diameter and 20 cm. long, were filled with melted agar (2 per cent. agar in distilled water) and allowed to cool to the temperature of the room. These were then arranged as in Diagram 2, the same platinum electrodes being used as in the previous experiments. The toxin or antitoxin to be tested was placed in the middle beaker, distilled water, in the other two. The direct Edison street lighting



current, 110 volts, was passed for from four to five hours, d the distilled water in the end beakers being siphoned off and renewed every half hour to eliminate the disturbing influence of the products of electrolysis. The agar tubes were now removed and the ends thoroughly rinsed in distilled water. The agar mass was then forced from that portion of the tube which dipped into the toxin or antitoxin out through the other end. About a quarter of an inch was removed from each end of the mass, and the remainder divided approximately in half. Each of these portions was rinsed in distilled water, chopped into fine pieces, and allowed to stand for one hour in about 6 c.c. of distilled water. At the end of this time the agar was removed by filtering through gauze, and the filtrate was tested on guinea-pigs for toxic or antitoxic properties. The accompanying table gives the results of these experiments.

## TABLE I.

Substance Tested by Passage of Electric Current.	Acidity or Alkalinity.		Cathode Toxin or Antitoxin.	Anode Toxin or Antitoxin.	Anode Water.
Diabethania tamin	Acid	No reaction.	† in 20 hours.	No reaction.	No reaction.
Diphtheria toxin	Alkaline.	No reaction.	÷ in 28 hours.	No reaction.	No reaction.
r	Acid	No reaction.	† in 48 hours.	No reaction.	No reaction.
Tetanus toxin	Alkaline.	No reaction.	+ in 40 hours.	No reaction.	No reaction.
Diphtheria antitoxic serum.]	Acid	Protected.	Protected.	† in 22 hours.	† in 24 hours.
Tested against 35 M. L. D.'s	Alkaline.	Protected.	Protected.	† in 42 hours.	† in 38 hours.
Diphtheria antitoxin globu-)	Acid	† in 36 hours.	Protected.	† in 36 hours.	† in 36 hours.
Iins. e Tested against 35	Alkaline.	+ in 24 hours.	Protected.	÷ in 36 hours.	† in 36 hours.

a Smirnow, Berl. klin. Woch., 1892, xxxii., 645.

Substance Tested by Passage of Electric Current.	Acidity or Alkalinity.	Cathode Water,	Cathode Toxin or Antitoxin.	Anode Toxin or Antitoxin.	Anode Water.
Tetanus antitoxic serum.	Acid	Protected.	Protected.	† in 50 hours.	† in 68 hours
Tested against 35 M. L. D.'s	Alkaline.	Protected.	Protected.	+ in 48 hours.	+ in 48 hours.
Normal broth. No toxin	Acid	No reaction.	No reaction.	No reaction.	No reaction.
Normal Broth. No toxin	Alkaline.	No reaction.	No reaction.	No reaction.	No reaction.
Normal horse serum. No 1	Acid	† in 36 hours.	† in 36 hours.	+ in 36 hours.	† in 36 hours.
antitoxin. Tested against 35 M. L. D.'s	Alkaline.	+ in 40 hours.	+ in 42 hours.	+ in 40 hours.	+ in 40 hours.

The first .5 cm. of the agar dipping into the toxin or antitoxin was removed, as was always done in our experiments with the electric current. There was always a slight trace of toxin or antitoxin in the first half centimeter, but it was never found beyond this point. A similar phenomenon was observed by Flexner and Noguchi, f in relation to the diffusion of tetanus toxin into agar.

Test without the electric current. Diphtheria toxin.. Diphtheria antitoxin. Tested against 35 M. L. D.'s..

In order that the table may be more readily understood, a detailed explanation of one of the experiments (No. 6, for example) contained in it may not be superfluous. Diphtheria antitoxic serum was made slightly alkaline to phenol-phthalein by the addition of a small amount of 0.1 normal sodium hydrate. The agar tubes were placed in position, as in Diagram 2, and the current was passed through it for four hours. The four portions of agar, which we shall designate as cathode water, cathode-antitoxin, anode water and anode-antitoxin, were then cut into fine pieces and extracted in water for one hour, and to each of these extracts was added 35 m. l. d. of diphtheria toxin. These four portions of fluid were now injected subcutaneously into the adbominal walls of four guinea pigs, each weighing about 250 grams.

The two guinea pigs receiving the fluid from the anode water and anode-antitoxin portions of agar died in thirty-eight and forty-two hours, respectively; hence, these portions must have contained no antitoxin. Those receiving the fluid from the cathode water and cathode-antitoxin portions showed no induration at the point of injection

portions of agar died in thirty-eight and forty-two hours, respectively; hence, these portions must have contained no antitoxin. Those receiving the fluid from the cathode water and cathode-antitoxin portions showed no induration at the point of injection and no loss of weight for five days, after which they were discharged. Hence, they were fully protected against the 35 m. l. d. of toxin.

The table shows that under the influence of an electric current, the particles of both toxin and antitoxin travel toward the cathode, and that a change in the reaction of the solvent does not cause a reversal of the charge carried by the particles.

Blitz, Much and Siebert g claim that both tetanus toxin and tetanus antitoxin are precipitated by electro-positive inorganic colloids and conclude, therefore, that they are electro-negative and should, under the influence of an electric current, pass toward the anode. However, neither they nor Romer were able to demonstrate this fact experimentally. It is probable that the precipitates which they obtained were due either to the action of electrolytes contained in the toxin or antitoxin on their inorganic colloids, or to the action of these colloids on non-toxic or non-antitoxic protein substances, or to a combination of both. It is worthy of note that their non-toxic broth gave precipitates with practically the same inorganic colloids as did the toxin.

Hardy h states that proteins are amphoteric; that is, that in an acid medium they travel toward the cathode and in an alkaline medium toward the anode, while in a neutral medium they do not move toward either pole. He worked with an albumen coagulated by heat. Pauli, i using a protein solution obtained by dialyzing serum from eight to ten weeks and filtering off the euglobulin, found, in agreement with Hardy, that the protein was electro-positive in an acid solution and electro-negative in an alkaline one. i We have shown that alteration of the reaction of the solvent does not change the character of the charge carried by particl

vanced as to the non-protein nature of toxin and antitoxin would be invalidated. k

If the combination of toxin with antitoxin is a true chemical reaction, one would expect that under the influence of an electric current toxin would travel in one direction and antitoxin in the opposite direction. Such, however, was not found to be the case, and we are, therefore, inclined to believe that this union is not a true chemical reaction, but a matter of absorption, as was first suggested by Bordet, and has since been claimed by others.

## Conclusions.

Both diphtheria and tetanus toxin and their antitoxins are electro-positive, that is, they pass to the cathode under the influence of an electric current.

2. The character of the charge is not altered by a change in the reaction of the

solvent.

3. The combination of toxin and antitoxin would seem to represent not a true chemical reaction but the absorption of one colloid by another.

#### ON THE ELECTRICAL CHARGE OF THE NATIVE PROTEINS AND THE AGGLUTININS.

## By Cyrus W. Field a and Oscar Teague.

(From the Research Laboratory, Department of Health, New York City.)

In a previous paper b it was shown that the particles of both toxin and antitoxin wandered under the influence of an electric current toward the cathode and that the reaction (acidity or alkalinity) of the solvent did not influence the direction of migration. Since Hardy c and Pauli d demonstrated that the proteins which they used were amphoteric, i. e., that they pass toward the anode in an alkaline medium and to the cathode in an acid one, there has been a tendency to generalize by assuming that all proteins behave in this manner. If such were the case, we pointed out, it would follow from our experiments that toxin and antitoxin are not true proteins. At the same time, however, we mentioned that from the few experiments in which this question had been considered, the protein matter of the broth or serum seemed in every instance to travel with the toxin or antitoxin toward the cathode. Further experiments have confirmed this result. It was also shown that the protein of normal horse serum and of non-toxic broth travels toward the cathode. Hence our work offers as yet no evidence either for or against the view that toxin and antitoxin are non-protein in nature. non-protein in nature.

We maintain that the results which Hardy and Pauli obtained, working with denaturalized proteins, are in no wise applicable to the native proteins, but that these carry a distinct electrical charge and are not amphoteric. We are here in accord with Iscovesco e and his co-workers, who investigated the charge of colloids con-

b Bolton and Pease, Jour. of Exper. Med., 1896, i., 537. Romer, Berl. klin. Woch., 1904, xli., 209.

d The current was passed for only four or five hours because the risk of a disturbance due to products of electrolysis increased with the time; moreover, Bredig, Hardy, Pauli, and others found that the passage of a current for twenty-four hours or more would often cause a reversal of the charge carried by particles which would then necessarily be driven back in the opposite direction, thus obscuring the nature of the charge which they originally carried.

e Gibson, Jour. of Biol. Chem., 1905, i, 161.

f Flexner and Noguchi, Jour. of Exper. Med., 1906, viii, 547. g Blitz, Much and Siebert, "Beit. zu exper. Therapie," 1905.

h Hardy, "Jour. of Physiology," 1899, xxiv., 288.
i Pauli, "Hofmeister's Beit.," 1906, vii. 531.
j Pauli denaturalized his proteids by the prolonged dialysis.

k Oppenheimer (Toxin and Antitoxin, 1903) in summing up the work on this subject concluded that toxin and antitoxins are of non-protein nature. Quite recently Osborn, Mendel and Harris ("Amer. Jour. Physiol.," 1905, xiv. 250), working with ricin, have taken issue with him, having found that their purest product still gave protein reactions. As a matter of fact, nothing definite is known at present of the chemical nature of these various substances.

a Assisted by a grant from the Rockefeller Institute for Medical Research.

b Field and Teague, "Journal of Exper. Med.," 1907, viii. c "Jour. of Physiol.," 1899, xxiv, 288. d "Hofmeister's Beit.," 1906, vii, 531.

e Compt. rend. Soc. biol., 1906, 1xi, 195, 355, 378, 470, 568.

tained in various body fluids. Their method consisted in treating the fluid with electro-negative (arsenic sulphide) and electro-positive (ferric hydrate) inorganic colloids and their conclusions were based upon the fact that colloids of opposite sign when brought together form precipitates. Thus they found that the peritoneal fluid of the horse contains only electro-positive colloids, while the pericardial fluid contains those of both signs; that blood plasma contains both positive and negative albumins with positive and negative globulins, whereas the serum contains only the positive globulin along with albumins of both signs; that the fluid of a tubercular abscess deprived of its leucocytes contains only electro-negative colloids; that the amniotic fluid contains both positive and negative albumins, but only negative globulins. From these experiments Isovesso concludes that there are no colloids which do not From these experiments Iscovesco concludes that there are no colloids which do not bear a distinct electrostatic charge.

Since our method gave no indication of the presence of an electro-negative albumin in normal serum, we are inclined to believe that Iscovesco by his manipulations produced a change in sign of the charge carried by certain proteins and that all of his findings are therefore not applicable to the proteins originally present in the fluids

In our previous work with tetanus toxin we investigated only the tetanospasmin and its antibody; we have since shown by testing the agar extracts for their lytic or antilytic action on horse cells that both tetanolysin and antitetanolysin travel toward the cathode under the influence of an electric current. Having determined the electrical charge of toxin and antitoxin, we next applied the same method to an

the electrical charge of foxin and antitoxin, we next applied the same method to an investigation of the agglutinins.

The agar was divided into one-centimeter lengths; the agglutinin was found to have traveled seven centimeters into the cathode agar, the anode agar remaining free of agglutinin. The first centimeter length was extracted with five cubic centimeters of water and this extract would still agglutinate at a dilution of 1-100.

The specific agglutinins investigated travel toward the cathode. These results are diametrically opposed to those of Biltz, Much and Siebert, f who are the only workers, so far as we know, who have investigated this subject. They passed a current through lacto-serum contained in a U-shaped tube for from one-half to one hour, and found that the fluid around the anode agglutinated at 1-20, that around the cathode not at all, and that from the middle of the U-shaped tube at 1-8. Normally the serum agglutinated at 1-4. They state that after the passage of the current the the serum agglutinated at 1-4. They state that after the passage of the current the fluid from around the anode was 1-10 normal acid. We would expect this amount of acid to agglutinate at approximately 1-20, since 1-200 represents about the flocking limit of hydrochloric acid for bacteria.

As stated in a previous article, we took special precautions to eliminate the products of electrolysis. However, to show conclusively that it was the specific agglutinin, and that alone, which was responsible for the agglutination in our experiments, the extracts were also tested against other bacilli than those which were agglutinated by the serum under investigation.

#### TABLE I.

Strength of Electric Current 110 Volts; 1/2 to 1 Milli-ampere.

Serum Agglutinating the Typhoid Bacillus at 1-2000. Current Passed for Six Hours.

			Cathode	Agar cn	. Leng	ths.						Ag	ode ar.
Organism.	1.	2,	3.	4.	5.	6.	7.	8.	9.	10.	11 to 20.	to	to
B. typhosus	-   -	-   -	-   -	-   -	-  -	-  -	-1-	0	0	0	0	0	0
B. coli	6	0	0	0	0	0	0	0	0	0	0	0	0
Shiga's bicillus	0	0	o	0	o	o	0	0	0	0	0	0	0
Para typhoid b	0	0	0	0	0	0	0	0	0	0	0	0	0
Biuret react	1-	-1-	-1-	-1-	-]-	-1-	trace	2					

Note—As one-centimeter lengths of the anode agar showed no agglutinin in repeated experiments we have here tested extracts from ten-centimeter lengths.

If the agglutination were due to the presence of products of electrolysis we would expect the other bacilli to be agglutinated as well as typhoid. Such, however, was not the case. Hence, we believe that we have shown conclusively that the agglutinins

travel toward the cathode.

It has been shown by Bachhold, by Buxton, Schaeffer, and Teague h and others that bacteria move toward the anode under the influence of an electric current, that is, they carry a negative charge. Our findings with regard to the agglutinins is therefore especially interesting, since it shows that in the phenomenon of agglutination we have the combination of an electro-negative suspension with an electro-positive colloidal solution. Since ions of opposite sign are essential for a chemical reaction and colloids of opposite sign when brought together form precipitates, our results harmonize with both the chemical and the colloidal view of the phenomenon.

Bacteria which have been saturated with agglutinin and then washed in a number

of changes of water until the wash water contains no more agglutinin were placed in the cell and after eight hours the agar was tested for agglutinin. A small amount was found in the cathode agar showing that under the influence of the electric current the agglutinin bacteria combination was disassociated and that the agglutinins passed to the cathode. Bacteria have been disassociated from agglutinins by other means, j but so far as we are aware, this in the first time that disassociation has been affected by means of the electric current.

Conclusions.

Tetanolysin and antitetanolysin travel toward the cathode under the influence

The specific agglutinins are electro-positive. The proteid matter of serum is not amphoteric but travels toward the cathode whether its reaction be acid, neutral, or alkaline.

4. The bacteria-agglutinin combination may be disassociated by means of the 4. The bac electric current.

## EXPERIMENTS ON THE PRODUCTION OF ANTIRABIC SERUM.

## By Daniel W. Poor, M. D.

The objects of this work were to determine (1) if it was possible to produce a serum bactericidal against the rabies organism, and (2) if such a serum could be combined with the Pasteur treatment to hasten the production of immunity in severe head bites, a class of cases in which the Pasteur treatment alone occasionally failed on account of the shortness of the incubation.

This combination of vaccine and serum has been used successfully in rinderpest and anthrax.

Most of the work on antirabic serum has been done by A. Marie, of the Pasteur Institue in Paris. In 1902 he stated: "We know that the serum of mammals vaccinated against rabies possesses the power of neutralizing the rabic virus 'in vitro.'" Marie further states that for the production of such a serum the animal must be injected with strong virus during a long period of time.

f Zeit. für diatet. und physikal. Ther., 1905, viii, 19.

g Zeit. physik. Chem., 1, 1904, xlviii, 385.

h Ibid., 1906, lvii, 47.

i Cernovodeanu and Henri (Compt. rend. Soc. de Biol., 1906, lxi, 200) claim that dysentery bacilli travel toward the cathode, but we have not found this to be the case.

j Quoted by Eisenberg in Cent. f. Bakt., 1906, xxxi., 540, are the following: Joos (if fresh bacilli are added to agglutinated bacilli, which had been previously washed free from serum, the former are agglutinated). Landsteiner and Jagic (dissociation at high temperatures) and Landsteiner and Reich.

In 19— Victor Babes reported a series of patients severely bitten by rabid wolves, in which he gave a combination of the Pasteur treatment and the serum of an immunized dog. The number of cases thus treated was not sufficiently large to judge of the advisability of adding the scrum to the treatment.

Our work along this line may be tabulated as follows:

1. Animals used for the production of the serum. The dog, sheep, rabbit and horse, all of these have produced a strong immune serum; no others have been tried.

2. The treatment of the animal supplying the serum. The animals have been treated for variable lengths of time, usually a number of months. The treatment of a horse, which produced a strong serum in a short time, is appended.

Date.	Dose.	Virus.
Sept. 19.	40 c.c	
Sept. 20.	40 c.c	
Sept. 24.	60 c.c	
Sept. 25.	60 c.c	
Sept. 26.	30 c.c	twenty minutes.* Six-day dried cord.
Sept. 28.	30 c.c	Four-day dried cord.
Sept. 29.	30 c.c	Three-day dried cord.
Sept. 30.	30 C.C	Two-day dried cord.
Oct. 1.	30 c.c	Four-day dried cord.
Oct. 2.	30 c.c	Three-day dried cord.
Oct. 3.	30 c.c	Two-day dried cord.
Oct. 9.	30 c.c	Three-day dried cord.
Oct. 10.	30 C.	One-day dried cord.
Oct. 11.	30 C.	. Two-day dried cord.
Oct. 15.	30 c.	. Two and Three day dried cord.
Oct. 17.	30 c.	. Fresh cord.
Oct. 18.	30 C.	. Two-day dried cord.
Oct. 22.	10 C.	. Fresn brain.
Oct. 28.	30 C.	. Fresh brain.

It may be said that two sheep are at present under treatment which receive the relatively large doses of 20 c.c. of fresh brain emulsion without apparent detri-

November 12, two litres of blood drawn from the jugular and tested Novem-

November 12, two litres of blood drawn from the jugular and tested November 13.

3. Technique of the treatment of the serum in vitro. Where it is desired to compare the strength of different animal sera, or that of the same sera at different times, it is evident that a virus of uniform strength is desirable. This virus is prepared by us in the following way: A rabbit is autopsied on the eighth day after subdural inoculation with fixed virus—one gram of the right hemisphere (taken from before backwards) is emulsified with 12 c.c. of normal salt solution. This emulsion is then centrifuged for three minutes under fixed conditions of rate of speed, tube, etc. A fixed amount of the top layer of the supernatant fluid is then drawn off and used as the test virus. This gives a virus sufficiently strong to kill a guinca pig in 5 to 6 days, and sufficiently dilute to be free from particles of brain tissues of sufficient size to interfere with the action of the serum. It seems to me that such a virus would be of about as constant a strength as it is practicable to use. as it is practicable to use.

This virus is mixed with the serum, to be tested in various proportions, and allowed to stand at room temperature 30 to 45 minutes. At the end of this time equal doses of these mixtures and of a control virus are inoculated into guinea

pigs subdurally, and at the end of a week the test is complete.

The following test, which was made on the horse serum referred to above, serves as an example. On November 15 the following mixtures were inoculated, each pig receiving four drops subdurally from a fine needle:

serves as an example. On November 15 the following mixtures were inoculated, each pig receiving four drops subdurally from a fine needle:

1. Virus 1 c.c. + serum ½ c.c. + salt sol. ¾ c.c.; Pig No. 1, Ok., November; discharged. Pig No. 2, first symptoms of rabies November 22; dead November 23.

2. Virus 1 c.c. + serum ½ c.c. + salt sol. ½ c.c.: Pig No. 1, Ok., November 30; discharged. Pig No. 2, Ok., November 30; discharged.

3. Virus 1 c.c. + serum 1 c.c.: Pig No. 1, Ok., November 30; discharged. Pig No. 2, Ok., November 30; discharged.

4. Virus 1 c.c. + salt sol. 1 c.c. (control): Pig No. 1, died of rabies, November 20. Pig No. 2, died of rabies, November 21.

From this test it is evident that this serum in the proportion of 1 to 4 of virus is hardly sufficient to kill all of the organisms, one of the pigs inoculated with this mixture dying of rabies, with a prolonged incubation, and the other escaping. That the killing effect in such a serum is due to specific properties in it, caused by the treatment, has been proved by numerous experiments with the sera of normal dogs, horses and rabbits, which are entirely without effect.

It has been difficult to prove that this serum obeyed the same laws in its action as other bactericidal sera, owing to the fact that the living animal must be used for its test. The serum inactivated by heat may be reactivated by the blood of the animal used in the test. This question will be studied in the future by applying the method of Bordet-Gengon.

4. The question as to whether the increase in immune body caused by the Pasteur treatment was confined to the blood serum alone, or whether the central nervous system was involved, gave rise to the following experiment.

A rabbit was treated at intervals from January 2 to April 15. On April 24

A rabbit was treated at intervals from January 2 to April 15. On April 24 it was bled to death. A thick emulsion of the brain and cord was made, and after standing the supernatent fluid was pipetted off to be tested. The same was done with the brain and cord of a normal rabbit. The virus used was a thin emulsion of fixed virus. The virus and brain emulsions of the normal and treated rabbits were then mixed in like proportions of the virus, and sera of the treated rabbit were kept under the same conditions. Guinea pigs were then inoculated

as follows:

1. (Brain emulsion) I c.c. + fresh rabbit serum I c.c. + virus I c.c. (normal rabbit); Pig No. 1 died April 30. Pig No. 2 died May I.

2. (Brain emulsion) I c.c. + fresh rabbit serum I c.c. + virus I c.c. (immune rabbit): Pig No. 1 died April 30. Pig No. 2 died May I.

3. (Series of immune rabbit) I c.c. + fresh salt sol. I c.c. + virus I c.c.: Pig No. 1 discharged, well, May 16. Pig No. 2 discharged, well, May 16.

4. Salt sol. 2 c.c. + virus I c.c.: Pig No. 1 died April 30.

This experiment appears to indicate that the effect of immunization is to increase the immune body in the blood to such an extent that development of the rabbic organs in the pervols system does not occur, and not that the pervols rabic organs in the nervous system does not occur, and not that the nervous system itself takes any active part. The above experiment is, of course, merely a rough indication, as the brain emulsions used may not have contained all the properties of the brain cells.

Loss of Strength of Serum Due to Standing-The following observations have some bearing on these questions:

To test the loss of strength of sera kept in the ice box two samples of sheep serum were used, one which had been kept one month and the other three and

^{*}These emulsions were made in the proportion of one-fifth of an inch of cord to 3 c.c. of physiological salt solution.

one-half months. Both samples had been strong shortly after being drawn, acting successfully in the living animal.

The first sample showed slight action in dose of one-half as much serum as virus, and full killing power in equal amounts.

The second sample showed no killing effect in dose of one-half as much serum as virus, and only feeble action when the two were used in equal amounts. The first sample was treated in animals and found to have little effect in prolonging first sample was treated in animals and found to have little effect in prolonging incubation.

It would seem then that the serum should be freshly drawn if possible and probably not kept longer than two weeks. Further, that a number of animals should be constantly under treatment, so that while some are being inoculated others would be ready for bleeding. Further work must determine whether the stronger serum is to be obtained from sheep or horses.

#### Action of the Serum in the Living Animal.

It was found that the injection of immune serum into rabbits gave disappointing results, the treated animals sometimes dying earlier than the controls. It was thought to be due to the fact that the serum was somewhat poisonous for the rabbits through a possible neurolytic action. The fact that rabbits' brain and cord tissue was injected into the animal furnishing the serum would account for this. Guinea pigs were therefor used. A further point noted with regard to guinea pigs was that they appeared to be poisoned by repeated doses of dog serum, the second injection frequently causing death whereas the first was apparently without effect. This was thought to be due to a haemolytic action of the dog's serum on the guinea pig's red cells. An example of this is as follows:

Two large healthy guinea pigs were inoculated, as follows:

Pig No. 1—May 5, received 134 c.c. of normal dog serum subcutaneously. May 8 received 2 c.c. of normal dog serum. May 11, pig is sick. May 15, pig is dead. Pig No. 2—May 5, received 134 c.c. of normal rabbit serum. May 8, received 2 c.c. of normal rabbit serum. April 1, pig was alive and well and discharged. Another Test—May 19, large healthy pig received 1½ c.c. of normal dog serum. May 21, appeared normal and was given 1 c.c. of same serum. May 23, pig died. The best combination was found to be guinea pigs inoculated with the serum of sheep or horses.

A further point to be noted is the necessity of employing a large number of animals in each experiment and the necessity of many experiments before any conclusions can be drawn. This follows from the well known facts concerning the marked irregularity in incubation of rabies in guinea pigs, when they are infected peripherally, as by inoculation into the leg. A number of animals inoculated in the same manner and with the same dose will come down with the disease at times varying a week or more and some may even fail to be infected at all. This is probably due to a variety of cancer, i. e., the peculiar manner in which the infection travels the probably protozean nature of the organism, individual susceptibility of the animals, etc. It is therefore necessary in estimating the effect of an immune serum in lengthetc. It is therefore necessary in estimating the effect of an immune serum in lengthening the incubation in rabies, to employ several animals and take an average period of incubation in the treated animals and in the controls.

The following are some of the tests made with immune serum in animals March The following are some of the tests made with immune serum in animals March

30. Fifteen pigs were inoculated in the region of the sciatic nerve with I c.c. of

brain emulsion of street virus. Five pigs were kept as controls, five were to be treated

every day with I c.c. of a mixture of immune dog serum (one month old) and fresh

rabbit, and in a third set of five pigs, each was to receive a single injection of 2 c.c.

of a mixture of dog and rabbit serum one hour after infection by the virus.

The average duration of incubation in the controls was 17 2-5 days.

In the series receiving the repeated small doses of the serum, all became sick on

April 4, after the second dose, and all but one died on that or the following day from

the poisonous effects of the serum. This one survived and finally succumbed to

the poisonous effects of the serum. This one survived and finally succumbed to rabies May 7 after an incubation of thirty-four days.

In the series receiving the single large dose of serum one was alive and well on May 19 and discharged on that date. One died accidentally; not of rabies. The other three died of rabies with an average incubation of twenty-one days.

Twelve pigs were inoculated June I with I c.c. of street virus in the sciatic nerve. Six pigs were kept as controls. These were given, two hours later, 2 c.c. of immune sheep serum. The remaining three were given, on each of the three following days, ½ c.c. of the serum, and on the fourth day I c.c.

The average incubation of the controls was I7 3-5 days.

Of those receiving the single large dose of serum all contracted rabies, with an average incubation of twenty-nine days.

average incubation of twenty-nine days.

Of the three receiving repeated small doses, one died accidentally, not of rabies; one died of rabies with an incubation of eighteen days and one was discharged alive and well six months later.

The attempt was next made to combine the immune serum with the Pasteur treatment to produce its full effect in immunization in man.

Thirty-six pigs were used, each inoculated in the leg with 1 c.c. of street rabies on August 4. The animals were divided into six groups of six to a group.

In the first group a single large dose of serum (2 c.c.) was given one and one-half

hours after the virus.

In the second the same dose of serum at the same interval and in addition the

pigs received a short course of Pasteur treatment (ten days).

In the third group a smaller dose of serum (1 c.c.) was given late (twenty-four hours after infection), and in addition the same Pasteur treatment.

In the fourth group a single dose of non-immune serum one and one-half hours after infection

In the fifth group, no treatment, Controls. In the sixth group the Pasteur treatment alone,

On September 1, twenty-eight days later-

Of the first group 75 per cent. were alive. Of the second group 66 per cent. were alive. Of the third group 50 per cent. were alive.

Of the fourth group 50 per cent, were alive.
Of the fifth group 50 per cent, were alive.
Of the sixth group 55 per cent, were alive.
Of the sixth group 25 per cent, were alive.
From this series it appears (1) that the serum prolonged the incubation, (2) that the Pasteur treatment as given acted as a poison and shortened the incubation, and that where the two were combined the good effect of the serum treated to counteract to some extent the bad effects of the Pasteur treatment.

It being evident that the Pasteur treatment could not be given in the ordinary.

It being evident that the Pasteur treatment could not be given in the ordinary way to guinea pigs, a mixture of the serum and fixed virus was used as suggested by A. Marie. Not being familiar at this time with the details of the method, it was

not given in strict accordance with Marie's directions.

It is evident that in the experiments above cited the clinical conditions occurring in face bites in man are not correctly represented. In the latter case the short incubation is not necessarily due to a very large number of rabic organisms intro-duced into the body, but rather to the fact that they are introduced near the brain. In order to obtain a short incubation (fifteen to twenty days) in the guinea pig by inoculation into the leg with a brain emulsion virus, it is necessary as a rule to use a large amount of the virus representing an immense number of organisms. The great majority of these are soon taken up into the circulation, take little or no part in producing infection, none that remain behind and travel up the nerve track accomplishing this. The immune serum would nevertheless be partially used up in attacking these organisms in the circulation, and it would seem that it would be largely wasted in so doing. If it were possible to use a small number of organisms which would nevertheless produce an infection with a short incubation when inoculated peripherally, the conditions which we have to treat in man would be more nearly repre-

From work which we have done with the salivary glands of rabid dogs, it has seemed to us that while the saliva varied considerably in virulence, yet when a virus was obtained from the glands which was strong, it was apt to infect animals more readily than the brain emulsion when given peripherally. At any rate it is certain that it must most probably contain fewer organisms than the brain emulsion, as the latter is the medium in which the organisms grow. It is a fact that we have often given as much as a c.c. of a thick brain emulsion in the leg of a guinea pig, and serum the opiene produced very slowly or even not at all. On the other hand we have pro-

duced the disease with a very short incubation with  $\frac{1}{2}$  c.c. or even less, with either a salt solution extract or a glycerine extract of the salivary glands of same dogs.

In the following experiment, carrying out the above ideas, we used as a virus ½ a c.c. of a salt solution extract of the salivary glands of a dog with street rabies, and treated one-half the pigs with a mixture of immune serum and fixed virus vaccine as follows:

November 27 six pigs were inoculated in the region of the sciatic with  $\frac{1}{2}$  c.c. of gland virus. Three were kept as controls and each of the other three were given, subcutaneously, half an hour after infection, 2 c.c. of the following mixture:

Immune horse serum (heated to 60 degrees for half an hour), 8 c.c.

Fresh horse serum, 4 c.c. Fixed virus brain emulsion, 4 c.c.

Again, on December 4, each of these pigs received 4 c.c. of the following mixture: Immune horse serum (heated to 60 degrees), 8 c.c.

Immune horse serum (heated to 60 degrees), 8 c.c.
Fresh horse serum, 4 c.c.
All the pigs died of rabies, the average incubation of the controls being ten and two-thirds days, and of the treated pigs being twenty-nine and two-thirds days.
By using sheep instead of guinea pigs and combining the serum and virus in a manner recommended by Marie Remtinger, it has been able to protect his treated animals completely against an intra-virulent infection of rabies when the latter was given three days before the injection of the serum virus mixture.

Another experiment was undertaken to compare the amount of immune body in the blood of two sheep at the end of seventeen days after the beginning of treatment, the one sheep treated by the ordinary Pasteur method, the other by injections of mixtures of virus and serum. A preliminary test of the serum of the sheep made before the beginning of treatment showed that of each to be entirely inactive in the proportions used in the subsequent tests at the end of treatment. portions used in the subsequent tests at the end of treatment.

Treatment begun December 14.

One sheep (No. 1) received the ordinary Pasteur treatment for seventeen days.

The other (No. 2) received December 14—Immune horse serum, 8 c. c. (four and one-half weeks old). Fresh horse serum, 4 c. c. Fixed virus brain emulsion, 4 c. c. N. B.—This mixture was neutral.

December 19-Immune horse serum, 12 c.c. Fresh horse serum, 5 c.c. Fixed virus brain emulsion, 9 c. c.

December 26—Immune horse serum, 15 c.c. Fresh horse serum, 8 c.c. Fixed virus brain emulsion, 15 c.c.

On January 1 both sheep were bled and the serum tested as follows:

#### Sheep No. 1 (Pasteur Treatment).

1. Virus 1/2 c. c. + serum 2 c. c. Pig No. 1 died 1/7 a.m. Pig No. 2 died 1/7 a. m.

Virus ½ c. c. + serum 1 c. c. + salt solution 1 c. c. Pig No. 1 died 1/6. Pig No. 2 died 1/6.

3. Virus ½ c. c. + serum ½ c. c. + salt solution 1½ c. c. Pig No. 1 died 1/7 a. m. Pig No. 2 died 1/6.

#### Sheep No. 2 (Serum Virus Mixture).

1. Virus 1/2 c. c. + serum 2 c. c. Pig No. 1 died 1/8 a. m. Pig No. 2 died 1/7 a. m.

2. Virus ½ c. c. + serum 1 c. c. + salt solution 1 c. c. Pig No. 1 died 1/7 p. m. Pig No. 2 died 1/8 a. m.

3. Virus ½ c. c. + serum ½ c. c. + salt solution 1½ c. c. Pig No. 1 died 1/7 a. m. Pig No. 2 died 1/7 a. m.

a. m. Pig No. 2 died 1/7 a. m.

From this experiment we see that by neither method of treatment is immune body produced to any extent in such a short time as seventeen days, but that what slight there is in favor of the serum virus mixtures.

From the above experiments one may conclude:

That it is possible to produce a strong immune serum against rabbic virus,

in rabbits, sheep, dogs and horses.

2. That for the production of such a serum a long course of treatment is necessary.

3. That this serum, when fresh, prolongs the incubation of rabies when injected into test animals a short time after infection.

Further work must be done to determine the method of combining the serum and

virus to produce the best results.

It is expected that in the near future we shall fully test Marie's method of pre-

ventive inoculation in dogs.

We have at present three sheep under treatment for the production of serum, and are prepared to employ this in combination with the Pasteur treatment in such cases as warrant its use.

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#### THE AGGLUTINATION TEST AS APPLIED TO THE DIAGNOSIS OF GLANDERS. (Preliminary Summary.)

## By K. R. Collins, M.D., Bacteriologist.

The readiness with which the agglutination test can be carried out when compared to the mallein test for glanders in horses has made it the subject of much investigation by those interested in comparative medicine.

Pokchichevski in 1902 states that normal horse blood will agglutinate the B. mallei in dilutions of 1:300 while the sera of horses infected with glanders will agglutinate it in dilutions of 1:500 and above.

Afanassjeff shows practically the same results. Schutz and Meissner from the

Pathological Institute, Berlin, 1905, undertook an extensive series of observations upon

the subject. A number of normal horses were given experimental glanders, and in from six to twelve days the agglutinating index of the blood serum of these horses had increased from 1:300 to 1:2000 and 8000. Subsequent autopsy of these horses showed the typical lesions of glanders in the lungs and other organs.

In the course of their work 2,209 horses were tested. These consisted of horses that were normal, those ill of other diseases than glanders, and those having glanders.

The three accompanying tables will give the average results of their findings.

	Fre	ee from	Glande	ers.				Gla	nders.		
1-300	400	500	600	800	1000	500	600	800	1000	1500	2000
145	36	17	15	6	2	2	4	6	11	6	5
	22	21 (25 8	getotet).						34		
					255 1	iorses.					

..

...

Glanders

Free from Glanders

Various skin diseases.....

Lymphosarcon .....

Foci in the lungs.....

1-300	.400	500	600	800	1000			500	600	800	1000	1500	2000
5	4	2	1	4	1			**	2	2	4	9	2
		17				36 h	orses,				19		
_									•				
	,	Dis	ease.			100	200	300	400	500	600	800	1000
Druse	(glands	or stra	ingles).			1	3	1		.,			
Catarr	h of su	perior n	naxillar	y sinuscs.		**	1	1	1	1	2	13.	
Lymph	angitis						1	2	1	1		**	11

Schnurrer and Bonome verified these results. Hutyra, of Budapest, in experi-

Schnurrer and Bonome verified these results. Hutyra, of Budapest, in experimental glanders in horses found that the agglutiation index raised from 1:100 to 300 before injection to 1:1000 to 1:2000 several days after inoculation.

Moore, Taylor and Giltner found the index of normal horses tested to range from 1:100 to 1:500; while in twelve horses with diseases other than glanders, the index did not exceed 1:500 and in thirty-seven horses suspected of having glanders, all cases reported as positive by the Veterinarians in charge agglutinated in dilutions of 1:600 and distance of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co and above.

and above.

For the past several months the work carried on in this laboratory has been for the purpose of ascertaining to what extent this test can be relied upon in the diagnosis of glanders.

Since August 14, 1906, the sera from four hundred and fifty-seven horses have been tested. In many instances a series of observations have been made from time to time upon the same horse. The field work has been carried on by Dr. H. D. Gill, Veterinarian for the State Department of Health, and Dr. A. D. Silkman, Veterinarian for the Health Department of New York City, and we are indebted to them for the collection of sera, clinical observations and autopsies. Dr. R. H. Kingston, Veterinarian of New York City, has also aided us in supplying cases other than glanders that have been of interest and value in the work.

In making the test for agglutination a culture of B. Mallei has been used which was obtained from Dr. Moore, of Cornell University. Other cultures obtained from different sources (two from human cases), have been tested from time to time, but the one culture, as stated, has been relied upon throughout as a standard culture.

Schutz and Meissner state that in order to obtain a culture whose agglutinability does not vary the organism must be passed through an animal every two weeks.

Schutz and Meissner state that in order to obtain a culture whose agglutinability does not vary the organism must be passed through an animal every two weeks.

This assertion is in direct contradiction to our experience with other organisms, it being a well known fact that recently isolated dysentery and typhoid bacilli are poor agglutinators, but after long growth upon artificial media may have their agglutinability increased. The possibility of this being due to the contact of the organisms with the serum elements of the body, which, as has been shown, may contain some normal agglutinins is indicated by the experience of Marshall and Knox and Park and Collins, in which they demonstrate that dysentery bacilli and typhoid bacilli grown for some time in the presence of a specific serum lose entirely their agglutinability, but this loss can be recovered after a long period by the withdrawal of the serum from the media. Bearing in mind, however, that this might not be true for the B, mallei, the original culture has been controlled from time to time by one recently passed through the guinea-pig; thus far no difference has been noticable except that the recent culture at times shows a lower agglutinability than the original stock. stock

Hanging drops have been chiefly relied upon, being frequently controlled by the tube method. The B. Mallei forms in twenty-four hours a light growth which gives about the right number of bacilli for testing with the hanging drop, but not sufficient to be recognized microscopically, hence a much heavier growth, about three days is requisite for the latter method. As old cultures are liable to lose their agglutinability, to some extent, the younger cultures are preferable and more reliable, therefore the hanging drop offers the best means of carrying out the test. An additional advantage is the fact that contaminations and anomolous conditions that have sometimes been met with are quickly detected. Federowsky has also found the microscopical method to be the more delicate and reliable.

the more delicate and reliable. The hanging drop, controlled by the tube, with a young culture, shows no practical difference examined microscopically. The hanging drop, where the young culture is used, and the tube where the older culture is used, will show a difference due to the diminished agglutinability of the old culture, and to the greater number of organisms in the latter (a condition necessary to get a reaction visible macroscopically), and hence the index where the old culture is used will be lowered.

The twenty-four hours' broth culture is heated to 60° c. for one minute, this proving sufficient to check the growth of the bacteria and yet not affecting their

The reaction does not occur as quickly as with some other organisms, such as the typhoid and dysentery bacilli, but like the pneumococcus, requires from twelve to eighteen hours for completion.

In October the blood was tested of thirteen horses from a stable where a case of glanders had developed a few weeks previously. Mallein was then given to eight of them. Nine days later three of the number were tested again for the agglutination reaction and with mallein. Four days later blood tests were again made for the three, and about five weeks later the blood was again tested.

The following table gives the result of these tests.

TABLE IV.

	Octob	er 30.	Noven	ber 8.	November 12.		
	Aggluti- nation.	Mallein Reaction.	Aggluti- nation.	Mallein Reaction.	Aggluti- nation.	Mallein Reaction.	
1	5000	Negative				,,,,,,	
2	2000	Negative		*****			
3						*****	
4	2000	Negative		*****	*****		
5	1000	Good	10.000	Positive	20.000	*	
• 6	5000		******		*****		
†7	200						
8	2000	Partial					
9	5000	Partial					
10	5000	Partial				*****	
11	1000			*****			
12	2000	Good	10,000	Good	10.000	*	
13	2000						

^{*} These were destroyed because of the glanders infection.

† Died of pneumonia.

Unfortunately autopsies could not be obtained in these cases on account of lack of facilities, and we have not been able to make further observations upon this

Bonome and others claim that the agglutination reaction increases after the ad-

Bonome and others claim that the agglutination reaction increases after the administration of mallein. This, however, has not been my experience, and the above table shows, in two horses, a decrease after mallein, while in the two horses that died the increase in index may well be attributed to the progress of the disease, as the repeated mallein reaction follow the same curve.

The blood of thirty horses from a stable where glanders had existed was tested and mallein was given in six cases one month later. The results were as follows:

Three horses agglutinated at 1:5000, one of the three tested a month later with mallein gave no reaction, one died of glanders. Two agglutinated at 1:2000 and were negative to mallein. Two agglutinated at 1:500. One that agglutinated at 1:200 gave a slight reaction to mallein a month later. One agglutinating at 1:200 was negative to mallein, the remainder agglutinated at 1:200 and were not tested with to mallein, the remainder agglutinated at 1:200 and below, and were not tested with

Sixty-three horses were tested from one stable for the agglutination reaction with B, mallei and fourteen were tested with mallein.

#### TABLE V.

The sera from sixty horses taken from a stable where glanders had occurred agglutinated as follows:

9 agglutinated at 1:500	3 tested with mallein	2 reacted
9 agglutinated at 1:1000	6 tested with mallein	3 reacted
7 agglutinated at 1:2000	4 tested with mallein	4 reacted
25 agglutinated below 1:500	2 tested with mallein	2 negative

In sera from thirty horses from another stable, where glanders had occurred, were tested the same as above.

4 agglutinated at 1:500	2 reacted to mallein
12 agglutinated between 1:1000 and :2000	6 reacted to mallein
7 agglutinated between 1:5000 and 1:10,000	3 reacted to mallein
9 agglutinated below 1:500	None reacted to mallein

Three normal mules tested gave the following reactions:

One reacted at 1:1000.

Two reacted at 1:1000. Three reacted at 1:100.

One mule condemned for glanders on physical signs gave a reaction in 1:20000. The normal agglutinous present in the blood of the mule may show a higher average than in horses.

A series of tests made upon four horses show the variation in the aggluthation reaction that may sometimes occur. A regular increase is observed in three while the third shows an irregular rise and fall. This condition occurs constantly in extensions organisms. series of tests made upon four horses show the variation in the agglutination perimental animals immunized with various organisms.

No. 1. Glanders—Agglutinated at 1:500 mallein positive; later, agglutinated at 1:2000 mallein positive;

No. 2. Glanders-Agglutinated at 1:5000 mallein positive; later, agglutinated at

1:10000 mallein positive. 1:10000 mallein positive.

No. 3. Suspicious—Agglutinated at 1:2000 mallein good; 5 weeks later, agglutinated at 1:5000 mallein good; 10 days later, agglutinated at 1:2000 mallein good; 2 days later, agglutinated at 1:5000 mallein good.

No. 3. Suspicious—Agglutinated at 1:2000 mallein good; 5 weeks later, agglutinated at 1:5000 mallein good.

From a stable of horses that were supposed to be normal the sera from seven agglutinated below 1:500; three agglutinated at 1:500; four agglutinated at 1:1000 and above.

One horse with an index below 1:500 and one with an index above 1:500 were tested with mallein and both gave a negative reaction. This stable continues under observation.

One horse from this stable reacted at :200, four months later a test was made and the index was 1:5000. The horse at this time had two ulcers on the legs. An organism recovered from the pus morphologically resembled glanders and was quite virulent for guinea pigs but failed to develop agglutinins for glanders in the animal or to give any of the reactions peculiar to the B. mallei.

Schutz and Meissner found that the blood of one horse with lymphangitis out of four tested agglutinated at 1:1000 and two at 1:800; they state that this is the only condition not glanders that will give such a high reaction.

Nine horses with lymphangitis were tested by us and mallein given to four.

Two agglutinated at 1:2000; mallein not given.

Two agglutinated at 1:2000; mallein not given. One agglutinated at 1:1000; mallein not given. One agglutinated at 1:5000; mallein not given.

One agglutinated at 1:5000; mallein not given.
One agglutinated at 1:5000; mallein not given.
One agglutinated at 1:5000; mallein negative.
One agglutinated at 1:5000; mallein negative.
Two agglutinated at 1:5000; mallein positive.
The question that might arise here is whether or not there was a latent glanders in those cases where the reaction is high. More extensive research is necessary before any conclusions can be reached; but the fact that two horses, apparently healthy, reacted to mallein, is suggestive. The mallein was not given until the horses had fully recovered from the attack of lymphangitis.

In one stable under observation the horses were tested at different periods, with the results as shown in the table below.

the results as shown in the table below.

The horses were apparently normal when the tests were made in October and most of them up to the time they were destroyed. They were tested with mallein and were destroyed and autopsied within a few days after the tests.

The following list of horses were tested for the agglutination, and finally killed because of glanders

	Condition Reported,	Agglutination.	Mallein.	Disposition
1.	Enlarged submaxillary	5,000		Destroyed
2.	Eruption	500		Destroyed
3.	Septic condition	1,000		Destroyed
	Sixteen days later	5,000	Positive	Destroyed
4.	Farcy	2,000	Positive	Destroyed
5.	Suspicious	1,000		Destroyed
6.	Continued high temperature	1,000		Destroyed
7.	Enlarged submaxillary	5,000		Destroyed
8.	Suspicious	2,000		Destroye
9.	Suspicious	. 10,000	Positive	Destroye
0.	Glanders	. 20,000	Positive	Destroye

	Condition Reported.	Agglutination.	Mallein.	Disposition
1.	Ulcer of septum	. 5,000	Negative	Destroyed
2.	Mule glanders	. 20,000		Destroyed
3.	Nasal discharge	. 1,000		Destroyed
4.	Glanders	. 2,000		Destroyed
5.	Suspicious	. 2,000	Good	Destroyed
6.	Suspicious	. 2,000	Positive	Destroyed
7.	Suspicious	2,000	Good	Destroyed
8.	Suspicious	. 500		Destroyed
9.	Suspicious	, 2,000		Destroyed
0.	Continued high temperature for weeks	. 20,000	***********	Destroyed but no re port made
ı.	Suspicious	. 500	Good	Destroyed
2.	Enlarged submaxillary	. 1,000		Destroyed
3.	Suspicious	5,000		Destroyed
4.	Glanders	. 2,000		Destroyed

The following list is comprised of horses that were tested with mallein and for the agglutination reaction. The horses are still working:

	Condition.	Agglutination.	Mallein.
1.	Glanders	5,000	Positive.
2.	Enlarged submaxillary	5,000	Good.
3.	Suspicious	2,000 *	Good.
4.	Enlarged submaxillary	10,000	Good.
5.	Eruption	2,000	Negative.
6.	Suspicious	5,000	Negative.
7.	Exposed to glanders	500	Negative.
8.	Suspicious	10,000	Good.
9.	Suspicious	2,000	Good.
0.	Suspicious	5,000	Positive.
r,	Suspicious	5,000	Good.
2.	Suspicious	5,000	Positive.
3.	Suspicious	5,000	Positive.
4.	Suspicious	2,000	Good.
5.	Suspicious	2,000	Good.
6.	Suspicious	500	Negative.
7.	Suspicious	1,000	Positive.
8.	Suspicious	2,000	Positive.
9.	Suspicious	2,000	Negative.
0.	Suspicious	2,000	Questionable
1.	Suspicious	2,000	Good.
2.	Suspicious	10,000	Good.
3.	Suspicious	1,000	Good.
4.	Suspicious	200	Negative.
5.	Suspicious	Negative.	Negative.

The following list consists of horses tested for the agglutination reaction only:

	Condition.	Agglutin- ation.
1.	Swollen leg	. 1,000
2.	Suspicious	. 500
3.	Abscess on hip	. 1,000
4.	Suspicious	. 10,000
	Suspicious	. 2,000
5.	Suspicious	. 500
7.	Suspicious	. 1,000
7. 8.	Abscess over eye	. 5,000
9.	Suspicious	. 500
10.	Suspicious	. 1,000
II.	Suspicious	. 500
12.	Suspicious	. 2,000
13.	Suspicious	. 5,000
14.	Suspicious	. 10,000
15.	Suspicious	. 500
16.	Suspicious	. 1,000
17.	Suspicious	. 2,000
18.	Suspicious	. 200
19.	Suspicious	. Negative
20.	Suspicious	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
21.	Suspicious	. 2,000
22.	Suspicious	
23.	Enlarged submaxillary	
24.	Suspicious	

	Condition.	Agglutin- ation.
25.	Suspicious	1,000
28.	Suspicious	2,000
29.	Suspicious	5,000
30.	Suspicious	Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San Carlot San
31.	Suspicious	
32.	Suspicious	77
33.	Suspicious	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
34.	Suspicious	111
35.	Pyaemia	
36.	Chronic catarrh	900
37.	Blood disorder	700
38.	Enlarged submaxillary	
39.	Azoturia	
40.	Infected muscle	
41.	Maxillary abscess	27
1.6	Nasal discharge	
42.		
43.		
44.	Normal	177
45.	Normal	111
46.	Normal	
47.	Normal	
48.	Normal	200

* Died.

#### Summary.

It is not possible to draw definite conclusions as to the specifity of the agglutination reaction in glanders until the findings in questionable cases have been confirmed by careful autopsies.

The facts are suggestive, however, and tend to substantiate the views of all who have investigated the subject that high reactions indicate the presence of

glanders, and reaction even as low as 1:500 must be looked upon with suspicion. Further research will help to establish the reliability of the reaction, careful autopsies and systematic observation of the same horses over an extended period of time being the requirements best calculated to furnish definite and satisfactory provings.

At present the value of the test lies in its use as an indicator for the mallein test. In our hands, since the technique has become uniform, only one horse, as far as tested, has failed to give an agglutination reaction where it has responded to the mallein test; as a second testing was not practical at the time, this one

to the mallein test; as a second testing was not practical at the time, this one negative case, with so many positive cases, becomes a negligible quantity.

The presence of the agglutination reaction before the mallein reaction is accounted for by the fact that agglutinins are, as a rule, very quickly raised in the animal body, other antibodies oftentimes not appearing until late. A slight infection would then be sufficient to induce this reaction. This has been shown with some horses, which gave only an agglutination reaction at first. Several weeks later they showed an increase in the agglutinating index and reacted to mallein, and then either exhibited the physical signs of glanders before death or the characteristic lesions on autopsy.

A few human cases of glanders have been studied. The blood of these patients has agglutinated in dilutions of 1:1000 and 1:2000. In two cases the B. mallei has been recovered from the pus, from an abscess in one case and from the blood in a second case.

blood in a second case.

The sera from patients having diphtheria, scarlet fever and tuberculosis have been tested with the B. mallei. In some instances they have agglutinated the bacillus in dilutions of 1:50, and once as high as 1:100. In cases of glanders, as far as tested, the reactions occur in much higher dilutions, so that the chances for confusion of any of these conditions with glanders, at least as far as the agglutination reaction is concerned, is very slight. In all cases of apparently irregular typhoid the blood should be tested with the B. mallei.

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## AGGLUTININS AS RECEPTORS OF THE THIRD ORDER.

## Katherine R. Collins, M. D., Bacteriologist.

The following limited number of experiments were undertaken not with the intention of making an exhaustive study of this possible phase of the reaction of agglutinations, but for the purpose of determining to what extent the results of the work on agglutinins being carried out at the time might be affected by the more recent views advanced by some observers that agglutinins may sometimes be receptors of the third order and require the addition of complement or a corresponding substance to bring about a reaction.

of the third order and require the addition of complement or a corresponding substance to bring about a reaction.

Joos (a) believes that the agglutination reaction resembles the formation of a double salt thus requiring the presence of a third substance. Bail (b) places the agglutinins in the third order while Eisenberg and Volk (c) are uncertain whether they are in the second or third. Formerly Ehrlich (e) believed agglutinins to be of the second order, but has in a recent general review (f) on the work on immunity suggested the possibility of the precipitias and agglutinins behaving at times in a similar manner to the immune bodies.

Muir and Browning (g) found in the process of some haemolytic experiments that agglutination of the stromata occurred upon the addition of a complemental serum: This agglutination passed off after several hours, but partially returned upon further addition of the fresh serum. This led the authors to the view that agglutinins might sometimes be of the third order; they state, however, that they made only one

observation.

The foregoing opinions have been based chiefly upon results obtained from red blood cells. Ohwada (h), however, found that an old typhoid serum which had lost its agglutinating power was reactivated by the addition of fresh normal rabbit serum, but not by fresh horse, dog, guines-pig, cat, or chicken serum. He names the substance in the fresh serum "add-agglutinins."

The following experiments have given negative results in every combination except where the amount of complemental serum added would alone agglutinate the

organism used.

Serum of a Horse Immune to B. Typhi, to Which Fresh Normal Horse Serum Has Been Added and Tested With B. Typhi. I.

Index of Immune Serum before treat- ment.	Inde No Seru		Fresh Horse	ai	ex of Immune Serum + B. Typhi; fter half hour Fresh Normal Horse frum added in dilution 1:25.	Index of Immune Serum + Fresh 'Norma Horse Serum 1:25; after half hour I Typhi added.	al 3.	Index of In Horse +	nmune Serum + Fresh Normal B. Typhi added at once.
					***************************************	***************************************			
1:1000	1:10	1:20	1:50	*	1:1000 + +	1:1000 + +		-	1:1000

Index of Immune Serum before treat- ment.	Index of Fresh Normal Horse Serum.	Index of Immune Serum after half hour Fresh Serum added 1:50.	+ B. Typhi; Normal Horse		1:50; afte	Fresh Normal r half hour B.	Immune Serui Serum + B	m + Fresh . Typhi add	Normal Hors
1:1000	1:50	1:1000 1:2000	1:5000	1:1000	1:2000	1:5000	1:1000	1:2000	1:5000

The same immune serum as above, heated to 56° for 30' shows a diminition in the amount of agglutinins which the addition of fresh normal horse serum does not

The serum of a second horse immune to B. Typhi was tested in the same manner with fresh normal rabbit serum added as complement the results were the same as

A rabbit serum immune to the B. Dysentery (Shiga Type), heated to 56° for 30', and fresh normal rabbit serum used as complement also failed to show increase or

Pinally a rabbit serum immune to B. Dysentery, two years old and showing partial loss of agglutinins, was tested, fresh normal rabbit serum being used as a complement. Here again the results were negative

Since this paper was written Shibayama has made a series of tests with immune horse serum heated to varying degrees for different periods of time and to which he added fresh normal rabbit serum in amounts above the normal index of the serum. In this way he restored to the immune serum the agglutinins that had been destroyed by heat.

These results I have failed in repeated instances to bring about, and where changes occur they would seem to me to be of a pure physical nature. I cannot share the rather more prevalent view, that the agglutinin in such instances acts as a receptor of the third order, according to Ehrlich.

#### Conclusions.

The above experiments are not sufficient in number or latitude to refute, in the case of bacterial agglutinins, the findings of the several observers, that agglutinins may act like receptors of the third order. They demonstrate, however, that the phenomenon is not frequent and they suggest several possible sources of error that might readily lead to erroneous conclusions.

1. The technique of the agglutination reaction as it stands at present, is of necessity variable within narrow limits but uniform in the wider readings; hence, if the readings are taken within too narrow limits the results may be misleading.

2. The possibility of the normal serum containing agglutining for the organism

2. The possibility of the normal serum containing agglutinins for the organism tested must be kept very definitely in view.

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## THE FRACTIONAL PRECIPITATION OF ANTITOXIC SERUM.

By E. J. Banzhaf, Assistant Chemist, and R. B. Gibson, Bacteriologist.

Comparatively little attention has been paid to the fractional precipitation of antitoxin. Brodie in 1897 separated antitoxic horse serum into four fractions by the progressive addition of ammonium sulphate to half saturation; all four contained, however, relatively equal amounts of antitoxin. Atkinson in the Research Laboratory of the Department saturated with sodium chloride a solution of the moist serum globulin precipitate obtained with magnesium sulphate, and by then employing heat differentiated the globulin into several fractions containing antitoxin. The protective properties corresponded roughly to the quantities of serum globulin in the precipitates. In some unpublished experiments he found that alterations of the amounts of coagulated proteid in the several fractions resulted if more magnesium sulphate was added before heating; there were proportionate changes in the distribution of the antitoxin. Owing to the destruction of a portion of the antitoxin at the higher temperature and possible injury by exposing it to heat of less degree, this fractionation must be considered as incomplete and does not exclude a purification of the antitoxin by salt fractionation. The work of E. P. Pick on the ammonium sulphate fractioning of the anti-bodies has been referred to in the preceding communication. Our own experiments have resulted somewhat differently from either those reported by Atkinson or by Pick, and have developed some important new and suggestive facts.*

On the basis of the solubility of the antitoxin proteids in saturated Na Cl solution, one of us (Gibson) recently devised a method for the partial purification and concentration of antitoxin. This consisted in precipitating the diluted plasma with an equal volume of saturated ammonium sulphate and separating the antitoxin proteids by extracting the precipitate with saturated sodium chloride solution. We now have employed the method of salt fractionation to study further the conce

Twenty liters of plasma (475 units per c. c.) were diluted with 20 liters of water; by fractioning with ammonium sulphate, the three proteid precipitates were obtained which separated at concentrations corresponding to 3.3 c. c., 3.3 to 3.8 c. c. and 38 to 50 c. c. of the saturated salt solution in 10 c. c. The Na Cl soluble (antitoxic) globulins of these fractions and of the 5.0 saturation precipitate of a second, 20 liters of the plasma were prepared as usual.

Prep. 77.

	A	В	С	D
Fractions	0.0-5.0	0.0-3.3	3.3-3.8	3.8-5.0
Volume c.c	5,200	1,440	1,400	2,050
Units per c.c	1,450	1,150	1,350	1,750
Times concentrated	3.05	2.42	2.84	3.68
Per cent. recovered	79.3	17.4	19.9	37.8
Proteid, gms. per 100 c.c	11.66	11.51	9.87	9.70
Units, per gm. proteid	12,436	10,000	13,666	18,000

A second experiment with a 450 unit plasma gave the following results: Prep. 82.

	A	В	С	D
Fractions	0.0-5.0	0.0-3.3	3.3-3.8	3.8-5.0
Volume c.c	6,240	1,350	1,640	2,550
Units per c.c	1,050	900	1,300	1,600
Times concentrated	2,34	2.00	2.89	3.56
Per cent. recovered	72.8	13.9	22.6	45.3
Proteid, gms. per 100 c.c	10.59	12.06	13.46	13.41
Units, per gm. proteid	9,914	7,464	9,655	11,930

These observations show that the antitoxic globulins of the higher fractions are much more potent than those of the less soluble proteids.

Both the preparations, by the original method and by fractioning when precipitated from the Na Cl solution and dialyzed, contained a probably partially denaturalized antitoxic globulin; this has a diminished solubility and antitoxic potency (per gm.) and is precipitated on slight acidification by diluting at least twenty times. The filtrates from the acid water precipitable globulin coagulated at 73° while saline solutions of these precipitates showed varying and much lower coagulating temperasolutions of these precipitates showed varying and much lower coagulating temperatures. The following results were obtained on progressively fractioning (in two experiments) by the addition of the dry salt, a liter of about 400 units antitoxic plasma. The initial dilution was 1.5. The precipitates were pressed between filters and extracted with saturated Na Cl solution. The determinations on the filtered extracts are given per c. c. of the original plasma.

Fractioning of Plasma 306, August 1, 1906.

Fractions.	Proteid per c.c.	Units per c.c.	Units per gm Proteid
A 0.0 — 3.4	0.00321	25	7,800
3.4-3.6	0.00223	20	8,960
3.6—3.8	0.00450	45	10,000
3.8—4.0	0.00416	52	12,480
4.0 — 4.2	0.00408	60	14,700
4.2-4.4	0.00272	50	18,390
4.4—4.6	0.00191	40	20,890
4.6—4.8	0.00163	30	18,410
4.8 — 5.0	0.00111	20	18,016
5.0-5.6 B	0.00428	15	6,175
0.0 — 3.4	0.00394	25	6,345
3.4—3.6	0.00219	20	9,114
<b>1</b> .6 — 3.8	0.00392	45	14,440
3.8 — 4.0	0.00335	52	15,530
4.0 — 4.2	0.00326	60	17,850
4.2-4.4	0.00255	55	21,600
4.4 — 4.6	0.00181	40	22,100
4.6—4.8	0.00147	30	20,380
4.8 — 5.0	0.00090	20	22,320
5.0 — 5.6		15	

Further fractioning after complete removal of the water precipitable globulin was done on 50 c.c. of the globulin solution Prep. 77 A. The fractioning was with a dilution of the original preparation of 1:20. The results are expressed per c.c. of the original undiluted preparation.

## Refractionation of Prep. 77 A.

Fractions.	Proteid per c.c.	Units per c.c.	Units per gm. Proteid.
0.0 — 4.0	0.0408	400	9,791
4.0 4.4	0.0165	225	13,667
4.4 — 5.0	0.0176	375	21,306
5.0+	0.0018	75	41,722
4.8 — 5.5*	0.0046	150	34,783

^{*} Made on a second 50 c.c. of the same preparation.

Prep. 82 D. was refractioned without removing the acid-water precipitable globulin. The dilution was 1:10.

Brodie: Journal of Path. and Bact. iv., p. 460, 1897.
Atkinson: Journal of Exper. Med. v., p. 67, 1901.

* The literature on the purification and chemical characters of anti-bodies has been briefly reviewed in a paper on the "Practical Concentration of Diphtheria Antitoxin for Theraputic Use" in the report of the Department for 1905.

#### Refractionation of Prep. 82 D.

Fractions.	Proteid per c.c.	Units per c.c.	Units per gm. Proteid.
0.0 — 4.0	0.07318	, 600	8,136
4.0 — 4.2	0.01779	240	13,490
4.2 — 4.4	0.02197	260	11,840
4.4—4.6	0.01232	160	12,990
4.6 — 4.8	0.00708	90	12,711
4.8 — 5.0	0.00511	80	15,670
5.0 — 5.6	0.00197	90	45,690
	0.13941	1,510	
For 82 D	0.1341	1,600	

This shows a globulin of rather uniform potency per gm. from fractions 4.0—4.8, and then a marked jump from 5.0—5.6 to about three times the original potency per gram. The proportion of antitoxin in the highest fractions is less than 6 per cent. of the total units. Prepared for administration as is the ordinary antitoxin globulin, the resulting product would have a potency of from 5000-6000

units per c.c.

From the data presented it appears that the saturated NaCl soluble serum globulins of the higher fractions of plasma are uniformly much more potent per gm. proteid than are those precipated by lower concentrations of ammonium sulphate. Between concentrations of the sulphate of 5.0 and 5.6 a small proportion of the total NaCl soluble globulin preparation (or of a higher fraction of the same) is precipitated; the solution of the globulin has a protective power of from 40,000-45,000 units per gm. proteid.

Further investigations directed towards the purification and concentration of

Further investigations directed towards the purification and concentration of antitoxins are now in progress.

#### THE PRODUCTION OF DIPHTHERIA ANTITOXIN DURING THE YEAR 1906.

By Edwin J. Banzhaf, Research Laboratory, Department of Health.

The amount of diphtheria antitoxic serum and citrated-plasma produced during the year 1906 was 1,680,685 c.c., of which 165,355 c.c. was serum and 1,515,330

citrated-plasma. This amount was produced from twenty-six horses.

The average number of units per c.c. was 355; the highest number of units per c.c. being 1,450, and lowest, 100.

By Gibson's method of concentrating and refining* we used 1,252 liters citrated-plasma, averaging 400 units per c.c., and recovered 363½ liters, averaging

*"Journal of Biological Chemistry," 1.161, 1906, and "Studies from the Research Laboratory," vol. I., 1905.

1,000 units per c.c. The highest product recovered was 2,500 units per c.c., and the

Horses 305, 306, 307 and 308, which received toxin precipitated and concentrated by alcohol, are especially interesting, as can be seen from the following table: The first two, after only six weeks' immunization, each receiving in that time 330,750 M. L. D. produced an extremely potent antitoxic serum, each containing 1,200 units per c.c. After receiving an injection of 137,500 M. L. D. additional, and bleeding after a week, horse 305 tested 1,250 units per c.c., and horse 306 tested 1,450 units per c.c. Horse 305, receiving increasing amounts of toxin and bleeding each week, held between 1,200 and 1,250 units per c.c. for six bleedings dropping to 1,000 units per c.c. and remaining there for three bleedings, and ings, dropping to 1,000 units per c.c., and remaining there for three bleedings, and then slowly dropping, until after fourteen more bleedings the serum tested 300 units per c.c.

Horse 306, receiving each week increasing amounts of toxin and bleeding each week, held between 1,300 and 1,450 units per c.c. for six bleedings, dropping to 1,100 units per c.c., and remaining there for four bleedings, and then slowly drop-

ping until after eleven more bleedings the serum tested 400 units per c.c.

Horses 307 and 308, however, with exactly the same treatment, did very

poorly. Horse 307, after receiving as much as 1,108,750 in L. D., tested only 350 units per c.c. This horse, during the next three weeks, received 825,000 M. L. D. additional, testing then only 300 units per c.c. Although receiving increasing amounts of toxin each week and bleeding on the average of once a month, horse 307 continually dropped in potency, and at last bleeding tested a little below 200 units per c.c. units per c.c.

Horse 308, after receiving 617,500 M. L. D., tested only 250 units per c.c. This horse during the next four weeks received 912,500 M. L. D. additional, testing then only 200 units per c.c. Although receiving increasing amounts of toxin each week and bleeding on the average of once a month, horse 305 continually dropped in potency, and at last bleeding tested 100 units per c.c.

It is probable that even under the regular treatment horses 305 and 306 would

have produced high antitoxic serum, and horses 307 and 308 low antitoxic serum. We believe that the smaller amount of deleterious substances introduced in the injections with precipitated and concentrated toxin makes it possible to give the injections with precipitated and concentrated toxin makes it possible to give the horses larger amounts of toxin without ill effects, and to continue such injections without depressing the animals vitality.

On the whole, the use of precipitated and concentrated toxin does not seem at this time to offer any advantages which are not considerably outweighed by the disadvantages, viz., expense of alcohol, loss of toxin, labor, etc.

Horse 262 shows the enormous capacity for antitoxic production which some

animals possess. This horse entered the station in February, 1904, and soon began to produce a high grade antitoxic serum. During the year 1904 he produced 81,010 c.c. serum, averaging 496 units per c.c., the highest potency being 700 units per c.c. and the lowest 300 units. During the year 1905 he produced 69,585 c.c. serum, averaging 400 units per c.c., the highest being 550 units per c.c. and the lowest 250 units. During the year 1906 he produced 165,010 c.c. plasma and serum, averaging 409 units per c.c., the highest being 550 units per c.c. and the lowest 300 units, making the total production up to December 31, 1906, 315,605 c.c. plasma and serum, averaging 435 units per c.c.

Horse 299 is worthy of mention. Although a small horse he produced, from February, 1906, to December, 1906, 180,290 c.c. plasma and serum, with an average of 462 units per c.c., the highest potency being 550 units per c.c. and the lowest . 350 units per c.c.

Horse 262, during the year 1906, was bled twenty-five times and horse. This horse entered the station in February, 1904, and soon began

Horse 262, during the year 1906, was bled twenty-five times and horse 299 twenty-seven times, without any apparent ill effects, producing a fairly high grade antitoxic serum, with an average of seven liters per bleeding.

One cannot but marvel at the splendid recuperative power of the animal organism.

Horse Number.	Date of First Injection.	Number of Bleedings During 1906.	Citrated Plasma Produced in c. c. During 1906.	Serum Produced in c. c. During 1906.	Total Plasma and Serum Produced in c. c. During 1906.	Highest Potency in Units Per c. c. During 1906.	Average Units Per c. c. During 1906.	Final Disposition.
234	Aug. 21, 1903	11	61,350	20,050	81,400	425	398	Bled to death, April 24, 1906.
262	Feb. 15, 1904	25	144,800	20,210	165,010	550	409	Still in use.
264	Feb. 28, 1904	2		6,760	6,760	375	350	Died from injection, February 12, 1906
268	Apr. 18, 1904	2	******	11,190	11,190	300	275	Died, abscess in lungs, February 20, 1906
271	Nov. 2, 1904	6	53,970	*****	53,970	350	230	Bled to death, May 11, 1906.
272	Nov. 2, 1904	6	29,000	*****	29,000	350	230	Bled to death, April 3, 1906.
284	July 13, 1905	3	12,400		12,400	200	200	Transferred to dystentary.
285	July 28, 1905	5	31,860	13,655	45,515	400	370	Died after bleeding, March 8, 1906.
286	Aug. 18, 1905	12	73,210	5,370	78,680	300	261	Died from colic, May 3, 1906.
288	Aug. 22, 1905	15	96,400	10,015	106,415	600	533	Died while being bled, May 19, 1906.
289	Aug. 22, 1905	6.	21,590	6,480	28,070	200	200	Destroyed; autopsied December 26, 1906
291	Aug. 22, 1905	12	74,150		74,150	375	290	Bled to death, May 16, 1906.
293	Sept. 4, 1905	13	85,330		85,330	375	320	Bled to death, May 16, 1906.
295	Sept. 17, 1905	7	46,590		46,590	300	230	Bled to death, April 6, 1906.
296	Sept. 17, 1905	12	81,420		. 81,420	300	240	Bled to death, November 28, 1906.
299	Sept. 22, 1905	27	174,830	5,460	180,290	550	462	Destroyed; autopsied December 28, 1906
302	Nov. 8, 1905		32,300		32,300	200	200	Bled to death, May 16, 1906.
*305	Feb. 14, 1906	23	135,080	14,310	149,390	1,250	513	Died after injection, December 21, 1906
*306	Feb. 14, 1906	21	120,600	18,410	139,010	1,450	587	Still in use.
*307	Feb. 14, 1906	7	36,600	2,145	38,745	350	230	Still in use.
*308	Mar. 6, 1906	6	31,750	2,750	34,500	250	180	Bled to death, August 28, 1906.
309	Sept. 29, 1906	Test				200	****	Still in use.
310	Mar. 20, 1906	11	71,000	1,330	72,330	725	597	Bled to death, August 16, 1906.
311	June 23, 1906	12	57,000	18,030	75,030	950	783	Died after injection, December 21, 1906
312	June 23, 1906	2	8,000	5,570	13,570	450	400	Died after injection, October 20, 1906.
314	July 2, 1906	1	134,000		13,400	250	250	Destroyed; autopsied December 28, 1906
316		5	22,700	3,620	26,320	250	495	Still in use.
317	Nov. 13, 1906	4.4						Still in use.

* Horses were injected with concentrated and refined toxin.

The total amount of plasma and serum produced by the older horses since entering the station is as follows:

Horse Number.	Serum Produced During 1903.	Average Units Per c. c. Dur- ing 1903.	Serum Produced During 1904.	Average Units Per c. c. During 1904.	Serum Produced During 1905.	Average Units Per c. c. During 1905.	Plasma and Serum Produced During 1906.	Average Units Per c. c. During 1906.	Total Plasma and Serum Produced in c. c. to December 31, 1906.	Average Units Per c. c. to De- eember 31, 1906.
234	30,775	475	67,265	472	60,150	375	81,400	398	239,590	430
262			81,010	496	69,585	400	165,010	409	315,605	435

Horse Number.	Serum Produced During 1903.	Average Units Per c. c. Dur- ing 1903.	Serum Produced During 1904.	Average Units Per c. c. During 1904.	Serum Produced During 1905.	Average Units Per c. c. During 1905.	Plasma and Serum Produced During 1906.	Average Units Per c. c. During 1906.	Total Plasma and Serum Produced in c. c. to December 31; 1906.	Average Units Per c. c. to De- cember 31, 1906.
264	******		59,305	563	40,760	382	6,760	350	106,825	432
268			30,325	525	36,500	440	11,190	275	78,015	413
271		****		****	42,710	310	53,970	230	96,680	270
272	*****				35,615	312	29,000	230	64,615	271
284	*****	* ****			14,190	290	12,400	, 200	26,590	245
285	*****		*****		24,535	412	45,515	370	70,050	391
286				****	5,010	250	78,680	261	81,690	255
288				****	5,250	400	106,415	533	111,665	466
289			******		3,740	250	28,070	200	31,810	275

THE RESISTANCE OF DIFFERENT STRAINS OF TYPHOID BACILLI IN CROTON TAP WATER.

By Mary E. Goodwin, M. D., and M. Alice Asserson, M. D., Assistant Bacteriologist, Research Laboratory.

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Director.

Jordan,* Russell and Zeit tested the viability of typhoid bacilli in Lake Michigan water and in the water of the Chicago Drainage Canal. Russell† and Fuller in their work on "The Longevity of the Typhoid Bacillus in Natural Waters and in Sewage," used Lake Mendota water and added sewage. Jordan, Russell and Zeit did fifteen experiments with Lake Michigan water in glass containers. The water contained from 100 to 200 saprophytes. In raw tap water the typhoid bacilli lived six or seven days; in sterile tap water, twenty-five days, and in filtered tap water, only four days. When the typhoid bacilli were put into raw tap water in parchment or celloidin sacs they lived six or seven days. When the sacs were filled with sterile tap water the bacilli still survived at the end of fifteen days, when the experiments were discontinued. These fifteen experiments seem to have been carried on with old cultures from different sources. The same workers did a good deal of work with Chicago river water when they used three recently isolated cultures. In this work the sacs were suspended in running water. In the Chicago river water the typhoid bacilli were isolated for only three days, and in the drainage canal water for only two days, with one exception, where it was found on the tenth day.

Russell and Fuller in 1906, working with one of the same cultures, tested Lake Mendota water pure and with raw sewage added. In the flowing water the typhoid bacilli lived eight or ten days; with the addition of sewage, only three to five days.

The present work was undertaken to find out the effects of Croton tap water on different strains of typhoid bacilli exposed in different ways. The following cultures were used:

Six cultures freshly isolated from the stools of two typhoid cases, in the second week. Stone I, 3 and 5, and Ruth, I, 2 and 5, 183 and 167 isolated six months. Mt. Sinai and NYHs, isolated two years. Pf., isolated fourteen years.

Where raw water was used the typhoid bacilli were isolated from Conradi-Drigalski plates and identified by specific sera and by sugar media.

The first experiment included tests of sterile distilled, sterile tap and filtered tap water, with the six freshly isolated cultures, and raw tap water with the same cultures and Mt. Sinai, NYHs, 183 and 167.

## TABLE 1.

The three cultures from the Stone case all died on the fourth day in sterile distilled water, and on the thirtieth day in sterile tap water. In filtered tap water two cultures lived days longer than the third. In sterile distilled water the cultures from Ruth case seemed much more resistant than those from the Stone case, as they lived six, seventeen and eighteen days. In filtered tap water the relation seemed reversed, the Ruth cultures living only twenty-one days, while two of the Stone cultures lived thirty days.

In raw tap water with 470, 37°; 6, 480 at 24° saprophytes per c.c., one of the freshly isolated cultures, Ruth, lived only five days, while all the old laboratory cultures lived more than eleven days.

lived more than eleven days.

In the following work with different kinds of sacs filled with sterile tap water the technique was about the same as that used by Russell and Fuller. Gelatin sacs made by covering silk with 40 per cent. gelatin and hardening in 40 per cent. formalin were used instead of agar on fibre sacs. These, after hardening, could be sterilized in the Arnold Sterilizer without injury. Heavy parchment paper was used instead of the parchment tubing, as the only tubing obtainable in New York was found to contain so many small holes that it was unfit for use.

Culture.	Number of Bacilli Put Into the c.c.	Last Day of Isola- tion.
Sterile Distilled Water in Glass Receptacles—		
Stone 1	214,000	4th
Stone 3	179,000	4th
Stone 5	111,000	4th
Ruth 1	153,000	6th
Ruth 2	88,000	18th
Ruth 5	257,000	17th
Sterile Tap Water in Glass Receptacles-		
Stone 1	214,000	30th
Stone 3	179,000	30th
Stone 5	111,000	30th
Ruth 1	153,000	30th
Ruth 2	88,000	12th
Ruth 5	257,000	30th
Filtered Tap Water in Glass Receptacles-		
Stone 1	214,000	21st
Stone 3	179,000	30th
Stone 5	111,000	30th
Ruth 1	153,000	21St
Ruth 2	88,000	aist
Ruth 5	257,000	21st

^{*} Journal of Infectious Diseases, 1904, 1. p. 641. † Journal of Infectious Diseases, Supplement No. 2, 1906.

Culture.	Number of Bacilli Put Into the c.c.	Last Day of Isola- tion.
Raw Tap Water in Glass Receptacles—		
Stone 1	214,000	12th
Stone 3	179,000	17th
Stone 5	111,000	17th
Ruth 1	153,000	13th
Ruth 2	88,000	21st
Ruth 5	257,000	5th
* Mt. Sinai	100,000	17th
* N. Y. H.,	100,000	17th
* 183	100,000	17th
* 167	100,000	12th

* Count estimated, the plates having so many colonies that they were uncountable.

Parchment and celloidin sacs filled with sterile tap water and placed in running tap

	Parchmen	nt Sacs.	Celloidi	n Sacs.
Culture.	Number of Bacilli Put in Per c.c.	Last Day Iso- lated.	Number of Bacilli Put in Per c.c.	Last Day Iso lated,
First Set of Experiments—				
Stone 1	32,000	8th	75,000	8th
Stone 3	129,000	8th	86,000	7th
Stone 5	194,000	7th	54,000	6th
Ruth 1	65,000	8th	86,000	6th
Ruth 2	54,000	7th	10,800	6th
Ruth 5	108,000	7th	66,400	4th
Mt. Sinai			10,800	4th
Pf	64,800	4th		
Second Set of Experiments-	4			
Stone 1	300,000	5th	300,000	21st
Stone 3	285,000	7th	285,000	rith
Stone 5	200,000	6th	200,000	4th
Ruth 1	600,000	5th	600,000	21st
Ruth 2	121,000	5th	121,000	4th
Ruth 5	675,000	7th	675,000	20th
Mt. Sinai	531,000	7th	531,000	9th
Pf	121,000	5th	121,000	11th

## Gelatine Sacs.

Culture.	Number of Bacilli to c.c.	Last Day Iso lated.
Experiment 1—		
Mt. Sinai	 13,500	8th
Stone 1	 24,000	8th
Stone 3	 20,000	8th
Ruth 5	 20,000	8th
Experiment 2-		
Mt. Sinai	 300,000	8th
Pf	 300,000	8th
183	300,000	8th

## TABLE 3.

The last day of isolation of the different typhoid cultures in the different sacs in

Culture.	Parchment.	Celloidin.	Gelatine.
Stone 1	8th day	21st day	8th day
Stone 3	8th day	11th day	8th day

Culture,	Parchment.	Celloidin.	Gelatine.
Stone 5	7th day	6th day	
Ruth 1	8th day	21st day	
Ruth 2	7th day	6th day	
Ruth 5	7th day	20th day	8th day
Mt. Sinai	7th day	9th day	8th day
Pf	5th day	11th day	8th day
183			8th day

Conclusions.

All of the cultures except "Pf.," which has been isolated fourteen years, seem to have about the same resistance in running tap water. "Pf." cultures generally died out a day or two earlier than the other cultures.

The resistance of typhoid bacilli in Croton tap water corresponds more nearly to the resistance in the comparatively pure water of Lake Mendota than to that in the Chicago river water.

The work throughout was very consistent, with the exception of three cultures in celloidin sacs, which survived twenty days.

#### REPORT OF BACTERIOLOGICAL EXAMINATION OF WATER FOR THE YEAR 1906.

By Mary E. Goodwin, M. D., Bacteriologist, Research Laboratory.

Croton tap water at East Sixteenth Street was placed in agar and tested for the presence of colon bacilli once a week during the year. The colony count at 37 degrees and 24 degrees C. was as follows:

Date.	Source.	1 c.c. Plated in Agar at 37° C.	At 24° C.	Smallest Quantity of Water Containing Colon Bacilli, as		Production.
		for 24 Hours.	for 72 Hours.	Shown by the Pre- sumptive Test.	Per Cent. Gas.	Proportion.
Jan. 3	Tap at Laboratory	250 colonies	3,000 colonies	ı c.c.	30	25% Co2; H present
Jan. 11	Tap at Laboratory	76 colonies	141 colonies	10 c.c.	*	
Jan. 22	Tap at Laboratory	200 colonies	4,800 colonies	10 c.c.	30	25% Co2; H present
Jan. 30	Tap at Laboratory	27 colonies	46 colonies	1 c.c.	90	35% Co2; H present
Feb. 7	Kisco Brook, above drain	22 colonies	848 colonies	1-10 c.c.	25	25% Co2; H present
Feb. 7	Mount Kisco, hotel drain	166 colonies	2,640 colonies	1-500 c.c.	60	40% Co2; H present
Feb. 7	Gorham Pond Brook	20,000 colonies	40,000 colonies	1-100 c.c.	20	25% Co2; H present
Feb. 7	Outlet from Croton Lake	44 colonies	2,160 colonies	1 c.c.	2	
Feb. 8	Tap at Laboratory	880 colonies	2,048 colonies	10 c.c.	20	25% Co2; H present
Feb. 15	Tap at Laboratory	46 colonies	628 colonies	*****	t	
Feb. 22	Tap at Laboratory	60 colonies	720 colonies	10 c.c.	15	5% Co2; H present
Mar. 2	Tap at Laboratory	144 colonies	6,000 colonies	1-10 c.c.	90	60% Co2; H present
Mar. 10	Tap at Laboratory	290 colonies	3,140 colonies	1-10 c.c.	5	
Mar. 17	Tap at Laboratory	50 colonies	240 colonies	5 c.c.	35	30% Co2; H present
Mar. 23	Tap at Laboratory	96 colonies	1,140 colonies	10 C.C.	65	25% Co2; H present
Mar. 29	Tap at Laboratory	1,270 colonies	2,250 colonies	10 c.c.	3	
April 13	Tap at Laboratory	80 colonies	1,920 colonies	10 c.c.	50	20% Co2; H present
April 18	Tap at Laboratory	46 colonies	260 colonies	10 c.c.	1	
April 26	Tap at Laboratory	55 colonies	1,680 colonies	I c.c.	30	30% Cog; H present
Мау з	Tap at Laboratory	37 colonies	500 colonies	10 c.c.	*	
May 9	Tap at Laboratory	480 colonies	810 colonies	10 c.c.	40	25% Co2; H present
May 17	Tap at Laboratory	11 colonies	130 colonies	10 c.c.	40	30% Co,; H present
May 24	Tap at Laboratory	22 colonies	114 colonies	10 c.c.	*	
Мау 31	Tap at Laboratory	22 colonies		10 c.c.	25	25% Co,; H present
June 10	Tap at Laboratory	220 colonies	3,500 colonies	1-10 c.c.	20	20% Co2; H present
Tune 14	Tap at Laboratory	28 colonies	530 colonies	1-10 c.c.	25	Co2; H present
une 22	Tap at Laboratory	540 colonies	2,380 colonies	I-10 c.c.; I c.c.	10, 25	25% Co,; H present
une 28	Tap at Laboratory	147 colonies	260 colonies	1-10 c.c.	30	30% Co,; H present
fuly 5	Tap at Laboratory	30 colonies	179 colonies	1-10 c.c.	10	20% Co.; H present
uly 12	Tap at Laboratory	36 colonies	103 colonies	1-10 c.c.	25	40% Co.; H present
uly 19	Tap at Laboratory	310 colonies	340 colonies	1-10 c.c.	35	20% Co2; H present
uly 26	Tap at Laboratory	80 colonies	170 colonies	1-10 c.c.	25	30% Co,; H present
Aug. 1	Tap at Laboratory	380 colonies	1,170 colonies	1-10 c.c.	40	30% Co2; H present
ug. 10	Tap at Laboratory	220 colonies	430 colonies	1-10 c.c.	12	30% Co2; H present
lug. 15	Tap at Laboratory	15 colonies	160 colonies	ı c.c.	20	25% Co2; H present
lug. 22	Tap at Laboratory	400 colonies	368 colonies	1-10 c.c.	25	50% Co.; H present
ug. 30	Tap at Laboratory	237 colonies	700 colonies	1-100 c.c.	20	30% Co2; H present
ept. 6	Tap at Laboratory	400 colonies	38o colonies	1-10 c.c.	12	25% Co.; H present
ept. 15	Tap at Laboratory	110 colonies	530 colonies	1-10 c.c.	8	25% Co2; H present
ept. 20	Tap at Laboratory	32 colonies	440 colonies	ı c.c.	90	50% Co2; H present
ept. 24	Tap at Laboratory	45 colonies	780 colonies	ı c.c.	95	70% Co2; H present
ept. 28	Tap at Laboratory	135 colonies	860 colonies	1-10 c.c.	20	25% Co2; H present
Oct. 3	Tap at Laboratory	18 colonies	237 colonies	1-10 c.c.	25	33 1-3% Co2; H prese
Oct. 12	Tap at Laboratory	25 colonies	157 colonies	1-10 c.c.	16	60% Co,; H present
ct. 19	Tap at Laboratory	2,400 colonies	3,000 colonies	1-10 c.c.	95	10% Co ₂ ; H present
ct. 24	Tap at Laboratory	560 colonies	2,100 colonies	1-10 c.c.; 1 c.c.	10, 80	40% Co2; H present
Nov. 1	Tap at Laboratory	49 colonies	440 colonies	1-10 c.c.	10	25% Co2; H present
Nov. 14	Tap at Laboratory	41 colonies	169 colonies	1-10 c.c.	30	25% Co2; H present
Nov. 21	Tap at Laboratory	18 colonies	141 colonies	10 c.c.	60	50% Co ₂ ; H present
Nov. 28	Tap at Laboratory	43 colonies	93 colonies	10 c.c.	90	50% Co ₂ ; H present
Dec. 5	Tap at Laboratory	22 colonies	320 colonies	10 c.c.	90	40% Co2; H present
Dec. 12	Tap at Laboratory	52 colonies	270 colonies	ı c.c.	20	25% Co2; H present
Dec. 20	Tap at Laboratory	137 colonies	450 colonies	1-10 c.c.		-570 Cog, in present

*Few bubbles.

No gas in 10 c.c.

A STUDY OF THE PNEUMOCOCCUS DURING LONG CONTINUED CULTI-VATION ON MEDIA, WITH ESPECIAL REFERENCE TO THE INULIN TEST.*

Dr. Jane L. Berry, Acting Assistant Bacteriologist, Research Laboratory.

The work reported in this paper was carried on under the direction of Drs. William H. Park and A. W. Williams, and consists of a study of some of the pneumococcus strains isolated at the Research Laboratory during the period between November, 1904, and August, 1905. The system of designating the strains is that used by Drs. Park and Williams in the report made to the Pneumonia Commission, a the description of the strains here mentioned being included in that report.

The organisms have been cultivated during the time since isolation upon blood agar, with occasional transfers to serum broth, or calcium broth. The possibility of contamination by similar organisms, during so long a period of cultivation on artificial media, has, of course, to be considered in judging results, but it is not thought that any contamination has taken place; first, because of the care exercised in transferring cultures and watching results; second, because where changes have occurred in the different strains they have been of a similar character, indicating a systematic tendency,

and third, because in some cases, where a change has taken place, it has been possible to observe the different stages leading toward it, in a graduated series.

Very few strains are now found to be typical, morphologically. The majority show very small organisms and increased chain formation, namely, a more or less marked approach toward a streptococcus type. With some strains this change seems to be a permanent one, the organisms having a definite streptococcus morphology in all media; with others the change is but temporary, to be followed in later cultures by a return to a characteristic pneumococcus type, and with a few strains, while an occasional atypical culture is seen, the majority of cultures now show a morphology as typical as when the organisms were first isolated more than a year ago.

Table 1 gives the results of a study of morphology and inulin coagulation made, during January, 1906. Sixty-one strains were studied at this time, selected at random from the laboratory stock. Since but one inulin test was made with each strain in this series of experiments, only general conclusions can be drawn as to inulin coagulation from this part of the work, in view of the great irregularities later observed.

^{*}This is a continuation of the work reported in the 1905 volume of "Studies from the Research Laboratory."

a Jour. Exper Med. 1905, 7, p. 403.

TABLE 1.

Summary of Inulin Tests Made January, 1906, Upon Strains of Pneumococci Isolated at Different Periods Between November, 1904, and March, 1905, Compared With Similar Tests Made Soon After Isolation. All Positive in Original Tests.

	Coagulated Than in Or	not Later rignal Test	Coagu	lated	l Late	er than in Cest	Orignal	Not Coag Time Tho lated in O	ulated This ough Coagu- riginal Test.	Total
	Char.	Not Char.	Chara	cteri	stic	Not	Char.	Char.	Not Char.	
	81001	181122	151112	3d	later	221001	2d later	41001	201122	
Pneumonia Cases	191001	771001	391001	2d	"				211122	
a C	131001		†471122	2d	**			621112	361001	
noni	461001		571122	8d	**			671001	†471001	
nen	561112		831001	ıod	44			721001		
Pı	691001							751001	731001	
	821322						2	761001		
						*		981122		
	. 7	2		5	- 1		1	7	5	27
						6			12	
_		N1061112						N231122	†N101112	
	N411122	N1111001	N89112	2 8d	later			N511122	N111122	
ses	N1241001	N1271112						N521122	N431122	
Ca	N1351122	N1131001	N99112	2 9d	later			N591122	N451001	
Normal Cases	N3 61212							37	N1071111	
No								N911222		
								N1001122		
								N1091112		
								N1301112		
	4	4	,	2			0	8	5	
		3				2			13	23
un .	C &D41001	C231112	C51122	ıd	later	Me21112	3d later	C& D8100	1 †C41122	
s	1,001	Me1,122	150000					T31122		
ase	Q51122							Q31001		
Misscellaneous	201111							C231122		
2	2	2		1			1	. 4	1	1
	Total	1				2			5	6

† Pneumococcus Mucosus.

TABLE 2. Synopsis of Characteristics of Pneumococcus Cultures Before Passage Through Animals, and After Passage Through Last Series.

o	riginal Culture		Original at time of Isolation	Original Janu- ary, 1906	Original before Inoculation May, 1906			Mice			Original June,
			Origin of I	Origi	Origi In M:	-1	2	3	4	5	Orig
	ſ	(Typ.	+	.+=	#	+=		+		****	+
	Morphology	Atyp.					Dis- carded		pa	4444	
*41001	ĺ	Caps.	+			=	Dig	+	Lived	****	
		Inulin	+	-	-	-		+			-
	ſ	Typ.	=	++	+						=
	Morphology	Atyp.				+	+	<b>+</b> +	led led	+	
161112	ì	Caps.	?			?	-	_	Dis- carded	Indic.	
		Inulin	+	-	-	±	+	#		+	+
	ſ	Typ.	+								
26	Morphology	Atyp.	****	+	+	s- led	+	+	+	ed	+
361001 (No. 1)	1	Caps.	+		****	Dis- carded	_	-	Noorg	Lived	
		Inulin	+	-	-		-	-	-		-
	(	Typ.	+	+	+			****			+
26	Morphology	Atyp.				÷ ;					
No. 2) Morph		Caps.	+			Not inoc.					
	ł	Inulin	+	+	+						+
	(	Typ.	+	+	<b>+</b> +	<b>+</b> +	+	<b>+</b> +	+	+	+
	Morphology	Atyp.									
471001		Caps.	+			-	-		-	No org	
		Inulin	+	_	-	Ŧ	-	<b></b>	=	-	+
	ſ	Typ.	+	<b></b>					****		
	Morphology	Atyp.			. +	+	+	+	+	+	+
761001		Caps.	Indic.			Indic.	-	_	-	_	
		Inulin	+	_	_	+	=	-	Ŧ .	+	-
		(Typ.	+	+=	+	+	+	<b>+</b> +	<b></b>	+	+
	Morphology	Atyp.									
N231122		Caps.	+			?	+	_	. +	+	
		Inulin	+	_	_	+	+	#	+	+	+
	(	(Typ.	+	Ŧ	+	+	+	+			+
	Morphology	Atyp.							pa		
N911232		Caps.	+			+	+	+	Lived		+
		Inulin	+	_	_	+	+	+			+

^{*+=}Plate typical, serum broth not characteristic.

†+=Plate not characteristic, serum broth typical.

1001=Organism isolated from plate.

1122= " " " 1st rabbit.

1222= " " 2d "

1112= " " mouse.

Twenty-seven strains were studied which came originally from cases of pneumonia. Nine of these coagulated inulin not later than in original tests. Seven were fairly characteristic morphologically, two not characteristic; six coagulated later than in original tests, five characteristic, one not characteristic; while twelve did not coagulate in these cultures, though all gave a positive reaction when first tested. When first studied at the time of isolation, twenty-one of the above were typical, six fairly typical

typical.

Twenty-three strains from normal cases were studied, eight of these coagulating inulin not later than in first tests, four being characteristic, four not characteristic; two coagulated later than in first tests, both characteristic, and thirteen did not coagulate at this time, although positive in original tests. When first studied, thirteen were typical, four not characteristic and six atypical.

TABLE 3. Total Inulin Tests: Four Cases.

				Date	of Cu	lture					
Case	Strain		At Time of Isolation	January, 1906	March, 1906	Мау, 1906	June, 1906	Tot	al Res	sults	Total Tests
			At	Jan	M	M	Ju	-	Ŧ	+	T
	1	-		1	2	2	3	8			1
N231122	Original strain	#				**	1		1		1
147	· ·	+	1		11		1			2	1
	M. A	-	**		2		++	2			3
	. [	-	44		1	1	33	2	**	**	1.
	R. A	Ŧ		**	1				1	**	1
	-	+	240	**	1					1	)
	(	-				1	3	4			1
	R. B	+	**	**	**	**	1		1		}
	l	+	25		1	++	3		**	4	)
	. [	-		4.4							1
	M1	Ŧ		44		10	3	**	3		1
	. (	+		**			3			3	.)
	1	-	**								1
	M2	Ŧ		**		**	4	9.5	4		} ;
		+		4.0			3	14		3	}
	1	-					. 1	1	11		)
4,0	Мз	+					2		2		1:
		+				**	4.	9.00			1
	1	-	4.4	**			1	1			1
	M4	Ŧ					2		2		} :
		+									1
	Ī	-					1	1			1
	M5	=			14.4		2		2		1 5
		+					2		**	2	)
	ſ	-					4	4			1
	M. R. 1	Ŧ	**	35	44		3		3		}
		+					2			2	
	ſ	-									)
	M. R. 2	Ŧ	4.4	4.4			3		3		1
		+					1	**		1	1

Total coagulating cultures in black-face figures.

M. A.=first mouse inoculated.

M. I.= " " of second series.

M. M. I.=first mouse inoculated from mouse of first series.

M. R. I.= " " from rabbit.

R. A.=first rabbit inoculated. R. R.=rabbit inoculated from rabbit.

TABLE 3-Continued.

				Date	e of Cı	ılture					
Case Strain			At Time of Isolation	January, 1906	March, 1906	Мау, 1906	June, 1906	Tot	al Res	sults	Total Tests
	*		At	Jan	Ma	Ma	Jen	-	Ŧ	+	E
	1	_	**	1	2	3	6	12			1
N911222	Original strain	=			**						1
	-	+	3						0.0	3	)
	M. A	+		44	1					1	
	М. В	+			2	**				2	
	1	-				1.		1			1
	M. C	Ŧ			1		1		2	44	1
4.		+			1	1	3			5	)
	R. A	+			2					2	
	ſ	-									1
	R. B	Ŧ					1		1		+
		+			1	1	2			4	j
	1	_					2	2			1
	M1	Ŧ									1
		+									1
	ſ	_					3	3			1
	M2	=									}
		+									

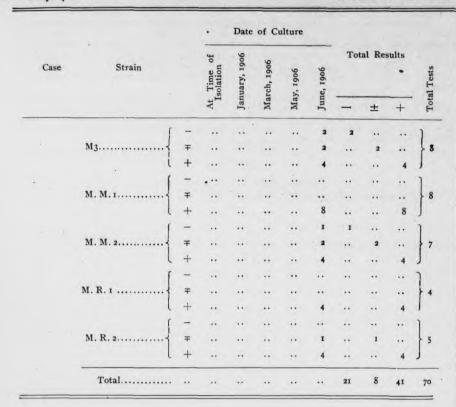


TABLE 3-Continued.

				Date	e of C	ulture					
Case	Strain		Time of Isolation	January, 1906	March, 1906	Мау, 1906	June, 1906	То	tal Re	sults	Total Tests
41001			At	Janı	Ma	Ma	Jun	-	#	+	Tot
	- 1	-		1	2	3	6	12			1
41001	Original strain	+									13
	(	+	1	36	43					1	)
	M. A	-			2			2			2
	1	-				2	2	4	4.		1
	M1	<b></b>									1 4
		+						44			1
	1	-	2.5	44		**	**		**		1
	M3	=		**	**	1	1		2		1 4
	l	+	**	**		1	1	ii .	**	2	}
-	Total						.,	18	2	3	23

		ure		1	Morp	hology			Inulin			
Case	Strain	Date of Culture		Typical	Atypical	Capsule		Tot	al Re	sults		Total Tests
		Dat		Typ	Aty	Cap	-	S1.	=	+	++	Tot
N621122	Original	Mar.,	105		+	-	4		**	**	**	4
		Jan.,	'06	7	**		. 1	-01				1
		Mar.,	'06		+		1					1
	*R. A	4	106	7		No org.				1		1
	R. B		'06	**	+	No org.	1				**	1
	M. A	44	'06		+	+	1				**	1
	Original	May,	'06		+		1			**		1
	"	June,	'06		+		3	1	2	2		8
	R. A	44	'06		+		2		2	1	44	5
	†M. R. 1	**	'06	±	**	-	1	1	10	2	**	14
	M. R. 2	16	'06		+	No org.	2	**	3	1		6
	M. R. 3		'06	+		-	1		2	1	**	4
	M. R. 4	14	'06		+	Indic.	1		3	1	**	5
	R. R	**	'06		+					3	1	4
	Total						19	2	22	12	1	56

*Plate atypical; serum broth typical. †Plate typical; serum broth atypical.

Of the eleven strains from miscellaneous cases, four coagulated inulin, not later than when first studied, two characteristic, one not characteristic; and five failed to coagulate, although positive in original tests, four of these characteristic, one not characteristic. When first studied six were typical, five not characteristic.

Unless extremely small, size of organisms has not been considered in this division into characteristic and non-characteristic, the classification being based upon the general morphological picture.

In order to ascertain the effect upon the inulin fermenting property produced by passage of the organism through animals, a certain number of strains were selected for further study, and in March and again in June of the present year, these were inoculated into mice and rabbits.

In these experiments no attempt was made to ascertain the smallest lethal dose, but all strains were found to have lost virulence, very large doses being required to kill | these two very typical strains of pneumococci.

the animals. In the last series of mouse inoculations (Mouse 1, Mouse 2, etc.) the organism was passed directly from one animal to another; the heart being divided, the chest cavity then washed with sterile water, and this inoculated intraperitoneally, cultures being made at the same time. By this method, a high degree of virulence was developed in some cases, mice dying within six to eight hours after inoculation, with profuse cultures of the pneumococcus given by the heart's blood.

Table 2 gives a synopsis of morphology and inulin coagulation with the original

strains and after passage through a second series of animals.

Table 3 gives the complete record of inulin tests made with four strains, the results in these cases being typical of those given by the other cases studied.

Of the comparatively small number of cultures studied only two have coagulated the inulin medium in recent tests which failed to coagulate it when first isolated. These two, 16,112 and N 62,112, were not included in the January table.

No. 41001 originally a large, typical pneumococcus, showing capsules and coagulating inulin, has in these tests shown a variable morphology, with loss of capsules and inulin-fermenting power, but after passage through Mouse 3 there is again a typhical morphology, with capsules, and two cultures showing complete and two partial inulin coagulation. Of a total of 23 inulin tests, three are positive, two partial and 18 negative. To this list may be added at least six coagulations not recorded, made during the first few months after isolation, when the organism was frequently tested and always gave prompt positive results. The negative tests have all been made since the beginning of January.

No. 161112 which has shown a mixed streptococcus and pneumococcus morphology throughout cultivation, and was negative to inulin when first tested, now gives positive inulin coagulation in cultures, both from the original strain and after passage through Mouse 5. Of the total inulin tests three are positive, eight partial

and 20 negative.

No. 361001 has been of special interest. It was originally a very typical pneumococcus, showing capsules, coagulating inulin promptly and very virulent for animals. It now shows in two series of cultures from the same strain, entirely opposite characteristics. The one series consists of later transfers from a series which in the summer of 1905 was carried on for many generations on special media, namely: horse blood agar, rat blood agar, rabbit blood agar and mouse blood agar; cultures being then tested for virulence and inulin coagulation. Originally virulent for mice in doses of 1-1,000,000 c.c., rabbits 1-5,000 and rats 1-10 c.c., all cultures were now found to have decidedly lost in pathodenic power for these animals. Inulin was still promptly coagulated in seven cultures. Tried again in October of the same year, the cultures were found to be non-virulent for rabbits in 4 c.c. doses and no longer killed mice unless given in large doses of a strong emulsion. No further tests of virulence have been made with this series. The cultures are still fairly typical morphologically, have recently coagulated inulin and have given 12 positive coagulations during the past six months.

The contrasting series of 361001 consists of the regular laboratory stock cultures. In these a complete change has taken place, and the organism now grows as a typical streptococcus in all media, is cultivated with difficulty and shows no reaction with inulin serum water. This change has been a gradual one, all degrees of morphology having been observed between the two types of organisms and repeated fishing from atypical colonies have given cultures of a similar mixed growth. Of 56 total inulin

tests, 23 have been positive, 33 negative.

No. 471001 is of peculiar interest on account of its morphological changes. Originally a typical pneumococcus mucosus, it has shown in subsequent cultures a varying morphology, sometimes of a typical pneumococcus and again of a streptococcus type, with occasional reversions to the original pneumococcus mocosus, the latter form generally appearing only after passage through animals, especially mice, or when a fresh transfer is made after a long resting period. After persisting for a varying number of transfers (from one or two to eight) the pneumococcus mucosus form is again lost, the organism reverting to the pneumococcus, the streptococcus, or to mixed types. Table 4 shows the variations observed after continued cultivation on various media, according to plan described under 36,1001. In the transfers following those given in the table all the horse blood agar cultures showed the pneumococcus mucosus form, which persisted for eight weekly transfers, the pneumococcus, the streptococcus, or the mixed form then reappearing. In January last a typical pnuemococcus mucosus was again obtained from this series, the form persisting for several transfers.

The changes of form observed in this organism are in unison with the results previously obtained at this laboratory, and are a confirmation of the intimate connection and interchangeable nature of the pneumococcus and pneumococcus mucosus

types of organism.

No. 471001 was originally virulent for mice in 1-100,000 c.c., rats, 1-100 c.c. Tested after growth on the various blood agars, a loss of virulence was found in all cultures. Some difference was noticed in cultures according to the media upon which growth had been carried on, but upon the whole the results were irregular, and without further tests no definite conclusion could be drawn upon this point.

The coagulation of inulin, while at first prompt, has since been irregular with this organism. Of 54 inulin tests, 13 are positive, six partial and 35 negative.

No. 761001 is another organism which has shown a marked change. Originally a typical pneumococcus, coagulating inulin promptly, in these tests it has appeared as a characteristic short streptococcus, and with the exception of two positive coagulations from Mouse 1, and four partial reactions from other animals, all recent inulin tests have been negative. Of 31 total inulin tests 3 are positive, 4 partial and 24 negative.

N 621122 has shown features of peculiar interest and in the summary results have been given more in detail. With the exception of a few cultures which more nearly approach the pneumococcus type, this organism has presented the appearance of a typical streptococcus during the entire period of cultivation. It was negative to inulin when first isolated and in many subsequent tests, but in the recent series of experiments coagulations have been obtained with cultures from each animal, and also from the original strain. Of 56 inulin tests, 13 have been positive, 24 partial and 19

negative.

N 231122 and N 911222 were both originally typical pneumococci, showing capsules, coagulating inulin promptly, and virulent for animals. With the exception of an occasional culture showing increased chain formation, both strains have been typical in morphology throughout, N 91222 especially showing the most typical large pneumococci, but the record of inulin tests shows that with both strains many cultures have failed to coagulate inulin. After passage through animals coagulation again occurs, and recently positive inulin tests have also been obtained from the original strain of N 23. N 231122 in 63 inulin tests shows 18 positive, 22 partial and 23 negative; N 91,222 in a total of 70 tests gives 41 positive, 8 partial and 21 negative; we have therefore but 35 per cent. and 58.5 per cent. respectively of positive inulin tests for

#### TABLE 4.

Showing Variations in Morphology (Pneumococcus and Pneumococcus Mucosus Forms), and Inulin Coagulation of 471001 in August, 1906, After Continual Cultivation on Special Media. First Series Transferred Daily; Second Series After Interval of Nine Days.

	Series.	on Medium.		nsfer No.	on Medium.	Typ. Pheum- ococcus Mucosus.		Typ. Pneum- ococcus.		Inulin Coagulation.	
Sel (d)		Date or Culture.		Total Transfer No.	Transfers on Special Medium	Growth.	Smear.	Growth.	Smear.	Inulin Coa	
		[8/9	Horse bl. agar.	90	90	+	#				
	Torrest della	8/9	Serum broth	90			+				
Horse Blood Agar	Transferred daily	8/10	Inulin				+			7	
		8/11	Bl. agar plate.					Ŧ	=		
		[8/9	Horse bl. agar.	85	25	+	+				
	T	8/9	Serum broth	85					+		
Transierred (in day)	Transferred 9th day.	8/10	Inulin				+			+	
		8/11	Bl. agar plate.			+	+				
	ſ	[8/9	Rabbit bl. agar	101	41	7	*				
Transferred daily Rabbit Blood Agar Transferred 9th day .	8/9	Serum broth	101			+					
	Transferred daily	8/10	Inulin				=			7	
		8/11	Bl. agar plate.					+	+		
		[8/9	Rabbit bl. agar	96	35	Ŧ	Ŧ				
		8/9	Serum broth	96	,		#				
	Transferred 9th day .	8/10	Inulin				<b></b>			4	
		8/11	Bl. agar plate.					7	=		
	ſ	18/9	Rat bl. agar	101	40	=	=				
		8/9	Serum broth	101			=				
	Transferred daily	8/10	Inulin				#	****		+	
Rat Blood		8/11	Bl. agar plate.					=	+		
Agar.		(8/9	Rat bl. agar	96	35	+	+				
		8/9	Serum broth	96			=				
	Transferred 9th day.	8/10	Inulin				Ŧ			-	
		8/11	Bl. agar plate.					+	7		
	ſ	[8/9	Mouse bl. agar	102	11	=	#				
		8/9	Serum broth	102			=				
	Transferred daily	8/10	Inulin				=			-	
Mouse		8/11	Bl. agar plate.			=	=				
Blood Agar		(8/9	Mouse bl. agar	97	6	=	=				
		8/9	Serum broth	97			=				
-	Transferred 9th day.	8/10	Inulin				=			4	
		8/11	Bl. agar plate.				0000	=	+		

Blood agar and serum broth cultures made from blood agar of August 8, in each case. Plates made from inulin cultures.

Considered as a whole it will be seen that the entire series of inulin tests here reported is characterized by a marked irregularity as to coagulation results, this being the case not only with atypical, but also with typical strains.

As the tables show, passage through animals seems generally to have a favorable influence upon the inulin fermenting power of the pneumococcus, an effect best shown in the strain from N 91.

The number of organisms inoculated into the inulin medium is often found to be an important factor, as coagulations have several times been obtained by the use of a strong emulsion of organisms after many negative results with cultures of ordinarily abundant growth. This, however, is not an invariable rule, as good coagulations have been obtained in some cases from cultures showing a very poor growth, while other cultures of the same inulin lot, containing a heavy growth of the same organism, have failed to coagulate.

The growth of the organisms in inulin has been studied in all cases, either in smears or by blood-agar streak plates, whenever possible, by both methods, and no cultures have been included in the report which have not been found to contain an abundant number of organisms; the large number discarded on account of insufficient growth causing the irregularity in the number of tests recorded for each strain. All inulin cultures were incubated for two weeks before being classed as negative.

The inulin serum water used in these tests was made according to the usual method, with one-third ox serum, two-thirds distilled water, and I per cent. inulin powder, each lot being tested with laboratory stock cultures before being used in these experiments. The inulin powder used in some of the earlier work was extracted by Dr. Gibson at the Research Laboratory from dandelion roots, a preparation which gave very good results. For all the other tests the medium used was prepared from Merck's inulin (white). Various stocks of this powder, procured at different periods were found to differ greatly, and one whole stock had to be discarded, as no reliable tests could be obtained from it. In all of the work done in March and subsequently but one stock of Merck's white inulin has been employed, 5 c.c. of the inulin serum water being inoculated with 1/2 c.c. of culture in each test. The greatest variation has been found between lots of inulin serum water made at different dates from this one inulin powder, and from the same or different lots of ox serum. Tubes inoculated with the same strain show all stages between entirely negative and positive results and an equal irregularity is found in many cases when tubes of the same or different lots of inulin medium are inoculated simultaneously with the contents of the same culture tube. Some difference was noticed between lots of inulin medium according to the supply of ox serum used, but at the end of the time-limit differences based upon this distinction were either very slight or no longer noticeable. Table 5 gives the results of the tests made with N 231122 and N 911222 in five lots of inulin medium made of the same inulin powder, and two different lots of ox serum.

TABLE 5.

Results of Tests with Five Lots of Inulin Serum Water. All Made from Same Inulin Powder (Merck's White) from Two Lots of Ox Serum-2 Cases.

		Tests Grouped under Lot of Inulin Medium Used.												
			Tubes Inoculated.						F	tesul	ts.			
Case.	Strain.		Ox S	ier.	2d Ox Ser.			Coa		agulution.			Tests.	
		1	2	3	4	5 · ·		_	SL	+	+	++	Total Tests.	
		1						1					1	
V231122	Orig		1	1				1		••			} 5	
-51122					. 1						1		1	
	l			••	••	1	••	•		1	**		)	
				2							1		1	
	М 1			.,	3					2	1		6	
	l				**	1			**	1	**		)	
				2							1	1		
	M 2			••	3			••	**	3			17	
			1		**	1			**	1		**	)	
	М з				1					1			3	
						1				1			]	
	M 4		1			**	**	1	••		**	**	1.	
						1				1			} 3	
			1					1					1	
	М 5			1		**	••	••	**	••	"	1	1 5	
					2	1				1				
	i i		.,	1							1		}	
	R. B			••	1					1		••	1	
			1			3		1					)	
	MR 2			3				2			1		10	
	W. C. S		••	**	3		**			2	1		1"	
				1		3		2					)	
	MR 2				1						1		1:	
					••	1	**				1		1	
	Total						47	13		18	12	4	42	
1		3		••			**	1		••	••	2	•••	
	ıst Ox Serum		5	10				5		2	5	2		
Tests Grouped According to Ox Serum used.		-	-	-	-	_	18	7	_		_	-	18	
Ox Serum useu.					16					11	5	4		
	2d Ox Serum					13		4		9	2			
l							29	4		18	2		20	
		1						1					1	
N 911222	Orig							1					1.	
					1		,,	τ						
					••	2		2				**	}	
	М 1				1	1		1					1 2	
			ı					1					1	
	M 2	.,		••	1		**	1	••		••		3	
								1					)	
	М з			3	.,			1	r		1		1.	
				**	3						3		5	
													]	
	R. B				1						1		} 3	
						1					. 1	••	}	
						**		**	••		1		1	
	MR 1	No.		-							1		1	
	MR 1				1		7.5		0.00					
				3							2	1	1	
	MR 1												}:	
	MR 2										2		}	
				3	2						2		}:	

		Test	ts Gr	oupe	ed un	der I	Lot o	of In	ulin N	Iedi	um I	Used.	
		Tubes Inoculated. Results.									_		
Case.	Strain.		Strain.  1st Ox. Ser. 2d Ox. Ser.  Lot. Lot.			Coagulation.				+   Fotal Tests.			
			2	3	4	5		=	SL	+	+	++	Total
	(	**		4							3	1	)
	ММ 1	**			3			**			3		8
						1					1		J
	. (		1						1				1
	M M 2			2							1	1	6
		**			1		**	**		1	**		1 7
	1					2	**			5	27	5	52
	Total						52	14					
Í	1	.1						1					
	2d Ox Serum		6	**	**			4		1	1		
Tests Grouped According to Ox Serum used	2d Ox Serum			19			••	2	1	1	10	5	
	-						26	7	i	2	11	5	2
Ox Serum used	ſ			**	14	**	**	3	**	2	9		
	ıst Ox Serum	**			**	12		4		1	7		
							26	7		3	16		2

A few cultures of streptococci recently obtained from various pyogenic sources were inoculated into animals, and the morphology and inulin growth in media studied as above. One of these strains resembles a pneumococcus, and one a pneumococcus mucosus in several cultures, and all show capsules after passage through animals. Table 6 gives a summary of results and shows that all inulin cultures remain negative. These experiments are too few to be of any importance, but are given as controls, and because it seems possible that further study in this direction may establish the pneumococcus nature of some organisms now classed as streptococci.

TABLE 6.

Synopsis of Characteristics of Streptococcus Cultures Before and After Passage Through Animals

	Case.	Original Strain.	bits,			Mice. *				
			Orig	Rabbits,	M.A.	м.в.	M.C.	M.D.	M.E.	M.F.
	ſ	Typ.	+	+	****	+	Ŧ	#	Ŧ	<b></b>
* Trachoma	Morphology -	Atyp.			+					
		Caps.		+	-	+	+	+	+	+
	l	Inulin	-	-	-		-	_	-	-
1	Morphology {	Typ.	+	<b></b>	+	=	+		****	
Emprono		Atyp.	****	****				pa		
Empyena		Caps.		+	+	+	+	Lived		
	ţ	Inulin	-	-	-	-	-		****	
		Typ.	+	+	+					****
Puerperal Septicæmia	Morphology	Atyp.		****		Not in- oculated				
		Caps.		+	3					
		Inulin	_	-	_	0				

Tests of the various lots of inulin powder and of the inulin medium before inoculation have so far led to no explanation of the varying coagulation results. No differences could be detected between the several stocks of inulin powder, the rejected stock appearing to be identical with the rest except that coagulations could not be obtained with the medium made from it. Nine lots of the inulin medium made at different dates from good powder were tested for acidity before inoculation with organisms. Five c.c. titrated with N/50 NaOH and phenolphthalein were found to vary between neutral and 1.4 acid, the majority being about 0.2 acid.

Flasks containing 50 c.c. of inulin medium after titration for initial acidity were inoculated each with 5 c.c. of one of the cultures of the strains studied, and inoculated for 10 days. Some of the contents of these flasks was pipetted out every one or two days and tests made of reactions and growth in the inulin medium. Two flasks inoculated with N 91222 showed coagulation nearly complete in 24 hours, with acidity 2.2 and 2.8 respectively, organisms very characteristic, and no further tests possible because of coagulation. All flasks inoculated with other organisms gave a negative coagulation result, and showed practically no increase in acidity, while at the same time the count of plate colonies showed a good growth of organisms present. Table 7 gives the results of these tests with four of the previously mentioned strains and also with one strain of streptococci; the highest acid production being given in each case compared with the reaction before inoculation, and with the highest plate count. with the reaction before inoculation, and with the highest plate count.

TABLE 7.

Results of Titration and Plate Count with Non-Coagulation of Inulin Flask Cultures-5 c.c. Titrated with N/50 NaOH.

		Titra	Plates.		
	Strain.	Before Inoculation.	Highest Acidity.	Highest Count to 1 c.c.	
161112		1.4	1.9	98,102,440	
471001		1.1	1.7	128,142,000	
N231122		0.4	0.9	45,896,050	
N62 ₁₁₂₂	,	0.2	1.7	73,710,000	
Streptococci		0.2	1.8	33,015,000	

^{*} Many cultures suggest resemblance to pneumococcus mucosus, most marked in cultures from

Further work in this direction was contemplated but has not yet been carried out, the same being true of plans to attempt to ascertain the nature of the acid produced by the growth of the pneumococcus in the inulin medium.

Many strains of pneumococci, after longer or shorter periods of cultivation on artificial media, are found to undergo decided changes in morphology, virulence, and power to ferment inulin.

These changes may be temporary, disappearing when the organisms are placed under favorable conditions, but in some cases they seem to be permanent, the organisms having apparently undergone a complete change from their original characteristics.

The change in morphology is toward a more or less complete approach to a streptococcus type, some tendency in this direction appearing in certain cultures of every organism studied.

every organism studied.

The presence of the pneumococcus and of the penumococcus mucosus types in organisms of the same strain shows the close relationship and interchangeable character

The change in virulence corresponds with that usually found after long artificial cultivation. By transfers directly from animal to animal a rapid increase of virulence

The change in inulin fermenting power represents a marked irregularity of re-action constituting the chief feature in this series of tests which, including those made at time of isolation, consists of 452 inulin tests made with cultures from 63 strains of

A large number of negative tests have been given by very typical pneumococci and, on the other hand, many coagulations have been obtained from cultures of a definite streptococcus type.

Great variations have been found between different stocks of inulin powder and also between different lots of inulin medium made from the same powder and inoculated with organisms of the same strain.

Passage through animals seems, in many cases, to have a favorable effect upon the

inulin fermenting power of the pneumococcus.

The use of strong emulsions of organisms sometimes produces coagulation, where ordinarily abundant cultures give only negative results.

The conclusion drawn from these experiments is that while coagulation of inulin is thought to be valuable corroborative evidence in favor of the pneumococcus nature of an organism, yet the irregular nature of the reaction may make it a fruitful source of differences and errors in diagnosis if too much reliance is placed upon this test, since it is evident that no organism can be rejected as a pneumococcus because of one, or even of several, non-coagulating inulin cultures. Especially is this true of cultures which have been grown for some time on artificial cultures media. which have been grown for some time on artificial culture media.

#### LABORATORY NOTES ON SPIROCHAETA OBMEIERI FOUND IN NEW YORK.

## Adele Oppenheimer, M. A. (From the Research Library.)

The spirochete studied by us was originally obtained by Dr. Norris from the blood of a patient in the service of Dr. Carlisle (2) in Bellevue Hospital. This organism was grown by Dr. Norris in white rats. Through the kindness of Dr. Flournoy, Pathologist to Bellevue Hospital, we received some spirochetal rat's blood; thereafter the parasite was kept alive by means of passage from rat to rat, according to the method of Dr. Norris (8), Director of Laboratories of Bellevue and Allied Hospitals.

In the proceedings of the New York Pathological Society, December, 1905 (p. 163), Dr. Norris reported that he had succeeded in growing the spirochete in the blood of rats, the first time in history that Spirillum Obmeieri a had been grown in this animal. Some of this spirochetal blood he either directly or indirectly kindly gave to various workers, and we herewith wish to report in what respects our observations and conclusions agree and disagree with those not only of Norris and his associates (8), but also with those of Novy and Knapp (9), and of Breinl (Lancet, 1906, June 16, No. 1820, p. 1600) 4320, p. 1690).

## Historical Sketch.

The papers of Shaudinn and Hoffman on Spirochaeta pallida b aroused a fresh interest in Spirochaeta Obermeieri. Investigations of the latter had been carried on ever since Obermeier, in 1873, reported the discovery of this organism in the blood of those suffering from relapsing fever. Through these long years much had been learned concerning this parasite, as can be seen by consulting any test book on bacteriology or by perusing the masterly articles of Wladimiroff (II) and Hodlmoser (4)

Until very recently it was classed with the bacteria, but now, owing to the work

of Schaudinn and others, one of the questions to be solved is whether the Spirillum of Obermeier is or is not a protozoan.

The Spirochaeta Obermeieri (New York) was observed by us in the rat, in vitro, on the slide and in the hanging drop. Under these heads we desire to call attention to such of our observations as we consider have not been sufficiently emphasized by others, such as have not been recorded by others, such as differ from these phasized by others, such as have not been recorded by others, such as differ from those of others, such as have led us to disagree with the conclusions of others.

The smears were stained with Giemsa's or Wright's or Goldhorn's blood stain.

In the Rat.

1. It has been claimed by some observers that the length of time that the spirochetes are found in the blood, constitutes one of the chief points of difference between the Spirochaeta Duttoni of African tick-fever, and Spirochaeta Obermeieri, and indicates that each of the two organisms represents a distinct species.

As a result of subcutaneous injection, according to our method of procedure, the parasites usually appeared in the blood of the tail within ninety-six hours after inoculation; disappeared after twenty-four hours, and did not reappear; and this was true from the very beginning of our work in November and December, 1905. Our work was stopped in March, 1906.

In our rat 26 c the facts on hand might be interpreted as fifteen days' presence of the organism in the peripheral blood; they must be interpreted either as more than three days' presence or as more than two relapses—Norris, Pappenheimer and Flournoy (8), Novy and Knapp (9)—and we do not know that there are relapses in rates infected with Spirochaete Obermeieri (New York); we are not aware of the fact, if it is a fact (see the repeated examination of rat c).

According to Breinl (Lancet, 1906, No. 4320, p. 1690) d there are never more than two relapses in rats inoculated with the New York strain, and the maximum presence is three days for the New York strain, and seventeen days for the African strain.

See our rats 21, 26, 42, 49, in which the parasites were apparently found in the circulating blood for more than three days. Norris and his fellow workers (8), too, state that the New York Spirochete is in the peripheral blood of rats one to five days. And in May, 1906, Novy and Knapp (9) record that "As a result of the consecutive passage of the spirilla through this long series, increase in virulence, if this expression can be used, was noted. Usually, however, the spirilla now disappear in about sixty hours after inoculation. Exceptionally a rat is met with in which the period of infection lasts three or four days."

However, in January, 1906, Novy made the following statement in the "Journal

fection lasts three or four days."

However, in January, 1906, Novy made the following statement in the "Journal of the American Medical Association" (Vol. XLVI., No. 2): "The persistence of the spirochetes of tick-fever in the blood of rats for three to eight days, as shown by Dutton and Todd, would indicate that their organism, though closely related, is nevertheless different from that studied by us. It goes to show that the tick-fever of Africa and the relapsing fever of Europe are due to different species of spirochetes."

Either our rats are not like Novy's or our method of passage is unlike his in points that are essential. As a matter of fact he injected intraperitoneally, we sub-

[†] Cultures from rabbit and from mouse B suggest reesmblance to pneumococcus,

a It is not definitely kwown whether the New York spirochæte is spirillum Obermeieri or not. b Arbeiten kaiserl. Gesundheitsamte, Berlin, 1905, Apr. 10, xxii., zweites Heft, 527; Deutsche Med. Wochenschr., 1905, May 4, xxxi., p. 711. c See Table I.

d See also Breinl and Kinghorn, p. 48 (7).

cutaneously e; and evidently he injected more organisms than we. That a difference of method can influence the day of appearance of the parasites in the blood is shown by the fact that whenever our blood was not used at once, but kept a day before using it for inoculation, the appearance, too (of the spirilla in the circulating blood of the inoculated rat), was delayed. In the second place, it should be noted that under these conditions the parasite was never found in the peripheral blood more than two days in succession f. We have not attempted to learn whether there is a loss in the number of living spirochetes or in their vigor when the diluted blood stands a day. Such an investigation is, of course, difficult to carry out with organisms that one has not succeeded in cultivating on artificial media.

These studies show that more work needs to be done before the relationship between the New York and African strains can be determined (see also No. 8 and No. 3) g.

No. 3) g.

2. The symptoms of the rats were not studied, but it was noted that not a few of the rats were restless when they had spirochetes in the circulating blood, just as they are when affected with other diseases. This restlessness helped us to pick out the rat with spirochetal blood on any one day. h

3. Rat 26 apparently died of spirillosis. Novy and Knapp (9) particularly state that they had no such deaths. i Of all our rats this was the only one which did not keep itself white.

4. Sometimes the parasites were present in great numbers and at others could only

4. Sometimes the parasites were present in great numbers and at others could only be found by searching several microscopic fields; and these variations were too apparently without any law or order. Such, as well, is the case in European relapsing

parently without any law or order. Such, as well, is the case in European Complete fever in man.

5. Rats 8 and 25 injected with blood the day after the disappearance of the organisms from that blood did not become infected. (See conclusion 5, p. '.)

6. Rats 12 and 15 injected with blood two days before the appearance of the spirochetes in that blood did not become infected. (See conclusion 5, p. '.)

7. In rat 47 the inoculation of living organisms did not result in an infection. Was 47 more resistant than the average white rat?

According to Novy and Knapp (9), another plausible explanation for these "resistant" exceptions is the injection of only a few living spirochetes and a large dose of immune bodies. This explanation might hold for our rats 51 and 52, but it does not hold for 47, since though inoculated with the same material on the same day 48 became infected.

8. The presence or absence of the spirochetes in the spleen is particularly important in the light of Metchnikoff's findings in the case of the relapsing fever of Europe. He found phagocytic destruction of the organism in the spleen during the

apyrexial period.

At autopsy, judging from smeers, the spirilla were present in the peripheral blood and in the heart only. They were never present in the spleen, kidney, supra-renal body, lung or liver (see table 4). Our results here agree with those of Norris, Pappenheimer and Flournoy (8) and disagree with those of Novy and Knapp (9), who found spirochetes in all the organs of the rat.

It should be noted that rat 31 was dissected before and 34 after, the appearance of the parasites in the circulating blood.

Though rat 62 showed organisms in the blood of the tail on February 6, at autopsy on that day no organisms were found in the heart's blood. Perhaps the height of the infection had not yet been reached. Perhaps rats 51 and 52 did not become infected because they were injected with the blood of rat 49 before the climax in 49 was reached.

#### In Vitro.

One of the chief aims of workers with spirochaeta obermeieri is to grow these on artificial culture media.

In vitro the organisms remained alive in rat's blood, but as far as our work is

In vitro the organisms remained alive in rat's blood, but as far as our work is concerned the various media have proven themselves to be simply the support on which or in which the rat's blood rested. The spirillum merely held its own in vitro, it increased slightly if at all and we cannot say that we had a culture.

In one instance we moved j successfully the blood containing spirochete from the heart to test-tube 1; then on the second day after, the spirochetes from test-tube 1 to test-tube 2 (containing normal rat's heart's blood shaken); again, on the second day after that, the spirochetes from test-tube 2 to test-tube 3; but not to test-tube 1. In another instance, not even the removal to test-tube 3 was successful. In a third case, we moved the blood containing spirilla from the heart to a test-tube containing a we moved the blood containing spirilla from the heart to a test-tube containing a slope of sheep-serum glucose agar, then, on the eighth day after that, the organisms to test-tube 2, but as we had a contamination we had to stop short. Finally the removal from potato, test-tube 1, to potato, test-tube 2, but not to potato, test-tube 3, was successful.

Working also with the New York strain, Norris and his collaborators (8) believed they had cultures of the first and second generation, outside the body of the animal. Novy and Knapp (9) report a lack of success on their part outside of the body of the animal but growth of the parasites within capsules in the peritoneal cavity of white rats (10).

Incubator temperature seems to be unfavorable to long life of the organism

when outside the body of the host k3. The interpretation of the well-known tangles and interwinings of the organ-

isms varies with different authors

3. The interpretation of the well-known tangles and interwinings of the organisms varies with different authors.

In smears of material that had been in vitro, the spirillum often appeared more slender. I These slender forms suggested the stage of spirochaeta pallida interpreted as premicrogametic by Krzysztalowicz and Siedlecki (6). Here the organism was found in tangled groups as well as singly. Here also one often saw two (or perhaps more) spirochetes interwoven. The tangled masses might be explained as the result of agglutination, especially as the organisms composing them and surrounding them were particularly long, except for the fact that (in the case of 38 sheep-serum glucose agar) no large groups were seen until some days had elapsed.

According to Novy and Knapp (9) the presence of tangles as observed by Koch (in insect and egg) indicates an agglutinated condition and not multiplication. On the other hand, Levaditi is apparently of a different opinion as can be seen from the following quotation: "Dass es sich hier nicht (chicken spirochaeta) um eine agglutination des Spirochats handelt hat Levaditi durch mikroskopische Beobachtung des Blutes bei 38° festgestelt, wobei er die Haufen in 4-35 Minuten sich wieder in eirzelne freibewegliche Spirochaten auflosen sah." (Quoted from Wladimiroff. II.)

Koch suggests in the Berliner klinische Wochenschrift, February, 1906, that chemiotaxis may account for the clumps and recalls the fact that similar plaited masses are to be seen in the flagella of bacteria.

It is not unlikely that the tangles and intertwinings are due to the concentration or coagulation of the blood on standing, or the intertwining to fusion or conjugation. One of the intertwined spirochetes is always coarser than the other (or others), though none is as plump as the "hands" mentioned on 2000 proches is always coarser than the other (or others), though

One of the intertwined spirochetes is always coarser than the other (or others), though none is as plump as the "bands" mentioned on page 7 (2).

It is unlikely that a longitudinal split should account for these intertwinings; for

longitudinal fission would probably result in two organisms lying side by side and that for more than a small part of their length. The spirilla in all probability, increase not by longitudinal but by transverse division as is indicated by transverse breaks and faintly stained attenuated areas.

## On the Slide.

 Instead of the typical spiral, one not infrequently sees whiplike organisms.
 Are these whips and individuals with sweeping waves due to the method of fixation?
 One also sees certain straightened and flattened bands recalling the involution forms of the bacteria and suggesting, because of their shape, the so-called macro-gametes of Spirochaeta pallida as described by Krysztalowicz and Siedlecki (6).

e Except in cases of rats 3, 4, 5 and 6, which were injected intraperitoneally.

f Breinl and Kinghorn (7) state of Spirochæta Duttoni: "The incubation period varied directly with the amount of infected blood injected and with the mode of inoculation. "The parasite multiplied more or less rapidly, depending on the dosage."

g Breinl (Lancet, 1906) states that the spirochæte of the African tick fever is of a species differing from that of the New York spirochæte in that each confers a relatively active immunity against itself, but not against the other.

h The rats were in charge of Mr. J. Behan, Laboratory Assistant.

i So also Breinl and Kinghorn, p. 49 (7).

j We use the word "moved" in preference to "transferred," in order to avoid the connotation

k According to L. A. and R. S. Williams, room temperature is also "the best for the continued existence of Spirochæta Duttoni" in vitro?

In cultures of Spirochæta Duttoni made by L. A. and R. S. Williams (7), "the Spirochætes occasionally appeared to be thinner than normal."

In some of these thick forms there was an unstained cleft which might be interpreted as the beginning of the longitudinal division. The "band-like" form as a whole may stain quite intensely, but usually it is pale. Are these "bands" crushed organisms?

3. The spirillum is straight or curved, or more seldom U-shaped or about ring-shaped, or still less frequently tangled or knotted. We do not agree, therefore, with Novy and Knapp (9), who declare that the tendency to figure 8 forms or even perfect circles does not (as in Sp. Duttoni and relapsing fever of Bombay) seem to exist in the New York Spirochaeta Obermeieri. In the hanging drop of the unidentified slender spirillum (mentioned below from the faeces of a dog) the organism was seen to take on tangled shapes. to take on tangled shapes.

4. The New York Spirochaeta is almost invariably gradually drawn to a point at each of the ends. These two faint terminations resemble the pale attenuated median area mentioned below and do not suggest organoid cilia or flagella, but rather pro-

area mentioned below and do not suggest organoid cilia or flagella, but rather prolongations of the periplast of the organism.

On some few spirilla indications of a flagellum like that described by Novy and Knapp (9) were noted. No flagellum-stain was tried m.

5. Generally on the slide the spirochete touches a red blood cell or two, more rarely a white blood cell or a blood plate, broadside or with one or the other or both ends. Sometimes it terminates bluntly against a red blood cell; it is then dipping into the cell. But all these connections may come about in making the film for we have never seen any such in the hanging drop.

Norris and his fellow-workers (8) noted, when immune and spirochetal blood combined were watched in vitro, a marked tendency of the organisms to adhere to the red blood corpuscles.

the red blood corpuscles.

6. The parasite is often more or less beaded, and then looks as if irregularly stained as bacteria frequently are. The beading may of course, also, be either an artefact or the result of degeneration n

7. A grain-like deeply stained body was seen in one spirillum, which since it occurred in a smear of normal spirochetes may not have been an artefact, but per-

occurred in a smear of normal spirochetes may not have been an artefact, but perhaps the result of degenerative processes.

8. The significance of the transverse breaks is a mooted question. The organism is usually 1½ times the length of a red blood cell, or 2½ times the length of a red blood corpuscle with a transverse break at about the middle. That we have not here two organisms lying end to end is indicated by the flat surfaces which bound the transverse break. Indeed these long "broken" forms of the parasite predominate in the early stages of the infection and therefore probably before agglutination could be said to bring organisms together. Two organisms lying end to end are not infrequently seen. frequently seen.

In addition to the transverse breaks one sees similarly located, lightly-stained attenuated areas. Such a pale, thin zone resembles the faint tips, the two ends of the spirochetes which fade away to a point.

These forms which are pale and thin or broken at the middle of their length might be interpreted as the final stages in a longitudinal division, but definite cor-

might be interpreted as the final stages in a longitudinal division, but definite corresponding early phases have not been observed, namely the Y shaped and U shaped individuals with the attenuated area at the bend of the U.

Novy and Knapp (9) state that several division zones like those of the Bombay organism and like those present in Sp. Duttoni are not to be found in the New York Sp. Obermeieri. On the other hand we have seen as many as four faint or unstained spots (breaks or attenuated portions) in the course of a single individual, sometimes cutting off from the rest of the spirillum only two, or even only one wave (hinting at vibrio-form or microgametes). These "single" (?) individuals are considered by some a string of individuals some a string of individuals.

The modes of reproduction more clearly suggested by these appearances are transverse fission and fragmentation. In support of the view that the mode of reproduction is, not longitudinal, but transverse, is the fact that even in the early stages of the infection, not short thick forms, but long ones predominate.

#### In the Hanging Drop.

1. Ultimately it is in the hanging drop where the process of multiplication must studied and there we have not yet seen any division.

Novy and Knapp (9) have often actually seen transverse division in the hanging drop, and Norris, Pappenheimer and Flournoy (8) believe they have seen it once; but all these workers point out the fact that these observations are capable of other

The differences in the description of the motility of the Spirocheta Obermeieri are probably due to differences of the conditions under which the parasites are watched.

In the mucus of the faeces of a normal dog were found two kinds of spirochetes namely, a slender and a thick one. The slender one moved like a snake, its curves namely, a slender and a thick one. The slender one moved like a snake, its curves were seen to change; in the smears there were far less and broader curves than in the drop. The thick one moved by means of beating its way through the water and apparently by means of a corkscrew motion, its curves were fixed; in the smears there were as many curves as in the drop. The New York Sp. Obermeieri is more like this latter organism than like the former; though it is flexible, its coils are permanent. We have never seen it when it was moving as quickly as either of them. We have seen it swing one end p and move from place to place seemingly by means of a corkscrew motion. All these three organisms move with either end forward. The Spirochaeta Obermeieri New York travels in either direction, with the characteristic pauses, gradually or suddenly out of the microscopic field. The the characteristic pauses, gradually or suddenly out of the microscopic field. The corkscrew motions and undulations are more rapid than the progression; indeed the organism often stands still, fastened perhaps to the cover glass, and meanwhile bends slowly and usually undulates rapidly. Their pass over the Spirochete Obermeieri undulations which persist in prepara-

Their pass over the Spirochete Obermeieri undutations which persist in prepara-tions longer than any other of its motions and which may be due to an undulating membrane. Perhaps, on the other hand, this pennant-like waving is a mere appearance and not a reality, for the rotations of a spiral about a long axis would simulate a wave motion in one plane as Norris and his co-workers (8) have pointed out. Perhaps the spiral of Spirochete Obermeieri is rigid except for the lateral swayings. It is impossible to tell which of these phenomena are passive, which locomotor.

## Conclusions.

1. The New York Spirocheta Obermeieri cannot yet, as has been attempted, be separated from the African Spirochete upon the following grounds: (1) the length of its stay in the peripheral blood of the rat, (2) the number of relapses in the rat, (3) the lack of figure eight and circular forms, (4) the absence of several transverse breaks; for the length of stay in the peripheral blood probably varies with the method of passage rates an uncertain quantity since it is perhans not positively. of passage, relapses are an uncertain quantity since it is perhaps not positively established that they occur at all, figure eight forms and circles and finally several division zones exist in the New York Spirillum as well as in Sp. Duttoni and in the Spirillum of Bombay.

2. As far as our work is concerned the parasite merely holds its own in vitro;

we cannot say that we had a culture.

3. It is not unlikely that the tangles and intertwinings, seen during attempts at cultivation on artificial media, are due to the concentration or coagulation of the blood on standing, or the intertwinings to fusion or conjugation.

The Spirochete Obermeieri probably increases by transverse fission and frag-

mentation.

5. We have seen no evidence of sporulation (no spore stain was used) or of a cycle of development, unless the particularly slender forms, short forms, "bands," and intertwinings be considered such evidence.

6. The variations in the description of the motility are in all likelihood due to differences in the conditions under which the parasites are watched. As observed by us its motility is almost precisely like that described by Hoffman (5) for Spirochaeta

m See E. Zettnow's demonstration of flagellae like those of bacteria recorded in Deut. Med. Woch. xxxii., 10, March 8, 1906—in the case of Sp. Duttoni.

n For a note on the frequent occurrence of such granulations in spirochaete-like organisms see Dutton, Todd, and Tobey, p. 91.

o These were found by Mr. Thomas Deaken, laboratory assistant.

p "The swaying lateral motion from side to side is seen only in the long forms which consist of two or more cells. This is also a secondary condition to the real motion, and although it imparts to the long spirochete the so-called flexible character, the latter feature is hardly of sufficient importance to justify its employment as the basis of a generic difference among the spiral organisms. The long form of the spirillum rubrum or of the cholera vibrio, as is well known, will show similar lateral swayings." Novy and Knapp (9).

7. Perhaps the undulations that pass over the organism are merely an appearance and the spiral is in truth rigid except for the lateral swayings.

8. The indication of an undulating membrane in the hanging drop is the only sign of a definite structure which we have seen, except a deeply stain grain (mentioned on page ). The absence of a complicated structure, the apparent multiplication by transverse division and fragmentation, the rapidity of multiplication, the length of viability outside of the body, and the persistence of the spiral form in death, point to a bacterium. Whereas the flexibility of the parasite, the indication of an undulating membrane, the inability to cultivate the organism on artificial media, and the death at incubator temperature suggest that the New York Spirochaeta Obermeieri may be a protozoan (q). According to Schaudinn Spirochaeta pallida is not a spirochete and not a spirillum but a treponema. It is not a spirochete because of the permanency of its coils, because of its terminal cilium, and because it has not more or less blunted ends. It is not a spirillum because its spirals are flexible, because it has a single cilium instead of a terminal tuft, because it apparently divides longitudinally. The New York Spirillum Obermeieri is certainly flexible and has permanent coils; if against our better judgment we grant in addition that each of its two ends represents a cilium and that the parasite divides longitudinally, then the New York Spirochaeta Obermeieri must be classed with the Spirochaeta pallida as a treponema (r).

In concluding, I desire to express my thanks to Dr. William H. Park, Director of the Research Laboratory of the Department of Health, for the opportunity to do this work, and to Dr. Anna W. Williams, Assistant Director for her helpful suggestions.

The three tables which follow show the number of examinations made in the case of each rat and the number of days on which spirochetes were found in the blood of the tail of these rats.

For inoculation blood was drawn from

For inoculation blood was drawn from the infected rat's tail into a syringe con-

· taining 10 per cent. sodium citrate solution.

TABLE I. Of Rats Injected with Fresh Blood.

Rats.	The Inocula- tions Into These Rats Were Made from the Fol- lowing Rats.	Dates of Inoculation.	Dates on Which the Peripheral Blood Was Examined.	Dates on Which the Spirochetes Were Found.
5	Bellevue	Nov. 28	29, 1, 2, 3	2.
4	5	Dec. 2	From December 3 to January 23, at least four times a week	December 7 and 8, and not again thereafter,
6	4	Dec. 7	8, 9, 10, 11	IO.
7	4	Dec. 7	8, 9, 10, 11, 12, 13	10 and 11.
8	4	Dec. 9	11, 12, 13, 14, 15	*o.
12	11	Dec. 15	16, 18, 19, 20, 21	*0.
13	10	Dec. 15	18	*o.
18	11	Dec. 19	21, 22, 23	22, 23.
19	11	Dec. 19	21, 22, 23, 24, 25	23 and 24.
20	18	Dec. 22	24, 25, 26, 27, 28	26 and 27.
21	18	Dec. 22	24, 25, 26, 27, 28, 29, 30, 31	27, 28, 29, 30, 31.
22	19	Dec. 23	25, 26, 27, 28, 29	26, 27, 28.
3	19	Dec. 24	26, 27, 28, 29, 30	28 and 29.
4	20 .	Dec. 26	28, 29, 30, 31	29 and 30.
5	20	Dec. 28	30, 31, 1, 2, 3, 5	*0.
26	24	Dec. 29	31, 1, 2, 3, 4, 5, 6, 8, †9, 10, 11, 12, 15, 16, 17, †18. Dead on 19th	3, 4, 5, 6, 8, 10, 11,
17	24	Dec. 30		12, 15, 16, 17, 18.
8	26		1, 2, 3, 4, 5	3 and 4.
	26	2	5, 6, 8, 9	8.
9	26	Jan. 4	6, 8, 9, 10, 11	8, 9, 10.
	28	Jan. 6	8, 9, 10, 11, 12	11.
	28	Jan. 8 Jan. 8	9	o. Killed on Janu- ary 9. 12. Killed on Janu-
3	28	Jan. 8	10, 11, 12,	ary 12.
4	29	Jan. 10	12, 13, 15, 16, 17, 18.	15, 16, 17. Killed
5	32	Jan. 12	15, 17, 18, 19	on January 18.
7	34	Jan. 15	18, 19, 20, 22, 23	19, 20,
8	35	Jan. 17	19, 20, 22	22. Killed on Janu-
9	37	Jan. 19	22, 23, 24	ary 22.
0	36	Jan. 20	22, 23, 24, 25	23 and 24.
1	38	Jan. 22	24, 25	25. Killed on Janu-
2	40	Jan. 23	25, 26, 27, 29, 30	ary 25.
3	41	Jan. 25	26, 27, 29, 30	26, 27, 29.
4	42	Jan. 27		29.
5	42	Jan. 29	29, 30, 31, 1	29, 30, 31.
6	44	Jan. 31	31, 1, 2, 3, 5, 6	3, 5.
7	46		11, 2, 3, 5, 6	3, 5. Dead on No- vember 15.
8	46		5, 6, 7, 8, 9, 10	‡o.
		Nov. 3	6, 7, 8	7, 8. Killed on No- vember 8.
9	48	Nov. 7	9, 10, 13, 15, 16	10, 13.
0	48	Nov. 8	10, 13, 15, 16	13.
	49	Nov. 10	13, 15, 16	‡o.
3	50	Nov. 13	15, 16, 17	16, 17. Killed No- vember 17.
	53	Nov. 16	17, 19, 20	20.
	53	Nov. 17	19, 20	19, 20.
5	53	Nov. 17	19, 20, 25	§o.
7	5.5	Nov. 19	20, 23	23. Killed November

q. Hoffman (5) believes that there are now no grounds for separating pallida entirely from the other spirochetes and giving it the specific name of Treponema, since other spirochetes—for instance, balantidis—too have a terminal filament and permanent coils.

7. The transverse mode of division also occurs among the protozoa; indeed, no one of the facts mentioned is in itself a sufficient basis for classification.

*Rats 8 and 25 were inoculated with blood after the disappearance of spirochetes from that blood; and Rats 12 and 13 were inoculated with blood before the apearance of spirochetes in that blood.

† In the case of Rat 26, the smear of the ninth was poor; after that day the smears were made not from the tail, but from the ear. The smear of the eighteenth was poor.

‡ Rat 33 was not examined on the 14th; Rat 39 not on the 21st; Rat 51 on the 12th and 14th.

Rat 56 was not examined on the 21st. 22d, 23d, 24th.

TABLE II. Of Rats Injected with Blood One Day Old.

Rats.	The Inocula- tions Into These Rats Were Made from the Fol- lowing Rats.	Dates of Inoculation.	Dates on Which the Peripheral Blood Was Examined.	Dates on Which the Spirochetes Were Found.
9	6	Dec. 11	12, 13, 14, 15	*0.
10	7	Dec. 11	12, 13, 14, 15, 16	*0.
11	7	Dec. 12	13, 14, 15, 16, 18, 19,	18, 19.
14	10	Dec. 16	18	*0.
15	11	Dec. 16	18, 19, 20, 21	*0.
36	32	Jan. 13	15, 16, 17, 18, 19, 20,	19, 20.
52	49	Feb. 11	13, 15, 16, 17	*0.
58	54	Feb. 21		Dead February 23.
59	54	Feb. 21	23, 25, 27, 28, 1	27, 28.
60	57	Feb. 24		Dead February 24.
61	57	Feb. 24	27, 28, 1, 2, 3, 4	*0.
62	59	Mar. 1	2, 3, 4, 5, 6	6 killed March 6.

* Rat 9 was not examined after the 15th, and Rat 10 not after the 16th. Rats 14 and 15 were inoculated with blood before the appearance of spirochetes in that blood. Rat 52 was not examined on the 14th. Rats 58 and 60 were young, but so too was Rat 57. Rat 61 was very large.

TABLE III. Of Rats Injected With Blood More Than One Day Old.

Rats.	The Inocula- tions Into These Rats Were Made from the Fol- lowing Rats.	Dates of Inoculation.	Dates on Which the Peripheral Blood Was Examined.	Dates on Which the Spirochetes Were Found.
16	3+4+6+7	Dec. 18	20, 21, 22, 23	0.
17	3+4+6+7	Dec. 18	20, 21, 22, 23	0.
63	59	Mar. 3	5, 6, 7, 8, 9, 10, 12, 13, 14, 15	0.
64	62	Mar. 10	12, 13, 14, 15, 16, 17	0.

TABLE IV. Of Rats On Which Autopsies Were Made.

Rats.	Autopsy Made On	Present (+)	Heart: Spirochetes Present (+) or Absent (—).	
*26	Jan. 19		+	No spirochetes in smears of the spleen, kidney, suprarenal body, lung or liver.
31	Jan. 9	-	-	No spirochetes in smears of the spleen, kidney, suprarenal body, lung or liver.
32	Jan. 12	+	+	No spirochetes in smears of the spleen, kidney, suprarenal body, lung or liver.
34	Jan. 18	-	-	No spirochetes in smears of the spleen, kidney, suprarenal body, lung or liver.
38	Jan. 22	+	+	No smears made of any of the or- gans except the heart.
41	Jan. 25	+	+	No smears made of any of the or-
46	Feb. 15		-	No smears made except of the heart. Rat 46 died after not having been
53	Feb. 17	+	+	examined since the 6th.  No spirochetes in smears of the spleen. No smears made of any of the organs except of the heart
57	Feb. 23	+	+	and spleen. No smears made of any of the or-
*58	Feb. 23	<b>†</b>	-	gans except the heart.  No spirochetes in smears of the spleen. No smears made of the organs except of the heart and
62	Mar. 6	+	-	spleen.  No spirochetes in smears of the spleen. No smears made of any of the organs except of the heart and spleen.

*Rat 58 was a young rat inoculated on February 22, and found dead on February 23. In the case of Rat 26 the smear of the heart's blood was poor. The blood was coagulated. † Not examined.

## Literature.

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(7) Memoir XXI, Liverpool School of Tropical Medicine, 1906.

(8) Norris, C., Pappenheimer, A. M., and Flournoy, T.—"Study of a Spirochete Obtained from a Case of Relapsing Fever in Man, with Notes on Morphology, Animal Reactions, and Attempts at Cultivation." Journ. Infect. Dis., 1906, III., No. 3,

(10) Novy, F. G., and Knapp, R. E.—"Studies in Spirillum Obermeieri and Related Organisms." Journ. Infect. Dis., 1906, III., No. 3, p. 291.

(10) Novy, F. G., and Knapp, R. E.—"The Cultivation of Spirillum Obermeieri." Journ. Amer. Med. Ass., XLVII., 1906, No. 26, p. 2152.

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## APPROVED PAPERS.

FOR THE WEEK ENDING NOVEMBER 30, 1907.

No. 570.

No. 570.

Resolved, That permission be and the same is hereby given to A. R. Whitney, Jr., & Co. to erect a temporary sidewalk and street bridge over Liberty street, from the outer curb line at the intersection of Maiden lane and Liberty street, running westerly along said Liberty street a distance of about 136 feet, in the Borough of Manhattan; said bridge to be so constructed as not to interfere with pedestrian or vehicular traffic, and being for the purpose of safeguarding against dangers attending building construction; the said A. R. Whitney, Jr., & Co. to save The City of New York free and harmless from any loss or damage that may be occasioned during the erection of said temporary bridge or its continuance, the work to be done at said firm's expense, under the direction of the President of the Borough; said permission to continue only during the pleasure of the Board of Aldermen.

Adopted by the Board of Aldermen, November 19, 1907.

Approved by the Mayor, November 25, 1907.

No. 571.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the amended Greater New York Charter, the Board of Estimate and Apportionment be and is hereby requested to authorize the Comptroller to issue Special Revenue Bonds to an amount not to exceed twenty thousand dollars (\$20,000), the proceeds whereof to be applied to meet deficiency in appropriation for salaries, Bureau of Public Buildings and Offices, Borough of Brooklyn.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

No. 572.

No. 572.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the amended Greater New York Charter, the Board of Estimate and Apportionment be and is hereby requested to authorize the Comptroller to issue Special Revenue Bonds to an amount not to exceed ninety-nine thousand one hundred and seventy-six dollars and eighty-four cents (\$99,176.84), the proceeds whereof to be applied to meet anticipated deficiencies in appropriations of the Department of Public Charities.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

No. 573.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the amended Greater New York Charter, the Board of Estimate and Apportionment be and is hereby requested to authorize the Comptroller to issue Special Revenue Bonds to an amount not to exceed twenty-seven thousand dollars (\$27,000), the proceeds whereof to be applied to meet deficiencies in appropriations of the Board of City Record.

Adopted by the Board of Aldermen, November 12, 1907.
Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

No. 574.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and hereby is requested to authorize the Comptroller to issue Special Revenue Bonds to the amount of three thousand and seventy-five dollars (\$3,075), the proceeds whereof to be applied to meet the increase of the salaries of the twelve Assistant Clerks and the salary of the Interpreter of the Gity Court of The City of New York, in accordance with the provisions of a resolution adopted by the Board of Estimate and Apportionment March 22, 1907, concurred in by the Board of Aldermen April 2, 1907, and approved by the Mayor April 9, 1907.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

No. 575.

Resolved, That permission be and the same is hereby given to J. A. Roberts, manager of the Imperial Roller Skating Rink, to parade with one automobile, carrying transparencies and a band of music through the streets, avenues and thoroughfares of The City of New York, under the direction of the Commissioner of Police; such permission to continue only for fourteen days from the date of approval hereof by his Honor the Mayor.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 576.

Resolved, That permission be and the same is hereby granted to A. W. Mueller to erect and maintain at his own cost and expense, but subject to the approval of the Commissioner of Water Supply, Gas and Electricity, an ornamental lamp-post at No. 1219 Madison avenue, such permission to continue only during the pleasure of the Board of Aldermen.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 577.

Resolved, That it is recommended to the Commissioner of Water Supply, Gas and Electricity that the watering trough now located at Eastern avenue and Walnut street be removed to and maintained at a point on the northeast corner of Two Hundred and Thirtieth street and Riverdale avenue, in the Borough of The Bronx.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York

Charter, the same took effect as if he had approved it.

No. 578.

Resolved, That it is recommended to the Commissioner of Water Supply, Gas and Electricity that water mains be laid in White Plains road, from Pelham parkway to old Bleecker street, in the Borough of The Bronx.

Adopted by the Board of Aldermen, November 12, 1907.

Received from his Honor the Mayor, November 26, 1907, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

No. 579.

Resolved, That the following named persons be and they are hereby appointed

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds:

Chas. P. Kleber, No. 171 East Seventy-seventh street, Manhattan.

Dennis F. Kinnier, Department of Health, Bronx.

John H. Rogan, No. 625 St. Mark's avenue, Brooklyn.

Louis F. Hettler, No. 509 Ninth avenue, Manhattan.

Harry A. Fisher, No. 258 West One Hundred and Thirty-first street, Manhattan.

John F. Burke, No. 300 Mulberry street, Manhattan.

Robert B. Saul, No. 452 West One Hundred and Fiftieth street, Manhattan.

George W. Hurlbut, No. 203 West One Hundred and Thirty-third street, Manhattan. hattan.

George Boochever, No. 242 West One Hundred and Twenty-second street, Man-

George Boochever, No. 242 West One Hundred and Twenty-second street, Mantan.

Wm. D. Leonard, No. 48 West Seventy-third street, Manhattan.

Adolph Vanrein, No. 1139 Lafayette avenue, Brooklyn.

Lewis H. May, No. 142 West Seventy-seventh street, Manhattan.

Geo. W. Forsyth, No. 200 East Twenty-seventh street, Manhattan.

Newton McGovern, No. 540 West One Hundred and Twelfth street, Manhattan.

Newton McGovern, No. 540 West One Hundred and Twelfth street, Manhattan.

David B. Baum, No. 57 Nassau street, Manhattan.

Henry Schwed, No. 518 West One Hundred and Sixtieth street, Manhattan.

W. F. Howe, No. 518 West One Hundred and Sixtieth street, Manhattan.

Malcolm McKinnon, Jr., No. 8807 Fifth avenue, Brooklyn.

Nathan Cohan, No. 633 East Fifth street, Manhattan.

Daisy B. Pieri, care of Louis Lowenstein, No. 350 Broadway, Manhattan.

Edward H. Chavelle, care of Louis F. Reed, No. 2 Rector street, Manhattan.

Daniel Volkmar, No. 422 Quincy street, Brooklyn.

Edward I. Herbst, No. 255 Broadway, Manhattan,

Joseph Schwartzberg, No. 2 East One Hundred and Eleventh street, Manhattan.

Joseph Schwartzberg, No. 2 East One Hundred and Eleventh street, Manhattan.

James H. Murphy, No. 114 Arlington avenue, Brooklyn.

Pincus Zucker, No. 1654 St. John's place, Brooklyn.

Pincus Zucker, No. 1654 St. John's place, Brooklyn.

Charles H. Lindel, No. 154 East Ninety-first street, Manhattan.

Richard J. Wehren, No. 507 Tenth street, Brooklyn.

Charles J. Quinlan, No. 666 Park place, Brooklyn.

Charles J. Quinlan, No. 667 Park place, Brooklyn.

Charles J. Quinlan, No. 667 Park place, Brooklyn.

Charles J. Quinlan, No. 669 Park place, Brooklyn.

Charles J. Wellen, No. 154 East Eighty-seventh street, Manhattan.

Richard J. Wehren, No. 507 Tenth street, Brooklyn.

La Hungman, No. 667 Park place, Brooklyn.

La Hungman, No. 667 Park place, Brooklyn.

La Hungman, No. 668 Park place, Brooklyn.

La Hungman, No. 678 Fifth avenue, Manhattan.

Joseph Rosenberg, No. 412 East Eighty-sixth street, Manhattan.

Joseph Rosenberg, No. 412 East Eight

Onx.
Patrick John Power, No. 26 Grove street, Manhattan.
George Lander, No. 52 West Twelfth street, Manhattan.
Jerome C. Jackson, No. 20 West Seventy-first street, Manhattan.
James H. McDermott, No. 1028 Simpson street, The Bronx.
Charles C. Smith, No. 108 Marion street, Brooklyn.
H. F. Marker, No. 112 Lee avenue, Brooklyn.
Robert Miller, No. 450 Bedford avenue, Brooklyn.
Jane M. Kutscher, No. 61 Fourth avenue, Richmond.
Charles Slavik, No. 349 East Seventy-second street, Manhattan.
William Robson, No. 1874 Second avenue, Manhattan.
Catherine E. Ryan, No. 402 West Fifty-first street, Manhattan.
Philip Wirth, No. 158 Seventh street, Manhattan.
Jerome Arnold Kohn, No. 18 East Ninety-fifth street, Manhattan.
Henry Gutman, No. 30 West One Hundred and Twenty-fifth street, Manhattan.
William R. Jackson, No. 371 Hancock street, Brooklyn.
Adopted by the Board of Aldermen, November 26, 1907.

No. 580.

No. 580.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of six thousand dollars (\$6,000), in addition to the amount heretofore authorized, to provide means for all work in connection with the removal of two of the supporting columns of the Brooklyn Bridge station, at the intersection of Sands and Washington streets, Borough of Brooklyn.

Be it Ordained by the Board of Aldermen of The City of New York as follows: Section 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment, October 18, 1907, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding six thousand dollars (\$6,000), in addition to the amount heretofore authorized, to provide means for all work in connection with the removal of two of the supporting columns of the Brooklyn Bridge station at the intersection of Sands and Washington streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding six thousand dollars (\$6,000), the proceeds where-of to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen, November 19, 1907.

Approved by the Mayor, November 27, 1907.

No. 581.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of thirty-five hundred dollars (\$3,500), to provide means for the acquisition of a site for a public bath located at No. 142 Eighth street, Borough of Queens, and for the payment of the expenses incurred in the examination of title and

Be it Ordained by the Board of Aldermen of The City of New York as follows:
Section I. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment October 18, 1907, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding thirty-five hundred dollars (\$3.500) to provide means for the acquisition

proves of the issue of Corporate Stock of The City of New York to an amount not exceeding thirty-five hundred dollars (\$3,500), to provide means for the acquisition of a site for a public bath, located at No. 142 Eighth street, Borough of Queens, and for the payment of the expenses incurred in the examination of title and surveys; and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding thirty-five hundred dollars (\$3,500), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen, November 19, 1907.

Approved by the Mayor, November 27, 1907.

No. 582.

Resolved, That for the purpose of defraying any incidental expenses contingent to the office of the Commissioners of Accounts said Commissioners of Accounts may by requisition draw upon the Comptroller for a sum not exceeding five hundred dolThe Commissioners of Accounts may, in like manner, renew the draft as often as they may deem necessary to the extent of the appropriation set apart for Contingencies and Supplies in the office of the Commissioners of Accounts, but no such renewals shall be made until the money upon the preceding draft shall be accounted for to the Comptroller by the transmittal of a voucher or vouchers, certified by the Commissioners of Accounts covering the expenditures of money paid thereon.

Adopted by the Board of Aldermen, November 19, 1907.

Approved by the Mayor, November 27, 1907.

· No. 583.

Resolved, That permission be and the same is hereby given to the Sydney Social Club to drive an advertising wagon through the streets and thoroughfares of the Borough of Manhattan, under the direction of the Police Department, such permission to continue only up to and including November 27, 1907.

Adopted by the Board of Aldermen November 19, 1907.

Approved by the Mayor, November 27, 1907.

JOSEPH F. PRENDERGAST, Acting City Clerk.

## POLICE DEPARTMENT.

Sanitary Company (Boiler Squad), November 20, 1907.

Hon. THEODORE A. BINGHAM, Police Commissioner:

Sir—In compliance with orders relative to engineer's certificates issued by me under section 312 of chapter 410 of the Laws of 1882, as amended, the following report will show the names of the persons to whom licenses were issued, class of license and location for the same, during the twenty-four hours ending 12 midnight, November 20, 1907

First Class.

Robt. J. King, No. 256 Broadway. Henry Engelbrecht, No. 100 Church street. Joseph Austin, Blackwell's Island. Chas. E. Sage, No. 513 West Twenty-second street. Wm. J. Downe, No. 565 Smith street, Brooklyn.

Second Class.

Second Class.

Christopher Sindt, No. 22 Howard street.
Mathurine Brochard, No. 211 West Thirty-ninth street.
Jeremiah Foley, No. 52 William street.
James Judge, No. 60 Front street.
George V. Wicks, No. 43 West Twenty-third street.
John Rowley, No. 127 East Seventy-second street.
Michael Walsh, One Hundred and Eighth street and Columbus avenue.
John W. Sherman, No. 25 Walker street.
George McMullen, No. 879 Gates avenue, Brooklyn.
Chas. Casstensen, No. 54 Schenectady avenue, Brooklyn.
Denis Hewitt, No. 547 Fulton street, Brooklyn.
John Fitzpatrick, No. 303 Washington street, Brooklyn.
Alexander McEwen, No. 45 York street, Brooklyn.
John McNamee, foot of North Twelfth street, Brooklyn.

Third Class.

William Donaghy, No. 130 West Twenty-fourth street.
Henry Bartlot, No. 447 West Fourteenth street.
Henry Martin, No. 110 Manhattan avenue.
John S. Wood, No. 4 Front street.
Chas. Manley, No. 132 West Third street.
Michael D. O'Connell, Southern boulevard and Crotona avenue.
Lawrence Schatzlein, No. 19 West Twenty-second street.
John McDonald, No. 146 West Thirty-first street.
James G. Ridgway, No. 10 Washington place.
John Hill, Pier 25, North river.
John Geider, No. 214 Sullivan street.
John J. Morton, No. 73 Mercer street.
James F. Galligan, No. 528 East Seventeenth street.
Pietro DeMarco, No. 338 East One Hundred and Ninth street.
August C. Faulkner, No. 7 East Fifteenth street.
William Renggli, No. 576 Broadway.
Thos. Flanagan, No. 201 East Eighty-seventh street.
Frederick Greer, No. 17 Battery place.
Jeremiah J. O'Leary, No. 310 West Sixty-fifth street.
Martin Kraus, No. 5 West One Hundred and Twenty-fifth street.
Frank Davies, No. 215 West Thirty-third street.
John Brennan, No. 120 West Fifty-seventh street.
Chas. Auge, Eighth avenue and One Hundred and Sixteenth street Third Class. John Brennan, No. 120 West Fifty-seventh street.
Chas. Auge, Eighth avenue and One Hundred and Sixteenth street.
James J. Reilly. No. 122 Fifth avenue.
Frederick W. Koenig, No. 457 First avenue.
George B. Walther, No. 621 Broadway.
James Brannigan, No. 102 Bleecker street.
William Snyder, No. 43 West Fourth street.
William Snyder, No. 260 Boerum street, Brooklyn.
Albert Henke, Walcott avenue and Shore road, Brooklyn.
Henry Roloff, No. 326 Henry street, Brooklyn.
Patrick Scally, foot of North Eleventh street, Brooklyn.
Samuel J. Stafford, No. 214 Third street, Brooklyn.
Maurice Carberry, foot of South Ninth street, Brooklyn.
Henry Berghauser, No. 71 George street, Brooklyn.
John Bradley, foot of Broadway, Brooklyn.
James McMahon, No. 188 Eastern parkway, Brooklyn.
Patrick Purcell, Eleventh avenue and Twentieth street, Whitestone, L. I.
Fred. G. Foreman, No. 278 North Henry street, Brooklyn.

Special.

James H. Van Pelt, No. 407 East Houston street. Theodore Hilkeman, No. 3431 White Plains road. George Peterson, No. 119 Maiden lane.

Respectfully submitted,

HENRY BREEN, Lieutenant in Command.

## EXECUTIVE DEPARTMENT.

November 25, 1907. Appointments by the Mayor.

Foster Crowell, No. 188 Franklin place, lushing. Oueens, Street Cleaning Com-Flushing, Queens, Street Cleaning Com-missioner, in place of Dr. Walter Bensel,

Henry Smith, No. 243 West Ninety-ninth street, Manhattan, Commissioner of Parks, Boroughs of Manhattan and Rich-

mond, and President of the Park Board, in place of Samuel Parsons, resigned.

Members of the Board of Education.

Max Katzenberg, No. 911 Park avenue,

Manhattan, to succeed Randolph Guggen-

heimer, deceased.
Frederic R. Coudert, No. 124 East Fifty

iam N. Wilmer, deceased.

Dr. Charles E. Bruce, No. 2 East One Hundred and Twenty-seventh street, Manhattan, to succeed Frank L. Polk, resigned.

Francis W. Crowinshield, No. 319 Fifth avenue, Manhattan, to succeed John A. Wilbur, whose term of office expires

January 1, 1908.

Arthur Somers, No. 988 Sterling place, Brooklyn, to succeed Grosvenor H. Backus, resigned.

Alexander Ferris, No. 631 Quincy street, Brooklyn, to succeed George D. Hamlin, whose term of office expires January 1, 1908.

M. J. Sullivan, No. 593 East One Hundred and Forty-first street, The Bronx, to succeed John J. Barry, resigned.

Bernard Suydam, Elmhurst, Queens, to succeed George E. Payne, whose term of office expires January 1, 1908.

Reappointments by the Mayor of Mem-

Reappointments by the Mayor of Members of the Board of Education, whose terms of office expire January 1, 1908:
Francis P. Cunnion, No. 407 East One Hundred and Twentieth street, Manhat-

A. Leo Everett, No. 134 East Seventieth reet, Manhattan. M. Samuel Stern, No. 2013 Fifth avenue,

George J. Gillespie, No. 146 East Sixty-second street, Manhattan. John Greene, No. 469 Fifty-fourth street,

Brooklyn.
H. H. Sherman, No. 1006 Trinity ave-

#### CHANGES IN DEPARTMENTS, ETC.

DEPARTMENT OF FINANCE.
November 27—The Comptroller has accepted the resignation of Dr. P. J. Murray, Medical Examiner in the Law and Adjustment Division. Resignation became effective at the close of business November 20, 1907.

DEPARTMENT OF DOCKS AND FERRIES.

November 27—James H. Clark has been dropped from the list of Water Tenders, he having been transferred to 'the position of Oiler in the Department of Water Supply, Gas and Electricity.

The Commissioner has transferred Christopher Thompson from the position of Dock Laborer to that of Marine Stoker, with compensation at the rate of \$500 per

with compensation at the rate of \$90 per month while employed, to take effect De-cember 1, 1907.

#### DEPARTMENT OF PARKS. Borough of The Bronx.

November 27 — Transfer of James Thornton, No. 286 St. Ann's avenue, Fore-man of Park Laborers, from this Depart-ment to the office of the President of the Borough of The Bronx, taking effect No-vember 26 vember 26.



## OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING which the Public Offices in the City are open for business and at which the Courts regularly open and adjourn, as well as the places where such offices are kept and such Courts are held, together with the heads of Departments and Courts.

## CITY OFFICES.

## MAYOR'S OFFICE.

No. 5 City Hall, 9 a. m. to 4 p. m.; Saturdays a. m. to 12 m.
Telephone, 8020 Cortlandt.
GEORGE B. McCLELLAN, Mayor
Frank M. O'Brien, Secretary.
William A. Willis, Executive Secretary.
James A. Rierdon, Chief Clerk and Bond and Warrant Clerk.

BURBAU OF WEIGHTS AND MEASURES Room 7, City Hall, 9 a. m. to 4 p. m.: Saturdays, a. m. to 12 m. Telephone, 8020 Cortlandt. Patrick Derry, Chief of Bureau.

BURBAU OF LICENSES. 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 1s m
Telephone, Sozo Cortlandt.
Iohn P. Corrigan, Chief of Bureau
Principal Office, Room 1, City Hall. Gaetano
D'Amato, Deputy Chief, Boroughs of Manhattan
and The Bronx.
Branch Office, Room 12, Borough Hall, Brooklyn,
Daniel J. Griffin, Deputy Chief, Borough of Brooklyn.

lyn.
Branch Office, Richmond Borough Hall, Room 23,
New Brighton, S. I.; William R. Woelfle, Financial
Clerk, Borough of Richmond.
Branch Office, Hackett Building, Long Island
City, Borough of Queens.

AQUEDUCT COMMISSIONERS.

Room 207, No. 250 Broadway, 5th floor, 9 a. m. to 4 p. m.
Telephone, 1942 Worth.
The Mayor, the Comptroller, ex-officio, Commissioners John F. Cowan (President), William H. Ten Eyck, John J. Ryan and John P. Windolph; Harry W. Walker, Secretary; Walter H. Sears, Chief Engineer.

## ARMORY BOARD.

Mayor George B. McClellan, the President of the Board of Aldermen, Patrick F. McGowan, Brigadier-General James McLeer, Brigadier-General George Moore Smith, the President of the Depart-ment of Taxes and Assessments, Lawson Purdy. Harrie Davis, Secretary, Room 6, Basement, Hall of Records, Chambers and Centre streets. Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 3900 Worth.

ART COMMISSION.

City Hall, Room st.
Telephone call, 1107 Cortlandt.
Robert W. de Forest, President;
Vice-President; Howard Mansheld, Secretary; A.
Augustus Healy, President of the Brooklyn Institute
of Arts and Sciences; George B. McClellan, Mayor
of The City of New York; J. Pierpont Morgan,
President of Metropolitan Museum of Art; John

Bigelow, President of New York Public Library; P. D. Millet, Painter; John J. Boyle, Sculptor; Arnold W. Brunner, Architect; John B. Pine.
John Quincy Adams. Assistant Secretary

#### BELLEVUE AND ALLIED HOSPITALS.

Office, Bellevue Hospital.
Telephone, 4400 Madison Square.
Board of Trustees—Dr. John W. Brannan, President; James K. Paulding, Secretary; Arden M. Robbins, Samuel Sachs, Leopold Stern, Theodore E. Tack, Myles Tierney, Robert W. Hebberd, ex-officio.
General Medical Superintendent, S. T. Armstrong, M. D.

BOARD OF ALDERMEN. No. 11 City Hall, 10 a. m. to 4 p. m.; Saturdays 10 a. m. to 12 m.
Telephone, 7560 Cortlandt.
Patrick F. McGowan, President.
P. J. Scully, City Clerk.

BOARD OF ASSESSORS. Office, No. 380 Broadway, 9 a. m. to 4 p. m.; Saturdays, 12 m. 36 Broadway, 9 a. m. Antonio Zucca.
Paul Weimann.
James H. Kennedy.
William H. Jasper, Secretary.
Telephone, 29, 30 and 31 Worth.

BOARD OF ELECTIONS. Headquarters, General Office, No. 107 West Forty first street. Commissioners — John T. Dooling (President) Charles B. Page (Secretary), John Maguire, Rudolph Ch. Fuller. A. C. Allen, Chief Clerk,

> BOROUGH OFFICES. Manhattan.

No. 112 West Forty-second street, William C. Baxter, Chief Clerk,

The Bronx, One Hundred and Thirty-eighth street and Mott venue (Solingen Building). Cornelius A. Bunner, Chief Clerk,

Brooklyn. No. 4s Court street (Temple Bar Building). George Russell, Chief Clerk.

Queens. No. 46 Jackson avenue, Long Island City. Carl Voegel, Chief Clerk.

Richmond. Borough Hall, New Brighton, S. I. Alexander M. Ross, Chief Clerk. All offices open from 9 a. m. to 4 p. m.; Saturdays, a. m. to 12 m.

BOARD OF ESTIMATE AND APPOR-TIONMENT.

The Mayor, Chairman; the Comptroller, President of the Board of Aldermen, President of the Borough of Manhattan, President of the Borough of Brooklyn, President of the Borough of The Bronx, President of the Borough of Queens, President of the Borough of Richmond.

OFFICE OF THE SECRETARY.

No. 277 Broadway. Room 1406. Telephone, 2280 Worth.
Joseph Haag, Secretary; William M. Lawrence, Assistant Secretary. Charles V. Adee, Clerk to

OFFICE OF THE CHIEF ENGINEER.

Nelson P. Lewis, Chief Engineer, No. 277 Broadway, Room 1408. Telephone, 2287 Worth.
Arthur S. Tuttle, Engineer in charge Division of Public Improvements, No. 277 Broadway, Room 1408.
Telephone, 2281 Worth.
Harry P. Nichols, Engineer in charge Division of Franchises, No. 277 Broadway, Room 801. Telephone, 2282 Worth.

BOARD OF EXAMINERS. Roard OF EXAMINERS.

Rooms 6027 and 6028 Metropolitan Building, No. 1
Madison avenue, Borough of Manhattan, 9 a. m. to
4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 5840 Gramercy.
Warren A. Conover, Charles Buek, Lewis Harding, Charles G. Smith, Edward F. Croker, Henry R
Marshall and George A. Just, Chairman.
Edward V. Barton, Clerk.
Board meeting every Tuesday at 2 p. m.

BOARD OF REVISION OF ASSESS-

MENTS. Herman A. Metz, Comptroller.
Francis K. Pendleton, Corporation Counsel.
Lawson Purdy President of the Department of
Taxes and Assessments.
Henry J. Storrs, Chief Clerk, Finance Department, No. 280 Broadway.
Telephone, 1200 Worth

BOARD OF WATER SUPPLY. Office, No. 299 Broadway.
J. Edward Simmons, Charles N. Chadwick, harles A. Shaw, Commissioners.
Thomas Hassett, Secretary.
J. Waldo Smith, Chief Engineer

COMMISSIONERS OF ACCOUNTS. Rooms 114 and 115 Stewart Building, 280 Broad-ray, 9 a. m. to 4 p. m. Telephone 4315 Worth. John Purroy Mitchel, Philip B. Gaynor, Com-nissioners.

COMMISSION.

TWENTY-THIRD AND TWENTY-FOURTH WARDS. Office of the Commission, Room 138, No. 280
Broadway (Stewart Building), Borough of Manhattan, New York City.
Commissioners—William E. Stillings, George C.
Norton, Lewis A. Abrams.
Lamont McLoughlin, Clerk.
Regular advertised meetings on Monday, Wednesday and Friday of each week at s o'clock p. m.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.

City Hall, Rooms 11, 12; 10 a.m. to 4 p. m.; Saturdays, 10 a. m. to 12 m.
Telephone, 750 Cortlandt.
P. J. Scully, City Clerk and Clerk of the Board of Aldermen. ldermen. Joseph F. Prendergast, First Deputy City Clerk. Michael F. Blake, Chief Clerk of the Board of Aldermen.
Joseph V. Sculley, Clerk, Borough of Brooklyn.
Thomas J. McCabe, Deputy City Clerk, Borough of The Bronx.
William R. Zimmerman, Deputy City Clerk, Borough of Queens.
Joseph F. O'Grady, Deputy City Clerk, Borough of Richmond.

CITY RECORD OFFICE. BUREAU OF PRINTING, STATIONERY AND BLANK BOOKS.

Supervisor's Office, Park Row Building, No. 21
Park Row. Entrance, Room 807, 9 a. m. to 4 p. m.
Saturdays, 0 a. m. to 12 m.
Telephone, 1505 and 1506 Cortlandt. Supply
Room, No. 2 City Hall.
Patrick J. Tracy, Supervisor; Henry McMillen
Deputy Supervisor; C. McKemie, Secretary.

COMMISSIONER OF LICENSES.

Office, No. 277 Broadway.
John N. Bogart, Commissioner.
James P. Archibald, Deputy Commissioner.
John J. Caldwell, Secretary.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m.

COMMISSIONERS OF SINKING FUND. George B. McClellan, Mayor, Chairman; Herman A. Metz, Comptroller; James J. Martin, Chamberlain; Patrick F. McGowan, President of the Board of Aldermen, and John R. Davies, Chairman Finance Committee, Board of Aldermen, Members; N. Taylor Phillips, Deputy Comptroller, Secretary.

Office of Secretary, Room 12, Stewart Building. Telephone, 1200 Worth.

DEPARTMENT OF BRIDGES.

Nos. 13-21 Park Row.
James W. Stevenson, Commissioner.
John H. Little, Deputy Commissioner.
Edgar E. Schiff, Secretary.
Office nours, 9 a. m. to 4 p. m.
Saturdays, 9 a. m. to 12 m.
Telephone, 6080 Cortlandt.

DEPARTMENT OF CORRECTION.

CENTRAL OFFICE. No. 148 East Twentieth street. Office hours from a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 1047 Gramercy. John V. Coggey, Commissioner, George W. Meyer, Deputy Commissioner, John B. Fitzgerald, Secretary.

DEPARTMENT OF DOCKS AND FERRIES.

Pier "A," N. R., Battery place.
Telephone, 300 Rector.
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M. F. Loughman, Secretary.
Offices, Arsenal, Central Park.
Telephone, 201 Plaza.
Michael J. Kennedy, Commissioner of Parks for the Boroughs of Brooklyn and Queens.
Offices, Litchfield Mansion, Prospect Park, Brooklyn

Jelephone, 2300 South.
Joseph I. Berry, Commissioner of Parks for the Borough of The Bronx.
Office, Zbrowski Mansion, Claremont Park
Office hours, 9 2. m. to 4 p. m.; Saturdays, 12 m
Telephone, 998 Tremont.

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Foot of Rast Twenty-sixth street, 9 a. m. to 4 p. m. Saturdays, 12 m.
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Teleohone, 300 Worth.
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William H. Sinnott, Deputy Register.
Telephone, 3900 Worth.

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5 County Court-house.
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Jacob A. Livingston Deputy Commissioner.
Albert B. Waldron. Secretary.
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Telephone, 1454 Main.

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Hall of Records, Brooklyn. Office hours, 9 a. m. to 4 p. m.; during months of July and August, 9 a. m. to 2 p. m.; Saturdays, 9 a. m. to 12 m. Charles T. Hartzheim, County Clerk. Bela Tokaji, Deputy County Clerk.

James P. Kohler, Assistant Deputy County Clerk. Robert Stewart, Counsel. Telephone call, 4930 Main.

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County Court-house, Brooklyn, Rooms 10, 17, 18, 22 and 23. Court opens at 10 a. m. daily and sits until business is completed. Part II., Room No. 23; Part II., Room No. 10, Court-house. Clerk's Office, Rooms 17, 18 and 22, open daily from 9 a. m. to 4 p. m.; Saturdays, 12 m. Norman S. Dike and Lewis L. Fawcett, County Judges. Judges. Charles S. Devoy, Chief Clerk. Telephone, 4154 and 4155 Main.

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## COUNTY COURT.

Temporary County Court-house, Long Island City.
County Court opens at ro a. m. Trial Terms begin first Monday of each month, except July, August and September. Special Terms each Saturday, except during August.
County Judge's office always open at No. 336 Fulton street, Jamaica, N. Y.
Burt J. Humphrey, County Judge.

## DISTRICT ATTORNEY.

Office, Queens County Court-house, Long Island City, 9 a. m. to 5 p. m. Ira G. Darrin, District Attorney.

## PUBLIC ADMINISTRATOR.

No. 17 Cook avenue, Elmhurst. John T. Robinson, Public Administrator, County Queens Telephone, 335 Newtown.

## SHERIFF.

County Court-house, Long Island City, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Herbert S. Harvey, Sheriff. John M. Phillips, Under Sheriff.

## SURROGATE.

Daniel Noble, Surrogate.

Office at Jamaica.

Except on Sundays, holidays and half-holidays, the office is open between March 31 and July 1, from 8 a. m. to 5 p. m.; on Saturdays, from 8 a. m. to 12 m.; between July 1 and September 1 from 9 a. m. to 4 p. m.; on Saturday from 9 a. m. to 12 m.

The calendar is called on Tuesday of each week at 10 a. m., except during the month of August, when no court is held, and the court sits every day thereafter until all contested cases have been disposed of

## RICHMOND COUNTY.

COMMISSIONER OF JURORS.

Village Hall, Stapleton. Charles J. Kullman, Commissioner.
John J. McCaughey, Assistant Commissioner.
Ottice open from 9 a. m. until 4 p. m.; Saturdays,
from 9 a. m. to 13 m.

## COUNTY CLERK.

County Office Building, Richmond, S. I., 9.a. m. to 4 p. m. C. L. Bostwick, County Clerk. County Court-house, Richmond, S. I., 9 a. m. to

## COUNTY JUDGE AND SURROGATE.

Terms of Court, Richmond County, 1907.
County Courts—Stephen D. Stephens, County County Courts—Stephen D. Stephens, County Judge.
First Monday of June, Grand and Trial Jury.
First Monday of December, Grand and Trial Jury.
Fourth Wednesday of January, without a Jury.
Fourth Wednesday of February, without a Jury.
Fourth Wednesday of March, without a Jury.
Fourth Wednesday of April, without a Jury.
Fourth Wednesday of July, without a Jury.
Fourth Wednesday of September, without a Jury.
Fourth Wednesday of September D. Stephens, Surrogate's Court—Stephen D. Stephens, Surrogate.

gate.
Mondays at the Borough Hall, St. George, 10.30
o'clock a. m.

Tuesdays at the Borough Hall, St. George, at 10.30 o'clock a. m. Wednesdays at the Surrogate's Office, Richmond at 10.30 o'clock a. m.

#### DISTRICT ATTORNEY.

No. 400 Richmond Terrace, New Brighton, S. I. Office hours, from 9 a. m. to 12 m., and 1 p. m. to 4 John J. Kenney, District Attorney.

#### SHERIFF.

County Court-house, Richmond, S. I. Office hours, 9 a. m. to 4 p. m. Joseph J. Barth, Sheriff, John J. Schoen, Under Sheriff.

#### THE COURTS.

#### APPELLATE DIVISION OF THE SUPREME COURT.

FIRST JUDICIAL DEPARTMENT. Court-house, Madison avenue, corner Twenty-fifth street. Court opens at 1 p. m.
Edward Patterson, Presiding Justice, George L. Ingraham, Chester B. McLaughlin, Frank C. Laughlin, John Proctor Clarke, James W. Houghton, Francis M. Scott and John S. Lambert, Justices; Alfred Wagstaff, Clerk; William Lamb, Deputy Clerk.
Clerk's Office open at 9 a. m

#### SUPREME COURT-FIRST DEPART-MENT.

County Court-house, Chambers street. Court oper om 10.15 a. m. to 4 p. m. Special Term, Part I. (motions), Room No. 15. Special Term, Part II. (ex-parte business), Room

Special Term, Part III., Room No. 19, Special Term, Part IV., Room No. 20, Special Term, Part V., Room No. 23, Special Term, Part VI. (Elevated Railroad cases),

Special Term, Part V., Room No. 33.

Special Term, Part VI. (Elevated Railroad cases),
Room 31.

Trial Term, Part III., Room No. 24.

Trial Term, Part III., Room No. 25.

Trial Term, Part IV., Room No. 27.

Trial Term, Part VI., Room No. 27.

Trial Term, Part VII., Room No. 27.

Trial Term, Part VII., Room No. 27.

Trial Term, Part VIII., Room No. 27.

Trial Term, Part VIII., Room No. 27.

Trial Term, Part XII., Room No. 26.

Trial Term, Part XII., Room No. 26.

Trial Term, Part XII., Room No. 26.

Trial Term, Part XIII., and Special Term, Part VIII., Room No. 26.

Trial Term, Part XIII., and Special Term, Part VIII., Room No. 27.

Trial Term, Part XIII., Room No. 28.

Appellate Term, Room No. 29.

Naturalization Bureau, Room No. 28, third floor.

Clerk's Office, Special Term, Part II. (ex-parte business), room southwest corner, mezzanine floor.

Clerk's Office, Special Term, Part II. (ex-parte business), room southwest corner, mezzanine floor.

Clerk's Office, Special Term, Calendar, room southeast corner, second floor, east.

Clerk's Office, Appellate Term, room southwest corner, third floor.

Trial Term, Part I. (criminal business).

Criminal Court-house Centre street.

Justices—Charles H. Truax, Charles F. MacLean, Henry Bischoff, Jr., Leonard A. Giegerich, P. Henry Dugro, Henry A. Gildersleeve, James Fitzgerald, David Leventritt, James A. O'Gorman, James A. Blanchard, Edward S. Clinch, Samuel Greenbaum, Edward E. McCall, Edward B. Amend, Vernon M. Davis. Victor J. Dowling, Joseph Newburger, M. Linn Bruce, John W. Goff, Samuel Seabury, M. Warley Platzek, Peter A. Hendrick, John Ford, Charles W. Dayton, John J. Brady, Mitchell L. Erlanger, Charles L. Guy.

Peter J. Dooling, Clerk, Supreme Court.

Telephone, 4580 Cortlandt.

# SUPREME COURT—SECOND DEPART-MENT.

Kings County Court-house, Borough of Brooklyn N. Y.

Court open daily from 10 o'clock a. m. to 5 o'clock
p. m. Seven jury trial parts. Special Term for
Trials. Special Term for Motions.
James F. McGee, General Clerk.
Telephone, 6970 Main.

## CRIMINAL DIVISION-SUPREME

COURT. Building for Criminal Courts, Centre, Elm, White, and Franklin streets.
Court opens at 10.30 a.m.,
Peter J. Dooling, Clerk; Edward R. Carroll, Special Deputy to the Clerk.
Clerk's Office open from 9 a.m. to 4 p. m.
Telephone, 6064 Franklin.

COURT OF GENERAL SESSIONS.

COURT OF GENERAL SESSIONS.

Held in the Building for Criminal Courts, Centre Elm, White and Franklin streets.
Court opens at 10 a. m.
Thomas C. T. Crain, Francis S. McAvoy, Otto A. Rosalsky, Warren W. Foster, Thomas C. O'Sullivan and Charles S. Whitman, Judges of the Court of General Sessions. Edward R. Carroll, Clerk. Clerk's Office open from 9 a. m. to 4 p. m.
During July and August Clerk's office will close at 2 p. m., and on Saturdays at 1s m

#### CITY COURT OF THE CITY OF NEW YORK.

No. 32 Chambers street, Brownstone Building City Hall Park, from 10 a. m. to 4 p. m. Part I.
Part II.
Part III.
Part IV.
Part IV.
Special Term Chambers will be held from 10 a. m.

Clerk's Office open from 9 a. m. to 4 p. m.
Clerk's Office open from 9 a. m. to 4 p. m.
Edward F. O'Dwyer, Chief Justice; John Henry
McCarty, Lewis J. Conlan, Theodore F. Hascall,
Francis B. Delehanty, Joseph I. Green, William
H. Wadhams, Justices. Thomas F. Smith, Clerk,
Telephone, 5142 Cortlandt.

COURT OF SPECIAL SESSIONS. Building for Criminal Courts, Centre street be ween Franklin and White streets, Borough of Man-

hattan.
Court opens at 10 a.m.
Justices—First Division—John B. McKean, William E. Wyatt, Willard H. Olmsted, Joseph M.
Deuel, Lorenz Zeller, John B. Mayo. Charles W.
Culkin, Clerk; William M. Fuller, Deputy Clerk.
Clerk's Office open from 0 a.m. to 4 p.m.
Second Division—Trial Days—No. 171 Atlantic
avenue, Brooklyn, Mondays, Wednesdays and Fridays at 10 o'clock; Town Hall, Jamaica, Borough of
Queens, Tuesday at 10 o'clock; Town Hall, New
Brighton, Borough of Richmond, Thursday at 10 o'clock.

Justices—Howard J. Forker, Patrick Keady, John Fleming, Morgan M. L. Ryan, Robert I. Wilkin, George J. O'Keefe; Joseph L. Kerrigan, Clerk; John J. Dorman, Deputy Clerk. Clerk's Office, No. 171 Atlantic avenue, Borough of Brooklyn, open from 9 a. m. to 4 p. m.

CHILDREN'S COURT.

First Division—No. 66 Third avenue, Manhattan Edmund C. Lee, Clerk. Second Division—No. 102 Court street, Brooklyn, James P. Sinnott, Clerk.

#### CITY MAGISTRATES' COURT. First Division.

Court opens from 9 a. m. to 4 p. m.
City Magistrates—Robert C. Cornell, Leroy B.
Crane, Peter T. Barlow, Matthew P. Breen, Joseph
F. Moss, James J. Walsh, Henry Steinert, Daniel
E. Finn, Charles G. F. Walsh, Henry Steinert, Daniel
E. Finn, Charles G. F. Walsh, Erederick B. House,
Charles N. Harris, Frederic Kernochan, Arthur C.
Butts, Otto H. Droege, Joseph E. Corrigan, Moses
Herrman.
James McCabe, Secretary, No. 125 Sixth avenue.
First District—Criminal Court Building,
Second District—Jefferson Market.
Third District—No. 56 Essex street,
Fourth District—No. 57 Essex street,
Fifth District—One Hundred and Twenty-first
street, southeastern corner of Sylvan place.
Sixth District—One Hundred and Sixty-first street
and Brook avenue.
Seventh District—No. 314 West Fifty-fourth street,
Eighth District—Main street, Westchester.

#### Second Division.

City Magistrates—Alfred E. Steers, A. V. B. Voorhees, Jr., James G. Tighe, Edward J. Dooley, John Naumer, E. G. Higginbotham, Frank E. O'Reilly, Henry J. Furlong, John F. Hylan, Alexander H. Geismar. Borough of Brooklyn.

Geismar.
President of the Board, Frank E. O'Reilly, No. 249
Manhattan avenue.
Secretary to the Board, William F. Delaney, No.
495 Gates avenue.
First District—No. 318 Adams street.
Second District—Court and Butler streets.
Third District—Myrtle and Vanderbilt avenues.
Fourth District—Lee avenue and Clymer street.
Fifth District—Manhattan avenue and Powers street.

reet. Sixth District—No. 495 Gates avenue. Seventh District—No. 31 Snider avenue (Flatbush). Eighth District—West Eighth street (Coney 1s-

land). Ninth District—Fifth avenue and Twenty-third street. Tenth District—133 New Jersey avenue.

Borough of Queens.

City Magistrates—Matthew J. Smith, Luke I. Connorton, Edmund J. Healy, Eugene C. Gilroy. First District—Long Island City. Second District—Flushing.
Third District—Far Rockaway.

Borough of Richmond. City Magistrates—John Croak, Nathaniel Marsh. First District—New Brighton, Staten Island. Second District—Stapleton, Staten Island.

#### MUNICIPAL COURTS.

Borough of Manhattan.

First District—Third, Fifth and Eighth Wards and all that part of the First Ward lying west of Broadway and Whitehall street, including Governor's Island, Bedloe's Island, Ellis Island and the Oyster Islands. New Court-house, No. 128 Prince street, corner of Wooster street.

Wauhope Lynn, Justice. Thomas O'Connell, Clerk.

Clerk, Clerk's Office open from 9 a. m. to 4 p. m. Telephone, 1371 Spring.

Second District—Second, Fourth, Sixth and Four teenth Wards, and all that portion of the First Ward lying south and east of Broadway and Whitehall street. Court-room, No. 59 Madison street.

John J. Hover, Justice. Francis Mangin, Clerk. Clerk's Office open from 9 a.m. to 4p. m.

Court opens daily at 9 a. m., and remains open until daily calendar is disposed of and close of the dally business, except on Sundays and legal holidays.

Telephone, 2410 Orchard.

Third District—Ninth and Fifteenth Wards.
Court-room, southwest corner Sixth avenue and West
Tenth street. Court opens daily (Sundays and legal
holidays excepted), from 9 a. m. to 4 p. m.
William F. Moore, Justice. Daniel Williams,

Clerk. Telephone, 2513 Chelsea. Fourth District—Tenth and Seventeenth Wards.
Court-room, No. 30 First street, corner Second avenue. Clerk's Office open daily from 9 a. m. to 4 p. m.
Court opens 9 a. m. daily, and remains open to close of business.
George F. Roesch, Justice. Andrew Lang, Clerk,
Telephone, 4053 Orchard.

Fifth District—The Fifth District embraces the Eleventh Ward and all that portion of the Thirteenth Ward which lies east of the centre line of Norfolk street and north of the centre line of Grand street and west of the centre line of Pitt street and north of the centre line of Pitt street and north of the centre line of Pitt street and north of Clinton street to Rivington street, and on the centre line of Rivington street, and on the centre line of Rivington street south to Norfolk street. Court-room, No. 154 Clinton street.

Benjamin Hoffman, Justice. Thomas Fitzpatrick, Clerk.

Clerk. Telephone, 2326 Orchard.

Sixth District — Eighteenth and Twenty-first Wards. Court-room, northwest corner Twenty-third street and Second avenue. Court opens at 9 a.m. daily (except legal holidays), and continues open until close of business.

Henry W. Unger, Justice. Abram Bernard, Clerk. Telephone, 4570 Gramercy.

Telephone, 4570 Gramercy.

Seventh District—That portion of Nineteenth Ward east of Lexington avenue, bounded on the south by the north side of East Fortieth street and on the north by the south side of East Eightysixth street, also that portion bounded on the south by the north side of East Sixty-first street, on the west by the east side of Park avenue, and on the north by the south side of East Sixty-fifth street. Court-room, No. 151 East Fifty-seventh street. Court-room, No. 151 East Fifty-seventh street. Court-room and legal holidays), and continues open to close of business.

Herman Joseph, Justice. Edward A. McQuade' Clerk.

Telephone, 3860 Plaza.

Bighth District.—Sixteenth and Twentieth Wards.

Righth District—Sixteenth and Twentieth Wards.
Court-room, northwest corner of Twenty-third street
and Eighth avenue. Court opens at 9 a. m. and continues open until close of business. Summary proceedings and return causes called at 9 a. m. Calendar causes, 9 a. m.
Clerk's Office open from 9 a. m. to 4 p. m., and on
Saturdays until 12 m.
Trial days and Return days, each Court day.
James W. McLaughlin, Justice. Henry Merzbach,
Clerk.
Telephone, 2665 Chelsea

Ninth District—Twelfth Ward, except that portion thereof which lies west of the centre line of Lenox or Sixth avenue and of the Harlem river, north of the terminus of Lenox avenue. Court-room, No. 790 East One Hundred and Twenty-first street, southeast corner of Sylvan place. Court opens every morning at 9 o'clock (except Sundays and legal holidays), and continues open to close of business.

Joseph P. Fallon, Justice. William J. Kennedy, Clerk.

Clerk's office open from 0 a. m. to 4 p. m.

Clerk's office open from 9 a. m. to 4 p. m. Telephone, 3595 Harlem.

Tenth District—The Tenth District embraces that portion of the Twenty-second Ward south of Seventieth street, west of Central Park West to Fifty-ninth street, seat on Fifty-ninth street to Seventh avenue, south on Seventh avenue to Fifty-third street, west on Fifty-third street to Eighth avenue, south on Eighth avenue, south on Eighth avenue to Fortieth street, north side to Hudson river. Court-room, No. 314 West Fifty-fourth street. Court open from 9 a. m. to 4 p. m., Sundays and legal holidays excepted.

Thomas E. Murray, Justice. Michael Skelly, Clerk.

Clerk. Telephone, 1890 Columbus.

Telephone, 1890 Columbus.

Eleventh District—The Eleventh District embraces that portion of the Twelfth Ward which lies north of the centre line of West One Hundred and Tenth street, between Lenox avenue and Seventh avenue, north of the centre line of One Hundred and Twentieth street, between Seventh avenue and Broadway; north of the centre line of One Hundred and Nineteenth street, between Broadway and the North or Hudson river, and west of the centre line of Lenox or Sixth avenue and of the Harlem river north of the terminus of Lenox or Sixth avenue. Courtroom, No. 70 Manhattan street. Clerk's Office open daily (Sundays and legal holidays excepted), from 9 m. to 4 p. m. Court convenes daily at 9 a. m. Francis J. Worcester, Justice. Heman B. Wilson, Clerk.

erk. Telephone, 6335 Morningside.

Twelfth District—The Twelfth District embraces that portion of the Twenty-second Ward north of Seventieth street, and that portion of the Twelfth Ward which lies north of the centre line of Eighty-sixth street and west of the centre line of Seventh avenue and south of the centre line of One Hundred and Twentieth street, between Seventh avenue and Broadway, and south of the centre line of One Hundred and Nineteenth street, between Broadway and the North or Hudson river. Court-room, No. 2555 Broadway.

Alfred P. W. Seaman, Justice. James V. Gilloon, Clerk.

lerk. Telephone, 4006 Riverside.

Thirteenth District—South side of Delancey street, from East river to Pitt street; east side of Pitt street, Grand street, south side of Grand street to Norfolk street, east side of Norfolk street to Division street, south side of Division street to Catharine street, east side of Catharine street to East river. Clerk's Office open daily (Sundays and legal holidays excepted), from 9 a. m. to 4 p. m.

Leon Sanders, Justice. James J. Devlin, Clerk. Court-room, No. 264 Madison street.

Telephone, 2596 Orchard.

Telephone, 256 Orchard.

Fourteenth District—The Fourteenth District embraces that portion of the Borough of Manhattan bounded as follows: Beginning at West Fortieth street and Eighth avenue, north on Eighth avenue to West Fifty-third street; east on West Fifty-third street to Seventh avenue; north on Seventh avenue to West Fifty-ninth street to Eighth avenue; north on Eighth avenue and west on Central Park West to the Transverse road at Central Park West and West Ninety-seventh street; east on Transverse road to Fifth avenue and East Ninety-seventh street; south on Fifth avenue to East Ninety-seventh street; south on Fifth avenue to East Sixty-fifth street; west on East Sixty-fifth street to Park avenue; south on Park avenue to East Sixty-first street; east on Least Sixty-first street to Park avenue; south on Lexington avenue to East Fortieth street; west on East and West Fortieth street and Eighth avenue.

Edgar J. Laner, Justice. William J. Chamberlain Clerk.

Court-house, No. 620 Madison avenue.

lerk. Court-house, No. 620 Madison avenue. Telephone, 3873 Plaza.

# Borough of The Bronx.

First District—All that part of the Twenty-fourth Ward which was lately annexed to the City and County of New York by Chapter 934 of the Laws of 1895, comprising all of the late Town of Westchester and part of the Towns of Eastchester and Petham, including the Villages of Wakefield and Williamsbridge. Court-room, Town Hall, Main street, Westchester Village. Court open daily (Sundays and legal holidays excepted), from 9 a. m. to 4 p. m. Trial of causes, Tuesday and Friday of each week.

William W. Penfield, Justice. Thomas F. Delahanty, Clerk.

Office hours, from 9 a. m. to 4 p. m.; Saturdays, closing at 12 m.

Second District—Twenty-third and Twenty-fourth Wards, except the territory described in chapter 934 of the Laws of 1895. Court-room, southeast corner of Washington avenue and One Hundred and Sixty-second street. Office hours, from 9 a. m. to 4 p. m. Court ppens at 9 a. m.

John M. Tienrey, Justice. Thomas A. Maher, Clerk.

Clerk. Telephone, 3043 Melrose

# Borough of Brooklyn.

Rorough of Brooklyn.

First District—Comprising First, Second, Third, Rourth, Fifth, Sixth, Tenth and Twelfth Wards and that portion of the Eleventh Ward beginning at the intersection of the centre lines of Hudson and Myrtle avenues, thence along the centre line of Myrtle avenue to North Portland avenue, thence along the centre line of North Portland avenue to Flushing avenue, thence along the centre line of Flushing avenue to Navy street, thence along the centre line of Navy street to Johnson street, thence along the centre line of Johnson street to Hudson avenue, and thence along the centre line to Hudson avenue to the point of beginning, of the Borough of Brooklyn. Court-house, northwest corner State and Court streets.

John J. Walsh, Justice. Edward Moran, Clerk Clerk's Office open from 9 a. m. to 4 p. m.

Second District—Seventh Ward and that portion

Clerk's Office open from 9 a. m. to 4 p. m.

Second District—Seventh Ward and that portion of the Twenty-first and Twenty-third Wards west of the centre line of Stuyvesant avenue and the centre line of Steenectady avenue, also that portion of the Twentieth Ward-beginning at the intersection of the centre lines of North Portland and Myrtle avenues, thence along the centre line of Myrtle avenue to Waverly avenue, thence along the centre line of Waverly avenue to Park avenue, thence along the centre line of Park avenue to Washington avenue, thence along the centre line of Washington avenue of Flushing avenue to North Portland avenue, and thence along the centre line of North Portland avenue to the point of beginning.

Court-room, No. 495 Gates avenue.

Gerard B. Van Wart, Justice. Franklin B. Van Wart, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m.

Third District—Embraces the Thirteenth, Four-

Third District—Embraces the Thirteenth, Four-teenth, Fifteenth, Sixteenth, Seventeenth, Eigh teenth and Nineteenth Wards. and that portion of the Twenty-sevent Ward lying northwest of the centre line of Starr street between the boundary line of Queens County and the centre line of Central

avenue, and northwest of the centre line of Suydam street between the centre lines of Central and Bushwick avenues, and northwest of the centre line of Willoughby avenue, between the centre lines of Bushwick avenue and Broadway. Court-house, Nos. 6, and 8 Lee avenue, Brooklyn.

Philip D Meagher, Justice. John W. Carpenter, Clark.

Clerk's Office open from 9 a. m. to 4 p. m. Court opens at 9 a. m.

Fourth District—Embraces the Twenty-fourth and Twenty-fifth Wards, that portion of the Twenty-first and Twenty-first Wards, that portion of the Twenty-first and Twenty-third Wards lying east of the centre line of Stuyvesant avenue and east of the centre line of Schenectady avenue, and that portion of the Twenty seventh Ward lying southeast of the centre line of Starr street between the boundary line of Queens and the centre line of Central avenue, and southeast of the centre line of Suydam street between the centre lines of Eushwick avenues. and south east of the centre line of Willoughby avenue between the centre lines of Bushwick avenue and Broadway. Court-room, No. 14 Howard avenue.

Thomas H. Williams, Justice. G. J. Wiederhold, Clerk. Milton I. Williams, Assistant Clerk. Clerk's Office open from 9 a. m. to 4 p. m.

Fifth District—Contains the Eighth, Thirtieth and Thirty-first Wards, and so much of the Twenty-second Ward as lies south of Prospect avenue, Courthouse, northwest corner of Fifty-third street and house, northwest corner of Fifty-third street and Third avenue. Cornelius Furgueson, Justice. Jeremiah J. O'Leary.

Clerk's Office open from 9 a. m. to 4 p. m. Clerk's Office open from 9 a. m. to 4 p. m. Telephone, 407 Bay Ridge.

Telephone, 407 Bay Ridge.

Sixth District—The Sixth District embraces the Ninth and Twenty-ninth Wards and that portion of the Twenty-second Ward north of the centre line of Prospect avenue; also that portion of the Eleventh and the Twentieth Wards beginning at the intersection of the centre lines of Bridge and Fulton streets; hence along the centre line of Fulton street to Flatbush avenue; thence along the centre line of Flatbush avenue to Atlantic avenue; thence along the centre line of Atlantic avenue to Washington avenue; thence along the centre line of Washington avenue; thence along the centre line of Park avenue to Waverly avenue; thence along the centre line of Park avenue; thence along the centre line of Hudson avenue; thence along the centre line of Johnson street to Bridge street, and thence along the centre line of Bridge street, and thence along the centre line of Bridge street to the point of beginning.

Justice, Lucien S. Bayliss. Charles P. Bible Clerk. Court-house, No. 611 Fulton street.

Seventh District—The Seventh District embraces the Twenty-sixth Twenty-eighth and Thirty-second

Alexander S. Rosenthal, Justice. Samuel F. Brothers, Clerk. Brothers, Clerk.
Court-house, corner Pennsylvania avenue and Fulton street (No. 31 Pennsylvania avenue).
Clerk's Office open from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Trial days, Tuesdays, Wednesdays, Thursdays and Fridays.
Jury Days: Wednesdays and Thursdays.
Telephone, 904 East New York.

#### Borough of Queens.

First District—First Ward (all of Long Island City formerly composing five wards). Court-room, St. Mary's Lyceum, Nos. 115 and 117 Fifth street, Long Island City.
Clerk's Office open from 9 a.m. to 4 p. m. each day, excepting Saturdays, closing at 12 m. Trial days, Mondays, Wednesdays and Fridays. All other business transacted on Tuesdays and Thursdays.
Thomas C. Kadien, Justice. Thomas F. Kennedy, Clerk.

Telephone, 2376 Greenpoint.

Second District—Second and Third Wards, which include the territory of the late Towns of Newtown and Flushing. Court-room, in Court-house of the late Town of Newtown, corner of Broadway and Court street, Elmhurst, New York. P. O. Address, Elmhurst, New York. William Rasquin, Jr., Justice. John E. Prendeville, Clerk. William Repper, Assistant Clerk. James B. Snediker, Stenographer. Clerk's Office open from 9 a. m. to 4 p. m. Telephone, 87 Newtown.

Third District—Fourth and Fifth Wards, comprising the territory of the former Towns and Villages of Jamaica, Far Rockaway and Rockaway Beach.

Beach.
James F. McLaughlin, Justice. George W.
Damon, Clerk.
Court-house, Town Hall, Jamaica,
Telephone, 180 Jamaica,
Clerk's Office open from q a. m. to 4 p. m.
Court held on Mondays, Wednesdays and Fridays

# Borough of Richmond.

First District—First and Third Wards (Towns of Castleton and Northfield). Court-room, former Village Hall, Lafayette avenue and Second street, New Brighton.

Thomas C. Brown, Justice. Anning S. Prall, Clerk.

Clerk's Office open from 9 a. m. to 4 p. m.

Telephone, 503 Tompkinsville.

Second District—Second, Fourth and Fifth Ward, (Towns of Middletown, Southfield and Westfield), Court-room, former Edgewater Village Hall, Staple-

Court-room, its description.

George W. Stake, Justice. Peter Tiernan, Clerk.
Clerk's Office open from 9 a. m. to 4 p. m.
Court opens at 9 a. m. Calendar called 10 a. m.
Court continued until close of business. Trial days
Mondays, Wednesdays and Fridays.
Telephone, 313 Tompkinsville.

# OFFICIAL BOROUGH PAPERS.

BOROUGH OF THE BRONX. "North Side News," "Harlem Reporter and Bronx Chronicle," "Bronx Independent."

BOROUGH OF RICHMOND. "Staten Islander," "Staten Island Star."

BOROUGH OF QUEENS. "Long Island Star" (First and Second Wards),
"Flushing Evening Journal" (Third Ward), "Long
Island Farmer" (Fourth Ward), "Rockaway
News" (Fifth Ward).

BOROUGH OF BROOKLYN.

"Brooklyn Eagle," "Brooklyn Times," "Brooklyn Citizen," "Brooklyn Standard-Union,"
"Brooklyner Freie Presse."

BOROUGH OF MANHATTAN.

"Tammany Times" (Harlem District), "Manhattan and Bronx Advocate" (Washington Heights, Morningside Heights and Harlem Districts), "New York Daily News."
Designated by Board of City Record June 19,

1906. Amended June 20, 1906; July 1, 1907; Septem-

OFFICIAL PAPERS.

Morning-"The Sun," "The New York Times." Evening-"The Globe," "The Evening Mail." Weekly—"Democracy," "Real Estate Record

German-"Staats-Zeitung."

Designated by the Board of City Record, January 22, 1906. Amended March 1, 1906, November 20, 1906, and February 20, 1907.

# CHANGE OF GRADE DAMAGE COMMISSION.

TWENTY-THIRD AND TWENTY-FOURTH WARDS.

DURSUANT TO THE PROVISIONS OF chapter 537 of the Laws of 1893 and the Acts amendatory thereof and supplemental thereto, notice is hereby given that meetings of the Commissioners appointed under said Acts will be held at the office of the Commission, Room 138, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City, on Mondays, Wednesdays and Fridays of each week, at 2 o'clock p. m., until further notice.

Dated New York City, October 12, 1907.

WILLIAM E. STILLINGS, GEORGE C. NORTON, LEWIS A. ABRAMS,

Commissioners.

LAMONT MCLOUGHLIN,

LAMONT McLoughlin, Clerk.

#### BOROUGH OF BROOKLYN.

OTICE IS HEREBY GIVEN THAT, IN accordance with the provisions of section 432 of the Charter of The City of New York, the following petitions, on file and ready for inspection, will be considered by the Local Board of the Flatbush District, at a meeting to be held in the office of the President of the Borough of Brooklyn, Room 2, Borough Hall, on

#### THURSDAY, DECEMBER 12, 1907.

at 2.30 p. m.

No. 1. Public Park—To alter the map or plan
of The City of New York by locating and laying
out as a public park the property bounded by
Pacific and Dean streets and Saratoga and Hop-

No. 1. Public Park—To alter the map or plan of The City of New York by locating and laying out as a public park the property bounded by Pacific and Dean streets and Saratoga and Hopkinson avenues.

No. 2. East New York Avenue—To alter the map or plan of The City of New York by reducing the width of East New York avenue, between the angle point west of Utica avenue and the eastern boundary line of the Twenty-ninth Ward, from 100 feet to 80 feet, by taking 10 feet from each side thereof.

No. 3. New York Avenue—To alter the map or plan of The City of New York by changing the grade on New York avenue, between President and Carroff streets.

No. 4. Union Street—To alter the map or plan of The City of New York by widening Union street, adding 12½ feet to each side thereof, between New York and Albany avenues, and 25 feet to the southerly side, between Albany avenue and Lincoln Terrace Park, and between Buffalo and East New York avenues; or No. 4a. Union Street—To alter the map or plan of The City of New York by widening Union street, adding 25 feet to the southerly side thereof, between New York avenue and Lincoln Terrace Park, and between Buffalo and East New York avenue and Lincoln Terrace Park, and between Buffalo and East New York avenue and Lincoln Terrace Park, and between Buffalo and East New York avenue and Lincoln Terrace Park, and between Buffalo and East New York avenue and Lincoln Terrace Park, and between Buffalo and East New York avenue, and of The City of New York by changing the grade of East Fifth street, between Caton avenue and Albamarle road.

No. 6. Change of Grade—To alter the map or plan of The City of New York by changing the grade of Kenmore place, between Woodruff and Caton avenue, for the City of New York by changing the grade of Kenmore place, between Woodruff and Caton avenue, for the present angle point east of Thirty-sixth street to East Fifth street, by laying out an extension of Fourteenth avenue, from The City of New York by changing the grade of the map or plan of The City of New Y

Eighth street, between Church avenue and Avenue C.

No. 12. East Eighth Street—To regulate, grade, set curb on concrete and lay cement sidewalks on East Eighth street, from Church avenue to Avenue C.

No. 13. East Eighth Street—To pave East Eighth street, between Church avenue and Avenue C, with asphalt on concrete foundation.

No. 14. Canarsie Lane—To alter the map or plan of The City of New York by changing the grade of Canarsie lane, between Flatbush and Schenectady avenues, and intersecting streets.

No. 15. East Ninth Street—To open East Ninth street, between Avenue—To open Seventeenth avenue, from West street to the line between the former towns of Flatbush and New Utrecht.

tween the former towns of Flatbush and New Utrecht.
No. 17. Third Street—To open Third street, from Eighteenth avenue to Foster avenue.
No. 18. Robinson Street—To amend resolution of July 6, 1905, initiating proceedings to open Robinson street, between Rogers and New York avenues, by extending the limits of said proceedings to read "Between Flatbush and New York avenues."

No. 19. East Twenty-third Street—To amend resolution of November 1, 1906, initiating proceedings to open East Twenty-third street, from a point about 200 feet north of Beverley road to Flatbush avenue, by excluding from the provisions thereof that portion of East Twenty-third street lying between Canarsie Iane and a point about 220 feet north of Beverley road.

No. 20. East Thirty-seventh Street—To amend resolution of January 30, 1907 initiating proceedings to open East Thirty-seventh Street, from Paerdegat avenue to Flatlands avenue, by excluding from the provisions thereof that portion of East Thirty-seventh street lying between the southerly side of Avenue H and the southern boundary line of the property of the Long Island Railroad Company.

No. 21. Newkirk Avenue—To amend resolution of May 31, 1906, initiating proceedings to open Newkirk avenue, between Brooklyn avenue and East Twenty-sixth street, by excluding from the provisions thereof that portion of Newkirk avenue lying between East Twenty-sixth street and Nostrand avenue.

No. 22. Canarsie Lane—To open Canarsie lane, from Flatbush avenue to Schenectady avenue.

No. 23. Rockaway Parkway—To open Rock-

No. 22. Canarsie Lane—To open Canarsie lane, from Flatbush avenue to Schenectady avenue.

No. 23. Rockaway Parkway—To open Rockaway parkway, from Buffalo avenue to the bulkhead line of Jamaica Bay, where not already legally open, and excepting the land occupied by the tracks of the Long Island Railroad and of the Brooklyn and Rockaway Beach Railroad.

No. 24. East Seventeenth Street—To open East Seventeenth street, from Caton avenue to Church avenue.

No. 25. Avenue I—To rescind resolution of September 27, 1905, initiating proceedings to open Avenue I, between Flatbush avenue and East Thirty-fifth street.

No. 26. Albemarle Road—To amend resolution of November 1, 1906, initiating proceedings to open Albemarle road, from West street to Ocean parkway, excepting the property occupied by the tracks of the Prospect Park and Coney Island Railroad, by excepting from the provisions thereof that portion of said Albemarle road lying between East Tbird street and East Fifth street.

No. 27. East Second Street—To amend proceedings pending to open East Second street, from Greenwood avenue to Avenue F, by excluding from the provisions thereof that portion of East Second street lying beween Avenue E and Avenue F.

BIRD S. COLER,

President, Borough of Brooklyn.

BIRD S. COLER, President, Borough of Brooklyn. CHARLES FREDERICK ADAMS, Secretary.

NOTICE IS HEREBY GIVEN THAT, IN accordance with the provisions of section 432 of the Charter of The City of New York, the following matter will be considered by the Bay Ridge, Flatbush and Bushwick Districts Local Boards, at a joint meeting to be held in the office of the President of the Borough, Room 2, Borough Hall, on

#### THURSDAY, DECEMBER 12, 1907,

at 2.30 p, m.:

Kings Highway—To alter the map or plan of
The City of New York by locating and laying
out Kings highway for a width of 60, 70, 80 or
100 feet, from Twenty-second avenue to Eastern parkway extension.

President of the Borough CHARLES FREDERICK ADAMS, Secretary,

NOTICE IS HEREBY GIVEN THAT, IN accordance with section 432 of the Characcordance with section 432 of the Charter of The City of New York, the following petitions, on file and ready for inspection, will be presented to the Local Board of the Bushwick District, at a meeting to be held in the office of the President of the Borough of Brooklyn, Room No. 2, Borough Hall, on

# THURSDAY, DECEMBER 12, 1907,

at 3 p. m.;
No. 1. Change of Grade—To alter the map or plan of The City of New York by changing the grade of Metropolitan avenue, between Grand Street Bridge and Newtown Creek Bridge; of Gardner avenue, between Meadow street; and Grand street; of Ten Eyek street, between Stewart avenue and Newtown creek, and of Grand street, between Grand Street Bridge and Variek avenue.

street, between Grand Street Bridge and Varies avenue.

No. 2. New Lots Read—To alter the map or plan of The City of New York by striking therefrom New Lots road, between Sutter and Blake avenues.

No. 3. Livonia Avenue—To open Livonia avenue, from Stone avenue to Hinslale street, and from Van Sicklen avenue to New Lots avenue, excepting the land occupied by the tracks of the Long Island Railroad and of the Bro.klyn and Rockaway Beach Railroad.

No. 4. Fountain Avenue—To open Fountain avenue, from Belmont avenue to Vandalia avenue, use the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the st

No. 5. Dumont Avenue—To construct a sewer Dumont avenue, between Hinsdale street and

No. 5. Dimension of the No. 6. Halsey Street—To construct sewer basins at the northerly and easterly corners of Halsey street and Irving avenue.

No. 7. Dumont Avenue—To construct a sewer in Dumont avenue, between Van Sinderen and Hinsdale avenues.

No. 8. Ridgewood Avenue—To construct a sewer in Ridgewood avenue, between Norwood and Hale avenues.

No. 9. Blake Avenue—To construct a sewer in Ridgewood avenue, between Hinsdale street and Williams avenue.

sewer in Kingewood and Hale avenues.

No. 9. Blake Avenue—To construct a sewer in Blake avenue, between Hinsdale street and Williams avenue.

No. 10. Miller Avenue—To open Miller avenue, from Riverdale avenue to Vandalia avenue.

No. 11. Miller Avenue—To construct a sewer in Miller avenue, between New Lots and Wortman avenues.

in Miller avenue, between New Lots and Wortman avenues.

No. 12. Van Sicklen Avenue—To open Van Sicklen avenue, from New Lots road (avenue) to Vandalia avenue.

No. 13. Van Sicklen Avenue—To construct a sewer in Van Sicklen avenue, between New Lots road and Wortman avenue.

No. 14. Vermont Street—To open Vermont street, from New Lots road (avenue) to Vandalia avenue.

No. 15. Vermont Street—To construct a sewer in Vermont street, between New Lots and Wortman avenue.

No. 16. Bradford Street—To open Bradford

Man avenues.

No. 16. Bradford Street—To open Bradford street, from New Lots road (avenue) to Vandalia avenue.

No. 17. Bradford Street—To construct a sewer in Bradford street, between New Lots and Wortman avenues.

in Bradford street, between New Lots and Wortman avenues.

No. 18. Stanley Avenue—To open Stanley avenue, between Louisiana and Fountain avenues.

No. 19. Stanley Avenue—To construct a sewer in Stanley avenue, between Alabama avenue and Hendrix street.

No. 20. Vienna Avenue—To construct a sewer in Vienna avenue, between Alabama avenue and Hendrix street.

No. 21. Fanchon Place—To construct a sewer basin at the northwest corner of Fanchon place and Jamaica avenue.

No. 22. Wyona Street—To open Wyona street from New Lots road to Vandalia avenue.

No. 23. Wyona Street—To construct a sewer in Wyona street, between New Lots and Wortman avenues.

No. 23. Wyona Street—To construct a sewer in Wyona street, between New Lots and Wortman avenues.

No. 24. Van Sinderen Avenue—To construct sewer basins on Van Sinderen avenue, at the northwest corner of Liberty avenue; at the northwest corner of Glenmore avenue and at the northwest corner of Pitkin avenue.

No. 25. Montauk Avenue—To construct sewer basins on Montauk avenue, at the southeast corner of Blake avenue, and at the northwest corner of New Lots road.

No. 26. Montauk Avenue—To pave Montauk avenue with asphalt on concrete foundation, between Pitkin avenue and New Lots road.

No. 27. Suydam Street—To regulate and grade between courtyard lines, set cement curb, lay cement sidewalks and pave with asphalt on concrete foundation, Suydam street, between Irving and St. Nicholas avenues, excepting the portion occupied by the Long Island Railroad.

No. 28. Willoughby Avenue—To construct a sewer in Willoughby avenue, between St. Nicholas avenue and the borough line.

No. 29. Willoughby Avenue—To regulate and made between curtyard lines, set cement curb.

olas avenue and the borough line.

No. 29. Willoughby Avenue—To regulate and grade between courtyard lines, set cement curb, lay cement sidewalks and pave with asphalt on concrete foundation Willoughby avenue, between Irving and St. Nicholas avenues, excepting the portion occupied by the Long Island Railroad.

No. 30. Decatur Street—To regulate and grade between courtyard lines, set bluestone, medina or cement curb, lay cement sidewalks where not already laid on Decatur street, between Knickerbocker avenue and the borough line.

31. Decatur Street—To pave Decatur with asphalt on concrete foundation, be-Knickerbocker avenue and the borough

line.

No. 3z. Sheffield Avenue—To amend resolution of October 31, 1906, initiating proceedings to open Sheffield avenue, from Pitkin avenue to Blake avenue, and from Livonia avenue to New Lots avenue, by excluding from the provisions thereof that portion of Sheffield avenue lying between Pitkin and Blake avenues.

No. 2. Sackman Street—To regulate grade.

thereof that portion of Sheffield avenue lying between Pitkin and Blake avenues.

No. 33. Sackman Street—To regulate, grade, set bluestone, medina or cement curb and lay cement sidewalks on Sackman street, between Livonia avenue and New Lots road.

No. 34. Sackman Street—To pave Sackman street with asphalt on concrete foundation between Livonia avenue and New Lots road.

No. 35. Havens Place (Union Avenue)—To grade to the level of the curb the vacant lot described as follows: Havens place (Union avenue)—and south side of Havens place, between Railroad and Lincoln avenues; east side of Railroad avenue, between Havens place and Ridgewood avenue; north side of Ridgewood avenue, between Railroad and Lincoln avenues; Lincoln avenue and the west side of Lincoln avenue, between Havens place and Ridgewood avenue, known as No. 1, Block 4121.

No. 36. Havens Place (Union Avenue)—To grade to the level of the curb the vacant lot described as follows: Havens place (Union avenue) and south side of Havens place (Union avenue) and Nichols avenues; Lincoln avenue, east side, between Havens place and Ridgewood avenue; Ridgewood avenue, north side. between Lincoln and Nichols avenues; Nichols avenue, west side, between Havens place and Ridgewood avenue, known as No. 51. Block 4121.

No. 37. Glenmore Avenue—To lay cement sidewalks opposite the lot lying on the north side

No. 37. Glenmore Avenue—To lay cement sidewalks opposite the lot lying on the north side of Glenmore avenue, between Junius street and Van Sinderen avenue, known as No. 1, Block 3666.

76. No. 38. Glenmore Avenue—To lay cement side-lks opposite the lot lying on the south side Glenmore avenue, between Junius street and n Sinderen avenue, known as No. 1, Block

Van Sinderen avenue, shown as 3713.

No. 39. Palmetto Street—To lay cement sidewalks opposite the lots lying on the southeast side of Palmetto street, between Knickerbocker and Irving avenues, and on the northeast side of Knickerbocker avenue, between Palmetto street and Putnam avenue, known as Nos. 1, 4. 8, 9, 30, 107 to 112, inclusive; 114, 120, 124, 127, 128, 130, 131 and 132, Block 3362.

No. 1 Liberty Avenue—To lay cement side-

127, 128, 130, 131 and 132, block 3302.

No. 40. Liberty Avenue—To lay cement sidewalks opposite the following-described lots on Liberty avenue: On the north side, between Van Sinderen and Snediker avenues, known as Nos. 60 to 67, inclusive, Block 3680, and on the south side, between Van Sinderen and Snediker avenues, known as Nos. 12, 13, 15 and 21, Block 3607.

No. 41. Junius Street—To open Junius street, from Dumont avenue to the bulkhead line of Fresh creek, excepting the land occupied by the tracks of the Long Island Railroad.

No. 42. Stockholm Street—To lay cement sidewalks opposite the lot lying on the southeast side of Stockholm street, between Irving and Wyckoff avenues, known as No. 18, Block 3259.

No. 43. St. Nicholas Avenue—To grade to the surface of the sidewalk to a line ro feet from the building line the lots lying on the northeast side of St. Nicholas avenue, between Bleecker and Ralph streets, known as Nos. 6 and 7, Block 3312.

and Ralph streets, known as Nes. 6 and 7, Block 3312.

No. 44. St. Nicholas Avenue—To inclose with a wooden rail fence 6 feet high, the lots lying on the northeast side of St. Nicholas avenue, between Bleecker and Ralph streets, known as Nos. 6 and 7, Block 3312.

No. 45. Fulton Street—To inclose with a wooden rail fence 6 feet high, the lots lying on the south side of Fulton street, between New Jersey avenue and Vermont street, and on the east side of New Jersey avenue, known as Nos. 12, 13, 14, 15 and 17, Block 3671.

No. 46. Palmetto Street—To inclose with a wooden rail fence 6 feet high, the lots lying on the southeast side of Palmetto street, between Knickerbocker and Irving avenues, and on the northeast side of Knickerbocker avenue, between Palmetto street and Putnam avenue, known as Nos. 1, 4, 8, 9, 30, 107, 108, 109, 110, 120, 124, 127, 128, 130, 131 and 132, Block 3362.

No. 47. Myrtle Avenue—To inclose with a wooden rail fence 6 feet high, the lots lying on the north side of Myrtle avenue, between Troutman street and Bushwick avenue, known as Nos. 6 and 8, Block 3182.

No. 48. Milford Street—To inclose with a wooden rail fence 6 feet high, the lots lying on the oral fence 6 feet high, the lots lying on the north side of Myrtle avenue, known as Nos. 6 and 8, Block 3182.

o and 8, Block 3182.

No. 48. Milford Street—To inclose with a wooden rail fence 6 feet high, the lots lying on the east side of Milford street, between Glemmore and Pitkin avenues; on the west side of Logan street, between Glemmore and Pitkin avenues, and on the south side of Glemmore avenue, between Milford and Logan streets, known as Nos. 7, 9, 11, 13, 23, 28, 29, 31, 32, 33 and 34, Block 4208.

No. 40, Greene Street, To inclose with

Block 4208.

No. 49. Greene Street—To inclose with a wooden rail fence 6 feet high, the lot lying on the northwest side of Greene avenue, between Hamburg and Myrtle avenues, known as No. 33, Block 3287.

No. 50. Mecker Avenue—To inclose with a wooden rail fence 6 feet high, the lots lying on the southeast side of Mecker avenue, between southwest side of Morgan avenues, and on the southwest side of Morgan avenue, between

Meeker avenue and Lombardy street, known as Nos. 30, 31 and 32, Block 2817.

No. 51. Meeker Avenue—To inclose with a wooden rail fence 6 feet high, the lots lying on the southeast side of Meeker avenue, between Morgan and Vandervoort avenues, and on the northeast side of Morgan avenue, between Meeker avenue and Anthony street, known as Nos. 1, 2, 3 and 9, Block 2810.

No. 52. Herbert Street—To inclose with a wooden rail fence 6 feet high, the lot lying on the northwest side of Herbert street, between Humboldt and North Henry streets, known as No. 29, Block 2827.

No. 53. Bleecker Street—To inclose with a wooden rail fence 6 feet high, the lot lying on the southeast side of Bleecker street, between Wyckoff and St. Nicholas avenues, known as Nos. 18 and 19, Block 3311.

No. 54. Van Sinderen Avenue—To regulate and grade between courtyard lines, set bluestone, medina or cement curb and lay cement sidewalks on Van Sinderen avenue, between East New York and Pitkin avenues.

BIRD S. COLER, President of the Borough. CHARLES FREDERICK ADAMS,
Borough Secretary.

OTICE IS HEREBY GIVEN THAT, IN accordance with the provisions of section 432 of the Charter of The City of New York, the following petitions, on file and ready for inspection, will be presented to the Local Board of The Heights District, at a meeting to be held in the office of the President of the Borough of Brooklyn, in Room 2, Borough Hall, on

#### THURSDAY, DECEMBER 12, 1907,

at 2.30 p. m.

No. 1. Public Playground—To alter the map or plan of The City of New York by locating and laying out as a public playground the property fronting on the west side of Columbia street, between Warren and Harrison streets.

No. 2. Public Place—To alter the map or plan of The City of New York by locating and laying out as a public place, the property bounded by Willoughby, Fulton and Pearl streets.

No. 3. Application of Thomas Marrion, of No. 580 Tenth street, Borough of Brooklyn, City of New York, for a stand at the southwest corner of Fulton street and Elm place.

BIRD S. COLER, President of the Borough. CHARLES FREDERICK ADAMS.
Borough Secretary.

N OTICE IS HEREBY GIVEN THAT, IN OTICE IS HEREBY GIVEN THAT, IN accordance with the provisions of section 432 of the Charter of The City of New York, the following petitions, on file and ready for inspection, will be considered by the Local Board of the Bedford District, at a meeting to be held in the office of the President of the Borough of Brooklyn, Room 2, Borough Hall, on

#### THURSDAY, DECEMBER 12, 1907,

at 2.30 p. m.

No. 1. Spencer Street—To enclose with a wooden rail fence 6 feet high the lot lying on the east side of Spencer street, between Park and Myrtle avenues, known as No. 48, Block 1735.

No. 2. Emerson Place—To enclose with a wooden rail fence 6 feet high the lot lying on the east side of Emerson place, between Willoughby and DeKalb avenues, known as No. 12, Block 1923.

BIRD S. COLER.

BIRD S. COLER,
President of the Boroug
CHARLES FREDERICK ADAMS,
Borough Secretary.

Office of the President of the Borough of Brooklyn, Room 2, Borough Hall, Borough of Brooklyn, The City of New York.

S EALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock

#### WEDNESDAY, DECEMBER 11, 1907. Borough of Brooklyn.

No. 1. FOR REGULATING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF EIGHTLETH STREET, FROM TWENTY-SECOND AVENUE TO TWENTY-THIRD AVENUE.

The Engineer's estimate of the quantities is as

sillows:
2,426 square yards of asphalt pavement.
340 cubic yards of concrete.
Time for the completion of the work and the all performance of the contract is twenty (20) torking days.
The amount of security required is Two Thousand Delire.

full performance of the contract is twenty (20) working days.

The amount of security required is Two Thousand Dollars.

No. 2. FOR REGULATING AND PAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF GRAFTON STREET, FROM PITKIN AVENUE TO SUTTER AVENUE.

The Engineer's estimate of the quantities is as follows:
2,965 square yards of asphalt pavement,
415 cubic yards of concrete.

Time for the completion of the work and the full performance of the contract is twenty-five (25) working days.

The amount of security required is Two Thousand Two Hundred Dollars.

No. 3. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON PRESENT PAVEMENT AS A FOUNDATION THE ROADWAY OF THROOP AVENUE, FROM WILLOUGHBY AVENUE TO HART STREET.

The Engineer's estimate of the quantities is as follows:

The Engineer's estimate of the quantities is as follows:

ollows:
1,060 square yards of asphalt pavement.
1,060 square yards of old stone pavement to
be relaid.
170 linear feet of new curbstone.
300 linear feet of old curbstone, to be reset.
4 noiseless covers and heads complete for sewer manholes.
Time for the completion of the work and the all performance of the contract is twenty (20) orking days.
The amount of security required is Eight Hunred Dollars.

The amount of security required is Eight Hundred Dollars.
No. 4. FOR REGULATING, GRADING AND PAVING WITH GRANITE PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF WOLCOTT STREET, FROM DWIGHT STREET TO OTSEGO STREET.
The Engineer's estimate of the quantities is as follows:

follow

ows:
400 square yards of granite block pavement,
with tar and gravel joints.
75 cubic yards of concrete.
190 linear feet of new curbstone, to be set
in concrete.
170 cubic yards of earth excavation.
30 cubic yards of earth filling, not to be bid
for.

780 square feet of cement sidewalk. 315 square feet of new granite bridgestones

Time for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount of security required is Eight Hundred Dollars.

No. 5. FOR GRADING A LOT ON THE NORTHEAST CORNER OF TENTH AVENUE AND SHERMAN STREET, KNOWN AS LOT NO 1. BLOCK 1115.

The Engineer's estimate of the quantities is as follows:

389 cubic yards of earth excavation.

The Engineer's estimate of the quantities is as follows:

389 cubic yards of earth excavation.

163 cubic yards of earth filling, not to be bid for.

Time for the completion of the work and the full performance of the contract is ten (10) working days.

The amount of security required is One Hundred Dollars.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per linear foot, square yard, cubic yard, square foot or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Highways, the Borough of Brooklyn, Room 15, Municipal Building.

BIRD S. COLER, President.

BIRD S. COLER, President.

Dated November 26, 1907. n27,d11

M See General Instructions to Bidders on the last page, last column, of the "City Record."

Office of the President of the Borough of Brooklyn, Room 2, Borough Hall, Borough of Brooklyn, The City of New York.

S EALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock

#### WEDNESDAY, DECEMBER 11, 1907.

\$14,343 25

The time allowed for the completion of the work and full performance of the contract will be seventy-five working days.

The amount of security required will be Seven Thousand Five Hundred Dollars.

BIRD S. COLER, President.

Dated November 26, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock

#### WEDNESDAY, DECEMBER 11, 1907.

FOR FURNISHING AND ERECTING 100
HEADSTONES OVER THE GRAVES-OF DECEASED VETERAN UNION SOLDIERS,
SAILORS AND MARINES, AS PROVIDED
BY LAW IN THE SEVERAL CEMETERIES
SITUATED IN THE COUNTIES OF KINGS
AND QUEENS.
The time allowed for making and completing
the headstones will be four months.
The amount of security required will be Seven
Hundred and Fifty Dollars (\$750).
The bidder will state the price of each item or
article contained in the specifications or schedules herein contained or hereto annexed, by
which the bids will be tested.
The bids will be compared and the contract
awarded at a lump or aggregate sum.
Delivery will be required to be made at the
time and in the manner and in such quantities
as may be directed.
Blank forms and further information may be
obtained and the plans and drawings may be
seen at the office of the Bureau of Public Buildings and Offices, Room 29, Municipal Building,
Borough of Brooklyn.

BIRD S. COLER,
President.

BIRD S. COLER, President. Dated November 26, 1907. n27,d11

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

Office of the President of the Borough of Brooklyn, Room 2, Borough Hall, Borough of Brooklyn, The City of New York.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Brooklyn at the above office until 11 o'clock

# WEDNESDAY, DECEMBER 4, 1907. Borough of Brooklyn.

No. 1. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF ENGERT AVENUE, FROM GRAHAM AVENUE TO HUMBOLDT STREET.

The Engineer's estimate of the quantities is as follows:

1,970 square yards of asphalt pavement,
20 square yards of old stone pavement, to
be relaid,
280 cubic yards of concrete.
570 linear feet of new curbstone, to be set

in concrete. 500 linear feet of old curbstone, to be reset

5 noiseless covers and heads, complete, for sewer manholes.

Time for the completion of the work and the full performance of the contract is twenty (20) working days.

The amount-of security required is One Thousand Six Hundred Dollars.

No. 4. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF MORGAN AVENUE, FROM NASSAU AVENUE TO DRIGGS AVENUE.

The Engineer's estimate of the quantities is as follows:
2,930 square yards of asphalt pavement.

The Engineer's estimate of the quantities is as follows:

2,930 square yards of asphalt pavement.

10 square yards of old stone pavement, to be relaid.

410 cubic yards of concrete.

1,360 linear feet of new curbstone, to be set in concrete.

400 linear feet of old curbstone, to be reset in concrete.

7 noiseless covers and heads, complete, for sewer manholes.

Time for the completion of the work and the full performance of the contract is thirty (30) working days.

The amount of security required is Two Thousand Eight Hundred Dollars.

No. 5. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY.

OF SKILLMAN STREET, FROM FLUSHING AVENUE. TO DEKALB AVENUE.

The Engineer's estimate of the quantities is as follows:

The Engineer's estimate of the quantities is as follows:
7,370 square yards of asphalt pavement.
10 square yards of old stone pavement, to be relaid,
1,020 cubic yards of concrete.
3,685 linear feet of new curbstone, to be set in concrete.
1,840 linear feet of old curbstone, to be reset in concrete.
22 noiseless covers and heads, complete, for sewer manholes.
Time for the completion of the work and the full performance of the contract is fifty (50) working days.
The amount of security required is Seven Thousand Five Hundred Dollars.
No. 6. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF TEN EYCK STREET, FROM UNION AVENUE TO A POINT 130 FEET WEST OF BUSHWICK AVENUE.
The Engineer's estimate of the quantities is as follows:
8,400 square yards of old stone pavement, to

The Engineer's estimate of the quantities is as follows:

8,400 square yards of asphalt pavement.
30 square yards of old stone pavement, to be relaid.

1,170 cubic yards of concrete.
3,840 linear feet of new curbstone, to be set in concrete.

1,200 linear feet of old curbstone, to be reset in concrete.
24 noiseless covers and heads, complete, for sewer manholes.

Time for the completion of the work and the full performance of the contract is forty (40) working days.

The amount of security required is Nine Thousand Dollars.
No. 7. FOR GRADING LOTS ON THE SOUTH SIDE OF FORTY-SEVENTH STREET, BETWEEN SECOND AVENUE AND THIRD AVENUE, KNOWN AS LOTS NOS. 22 AND 23, BLOCK 763.

The Engineer's estimate of the quantities is as follows:
30 cubic yards of earth excavation.

follows:

30 cubic yards of earth excavation,
380 cubic yards of earth filling, to be furnished.

Time for the completion of the work and the full performance of the contract is ten (10) working days.

The amount of security required is One Hundred Dollars.

No. 8. FOR FURNISHING AND DELIVERING FOUR HUNDRED (400) CORDS OF HARD WOOD.

Time for the delivery of the materials and the

HARD WOOD.

Time for the delivery of the materials and the full performance of the contract is by or before December 31, 1908.

The amount of security required is Eight Hundred Dollars.

No. 9. FOR REGULATING AND REPAVING WITH ASPHALT PAVEMENT ON A CONCRETE FOUNDATION THE ROADWAY OF PROSPECT AVENUE, FROM SEVENTH AVENUE TO A POINT 205 FEET EAST OF THE EASTERLY BUILDING LINE OF SEVENTH AVENUE.

The Engineer's estimate of the quantities is as follows:

follows:
1,260 square yards of asphalt pavement.
210 cubic yards of concrete.
3 noiseless covers and heads, complete, for sewer manholes.
Time for the completion of the work and the full performance of the contract is fifteen (15) working days.
The amount of security required is One Thousand Dollars.
The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per cubic yard, linear foot, square yard, yard or other unit of measure, by which the bids will be tested.

The bids will be compared and the contract awarded at a lump or aggregate sum for each

awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, Room No. 14, Municipal Building, the Borough of Brooklyn.

BIRD S. COLER.

BIRD S. COLER, President.

n20,d4 to See General Instructions to Bidders on the last page, last column, of the "City Record."

#### DEPARTMENT OF DOCKS AND FERRIES.

DEPARTMENT OF DOCKS AND FERRIES, PIER "A," NORTH RIVER, NEW YORK, March 31, 1904. T HE COMMISSIONER HAS FIXED THE

THE COMMISSIONER HAS FIXED THE amounts of bonds required on contracts awarded by this Department, as follows:

On all contracts for supplies, 40 per cent. of the estimated cost;
On all contracts, other than contracts for supplies, where the estimated cost is not over \$200,000, 40 per cent. of the estimated cost;
On all contracts, other than contracts for supplies, where the estimated cost is over \$200,000, but not over \$1,000,000, 25 per cent. of the estimated cost;
On all contracts, other than contracts for supplies, where the estimated cost is over \$1,000,000, 20 per cent. of the estimated cost is over \$1,000,000, 20 per cent. of the estimated cost.

JOSEPH W. SAVAGE,
Secretary.

#### MUNICIPAL CIVIL SERVICE COMMISSION.

MUNICIPAL CIVIL SERVICE COMMISSION, No BROADWAY, NEW YORK, November 29, 1907. PUBLIC NOTICE IS HEREBY GIVEN that the time for receiving applications for the position of

GARDENER

has been extended until MONDAY, DECEMBER 30, 4 P. M.
The examination has been postponed from December 23, 1907, to WEDNESDAY, JANUARY 22, 1908.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, November 29, 1907. NOTICE IS HEREBY GIVEN THAT A public hearing will be had before the Municipal Civil Service Commission on

#### THURSDAY, DECEMBER 12, 1907

e p. m., in Room 421, fourth floor, No. adway, on the question of continuing tice of giving credit in promotion exam s in the Police and Fire Departments als, commendations, honorable mention, posit etc.

of merit, etc.

Members of both departments are invited to be present at this hearing.

F. A. SPENCER,
Secretary.

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MUNICIPAL CIVIL SERVICE COMMISSION, NO. 299 BROADWAY, NEW YORK, November 27, 1907.

D UBLIC NOTICE IS HEREBY GIVEN that applications will be received from WEDNESDAY, NOVEMBER 27, UNTIL 4 P. M. WEDNESDAY, DECEMBER 11, 1907, for the position of

The examination will be held on

TUESDAY, JANUARY 7, 1908, at 10 a. m. 

The percentage required is 75 on the technical paper and 70 on all.
Vacancies constantly occur.
The salary is \$720 to \$900 per annum.
The minimum age is 18 years.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, October 28, 1907.

D UBLIC NOTICE IS HEREBY GIVEN that applications will be received from MONDAY, OCTOBER 28, 1907, UNTIL 4 P. M., MONDAY, NOVEMBER 11, 1907, for the positions of

STATIONARY ENGINEER AND JANITOR-ENGINEER.

The examination will be held on FRIDAY, DECEMBER 20, 1907,

at 10 a. m. The subjects and weights of the examination are as follows: Experience . Mathematics

Experience 3
Mathematics 1
A percentage of 70 will be required.
The examination for these positions will be identical, and certification for either position will be made from the resulting eligible list.
A medical examination will precede the mental.
Vacancies are constantly occurring.
The salary is \$750 per annum and up.
The minimum age is 21 years.
FRANK A. SPENCER,
Secretary.
12.d20

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, NOVEMBER 1, 1907.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from FRIDAY, NOVEMBER 1, UNTIL 4 P. M. MONDAY, DECEMBER 30, 1907, for the posi-

GARDENER. The examination will be held on

WEDNESDAY, JANUARY 22, 1908, at 10 a. m. The subjects and weights of the examination e as follows:

pecial .....xperience

MUNICIPAL CIVIL SERVICE COMMISSION, No. 229 BROADWAY, NEW YORK, October 31, 1907. P UBLIC NOTICE IS HEREBY GIVEN that applications will be received from THURSDAY, OCTOBER 31, UNTIL 4. P. M., WEDNESDAY, NOVEMBER 27, 1907, for the

TOPOGRAPHICAL DRAUGHTSMAN. The examination will be held on

FRIDAY, DECEMBER 27, 1907,

at 10 a. m.

The subjects and weights of the examination are as follows:
Technical 5
Experience 2
Mathematics 2
Neathess 1
The percentage required is 75 on the technical paper and 70 on all.

Vacancies constantly occur.

The salary is \$1,200 per annum and up.
The minimum age is 21 years.
The provision of clause 12 of Rule VII., to
the effect that "no person who has entered any
examination for appointment to a competitive
position and failed therein or who has withdrawn therefrom, shall be admitted within nine
months from the date of such examination to
a new examination for the same position," is
waived so far as it applies to this examination.

FRANK A. SPENCER,
Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, NEW YORK, October 29, 1907. DUBLIC NOTICE IS HEREBY GIVEN that applications will be received from TUESDAY, OCTOBER 29, UNTIL 4 P. M., TUESDAY, NOVEMBER 26, 1907, for the position of

STRUCTURAL STEEL DRAUGHTSMAN. The examination will be held on

TUESDAY, DECEMBER 17, 1907.

The subjects and weights of the examination are as follows:
Technical 5
Experience 2
Mathematics 2
Neatness 1
The percentage required is 75 on the technical paper and copy all

FRANK A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, No. 299 BROADWAY, CITY OF NEW YORK.

BROADWAY, CITY OF NEW YORK.

DUBLIC NOTICE WILL BE GIVEN OF all competitive examinations two weeks in advance of the date upon which the receipt of applications for any scheduled examination will close. Applications will be received for only such examinations as are scheduled.

When an examination is advertised, a person desiring to compete in the same may obtain an application blank upon request made in writing or by personal application at the office of the Commission.

All notices of examinations will be posted in the office of the Commission, City Hall, Municipal Building, Brooklyn, and advertised in the CITY RECORD for two weeks in advance of the date upon which the receipt of applications will close for any stated position.

Public notice will also be given by advertisement in most of the City papers.

Wherever an examination is of a technical character, due notice is given by advertisement in the technical journals appertaining to the particular profession for which the examination is called.

Such notices will be sent to the daily papers

in the tricular profession for which the examination is called.

Such notices will be sent to the daily papers as matters of news, and to the General Post office and stations thereof. The scope of the examination will be stated, but for more general information application should be made at the office of the Commission.

Unless otherwise specifically stated, the mini mum age requirement for all positions is 21.

WILLIAM F. BAKER,

President;

R. ROSS APPLETION,

FRANK. L. POLK,

Commissioners.

FRANK A. SPENCER, Secretary.

# FIRE DEPARTMENT.

HEADQUARTERS OF THE FIRE DEPARTMENT OF THE CITY OF NEW YORK, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Fire Commissioner at the above office until 10.30 o'clock a. m. on

#### TUESDAY, DECEMBER 10, 1907. Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVERING FOUR HUNDRED TONS OF ANTHRACITE COAL FOR COMPANIES SOUTH OF FIFTY-NINTH STREET.

The time for the delivery of the articles, materials and supplies and the performance of the contract is thirty (30) days.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total. The bids will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Fire Department, Nos. 157 and 159 East Sixty-seventh street, Manhattan.

FRANCIS J. LANTRY,

FRANCIS J. LANTRY, Fire Commissione

Dated November 27, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

HEADQUARTERS OF THE FIRE DEPARTMENT OF THE CITY OF NEW YORK, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, BOROUGH OF MANHATTAN, NEW YORK, NOVEMBER 22, 1907.

JACOB DOBLIN, AUCTIONEER, ON BEhalf of the Fire Department, City of New York, will offer for sale at public auction to the highest bidder on

WEDNESDAY, DECEMBER 4, 1907

at the Repair Shops, northeast corner of Twelfth avenue and Fifty-sixth street, Borough of Manhattan, at 10 a. m. on said date, the following condemned property of the Department:

Lot 1—One Hayes hook and ladder truck, registered No. 42.

Lot 2—One two-wheel hand truck (from Engine No. 49).

Lot 3—One second size Amoskeag steam fire engine, registered No. 362. Lot 4—One two-wheel reel tender, registered No. 8.

Lot 4—One two-wheel reel tender, registered No. 8.

Lot 5—One lot of old single ladders.
Lot 6—One lot of old single ladders.
Lot 7—One lot of old extension ladders.
Lot 8—One lot of old wheels.
Lot 9—One lot of old rope (400 pounds, more or less).
Lot 10—One lot of eld canvas hose. 25

Lot 9—One lot of old rope (400 pounds, more or less).

Lot 10—One lot of old canvas hose, 25 lengths.

Lot 12—One lot of old canvas hose, 25 lengths.

Lot 13—One lot of old canvas hose, 25 lengths.

Lot 14—One lot of old canvas hose, 25 lengths.

Lot 15—One lot of old canvas hose, 25 lengths.

Lot 15—One lot of old canvas hose, 25 lengths.

Lot 16—One lot of canvas hose, 25 lengths.

lengths.
Lot 19—One lot of old canvas hose, 25 lengths.
Lot 16—One lot of canvas hose, 25 lengths.
Lot 18—One lot of canvas hose, 25 lengths.
Lot 18—One lot of old rubber hose, 30 lengths.
Lot 19—One lot of old rubber hose, 30 lengths.
Lot 19—One lot of old rubber hose, 25 lengths.
Lot 20—One lot of old rubber hose, 25 lengths.
Lot 21—One lot of old rubber hose, 31 lengths.
Lot 23—One lot of old suctions, 13 lengths.
Lot 23—One lot of old rubber tires (3,550 pounds, more or less).
Lot 25—One lot of old rubber valves (205 pounds, more or less).
Lot 25—One lot of old scrap rubber (660 pounds, more or less).
Lot 27—One lot of old harness.
Lot 29—One lot of old harness.
Lot 29—One lot of old scrap iron (8,000 pounds, more or less).
Lot 30—One lot of old scrap iron (8,000 pounds, more or less).
Lot 31—One lot of old axes (1,000 pounds, more or less).
Lot 32—One lot of old axes.
Lot 33—One lot of old picks.
Lot 33—One lot of old picks.
Lot 35—One lot of old picks.
Lot 35—One lot of old is parels.
Lot 35—One lot of old is parels.
Lot 35—One lot of old oil barrels.
Lot 37—One two-wheel reel jumper.
Each lot to be sold separately.
The right to reject all bids is reserved.
The highest bidder for each lot, in case the bid is accepted, will be required to pay for the same in cash at the time of sale (except Lots Nos. 9, 24, 25, 26, 29, 30 and 31, which must be paid for at the time of weighing and delivery), and must remove the same within twenty-four hours after the sale.

FRANCIS J. LANTRY,
Fire Commissioner.

## BELLEVUE AND ALLIED HOSPITALS.

BELLEVUE AND ALLIED HOSPITALS DEPARTMENT NEW YORK CITY, TWENTY-SIXTH STREET AND FIRST AVENUE, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the President of the Board of trustees at the above office until 3 p. m. on

MONDAY, DECEMBER 2, 1907

IOT—
No. 1. MEATS.
No. 2. FISH AND SHELL FISH.
No. 3. MILK AND CREAM.
No. 4. POULTRY.
No. 5. CANNED GOODS, VEGETABLES,
PROVISIONS, BREAD AND ROLLS, HAY
AND OATS, ICE, BUTTER AND EGGS, GROCERIES, ETC.
No. 6. CROCKERY, HARDWARE, DRYGOODS, LUMBER, BUILDING MATERIALS,
PAINTS, RUBBER GOODS, UNIFORMS,
GLASSWARE, ETC.
No. 7. HORSES, HARNESS AND STABLE
SUPPLIES.
No. 8. COAL.
No. 9. ENGINEER SUPPLIES.
No. 10. MEDICAL SUPPLIES.
The surety required will be not less than fifty
per cent. (50%) of the amount of the bid.
The time for the delivery of the supplies and
the full performance of the contract is on or
before December 31, 1908.
The bids will be read from the total, and will
be compared and awarded to the lowest bidder
for the line or class, as specified, as soon thereafter as practicable, according to law.
Blank forms may be obtained at the office
of the Contract Clerk, No. 419 East Twentysixth street, Borough of Manhattan, where the
bids and deposits are also delivered.

JOHN W. BRANNAN, President, Board of Trustees, Bellevue and Allied Hospitals. Dated November 19, 1907.

IT See General Instructions to Bidders on the last page, last column, of the "City Record."

## DEPARTMENT OF STREET CLEANING.

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, Nos. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN. THE CITY OF NEW BOROUGH OF MANHATTAN.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m.

THURSDAY, DECEMBER 12, 1907.

Borough of Manhattan.

CONTRACT FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR LOADING AND TRIMMING DECK SCOWS AND OTHER VESSELS OF THE DEPARTMENT, AND FOR THE PRIVILEGE OF SORTING AND PICKING OVER AND APPROPRIATING CERTAIN OF THE REFUSE AT THE DUMPS.

The time for the completion of the work and the full performance of the contract is by or before one year.

The amount of security required is Five Thousand Dollars. Borough of Manhattan.

The amount of security required is Five Thousand Dollars.

The period of this contract will be one (1) year of fifty-two (52) weeks, beginning on the Monday following the date of the contract.

Bidders will write out the price in their bids or estimates, in addition to inserting the same in figures, and this price will be the compensation to be paid to The City of New York by the contractor per week, in advance, for the privilege and work at all the dumps and the incinerators

of the Department of Street Cleaning in the Borough of Manhattan.

Each bid or estimate must be accompanied by a certified check on a solvent banking corporation in The City of New York, payable to the order of the Comptroller of The City of New York for five per centum (5%) of the amount for which the bidder proposes to perform the work for one year.

From the bids or estimates so received the Commissioner may select the bid, the acceptance of which will, in his judgment, best secure the efficient performance of the work, or he may reject any or all of said bids.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

FOSTER CROWELL,

FOSTER CROWELL, Commissioner of Street Cleaning.

Dated November 27, 1907.

M See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m.

# MONDAY, DECEMBER 9, 1907. Boroughs of Manhattan, The Bronx and Brooklyn.

and Brooklyn.

CONTRACT FOR FURNISHING AND DE-LIVERING 15 TOP BUGGIES.

The time for the delivery of the articles, materials and supplies and the performance of the centract is by or before December 31, 1907.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each top buggy contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

Commissioner of Street Cleaning.

Dated November 25, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, Nos. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m.,

#### THURSDAY, DECEMBER 5, 1907. Boroughs of Manhattan and The Bronx.

CONTRACT FOR FURNISHING AND DE-LIVERING 10,000 NORTH RIVER BRICKS (RED), 8,000 SQUARE FIRE BRICKS, 5,000 END WEDGE FIRE BRICKS, 50 BARRELS FIRE CLAY, 30 CUBIC YARDS COW BAY-SAND.

SAND.

The time for the delivery of the articles, materials and supplies and the performance of the contract is fifteen days.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

mate.

The bidder will state the price of each article contained in the specifications or schedules herein contained or hereto annexed, per thousand, per barrel, or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total, and awards made to the lowest bidder.

bidder.

Delivery will be required to be made at the incinerator at the foot of Delancey street, at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

W. BENSEL, Commissioner of Street Cleaning. Dated November 21, 1907.

## See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEFARTMENT OF STREET CLEANING, ROOM 1403, Nos. 13 TO 21 PARK ROW. BOROUGH OF MANHATTAN, THE CITY OF NEW

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m.

# MONDAY, DECEMBER 2, 1907.

Boroughs of Manhattan and The Bronx.

CONTRACT FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR THE REMOVAL OF SNOW AND ICE.

The time for the completion of the work and the full performance of the contract is by or before April 15, 1908.

The amount of the security required is Ten Thousand Dollars (\$10,000) for each or any of the eleven (11) districts of the Borough of Manhattan, or for the two (2) districts, taken together, of the Borough of The Bronx, if the bid is for less than all the districts of the Borough of Manhattan and The Bronx, taken together, or One Hundred Thousand Dollars (\$100,000) for all the districts of the Borough of Manhattan, taken together, with the Borough of The Bronx.

The compensation will be for the actual

of Mannattan, taken together, with the Borough of The Bronx.

The compensation will be for the actual amount of snow and ice removed and dumped by the contractor at a price per cubic yard, and each bid or estimate must be for one, or more, or all, of the eleven districts of the Borough of Manhattan or for the Borough of The Bronx, comprising the Twelfth and Thirteenth Districts, which will, for the purpose of this contract, be deemed to constitute one (1) district. Each bid or estimate must distinctly state the price per cubic yard in each senarate district, and, in the Borough of The Bronx, one price for the two districts aforesaid.

A contract or contracts, if awarded, will be awarded to the lowest bidder for each district or for the Borough of The Bronx.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

Commissioner of Street Cleaning.

Dated November 15, 1907.

See General Instructions to Bidders on the last page, last column, of the "City Record."

MAIN OFFICE OF THE DEPARTMENT OF STREET CLEANING, ROOM 1403, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Street Cleaning at the above office until 12 o'clock m.

# MONDAY, DECEMBER 2, 1907.

MONDAY, DECEMBER 2, 1907.

Borough of Brooklyn.

CONTRACT FOR FURNISHING ALL THE
LABOR AND MATERIALS REQUIRED FOR
THE REMOVAL OF SNOW AND ICF.
The time for the completion of the work and
the full performance of the contract is by or
before April 15, 1908.

The amount of the security required is Ten
Thousand Dollars (\$10,000) for each or any of
the eight (8) districts of the Borough of Brooklyn, if the bid is for less than all the districts
of the Borough of Brooklyn, taken together, or
Sixty Thousand Dollars (\$60,000) for all the
districts of the Borough of Brooklyn, taken together.

districts of the Borough of Brooklyn, taken together.

The compensation will be for the actual amount of snow and ice removed and dumped by the contractor at a price per cubic yard, and each bid or estimate must be for one, or more, or all, of the eight (8) districts of the Borough of Brooklyn. Each bid or estimate must distinctly state the price per cubic yard in each separate district.

A contract or contracts, if awarded, will be awarded to the lowest bidder for each district.

Blank forms and further information may be obtained at the office of the Department of Street Cleaning, the Borough of Manhattan, Nos. 13 to 21 Park row.

W. BENSEL,

Commissioner of Street Cleaning.

Dated November 15, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

Department of Street Cleaning of The City of New York, Nos. 13 to 21 Park Row, New York, Borough of Manhattan.

YORK, BOROUGH OF MANHATTAN.

DUBLIC NOTICE IS HEREBY GIVEN that written applications for non-competitive examinations for the following positions on the steam dumpers "Cinderella," "Aschenbroedel and "Cenerentola," in accordance with the rules of the Municipal Civil Service Commission, will be received at the main office of the Department of Street Cleaning, on the fourteenth floor, Nos. 13 to 21 Park row, Room 1416, on the Wednesday of each week, at 2 p. m., beginning Wednesday, October 2, 1907:

Masters,
Maters,
Marine Enginemen,
Deckhands,
Firemen.

W. BENSEL, Commissioner of Street Cleaning.

ASHES, ETC., FOR FILLING IN LANDS. PERSONS HAVING LANDS OR PLACES in the vicinity of New York Bay to fill a can procure material for that purpose—ashes, street sweepings, etc., collected by the Department of Street Cleaning—free of charge by applying to the Commissioner of Street Cleaning, Nos. 13 to 21 Park row. Borough of Manhattan.

WALTER BENSEL,

Commissioner of Street Cleaning.

# BOARD OF ESTIMATE AND APPOR-TIONMENT.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of Centre street, from Chambers street to Canal street, and to change the grade of New Reade street, Duane street, Park street, Pearl street, Leonard street and White street at their intersection with Centre street, Borough of Manhattan, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Fetimate and

notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of Centre street, from Chambers street to Canal street, and by changing the grade of New Reade street, Duane street, Park street, Pearl street, Leonard street and White street at their intersection with Centre street, in the Borough of Manhattan, City of New York, more particularly described as follows:

lows:

Centre Street.

1. The elevation at the intersection of the centre line with the easterly prolongation of the southerly curb line of Reade street, as laid out west of Centre street, to be 26.60 feet, to coincide with the present surface of the street as paved.

2. The elevation at the intersection of the centre line with the southerly prolongation of the centre line with the southerly prolongation of the centre line with the westerly prolongation of the centre line with the street, as laid out immediately east of Centre street, to be 24.60 feet.

4. The elevation on the centre line 140 feet southerly from the intersection of the said centre line with the centre line of Pearl street to be 22.00 feet.

5. The elevation of the platform at the intersection of Centre street with Pearl street to be 17.50 feet.

6. The elevation of the platform at the intersection of Centre street with Worth street to be 15.30 feet on the south, 15.20 feet on the west, 15.10 feet on the north, 15.10 feet on the east and 15.20 feet at the centre.

7. The elevation of the platform at the intersection of Centre street with Leonard street to be 13.90 feet on the south, 13.75 feet on the west, 13.60 feet on the north, 13.80 feet on the west, 13.60 feet on the north, 13.80 feet on the east and 13.75 feet at the centre. Centre Street.

8. The elevation on the centre line 123 feet southerly from the intersection of the said centre line with the centre line of Franklin street to be 14.30 feet.

9. The elevation of the platform at the intersection of Centre street with Franklin street to be 13.75 feet on the south, centre and north, and 13.70 feet on the west and east.

10. The elevation of the platform at the intersection of Centre street with White street to be 11.90 feet on the south and west, 11.65 feet at the north and east, and 11.80 feet at the centre.

11. The elevation on the centre line 128 feet northerly from the intersection of the said centre line with the centre line of White street to be 12.25 feet.

line with the centre line of White street to be 12.25 feet.

12. The elevation of the platform at the intersection of Centre street with Walker street to be 11.10 feet on the west, 11.50 feet on the south, 11.20 feet on the west, 11.50 feet on the north and 11.30 feet on the east and at the centre.

13. The elevation at the intersection of the prolongation of the southerly curb line of Canal street with the centre line of Centre street to be 12.70 feet, to coincide with the surface of the street as at present paved.

#### Park Street.

1. The elevation on the southerly prolongation of the centre line at a point distant 73 feet southerly from the intersection of the said centre line with the centre line of Centre street to be 24.75 feet, to coincide with the present surface of the street as paved.

2. The elevation at the intersection of the said prolongation of the centre line with the centre line of Centre street to be 25.00 feet, as herein-before described.

3. The elevation on the centre line 233 feet southerly from the intersection of the said centre line with the centre line of Pearl street to be 23.95 feet.

23.95 feet.

4. The elevation on the centre line 66 feet northerly from the point last described to be

23.00 feet.

5. The elevation of the platform at the intersection of Park street with Pearl street to be 15.50 feet.

6. The elevation on the centre line 123 feet northerly from its intersection with the centre line of Pearl street to be 12.40 feet, to coincide with the surface of the street as at present paved.

#### Pearl Street.

1. The elevation at the intersection of the centre line with the prolongation of the easterly house line of Lafayette street to be 17.50 feet, to coin-cide with the present surface of the street as

cide with the present surface of the street as paved.

2. The elevation at the intersection of the centre line with the prolongation of the easterly house line of Centre street to be 17.50 feet.

3. The elevation of the platform at the intersection of Pearl street with Park street to be 15.50 feet.

4. The elevation on the centre line 140 feet easterly from the intersection of the centre line of Park street with the said centre line of Park street with the said centre line of Paral street to be 11.85 feet, to coincide with the present surface of the street as paved.

#### Duane Street.

I. Beginning at the intersection of the centre line with the centre line of City Hall place, the elevation to be 25.50 feet, to coincide with the present surface of the street as paved;

2. Thence westwardly 73 feet along the centre line, the elevation to be 26.15 feet;

3. Thence westwardly 85 feet and still along the centre line, the elevation to be 25.80 feet;

4. Thence westwardly to the intersection of the prolongation of the centre line as laid out immediately easterly from Centre street with the centre line of Centre street, the elevation to be 24.60 feet;

5. Thence westwardly to the intersection of the easterly prolongation of the centre line as laid out immediately westerly from Lafayette street with the centre line of Lafayette street, the elevation to be 22.25 feet, to coincide with the present surface of the street as paved.

New Reade Street.

# New Reade Street.

New Reade Street.

1. Beginning at the intersection of the centre line with the prolongation of the centre line of City Hall place, as laid out immediately northerly from Duane street, the elevation to be 28.25 feet, to coincide with the present surface of the street as paved;

2. Thence westwardly 72 feet along the centre line, the elevation to be 28.90 feet;

3. Thence westwardly to the intersection of the centre line with the southerly prolongation of the centre line with the southerly prolongation to be 26.20 feet, to coincide with the present surface of the street as paved.

# Leonard Street.

Leonard Street.

1. The elevation on the centre line 85 feet westerly from the intersection of the said centre line with the centre line of Centre street to be 13.90 feet, to coincide with the present surface of the street as paved.

2. The elevation of the platform at the intersection of Leonard street and Centre street to be as hereinbefore described.

3. The elevation on the centre line 80 feet easterly from the centre line of Centre street to be 14.25 feet, to coincide with the present surface of the street as paved.

White Street.

1. The elevation on the centre line 88 feet easterly from the intersection of the centre line with the centre line of Centre street to be 12.00 feet, to coincide with the present surface of the street as paved.

2. The elevation of the platform at the intersection of White street with Centre street to be as hereinbefore described.

3. The elevation on the centre line 38 feet westerly from the centre line of Centre street to be 11.80 feet, to coincide with the present surface of the street as paved.

All elevations refer to mean high water as

ace of the street as paved.

All elevations refer to mean high water as established for the Borough of Manhattan.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG,

JOSEPH HAAG,

No. 277 Broadway, Room 1406.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of the City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to close and discontinue Avenue D, from East Fifteenth street to East Sixteenth street, Borough of Manhattan,

and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions, adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by closing and discontinuing Avenue D, from East Fifteenth street to East Sixteenth street, in the Borough of Manhattan, City of New York, more particularly shown on map or plan submitted by the President of the Borough of Manhattan.

Resolved, That this Board consider the pro-

mitted by the President of the Borough of Manhattan.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG, Secretary, No. 277 Broadway, Room 1406. Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out as a public place the triangular area bounded by Metropolitan avenue, Meadow street and Scott avenue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions, adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by laying out as a public place the triangular area bounded by Metropolitan avenue, Meadow street and Scott avenue, in the Borough of Brooklyn, City of New York, more particularly described as follows:

Bounded on the north by Metropolitan avenue, on the southeast by Meadow street and on the southwest by Scott avenue.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CTTY Record and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Desember, 1907.

ecember, 1907. Dated November 22, 1907.

JOSEPH HAAG, No. 277 Broadway, Room 1406.

Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of the following streets: Kenmore place, between Woodruff avenue and Caton avenue; East Twenty-first street, between Caton avenue and Church avenue; Caton avenue, between Ocean avenue and Flatbush avenue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions, adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the grade of the following streets: Kenmore place, between Woodruff avenue and Caton avenue; East Twenty-first street, between Caton avenue and Church avenue; Caton avenue, between Ocean avenue and Flatbush avenue, in the Borough of Brooklyn, City of New York, more particularly described as follows:

# Kenmore Place.

Beginning at the intersection of Kenmore place and Woodruff avenue, the elevation to be 56.78

and Woodruff avenue, the elevation to be 50.78 feet, as heretofore;

Thence southerly to a point distant 315 feet from the southerly building line of Woodruff avenue at its intersection with the centre line of Kenmore place, the elevation to be 54.90 feet;

Thence southerly to the intersection of Caton avenue, the elevation to be 52.40 feet, as now in use and improved.

# East Twenty-first Street.

Beginning at the intersection of East Twenty-first street and Caton avenue, the elevation to be 52.40 feet, as now in use and improved;

Thence southerly to the intersection of Church avenue, the elevation to be 47.80 feet, as heretofore.

# Caton Avenue.

Caton Avenue.

Beginning at the intersection of Caton avenue and Church avenue, the elevation to be 53.50 feet, as heretofore;

Thence easterly to the intersection of Kenmore place and East Twenty-first street, the elevation to be 52.40 feet, as now in use and improved;

Thence easterly to the intersection of Flatbush avenue, the elevation to be 52.39 feet, as heretofore.

All elevations refer to mean high water datum, as determined by the Bureau of Highways, Borough of Broklyn.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be

held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG, Secretary, No. 277 Broadwa Room 1406.

Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT THE
Board of Estimate and Apportionment of
The City of New York, deeming it for the public interest so to do, proposes to change the map
or plan of The City of New York so as to
change the grade of New York avenue, from
President street to Carroll street, Borough of
Brooklyn, and that a meeting of said Board will
be held in the Old Council Chamber, City Hall,
Borough of Manhattan, City of New York, on
December 6, 1907, at 10.30 o'clock a. m., at
which such proposed change will be considered
by said Board; all of which is more particularly
set forth and described in the following resolutions, adopted by the Board on November 8,
1907, notice of the adoption of which is hereby
given, viz.:

Resolved. That the Board of Estimate and Ap-

by said Board; all of which is more particularly set forth and described in the following resolutions, adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442, of the Greater New Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of New York avenue, from President street to Carroll street, in the Borough of Brooklyn, City of New York, more particularly described as follows:

Beginning at the intersection of President street, the elevation to be 110 feet, as heretofore. Thence southerly to a point 145.79 feet south of the south curb line of President street, the elevation to be 110.75 feet;

Thence southerly to the intersection of Carroll street, the elevation to be 110 feet, as heretofore. All elevations refer to mean high-water datum, as determined by the Bureau of Highways, Borough of Brooklyn.

Resolved, That this Board consider the proposed change at a meeting of the Board to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG,

Recretary,

No. 277 Broadway, Room 1406.

NOTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of Tremont avenue, from Devoe avenue to Rosedale avenue, and to change the grade of intersecting streets affected thereby. Borough of The Bronx, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board, all of which is more particularly set forth and described in the following resolutions adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of Tremont avenue, from Devoe avenue to Rosedale avenue, and by changing the grade of intersecting streets affected thereby, in the Borough of The Bronx, City of New York, more particularly described as follows:

**Tremont Avenue**.

Tremont Avenue.

t. The grade at Devoe avenue to be 20 feet, heretofore;
2. The grade at Bronx Park avenue to be 35

2. The grade at Bronx Park avenue to be 35 feet;
3. The grade at the southwest curb intersection of Appley avenue to be 46.5 feet;
4. The grade at the northeast curb intersection of Appley avenue to be 47.5 feet;
5. The grade of the bridge across the New York, New Haven and Hartford Railroad tracks to be 49 feet;
6. The grade at the southwest curb intersection of Bronx River avenue to be 48.5 feet;
7. The grade at the northeast curb intersection of Bronx River avenue to be 48 feet;
8. The grade at the northest curb intersection of Fteley avenue to be 37 feet;
9. The grade at the southeast curb intersection of Fteley avenue to be 35.5 feet;
10. The grade at the northwest curb intersection of Crocs avenue to be 25 feet;
11. The grade at the southeast curb intersection of Crocs avenue to be 24.6 feet;
12. The grade at Noble avenue to be 26 feet;
13. The grade at Rosedale avenue to be 34 feet, as heretofore.

Bronx Park Avenue.

1. The grade at Tremont avenue to be 35 feet;
2. The grade at Wyatt street to be 23.5 feet, as heretofore.

Appley Avenue.

r. The grade at the northeast curb intersection of Tremont avenue to be 47.5 feet;
2. The grade at Morris Park avenue to be 30 feet, as heretofore.

Bronx River Avenue. 1. The grade at the northeast curb intersection of Tremont avenue to be 48 feet;
2. The grade at Fteley avenue to be 31.5 feet, as heretofore.

Fteley Avenue. 1. The grade at the northwest curb inter-section of Tremont avenue to be 37 feet; 2. The grade at Bronx River avenue to be 31.5 feet, as heretofore.

1. The grade at the northwest curb intersection of Tremont avenue to be 25 feet;
2. The grade at Bronx River avenue to be 27 feet, as heretofore.

Noble Avenue.

Noble Avenue.

1. The grade at the northwest curb intersection of Tremont avenue to be 26 feet;

2. The grade at Mansion avenue to be 29.7 feet, as heretofore.

All grades refer to mean high-water datum as established in the Borough of The Bronx.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the Crit Record for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG,
Secretary,
No. 277 Broadway, Room 1406.
Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the line of Penfield street, between White Plains road and Wilder avenue, Borough of The Bronx, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the line of Penfield street, between White Plains road and Wilder avenue, in the Borough of The Bronx, City of New York, more particularly described as follows:

1. The southerly line of Penfield street is to be 5 feet south of and parallel with the southerly line of Penfield street is to Penfield street is to be 5 feet south of and parallel with the southerly line of Penfield street is dout.

out.

2. The northerly line of Penfield street, between the flare just west of Wilder avenue and White Plains road is to be 5 feet south of and parallel with the northerly line of Penfield street, as heretofore laid out.

3. The flare heretofore laid out on the northerly side of Penfield street at its intersection with Wilder avenue is to be continued, and the line forming it prolonged westwardly to meet the northerly line of Penfield street, as described in paragraph 2.

The intent of this change is, in general, to move Penfield street 5 feet south of the location heretofore adopted.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

JOSEPH HAAG, Secretary.

JOSEPH HAAG, Secretary, No. 277 Broadway, Room 1406. Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the grade of Seventh avenue, between Graham avenue and Broadway, in the First Ward, Borough of Queens, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the grade of Seventh avenue, between Graham avenue and Broadway, in the First Ward, in the Borough of Queens, City of New York, more particularly described as follows:

1. The grade at the intersection with Broad-

the First Ward, in the Borough of Queens, City of New York, more particularly described as follows:

1. The grade at the intersection with Broadway to be 51.66 feet, as heretofore.

2. The grade at a point 562.5 feet southwesterly from the southwesterly house line of Broadway to be 40 feet.

3. The grade at the intersection with Graham avenue to be 34.62 feet, as heretofore.

Note—All elevations refer to mean high-water datum, Borough of Queens.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG,

No. 277 Broadway, Room 1406. Telephone, 2280 Worth.

N OTICE IS HEREBY GIVEN THAT THE Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to lay out an extension of Linton Park by making the boundary Blake avenue, Van Siclen avenue, Livonia avenue and Bradford street, and to close and discontinue Miller avenue, between Blake avenue and Livonia avenue, and Dumont avenue, between Bradford street and Van Siclen avenue

nue, Borough of Brooklyn, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 6, 1907, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by the Board on November 8, 1907, notice of the adoption of which is hereby given, viz.:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by laying out an excension of Linton Park by making the boundary Blake avenue, Van Siclen avenue, Livonia avenue and Bradford street, and by closing and discontinuing Miller avenue, between Blake avenue, and Dumont avenue, between Bradford street and Van Siclen avenue, in the Borough of Brooklyn, City of New York, more particularly described as follows:

1. Miller avenue is to be closed and discontinued between the southerly line of Blake avenue and the northerly line of Livonia avenue.

2. Dumont avenue is to be closed and discontinued between the easterly side of Bradford street and the westerly side of Van Siclen avenue.

3. The extension of Linton Park is to include the area bounded as follows:

tinued between the easterly side of Bradford street and the westerly side of Van Siclen avenue.

3. The extension of Linton Park is to include the area bounded as follows:

Beginning at the intersection formed by the westerly side line of Van Siclen avenue with the southerly side line of Blake avenue;

Thence westerly along the last-mentioned line 250 feet to its intersection with the westerly side line of Miller avenue;

Thence southerly along the last-mentioned line 500 feet to its intersection with the northerly side line of Dumont avenue;

Thence westerly along the last-mentioned line 200 feet to its intersection with the easterly side line of Bradford street;

Thence southerly along the last-mentioned line 370 feet to its intersection with the northerly side line of Evaluation avenue;

Thence asserly along the last-mentioned line 450 feet to its intersection with the westerly side line of Van Siclen avenue;

Thence northerly along the last-mentioned line 1,070 feet to the point of beginning.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 6th day of December, 1907, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the CITY RECORD and the corporation newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 6th day of December, 1997.

December, 1997.

December, 1997.

December, 1997.

December, 1997.

December, 1907.

JOSEPH HAAG,

Telephone, 277 Broadway, Room 1406.

Telephone, 2280 Worth.

No. 277 Broadway, Room 1400.

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NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportunment and on November 8, 1907, the following restrutions were adopted:

Whereas, The Board of Estimate and Apportunment of the City of New York is considering the avisability of instituting proceedings to acquire itile to the lands and premises required form Washington avenue to Bedford avenue, and from Rogers avenue to New York avenue; President street, from Classon avenue to Bedford avenue; Carroll street, from Washington avenue to Albany avenue; Crown street, from Washington avenue to Albany avenue; Crown street, from Washington avenue to Albany avenue, in the Borough of Brooklyn, City of New York; and Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

First—Beginning at a point on the prolongation of a line midway between Eastern parkway and Union street, and along the westerly line of Washington avenue, and running thence eastwardly along the said line midway between Eastern parkway and Union street, and along the prolongation of the said line midway between Eastern parkway and Union Street, and along the westerly line of Bedford avenue; thence southwardly along the westerly line of Bedford avenue; thence eastwardly along the westerly line of Bedford avenue; thence southwardly along the said line midway between President attreet and Carroll streets as the said streets are laid out east of the line of Rogers avenue where it intersects a line midway between Lown str

JOSEPH HAAG, No. 277 Broadway, Room 1406.

NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and apportionment held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of East Tenth street, from Caton avenue to Church avenue, in the Borough of Brooklyn, City of New York; and

for the opening and extending of East Tenth street, from Caton avenue to Church avenue, in the Borough of Brooklyn, City of New York; and Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Caton avenue, the said distance being measured at right angles to the line of Caton avenue; on the east by a line distant 100 feet easterly from and parallel with the easterly line of East Tenth street, the said distance being measured at right angles to the line of East Tenth street, the said distance being measured at right angles to the line of East Tenth street, and by the prolongation of the said line; on the south by the northerly line of. Albemarle road, and on the west by the easterly line of Coney Island avenue.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 6th day of December, 1907, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record and the corporation newspapers for ten days prior to the 6th day of December, 1907.

Dated November 22, 1907.

No. 277 Broadway, Room 1406.

Telephone, 2280 Worth.

OTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and apportionment held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of the triangular area bounded by LaFontaine avenue, Quarry road and the south side of Oak Tree place, in the Borough of The Bronx, City of New York; and Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding:

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at the intersection of a line 125 feet distant southerly from and parallel with the southerly line of Oak Tree place, the said distance being measured at right angles to the line of Oak Tree place, with the southeasterly side of Quarry road, and running thence northwesterly from the northwesterly side of the said road; thence northeastwardly and parallel with the Quarry road to the intersection with a line drawn at right angles to the said road; thence northeastwardly to the last mentioned point on the northwesterly side of the Said road; thence northeastwardly to the last mentioned point on the northwesterly side of the Ouarry road; thence eastwardly along a line parallel with the northerly line of Oak Tree place; thence southwardly along a line parallel with the northerly side of Oak Tree place; thence westwardly along a line parallel with LaFontaine avenue to the intersection with a line disant 125 feet southerly from and parallel wit

December, 1907. Dated November 22, 1907.

JOSEPH HAAG, No. 277 Broadway, Room 1406. Telephone, 2280 Worth,

OTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and apportionment held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of West Two Hundred and Thirty-fourth street, between Albany road and Kingshridge avenue, in the Borough of The Bronx, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at the intersection of a line 200 feet

Beginning at the intersection of a line 290 feet southerly from and parallel with the southerly line of West Two Hundred and Thirty-fourth street, the said distance being measured at right angles to the line of West Two Hundred and

Thirty-fourth street, with a line 120 feet westerly from and parallel with the westerly line of Kingsbridge avenue, the said distance being measured at right angles to the line of Kingsbridge avenue, and running thence northwardly and parallel with the line of Kingsbridge avenue to the intersection with a line passing through a point on the easterly side of Kingsbridge avenue with the northerly side of West Two Hundred and Thirty-fourth street, and through a point on the westerly side of Albany road distant 232 feet north of the point where the said westerly line of Albany road intersects the northerly line of West Two Hundred and Thirty-fourth street; thence eastwardly along the said line passing through a point on the easterly line of Kingsbridge avenue distant 200 feet north of its intersection with the northerly line of West Two Hundred and Thirty-fourth street; and through a point on the westerly side of Albany road distant 232 feet north of its intersection with the northerly side of West Two Hundred and Thirty-fourth street, and along the prolongation of the said line, to the intersection with the said distance being measured at right angles to the line of Albany road; thence southwardly and parallel with Albany road and always distant too feet from the easterly line of Albany road distant 130 feet southerly from the passing through a point on the westerly side of Albany road distant 130 feet southerly from the passing through a point on the easterly side of Albany road distant 130 feet southerly from the passing through a point on the easterly side of Albany road distant 130 feet southerly from the passing through a point on the easterly side of Broadway distant 132 feet south of the intersection of the said easterly line of Horadway distant 132 feet south of the intersection of the said easterly line of Horadway distant 132 feet south of the intersection of the said easterly line of Broadway with the southerly line of West Two Hundred and Thirty-fourth street, and through a point on the easterly line o

Cember, 1907.
Dated November 22, 1907.
JOSEPH HAAG,
Secretar No. 277 Broadway, Room 1406.

N OTICE IS HEREBY GIVEN THAT AT

OTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment held on November 8, 1907, the tollowing resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of the public place bounded by Farkside place and Webster avenue, and also of those portions of Parkside place and East Two Hundred and Seventh street which have not yet been acquired by The City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to thix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on the westerly property

portionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on the westerly property line of the New York and Harlem Railroad at its intersection with a line perpendicular to the westerly line of the Webster avenue and passing through a point on the said westerly line of Webster avenue distant 380 feet southerly from its intersection with the southerly line of East Two Hundred and Fifth street, and running thence westwardly along the said line at right angles to Webster avenue to a point 100 feet west of the said westerly line of Webster avenue; thence northwardly along a line parallel with and always distant 100 feet from the westerly line of Webster avenue to the intersection with a line which bisects the angle formed by the intersection of the prolongation of the centre lines of East Two Hundred and Fifth street and of East Two Hundred and Seventh street as these streets are laid out between Perry avenue and Norwood avenue; thence westwardly along the said bisecting line to its intersection with a line distant 100 feet westerly from and parallel with the westerly line of Perry avenue, the said distance being measured at right angles to the line of Perry avenue; thence northwardly along the said line parallel with Perry avenue to its intersection with the easterly line of Reservoir Oval; thence northwardly along the said distant 100 feet westerly from and parallel with the westerly line of Perry avenue as laid out immediately south of Gun Hill road, the said distance being measured at right angles to the line of Perry avenue; thence northwardly along the said line parallel with the westerly line of Ferry avenue; thence northwardly along the said line parallel with the westerly line of East Two Hundred and Ninth street as laid out between Perry and Norwood avenues; thence eastwardly along the said line parallel with East Two Hundred and Ninth street to

its intersection with the northerly line of Gun Hill road; thence eastwardly along the said line at right angles to Webster avenue to the intersection with the westerly property line of the New York and Harlem Railroad, and thence southwardly along the said westerly property line of the New York and Harlem Railroad to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board, to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 6th day of December, 1907, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG,

Secretary,
No. 277 Broadway, Room 1406.

No. 277 Broadway, Room 1406.

OTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of Young street, between the Long Island Railroad and Hunter's Point avenue, in the First Ward, in the Borough of Queens, City of New York; and Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at the intersection of a line midway between Young street and Gilbert street with the easterly line of the lands of the Long Island Railroad, and running thence eastwardly along the said line, to the intersection with the southwesterly line of Hunter's Point avenue to a point distant 100 feet northeasterly from the northeasterly from the northeasterly line of Hunter's Point avenue to the southwesterly line of Hunter's Point avenue to the southwesterly line of Hunter's Point avenue to the southwesterly line of Hunter's Point avenue to the said point on its southwesterly line where it is intersected by a line midway between Young street and Pearsall street; thence southwestwardly, at right angles to the southwesterly line of Hunter's Point avenue to the said point on its southwesterly line where it is intersected by the aforesaid line midway between Young street and Pearsall street; thence westwardly and along a line always midway between Young stre

Island Railroad, to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 6th day of December, 1907, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD for ten days prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG.

Secretary,

No. 277 Broadway, Room 1406.

Telephone, 2280 Worth.

NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of Harman street, between Grand View avenue and Forest avenue, and Himrod street, between Grand View avenue and Metropolitan avenue, in the Borough of Oueens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foreging improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on the southerly line of

section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at a point on the southerly line of Metropolitan avenue where the said line is intersected by a line midway between Stanhope street and Himrod street, and running thence southwestwardly along the said line midway between Stanhope street and Himrod street to the intersection with a line distant 100 feet southwesterly from and parallel with the southwesterly line of Grand View avenue, the said distance being measured at right angles to the line of Grand View avenue; thence southeastwardly and parallel with the southwesterly line of Grand View avenue to the intersection with a line midway between Harman street and Greene avenue; thence northeastwardly along the said line midway between Harman street and Greene avenue, and along the prolongation of the said line to the intersection with a line distant 100 feet northeasterly from and parallel with the northeasterly line of Forest avenue; thence northwestwardly along a course parallel with the northeasterly line of Forest avenue to the intersection with a line distance being measured at right angles to the line of Forest avenue to the intersection with a line distant 100 feet north of and parallel with the northerly line of Metropolitan avenue; thence westwardly and parallel with the northerly line of Metropolitan avenue; thence westwardly and parallel with the northerly line of Metropolitan avenue; thence westwardly and parallel with the northerly line of Metropolitan avenue; thence mortherly side of Metropolitan avenue avenue at the point or place of beginning; thence southwardly to the point or place of beginning.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Bor-

NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment, held on November 8, 1907, the following resolutions were adopted:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of a new diagonal street, from Jackson avenue, opposite the approach to the Blackwell's Island Bridge, to the northwesterly boundary of the Sunnyside Yard to Thomson avenue; and of Van Dam street, from the new diagonal street to Greenpoint avenue, and of Greenpoint avenue, from Review avenue to Newtown creek, in the Borough of Queens, City of New York; and

Whereas, The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 980 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

Beginning at the point of intersection of the northeasterly bulkhead line of Newtown creek with the centre line of Dutch Kills creek, and running thence eastwardly and northwardly along the centre line of Dutch Kills creek to its intersection with the prolongation of a line midway between Dutch Kills place and Queens place, as laid out south of the Sunnyside Yard; thence northwardly along the said line midway between Dutch Kills street and Queens street, as laid out north of Sunnyside Yard; thence northwardly along the said line midway between Dutch Kills street and Queens street, as laid out north of Sunnyside Yard; thence northwardly along the said line midway between Dutch Kills street and Queens street, as laid out north of Sunnyside Yard; thence northwardly along the said line midway between Dutch Kills street and Queens street are with the prolongation of a line midway between the Crescent and William street to its intersection with a line midway between Payntar avenue and Wilbur avenue; thence southeastwardly along the said line midway between Payntar avenue and Wilbur avenue to its intersection with a line midway between Payntar avenue and Wilbur avenue to the sunday of the payntar avenue and wilbur avenue to the sunday late of t

NOTICE IS HEREBY GIVEN THAT AT the meeting of the Board of Estimate and Apportionment, held on November 8, 1907, the following resolutions were adopted:

Whereas. The Board of Estimate and Apportionment of The City of New York is considering the advisability of instituting proceedings to acquire title to the lands and premises required for the opening and extending of Jefferson street, from Liberty avenue to Tysen avenue, in the Borough of Richmond, City of New York; and

the Borough of Richmond, City of New York; and

Whereas. The Board of Estimate and Apportionment is authorized and required at the time of the adoption of the resolution directing the institution of proceedings to acquire title to the lands required for the foregoing improvement to fix and determine upon an area or areas of assessment for benefit for said proceeding. Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of section 98 of the Greater New York Charter, hereby gives notice that the following is the proposed area of assessment for benefit in this proceeding:

proposed area of assessment for benent in improposed area of assessment for benent in improposed.

Bounded on the north by a line midway between Tysen avenue and Delaware avenue; on the east by a line bisecting the angle formed between the easterly side of Jefferson street and the westerly side of the first unnamed street.

ough of Manhattan, in the City Hall, on the 6th day of December, 1907, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the Crry Record for ten days prior to the 6th day of December, 1907.

Dated November 22, 1907.

JOSEPH HAAG.

Secretary.

No. 277 Broadway, Room 1406.

Telephone, 2280 Worth. east of Jefferson street; on the south by a line distant 100 feet southerly from and parallel with the southerly line of Liberty avenue, and on the west by a line midway between Jefferson street and the first unnamed street west of Jef-ferson street and by the prolongation of the said line

street and the first unnamed street west of Jersteets and the first unnamed street west of Jersteet and by the prolongation of the said line.

Resolved, That this Board consider the proposed area of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 6th day of December, 1907, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the City Record for ten days prior to the 6th day of December, 1907.

Dated November 22, 1907.

Dated November 22, 1907.

No. 277 Broadway, Room 1406.

Telephone, 2280 Worth.

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DUBLIG NOTICE IS HEREBY GIVEN that at a meeting of the Board of Estimate and Apportionment held this day, the following proceedings were had:

Whereas, The Seaboard Refrigeration Company has, under date of May 3, 1907, made application to this Board for certain modifications and changes in the contract dated June 22, 1906, granting a franchise to this company to construct, maintain and operate a conduit with the necessary branches and connections therefrom, for the sole purpose of supplying refrigeration to consumers, under and along certain streets in the Borough of Brooklyn, City of New York; and

Whereas, Sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance to such laws this Board adopted resolutions September 20, 1907, fixing the date for public hearing thereon as November 1, 1907, at which citizens were entitled to appear and be heard, and publication was had for at least two days in the New York "Heraid" and the New York "Times," newspapers designated by the Mayor, and in the CITY RECORD for ten days immediately prior to the date of hearing, and the public hearing was duly held on such day; and

Whereas, This Board has made inquiry as to the modifications of the franchise or right heretofore granted to the Seaboard Refrigeration Company and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of resolution for the modifications of the franchise or right snowled for by the Seaboard Refrigeration Cution for the modifications of the franchise or right snowled for by the Seaboard Refrigeration Cution for the modifications of the franchise or right snowled for by the Seaboard Refrigeration Cution for the modifications of the franchise or right snowled for by the Seaboard Refrigeration

proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of resolution for the modifications of the franchise or right applied for by the Seaboard Refrigeration Company, containing the form of proposed contract for the modification of such franchise or right, be hereby introduced and entered in the minutes of this Board as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Seaboard Refrigeration Company the modifications of the contract dated June 22, 1906, as fully set out and described in the following form of proposed contract, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

Proposed Form of Contract.

PROPOSED FORM OF CONTRACT.

PROFOSED FORM OF CONTRACT.

This contract, made the day of 1907, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of the said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Seaboard Refrigeration Company, a domestic corporation of the State of New York (hereinafter called the Company), party of the second part, witnesseth:

Whereas, The Board did, on June 15, 1906, adopt a resolution authorizing the Mayor to execute, in the name and on behalf of the City, granting to the Company the right or franchise to construct, maintain and operate a conduit, with the necessary branches and connections therefrom, for the sole purpose of supplying refrigeration to consumers, under and along certain streets in the Borough of Brooklyn, City of New York, upon certain conditions therein fully set forth; and

Whereas, On the 6th day of July, 1906, the Acting Mayor did execute, in the name and on behalf of The City of New York, a contract granting to the Company such right, which contract was dated the 22d day of June, 1906; and

granting to the Company such right, which contract was dated the 22d day of June, 1906; and
Whereas, On September 14, 1906; November 9, 1906; April 26, 1907, and May 10, 1907, by resolutions duly adopted by the Board and subsequently approved by the Mayor, the Company was granted various extensions of time up to and including May 1, 1908, in which to comply with the provisions of "Section 2, Third," and "Section 2, Twenty-second" of the aforesaid contract; and
Whereas, The Company, in a communication dated May 3, 1907, requested that the payments provided for in "Section 2, Third" and "Section 2, Twenty-second" of the aforesaid contract be reduced; that the term of the franchise be extended; and that the various dates for the completion of a certain amount of pipe line be extended; and
Whereas, On the 1st day of November, 1907, the Board held a public hearing upon the proposed modifications, at which citizens were entitled to appear and be heard, such hearing being held after due publication; and
Whereas, On the day of the Board adopted a resolution consenting to certain changes and modifications in the afore-said contract and authorizing the Mayor to exercise the second of the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and authorizing the Mayor to exercise the said contract and the said contract and the said contract and the said contract and the said contract and the said contract and the said contract and the said contract and the said contract and the said contract and the said contract

held after due publication; and Whereas, On the day of the Board adopted a resolution consenting to certain changes and modifications in the aforesaid contract and authorizing the Mayor to execute and deliver an amended contract in accordance therewith, in the name and on behalf of the City, which resolution was approved by the Mayor on the day of Now, therefore, in consideration of the premises and of the mutual covenants herein contained, the parties do hereby covenant and agree as follows:

Section I—All the terms, provisions and conditions contained in said contract between the City and the Company, dated June 22, 1906, shall remain unchanged and in full force and effect except the modifications hereinafter set forth, as follows:

First—Section 2, First, first paragraph, is hereby amended to read as follows:

"The said franchise, right and privilege to lay one conduit line in each of the streets, avenues or highways, and between the limits as hereinbefore described, and the franchise, right and privilege to maintain and operate the same shall be held and enjoyed by the said Company, its lessees or successors, for a term of fifteen years from the date of the signing of this modified contract by the Mayor, with the privilege of renewal of said grant for a further period of ten years, upon a fair revaluation of said franchise, right and privilege."

Second—Section 2, Third, clauses 1 and 2, is hereby amended to read as follows:

"I. Five hundred dollars (\$500) in cash with-thirty (30) days after the signing of this

"I. Five hundred dollars (\$500) in cash within thirty (30) days after the signing of this contract.

"2. During the first five years of this contract an annual sum which shall in no case be less than two hundred and fifty dollars (\$250), and which shall be equal to two per cent of the gross receipts of the Company, if such percentage shall exceed the sum of two hundred and fifty dollars (\$250).

"During the second five years of this contract an annual sum which shall be in no case less than seven hundred and fifty dollars (\$750), and which shall be equal to four per cent. of the gross receipts of the Company, if such percentage shall exceed the sum of seven hundred and fifty dollars (\$750).

"During the third and remaining five years of this contract an annual sum which shall in no case be less than twelve hundred dollars (\$750), and which shall be equal to five per cent. of the gross receipts of the Company, if such percentage shall exceed the sum of twelve hundred dollars (\$1,200).

"Third—Section 2, Seventh, is hereby amended by inserting the date "May 1, 1913," in place of the date "May 1, 1911," therein contained.

Fourth—Section 2, Twenty-second, is hereby amended by substituting the sum of two thousand dollars (\$2,000) for the sum of five thousand dollars (\$2,000) for the sum of five thousand dollars (\$2,000), as herein contained.

Section 2—The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in the original contract, dated June 22, 1906, fixed and contained, and as modified by this amended contract.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City to be hereunto signed, and the corporate seal of said City to be hereunto signed, and the corporate name to be hereunto signed, and the corporate and to be hereunto signed, and its corporate name to be hereunto signed, and its corporate name to be hereunto signed, and it

(Corporate Seal.)
Attest: Attest:

City Clerk.
SEABOARD REFRIGERATION COMPANY,
By President.

Secretary. (Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the modifications of the franchise or right heretofore granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates and charges, are as fixed and contained in the contract with the Seaboard Refrigeration Company, dated June 22, 1906, as modified by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the modifications applied for by the Seaboard Refrigeration Company and the said form of proposed contract for the grant of such modifications, containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to December 13, 1907, in the Ctry Record and at least twenty with the following how work "Times," two daily newspapers designated by the Mayor therefor and published in The City of New York, at the expense of the Seaboard Refrigeration Company, together with the following notice, to wit:

"Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the modifications of the franchise or right heretofore granted to the Seaboard Refrigeration Company and fully set forth and described in the foregoing form of proposed contract, and before adopting any resolutions authorizing any said contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on December 13, 1907, at 1905 PH HAAG,

Secretary.

JOSEPH HAAG, Secretary.

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New York, November 1, 1907 [On November 19, 1907, the Mayor designated the "Brooklyn Daily Eagle" and the "Brooklyn Citizen" as the daily newspapers in which the foregoing should be published, in place of the papers named in the resolution.]

# PUBLIC NOTICE.

DUBLIC NOTICE IS HEREBY GIVEN

that at a meeting of the Board of Estimate and Apportionment held this day in the Old Council Chamber, Room 16, City Hall, Borough of Manhattan, the public hearing on the proposed form of contract consenting to certain modifications and alterations in the line of the route of the New York and Port Chester Railroad Company, in the Borough of The Bronx, as laid down in the contract dated May 31, 1906, granting a franchise to said company, which, by resolution adopted July 8, 1907, was fixed for September 20, 1907, and on that date continued to November 1, 1907, was continued to December 13, 1907.

13, 1907. JOSEPH HAAG, Secretary.

New York, November 1, 1907. n4.d13

# BOARD MEETINGS.

The Board of Estimate and Apportionment meets in the Old Council Chamber (Room 16), City Hall, every Friday, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary. retary.

The Commissioners of the Sinking Fund meet in the Old Council Chamber (Room 16), City Hall, at call of the Mayor. N. TAYLOR PHILLIPS, Deputy Comptroller, Secretary.

The Board of Revision of Assessments meets in the Old Council Chamber (Room 16), City Hall, every Thursday at 11 a. m., upon notice of the Chief Clerk.

HENRY J. STORRS, Chief Clerk.

The Board of City Record meets in the Old ouncil Chamber (Room 16), City Hall, at call Council Chamb PATRICK J. TRACY, Supervisor, Secretary.

BOARD OF ASSESSMENT

DURING COURCE IN HERRY COVEN.

THE CITY RECORD.

SOUTH OF THE HOUSE, the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the

Fort Hamilton parkway to Avenue N; both sides of Gravesend avenue, from Fort Hamilton parkway to Tenth avenue; both sides of East Second street, from Foster avenue to Avenue N; both sides of East Second street, from Foster avenue to Avenue N; both sides of East Second street to Eighteenth avenue; both sides of East Second street to Avenue N; both sides of Elmwood avenue, from Gravesend avenue to Ocean parkway; both sides of East Second street to Avenue M; both sides of East Second street to a point about 450 feet south of Avenue M; both sides of Ocean parkway, from Prospect Park to a point about 450 feet south of Avenue H; west sides of Ocean parkway, from Prospect Park to a point about 450 feet south of Avenue H; west sides of Cean parkway, from Prospect Park to a point about 450 feet south of Avenue H; west sides of East Seventh street to Coney Island avenue; both sides of East Seventh street to Coney Island avenue, and from Foster avenue to a point about 350 feet southerly therefrom; both sides of East Eighth street, from Gean parkway to Eighteenth avenue, and from Foster avenue to a point about 350 feet southerly therefrom; both sides of Coney Island avenue, from Prospect Park to a point about 350 feet southerly therefrom; both sides of Coney Island avenue, from Prospect Park to a point about 520 feet south from Foster avenue; west side of Coney Island avenue, from Fiteenth street, from Caton avenue to a point about 631 feet southerly therefrom; both sides of East Eleventh street, from Caton avenue to Ditmas avenue; both sides of Westminster road, from Caton avenue (i) both sides of East Seventue (i) both sides of Satt Eleventh street, from Caton avenue (i) both sides of Might produced from Caton avenue (i) both sides of Might produced from Caton avenue (i) both sides of Parade avenue, from Parkside avenue to Foster avenue; both sides of Nineteenth street, from Church avenue; both sides of Nineteenth street, from Church avenue; both sides of Satt Twenty-side avenue to Foster avenue; both sides of Fast Twent

sessors.

All persons whose interests are affected by the above-named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before December 23, 1907, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto. ceived in reference there

SPECIAL NOTICE.

The Board will require all objections to be filed on or before the date mentioned, and will pro-ceed with hearings on that day, and from day to day thereafter.

ANTONIO ZUCCA,
PAUL WEIMANN,
JAMES H. KENNEDY,
Board of Assessors.

WILLIAM H. JASPER,
Secretary,
No. 320 Broadway.
City of New York, Borough of Manhattan, November 22, 1907.

P UBLIC NOTICE IS HEREBY GIVEN TO the owner or owners of all houses and lots, improved or unimproved lands affected thereby, that the following proposed assessments have been completed and are lodged in the office of the Board of Assessors for examination by all persons interested, viz.:

# BOROUGH OF MANHATTAN.

List 9399, No. 1. Regulating, grading, curbing and flagging West One Hundred and Sixty-ninth street, from Broadway to Fort Washington avenue, together with a list of awards for damages, caused by a change of grade.

BOROUGH OF THE BRONX.

List 9333, No. 2. Regulating, grading, curbing, flagging, laying crosswalks, building approaches and placing fences in East One Hundred and Seventy-sixth street, from Arthur avenue to the Southern boulevard, together with a list of awards for damages, caused by a change of grade.

grade.

List 9360, No. 3. Regulating, grading, curbing, flagging, laying crosswalks, building approaches and placing fences in Vyse avenue, from One Hundred and Seventy-second street to One Hundred and Eighty-second street, together with a list of awards for damages, caused by a change of grade.

of grade.

List 9362, No. 4. Regulating, grading, curbing, flagging, laying crosswalks, building approaches and placing fences in Heath avenue, from Bailey avenue to Fort Independence street.

The limits within which it is proposed to lay the said assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Sixtyninth street, from Broadway to Fort Washington avenue, and to the extent of half the block at the intersecting and terminating streets and avenues.

No. 2. Both sides of One Hundred and Seventy-sixth street, from Arthur avenue to the Southern boulevard, and to the extent of half the block at the intersecting streets and avenues.

No. 3. Both sides of Vyse avenue, from One Hundred and Seventy-second to One Hundred and Eighty-second street, and to the extent of half the block at the intersecting and terminating streets and avenues.

half the block at the intersecting and terminating streets and avenues.

No. 4. Both sides of Heath avenue, from Bailey avenue to Fort Independence street, and to the extent of half the block at the intersecting streets and avenues.

All persons whose interests are affected by the above named proposed assessments, and who are opposed to the same, or either of them, are requested to present their objections, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, New York, on or before December 24, 1907, at 11 a. m., at which time and place the said objections will be heard and testimony received in reference thereto.

ANTONIO ZUCCA, PAUL WEIMANN, JAMES H. KENNEDY, Board of Assessor

William H. Jasper,
Secretary,
No. 320 Broadway.
City of New York, Borough of Manhattan,
Nevember 21, 1907.

#### DEPARTMENT OF HEALTH.

DEPARTMENT OF HEALTH, CORNER OF FIFTY-FIFTH STREET AND SIXTH AVENUE, BOROUGH OF MANHATTAN, CITY OF NEW YORK.

MANHATTAN, CITY OF NEW YORK.

A T A MEETING OF THE BOARD OF Health of the Department of Health held November 20, 1907, the following resolution was adopted:

Resolved, That section 5 of the Sanitary Code of the Department of Health be and the same is hereby amended so as to read as follows:

Section 5. The word "physician" shall include every person who practices about the cure of the sick or injured or who has the charge of or professionally prescribes for any person sick injured or diseased, and the phrase "infectious disease" shall be held to include all diseases of an infectious, contagious or pestilential nature.

A true copy.

EUGENE W. SCHEFFER,

DEPARTMENT OF HEALTH, SOUTHWEST CORNER OF FIFTY-FIFTH STREET AND SIXTH AVENUE, BORDUCH OF MANHATTAN, CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Board of Health of the Department of Health until 9.45 a. m., on

# WEDNESDAY, DECEMBER 4, 1907.

FOR FURNISHING AND DELIVERING MEAT, AS REQUIRED, TO THE RIVERSIDE HOSPITAL, AT NORTH BROTHER ISLAND, BOROUGH OF THE BRONX, AND THE KINGSTON AVENUE HOSPITAL, AT KINGSTON AVENUE HOSPITAL, AT KINGSTON AVENUE AND FENIMORE STREET, BOROUGH OF BROOKLYN, CITY OF NEW YORK, DURING THE YEAR 1907. The time for the delivery of the supplies and the performance of the contract is during the year 1907.

The amount of security required is fifty per cent. (50%) of the amount of the bid.

Bids will be compared and the contract awarded to the lowest bidder for each class, as indicated by the specifications.

Blank forms and further information may be obtained at the office of the Chief Clerk of the Department of Health, southwest corner of Fifty-fifth street and Sixth avenue, Borough of Manhattan.

THOMAS DARLINGTON, M. D., President;

ALVAH H. DOTY, M. D., THEODORE A. BINGHAM, Board of Health.

Dated November 22, 1907.

ar See General Instructions to Bidders on the last page, last column, of the "City Record."

# DEPARTMENT OF PARKS.

OFFICE OF THE DEPARTMENT OF PARKS, ZBROWSKI MANSION, CLAREMONT PARK, BOROUGH OF THE BRONX.

S EALED BIDS WILL BE RECEIVED BY the Park Commissioner at the above office of the Department of Parks until 12 o'clock m.

# FRIDAY, DECEMBER 6, 1907.

FOR THE SOLE PRIVILEGE OF SELLING REFRESHMENTS, SPIRITUOUS LIQUORS EXCEPTED, AND RENTING BATHING SUITS AT BATH HOUSES AT ORCHARD BEACH, PELHAM BAY PARK, FOR ONE

YEAR.
FOR THE RENTAL OF BUILDING AND PRIVILEGE OF SELLING REFRESHMENTS, SPIRITUOUS LIQUORS EXCEPTED, THEREIN IN ST. MARY'S PARK, FOR ONE YEAR. Each of the above places to be bid for separately.

No bids will be considered unless accompanied by a certified check or money to the amount of one-quarter of the sum bid for the rent and privilege per year.

The bids will be compared and the privilege will be awarded to the highest responsible bidder.

The Commissioner reserves the right to reject by or all bids. any or all bids.

Form of proposal and full information as to bidding can be obtained at the office of the Department of Parks, Zbrowski Mansion, Claremont Park, New York City.

JOSEPH I. BERRY, Commissioner of Parks, Borough of The Bronx.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

#### DEPARTMENT OF FINANCE.

NOTICE TO PROPERTY OWNERS.

NOTICES OF ASSESSMENTS FOR OPEN-ING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF the Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears, of assessments for OPENING AND ACQUIRING TITLE to the following-named avenues in the BOROUGH OF BROOKLYN:

TITLE to the following-named avenues in the BOROUGH OF BROOKLYN:

TWENTY-NINTH, THIRTY-FIRST AND THIRTY-FIRST AND THIRTY-SECOND WARDS, SECTION 16.

FOSTER AVENUE—OPENING, from westerly line of Flatbush avenue to easterly line of Coney Island avenue. Confirmed June 26, 1906; entered November 27, 1907. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Commencing at a point on the westerly side of Flatbush avenue where the said westerly side of Flatbush avenue where the said westerly side of Flatbush avenue is intersected by a line drawn parallel with the northerly side of Foster avenue and distant 225 feet northerly therefrom; running thence westerly along said line drawn parallel with the northerly side of Foster avenue and distant 225 feet northerly therefrom to the easterly side of Coney Island avenue to a point where the said easterly side of Coney Island avenue to a point where the said easterly side of Coney Island avenue is intersected by a line drawn parallel with the southerly line of Foster avenue and distant 225 feet southerly therefrom; running thence easterly along said line drawn parallel with the southerly line of Foster avenue and distant 225 feet southerly therefrom; running thence easterly along said line drawn parallel with the southerly side of Foster avenue and distant 225 feet southerly therefrom; running thence easterly along said line drawn parallel with the southerly side of Foster avenue and distant 225 feet southerly therefrom; running thence northerly along the westerly side of Flatbush avenue, and running thence northerly along the westerly side of Flatbush avenue to the point or place of beginning.

THIRTIETH WARD, SECTION 17.

THIRTIETH WARD, SECTION 17

THIRTIETH WARD, SECTION 17.

FOURTEENTH AVENUE—OPENING, from Sixty-fifth street to Sixty-eighth street. Confirmed July 31, 1907; entered November 27, 1907. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the southerly side of Sixty-fifth street and distant 100 feet easterly of the easterly side of Fourteenth avenue; running thence southerly and parallel with Fourteenth avenue to the northerly side of Sixty-eighth street; running thence westerly along the mortherly side of Sixty-eighth street to a point distant 100 feet westerly of the westerly side of Fourteenth avenue; running thence northerly and parallel with Fourteenth avenue to the southerly side of Sixty-fifth street; running thence northerly and parallel with Fourteenth avenue to the southerly side of Sixty-fifth street; running thence easterly and along the southerly side of Sixty-fifth street to the point or place of beginning.

The above entitled assessments were entered on the day hereinbefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of entry of the assessments, interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

in section 1006 of the Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Reçord of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears of Taxes and Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. until 12 m., and all payments made thereon on or before January 27, 1907, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 27, 1907.

City of New York, Department of Finance, Comptroller's Office, November 27, 1907.

# NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF the Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the EIGHTH WARD OF THE BOROUGH OF BROOKLYN, pursuant to the provisions of chapter 365 of the Laws of 1889, and the act amendatory thereof, and chapter 378 of the Laws of 1897, and chapter 466 of the Laws of 1901 amendatory thereof, to wit:

to wit:
FORTY-FIRST STREET—GRADING AND
FAVING, from Second avenue to Third avenue.
Area of assessment: Both sides of Forty-first
street, between Second and Third avenues, and
to the extent of one-half the blocks on the terminating avenues.
FORTY-FIRST STREET—GRADING AND
PAVING, from Fifth avenue to Sixth avenue.
Area of assessment: Both sides of Forty-first
street, between Fifth and Sixth avenues, and
to the extent of one-half the blocks on the terminating avenues.

FORTY-THIRD STREET—GRADING, from Fifth avenue to the old city line (excepting from Fifth avenue to Seventh avenue). Area of assessment: Both sides of Forty-third street, from Seventh avenue to the old city line, and to the extent of one-half the blocks on Seventh and Eighth avenues.

FORTY-FOURTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-fourth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-FOURTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-fourth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-FIFTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-fifth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating

FORTY-SIXTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-sixth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-SIXTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-sixth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FORTY-SEVENTH STREET — GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Forty-seventh street, between Second and Third avenues, and to the extent of one-half the blocks on the ter-

minating avenues

minating avenues.

FORTY-EIGHTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Forty-eighth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues; also Lots Nos. 22 to 33, inclusive, of Block 225.

FORTY-EIGHTH STREET—GRADING, from Fifth avenue to old city line. Area of assessment: Both sides of Forty-eighth street, between Fifth avenue and the old city line, and to the extent of one-half of the blocks on the intersecting and terminating avenues; also Lots Nos. 23 to 33, inclusive, of Block 225; also Lots Nos. 9 to 12, inclusive, of Block 225; also Lot No. 39, of Block 249.

FIFTIETH STREET—GRADING AND PAV-

FIFTIETH STREET—GRADING AND PAV-ING, from Second to Third avenue. Area of assessment: Both sides of Fiftieth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SECOND STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-second street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues; also Lots Nos. 104 and 111 of Block 222.

FIFTY-THIRD STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-third street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-FOURTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Fifty-fourth street, between Second and Third avenues, and to the extent of one-half the blocks on the terminating

FIFTY-FIFTH STREET—GRADING AND PAVING, from Fifth avenue to Sixth avenue. Area of assessment: Both sides of Fifty-fifth street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SEVENTH STREET—GRADING AND PAVING, between First avenue and Second avenue. Area of assessment: Both sides of Fifty-seventh street, between First and Second avenues, and to the extent of one-half the blocks on the terminating avenues.

FIFTY-SEVENTH STREET—GRADING AND PAVING, from Second to Third avenue. Area of assessment: Both sides of Fifty-seventh street, between Second and Third avenues, and to the extent of one-half the blocks on the termination. minating avenues

FIFTY-SEVENTH STREET—GRADING AND PAVING, from Fifth to Sixth avenue. Area of assessment: Both sides of Fifty-seventh street, between Fifth and Sixth avenues, and to the extent of one-half the blocks on the terminating avenues.

minating avenues.

SIXTH AVENUE—GRADING AND PAV-ING, from Thirty-ninth street to Forty-first street. Area of assessment: Both sides of Sixth avenue, between Thirty-ninth and Forty-first streets, and to the extent of one-half the blocks on the intersecting and terminating streets.

SIXTH AVENUE—GRADING, from Thirty-ninth street to the old city line. Area of assessment: Both sides of Sixth avenue, from Thirty-ninth street to the old city line, and to the extent of one-half the blocks on the following named intersecting streets, viz.: Fortieth, Forty-first, Forty-fourth to Forty-eighth, inclusive, Fiftieth to Fifty-ninth, inclusive.

SIXTH AVENUE—GRADING AND PAV-

named intersecting streets, viz.: Fortieth, Forty-first, Forty-fourth to Forty-eighth, inclusive, Fiftieth to Fifty-ninth, inclusive.

SIXTH AVENUE—GRADING AND PAVING, from Forty-fourth street to old city line. Area of assessment: Both sides of Sixth avenue, from Forty-fourth street to old city line, and to the extent of one-half the blocks on the intersecting streets, excepting Forty-ninth street.

SEVENTH AVENUE—GRADING, from Thirty-ninth street to old city line. Area of assessment: Both sides of Seventh avenue, from Thirty-ninth street to the old city line, and to the extent of one-half the blocks on the intersecting streets west of Seventh avenue; also to the same extent on the intersecting streets between Thirty-ninth and Fifty-second streets east of Seventh avenue; also on the intersecting streets from Fifty-second to Fifty-sixth street, between Court, Kings County, on November 9, 1900, and that the Board of Assessors of The City of New York thereafter levied and assessed the "Eighth Installment" thereon, and transmitted the same to the Comptroller on November 12, 1907, for entry and collection.

That the "Eighth Installment" in each case is now due and payable, and unless the amount thereof assessed for benefit on any person or property shall be paid within sixty days after December 1, 1907, interest shall be charged, collected and received thereon at the rate of seven per cent, per annum, to be calculated from December 1, 1907, to the date of payment.

The owner of any parcel of land assessed for any of the foregoing assessments may, pursuant to the provisions of chapter 365, Laws of 1896, at any time after the first installment be-

comes due and payable, pay all the installments not levied of said assessment, and the same will be thereupon canceled.

The above assessments are payable to the Collector of Assessments and Arrears, at the office of the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics' Bank Building, Court and Montague streets, Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 30, 1908, will be exempt from interest as above provided.

HERMAN A. METZ,

above provided.

HERMAN A. METZ,
Comptroller.

City of New York, Department of Finance,
Comptroller's Office, November 21, 1907.

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#### NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessment for LOCAL IMPROVEMENTS in the BOROUGH OF RICHMOND;

FIRST WARD.

FIRST WARD.

RICHMOND TERRACE—CONSTRUCTING
AN INTERCEPTING AND COMBINED
SEWER, from Nicholas street to Westervelt avenue. Area of assessment: Blocks bounded by
Westervelt avenue, Richmond terrace, Hamilton
avenue and St. Mark's place.
—that the same was confirmed by the Board of
Assessors November 26, 1907, and entered on
November 26, 1907, in the Record of Titles of
Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and
Assessments and of Water Rents, and unless the
amount assessed for benefit on any person or
property shall be paid within sixty days after
the date of said entry of the assessment, interest will be collected thereon, as provided in
section 1019 of said Greater New York Charter.

Said section provides that "If any such assess-

the date of said entry of the assessment, in section 1019 of said Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof on the said Record of Titles of Assessments it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * "The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at Borough Hall, St. George, Borough of Richmond, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before January 25, 1908, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

City of New York, Department of Finance, Comptroller's Office, November 26, 1907.

# NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF the Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the BOROUGH OF THE BRONX:

TWENTY-FOURTH WARD, SECTION 11. VYSE AVENUE—SEWER, between Boston road and East One Hundred and Seventy-seventh street. Area of assessment: Both sides of Vyse avenue, from Boston road to One Hundred and Seventy-seventh street.

TWENTY-FOURTH WARD, SECTIONS 11
AND 12.

BURNSIDE AVENUE—REGULATING,
GRADING, CURBING, FLAGGING, LAYING
CROSSWALKS, BUILDING APPROACHES
AND PLACING FENCES, from Tremont avenue
to Ryer avenue. Area of assessment: Both sides
of Burnside avenue, from Tremont avenue to
Ryer avenue, and to the extent of half the block
at the intersecting and terminating streets and
avenues.

TWENTY-FOURTH WARD, SECTION 12.

TWENTY-FOURTH WARD, SECTION 12.

VIREO AVENUE—SEWER, from East Two Hundred and Thirty-fifth to East Two Hundred and Thirty-fifth to East Two Hundred and Thirty-sixth street.

Area of assessmenticated and Thirty-sixth street.

Area of assessmenticated and Thirty-sixth to East Two Hundred and Thirty-sixth street.

—that the same were confirmed by the Board of Assessors November 26, 1907, in the Record of Titles of Assessments and Arrears of Taxes and Assessments and Arrears of Taxes and Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears and Assessment in the said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive interest thereon at the rate of the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * "An assessment became a lien, as provided by section 159 of this act provides * * "An assessment became a lien, as provided by section 159 of this act provides and Arrears of Taxes and Assessments and Arrears at the Bureau for the same the date of the Bronx, between the hours of Taxes and Assessments and Afrears at the Bureau for the same three the same than the date when the above assessment and Afrears at the Bureau for the period of the same than the date when the above assessments and Afrears at the Bureau for the period of the same than the date of the Bronx, between the hours of Taxes and Assessments and Afrears at the Bureau for the period of the blocks to the southerly line of Jackson avenue to the same threat the period of the blocks to the southerly li

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named street in the BOROUGH OF THE BRONX:

# TWENTY-FOURTH WARD, ANNEXED TER-RITORY.

TWENTY-FOURTH WARD, ANNEXED TERRITORY.

THE FIRST STREET (UNNAMED)—OPENING, east of the Bronx river, extending from Tremont avenue to Bronx Park. Confirmed June 8, 1907; entered November 21, 1907. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at the point of intersection of the southerly prolongation of a line parallel to the easterly side of Tremont avenue and distant 100 feet easterly side of Tremont avenue and distant 100 feet easterly side of First street) with a line parallel to and distant 100 feet southerly from the southerly side of Tremont avenue; running thence westerly along the last mentioned parallel line and its prolongation westwardly to the centre line of the Bronx river; thence northerly along the said centre line of the Bronx river to its intersection with the westerly prolongation of a line parallel to and distant 200 feet northerly from the southerly boundary line of Bronx Park; thence easterly along the last mentioned westerly prolongation and parallel line and its prolongation westwardly to its intersection with a line parallel to and distant 100 feet easterly from the easterly side of Bronx Park avenue; thence southerly along the last mentioned parallel line to its intersection with a line parallel to and distant 100 feet easterly from the casterly side of Tremont avenue (said easterly side of Tremont avenue being the southerly prolongation of the easterly side of First street); thence southerly along the last mentioned parallel line and its prolongation of the easterly side of First street); thence southerly along the last mentioned parallel line and its prolongation of the easterly side of First street); thence southerly along the last mentioned line parallel to and distant 100 feet easterly from the casterly side of Tremont avenue being the southerly prolongation of the easterly side of First

ment interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive the amount of such assessment to charge, collect and receive the tenton per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 150 of this act."

Section 150 of this act. Provides " "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." " " "

The above assessment is payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m.; and all payments made thereon on or before January 20, 1908, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A, METZ, Comptroller.

HERMAN A. METZ, Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 21, 1907. n22,d6

# NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF the Greater New York Charter, the Computoller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears of Assessments for OPENING AND ACQUIRING TITLE to the following-named street in the BOROUGH OF QUEENS:

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * "

The above assessment is payable to the Collector of Assessments and Arrears, at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, at the Hackett Building, No. 51 Jackson avenue, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. until 12 m., and all payments made thereon on or before January 20, 1908, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ,

Comptroller.

City of New York—Department of Finance, Comptroller's Office, November 21, 1907.

n22,46

#### NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF the Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS in the BOROUGH OF THE BRONX:

TWENTY-THIRD WARD, SECTION 10.
TEMPORARY CONNECTION FROM THE
EXISTING SEWER IN LONGFELLOW
AVENUE to the existing sewer in HOME
STREET, at the intersection of Longfellow avenue and Home street. Area of assessment:
Both sides of Longfellow street, from One Hundred and Sixty-seventh street to West Farms road.

TWENTY-FOURTH WARD, SECTION 11.

RECEIVING BASINS AT THE NORTHEAST CORNER OF MORRIS AND TREMONT AVENUES; southeast corner of TREMONT AND MORRIS AVENUES; at the northeast, southeast and northwest corners of MORRIS AVENUE AND EAST ONE HUNDRED
AND SEVENTY-NINTH STREET. Area of
assessment: Block bounded by Tremont avenue,
Morris avenue, Creston avenue and One Hundred
and Seventy-minth street; block bounded by
Tremont avenue, Morris avenue, One Hundred
and Seventy-seventh street and the Grand Boulevard and Concourse, and blocks bounded by
Walton avenue, Creston avenue, One Hundred
and Seventy-ninth street and Burnside avenue
EAST ONE HUNDRED AND EIGHTYNINTH STREET—SEWER AND APPURTENANCES, between Park Avenue East and
Third avenue. Area of assessment: Both sides
of One Hundred and Eighty-ninth street, from
Park Avenue East to Third avenue.
—that the same were confirmed by the Board of
Assessors November 19, 1907, and entered November 19, 1907, in the Record of Titles of
Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and
Assessments and of Water Rents, and unless
the amount assessed for benefit on any person
or property shall be paid within sixty days after
the date of said entry of the assessments interest will be collected thereon, as provided in
section 1019 of said Greater New York Charter.
Said section provides, in part, that "If any
such assessment shall remain unpaid for the TWENTY-FOURTH WARD, SECTION 11.

terest will be collected thereon, as provided in section 1019 of said Greater New York Charter.

Said section provides, in part, that "If any such assessment shall remain unraid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 150 of this act."

Section 150 of this act provides * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * "The above assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the bours of 9 a. m. and 2 p. m., and all payments made thereon on or before January 18, 1008, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when the above assessments became liens to the date of payment.

HERMAN A. METZ,

Comptroller.

HERMAN A. METZ, Comptroller. City of New York. Department of Finance, Comptroller's Office, November 19, 1907.

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court, and the entering in the Bureau for the Collection of Assessments and Arrears of the assessment for OPENING AND ACQUIRING TITLE to the following named street in the BOROUGH OF THE BRONX: to the following nam OF THE BRONX:

TWENTY-THIRD WARD, SECTION 10.

TWENTY-THIRD WARD, SECTION 10.

BARRETTO STREET—OPENING, from West-chester avenue to Edgewater road. Confirmed March 1, 1907; entered November 18, 1907. Area of assessment includes all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of The Bronx, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the northeasterly pierhead line of the East river with the southerly prolongation of a line parallel to and 100 feet westerly from the westerly line of Tiffany street; running thence northerly and northwesterly along said prolongation and parallel line and its northwesterly prolongation to an intersection with the southerly prolongation of a line parallel to and 100 feet westerly from the westerly line of that portion of Kelly street lying north of Dongan street; thence northerly along said last mentioned prolongation and parallel line to an intersection with a line parallel to and 100 feet northwesterly from the northwesterly along said last mentioned parallel to and 100 feet northwesterly from the northwesterly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet westerly from the westerly from the westerly line of Barretto street; thence northerly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet westerly from the westerly line of Barretto street; thence casterly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet northerly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet northerly from the northerly line of East One Hundred and Sixty-seventh street; thence easterly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet easterly from the easterly line of Barretto street; thence southerly along said last mentioned

parallel line to its intersection with a line parallel to and 100 feet northwesterly from the northwesterly line of Westchester avenue; thence northeasterly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet easterly from the easterly line of Southern boulevard; thence southerly along said last mentioned parallel line to its intersection with a line parallel to and 100 feet northeasterly from the northeasterly line of Hunt's Point road; thence southeasterly along said last mentioned parallel line to its intersection with the northerly prolongation of a line parallel to and 100 feet easterly from the easterly line of Coster street; thence southerly along said last mentioned parallel line to its intersection with the northeasterly pierhead line to its intersection with the northeasterly pierhead line of the East river; thence northwesterly along said northeasterly pierhead line to the point of place of beginning.

The above entitled assessment was entered on the date hereinbefore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents. Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any souch assessment and continues to the section to the continues to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section to the continue to the section

days after the date of said entry of the assessment interest will be collected thereon, as provided in section 1006 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record." * * *

The above assessment and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, corner of One Hundred and Seventy-seventh street and Third avenue, Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m.; and all payments made thereon on or before January 17, 1908, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when above assessment became a lien to the date of payment.

HERMAN A. METZ,

Comptroller.

City of New York, Department of Finance, Comptroller's Office, November 18, 1907.

120,044

CORPORATION SALE OF BUILDINGS AND APPURTENANCES THERETO ON CITY REAL ESTATE.

PUBLIC NOTICE IS HEREBY GIVEN that the Commissioners of the Sinking Fund, by virtue of the powers vested in them by law, will offer for sale at public auction the buildings, parts of buildings, etc., standing within the lines of property owned by The City of New York, acquired by it for bridge purposes in the

# Borough of Manhattan.

Borough of Manhattan.

Being all the remaining buildings on the triangular block bounded by Park row, Tryon row and Centre street, which were not sold at previous sales held on April 1, 1907, and August 13, 1907, and also the remaining buildings on Duane street and Chambers street, between Park row and Centre street. The property to be sold is more particularly described on a certain map on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

Pursuant to resolutions of the Commissioners of the Sinking Fund, adopted at a meeting held on the 13th day of August, 1907, the sale of the above buildings and appurtenances thereto will be held by the direction of the Comptroller on MONDAY, DECEMBER 2, 1907,

MONDAY, DECEMBER 2, 1907, at 11 o'clock, on the premises, on the following

TERMS AND CONDITIONS.

at 11 o'clock, on the premises, on the following

TERMS AND CONDITIONS.

It being understood that the purchasers at the time of the auction sale, when the said bid is accepted by the City, shall execute a contract with The City of New York for the proper compliance with these terms and conditions, which contract shall provide for liquidated damages at so much per day for each and every day the removal of the buildings, etc., remains incomplete after the expiration of sixty days from the day of sale. A copy of the contract is on file in the office of the Collector of City Revenue, Department of Finance, Room 141, No. 280 Broadway, Borough of Manhattan.

The buildings and appurtenances thereto will be sold to the highest bidder, who must pay immediately cash or a certified check drawn to the order of the Comptroller of The City of New York, and must either give a certified check or as security for the faithful performance of the terms and conditions of the sale and contract. Where the amount of the purchase price as security for the faithful performance of the terms and conditions of the sale and contract. Where the amount of the purchase price does not equal or exceed the sum of fifty dollars, the sum of fifty dollars shall be the amount of the security deposited. This security must be deposited within forty-eight hours after the sale, and may at any time after the expiration of the contract period. All the buildings, structures and foundations, of every class and description, within the described area are to be torn down to the existing curb level, and structures which may exist within any of the buildings, such as engine beds, boiler settings, etc., and all stoops and area walls shall be torn down to the same level. All partitions, sheds and fences shall be removed from the premises. All combustible matter, such as tar and felt roofing, broken laths and fragments of timber, chips, splinters, etc., which are of no value shall be gathered together by the contractor and burned or carried away.

The purchaser at t

The work of removal must be carried on in every respect in a thorough and workmanlike manner and must be completed within sixty days from the day of sale, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damages and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of the said buildings.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furrings, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beamholes, etc., bricked up, and the wall pointed and made exterior. The roofs of the adjacent buildings shall be properly flashed and painted and made wateright where they have been disturbed by the operation of the contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids.

H. A. METZ,

H. A. METZ,
Comptroller.
City of New York, Department of Finance,
Comptroller's Office, October 29, 1907.

DEPARTMENT OF FINANCE, BUREAU FOR THE COLLECTION OF TAXES, NO. 57 CHAMBERS STREET (STEWART BUILDING), NEW YORK, NOVEMBER 1,

#### IMPORTANT TO TAXPAYERS.

IMPORTANT TO TAXPAYERS.

NOTICE IS HEREBY GIVEN TO ALL persons whose taxes for the year 1907 have not been paid before the 1st day of November of the said year, that unless the same shall be paid to the Receiver of Taxes at his office in the borough in which the property is located, as follows:

Borough of Manhattan, No. 57 Chambers street, Manhattan, N. Y.;

Borough of The Bronx, corner Third and Tremont avenues, The Bronx, N. Y.;

Borough of Brooklyn, Rooms 2, 4, 6 and 8, Municipal Building, Brooklyn, N. Y.;

Borough of Queens, corner Jackson avenue and Fifth street, Long Island City, N. Y.;

Borough of Richmond, Borough Hall, St. George, Staten Island, N. Y.;

—before the 1st day of December of said year, he will charge, receive and collect upon such taxes so remaining unpaid on that day, in addition to an amount of such taxes, one per centum of the amount thereof, as provided by sections 916 and 918 of the Greater New York Charter (chapter 378, Laws of 1897).

DAVID E, AUSTEN, Receiver of Taxes, n. 1,d1

NOTICE OF SALE OF LANDS AND TENE-MENTS WITHIN THAT PART OF THE CITY OF NEW YORK NOW KNOWN AS THE BOROUGH OF RICHMOND, FOR UNPAID TAXES AND ASSESSMENTS.

RICHMOND, FOR UNPAID TAXES AND ASSESSMENTS.

THE CITY OF NEW YORK, DEPARTMENT OF FINANCE, BURRAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS OF TAXES, ASSESSMENTS AND WATER RENTS, STEWART BUILDING, NO. 280 BROADWAY, BOROUGH OF MANHATTAN, NEW YORK CITY, August 10, 1907.

UNDER THE DIRECTION OF HERMAN A. Metz, Comptroller of The City of New York, the undersigned hereby gives public notice, pursuant to the provisions of section 1027 of the Greater New York Charter:

That the respective owners of the lands and tenements within that part of The City of New York now known as the Borough of Richmond, on which taxes have been laid and confirmed according to law by The City of New York for the years 1899, 1900, 1901, 1902 and 1903, including taxes on the real estate of corporations for the said years and taxes on the special franchises of corporations for the years 1900, 1901, 1902 and 1903, and which now remain due and unpaid;

And also the respective owners of all lands and tenements in The City of New York, situated in the borough aforesaid, on which the assessments have been laid according to law by the said City of New York for the years 1899, 1900, 1901, 1902, 1903 and 1904, and which now remain due and unpaid, are required to pay the amount of the said taxes and assessments so remaining due and unpaid, with the interest thereon at the rate of seven (7) per centum per annum, from the time when the same became due to the time of payment, together with the charges of this notice and advertisement, to the Collector of Assessments and Arrears, at his office in the Borough Hall, New Brighton, in the Borough of Richmond, in The City of New York, on

WEDNESDAY, NOVEMBER 20, 1907 at 10 o'clock in the forenoon of that day, for the

at 10 o'clock in the forenoon of that day, for the lowest term of years at which any person shall offer to take the same, in consideration of advancing the said taxes or assessments, as the case may be, and the interest thereon as aforesaid, to the time of sale, together with the charges of this notice and advertisement, and all other costs and charges accrued thereon; and that such sale will be continued from time to time until all the lands and tenements so advertised for sale shall be sold.

Notice is hereby further given that a detailed statement of such taxes and assessments and the ownership of the property taxed and on which such taxes and assessments remain unpaid, is published in a pamphlet and that copies of the Collector of Assessments and Arrears in the Boroughs of Manhattan and Richmond, and will be delivered to any person applying for the same.

DANIEL MOYNAHAN, Collector of Assessments and Arrears of The City of New York.

The foregoing sale will be continued on WEDNESDAY, DECEMBER 4, 1907 at 10 o'clock a. m., in Room 129, Borough Hall, Borough of Richmond. DANIEL MOYNAHAN. Collector of Assessments and Arrears.

DEPARTMENT OF FINANCE, CITY OF NEW YORK,

DEPARTMENT OF FINANCE, CITY OF NEW YORK, December 14, 1906.

UNTIL FURTHER NOTICE AND UNLESS otherwise directed in any special case vary companies will be accepted as sufficient upon the following contracts to the amounts named:

Supplies of Any Description, including Gas and Electricity—
One company on a bond up to \$50,000.

Two companies on a bond up to \$250,000.

Three companies on a bond up to \$250,000.

Three companies on a bond up to \$250,000.

Three companies on a bond up to \$125,000.

Regulating, Grading, Paving, Sewers, Water Mains, Dredging, Construction of Parks, Parkways, Etc.—
One company on a bond up to \$25,000.

Two companies on a bond up to \$25,000.

Two companies on a bond up to \$25,000.

Three companies on a bond up to \$25,000.

Two companies on a bond up to \$25,000.

Two companies on a bond up to \$25,000.

Two companies on a bond up to \$25,000.

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Two companies on a bond up to \$25,000.

Three companies on a bond up to \$25,000.

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Three companies on a bond up to \$25,000.

Three companies on a bond up to \$25,000.

Three companies on a bond up to \$25,000.

Three companies on a bond up to \$25,000.

All bonds exceeding \$250,000 will by that fact alone be considered hazardous risks, no matter what the nature of the work.

H. A. METZ, Comptroller.

# POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK, NO. 300 MULBERRY STREET.

EALED BIDS OR ESTIMATES WILL BE received by the Police Commissioner of the Police Department of The City of New York at the Bookkeeper's office, Central Department, until 10 o'clock a. m., on

FRIDAY, DECEMBER 6, 1907.

FRIDAY, DECEMBER 6, 1907.

FOR FURNISHING AND DELIVERING ONE GASOLINE TOURING FIVE-PASSENGER CAR.

The time for the delivery of the labor, materials and supplies and the performance of the contract is thirty days.

The amount of security required will be fifty per cent (50%) of the amount of bid or estimate.

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The bids will be compared and award made to the lowest bidder.

The bidder will state the price for which he will do all the work and provide, furnish and deliver all the labor and materials mentioned and described in said contract and specifications.

For particulars as to the nature and extent of the work required or of the materials to be furnished bidders are referred to the specifications and to the plans on file in the office of the Inspector of Repairs and Supplies of the Police Department, No. 300 Mulberry street, City of New York.

New York.

Blank forms and further information may be obtained at the Central Office of the Police Department, No. 300 Mulberry street, Borough of Manhattan.

THEODORE A. BINGHAM,

THEODORE A. BINGHAM, Police Commissioner. Dated November 21, 1907.

## See General Instructions to Bidders on the last page, last column, of the "City Record."

POLICE DEPARTMENT OF THE CITY OF NEW YORK, PROPERTY CLERE'S OFFICE, No. 300 MULBERRY STREET, NEW YORK.

DUBLIC NOTICE IS HEREBY GIVEN that the eighty-ninth public auction sale, consisting of watches, chains, charms, fobs, rings, pins, studs, opera-glasses, purses, pocket-books, handbags, handkerchiefs, gloves, scissors, knives, cameras, typewriters, plated ware, bicycles, baby carriages, etc., also condemned police property, consisting of beds, furniture, etc., will be held at the Property Clerk's Office, Room 9, No. 300 Mulberry street, at 10 a. m.

TUESDAY. DECEMBER 3, 1907.

TUESDAY, DECEMBER 3, 1907.
THEODORE A. BINGHAM,
Police Commissioner.

POLICE DEPARTMENT-CITY OF NEW YORK WNERS WANTED BY THE PROPERTY Clerk of the Police Department of The City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc.; also small amount of money taken from prisoners and found by Patrolmen of this Department.

THEODORE A. BINGHAM, Police Commissioner.

POLICE DEPARTMENT—CITY OF NEW YORK, BOROUGH OF BROOKLYN.

WNERS WANTED BY THE DEPUTY
Property Clerk of the Police Department
of The City of New York—Office, No. 200 State
street, Borough of Brooklyn—for the following
property, now in his custody, without claimants:
Boats, rope, iron, lead, male and female clothing,
boots, shoes, wine, blankets, diamonds, canned
goods, liquors, etc.; also small amount of money
taken from prisoners and found by Patrolmen
of this Department.

THEODORE A. BINGHAM,
Police Commissioner.

# BOROUGH OF RICHMOND.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF RICHMOND, BOROUGH HALL, ST. GEORGE, NEW BRIGHTON, NEW YORK CITY.

SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Richmond, at the above office, until 12 o'clock m. on

# TUESDAY, DECEMBER 3, 1907.

Borough of Richmond.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR FURNISHING AND DELIVERING 14 TABLES, 14 TABLE CASES AND 9 UPRIGHT CASES, FOR MUNICIPAL LIBRARY AND MUSEUM IN RICHMOND BOROUGH HALL. The time for the completion of the work and the full performance of the contract is sixty days.

The amount of security required is One Thou-sand Dollars (\$1,000).

The contracts must be bid for separately, and the bids will be compared and the contract awarded at a lump or aggregate sum for each

awarded at a lump or aggregate sum for each contract.

Bidders are requested to make their bids or estimates upon the blank form prepared by the President, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the said President. The plans and drawings may be seen and other information obtained at the office of the Commissioner of Public Works of the Borough of Richmond, Borough Hall, New Brighton, Borough of Richmond.

GEORGE CROMWELL, President. The City of New York, November 19, 1907.

27 See General Instructions to Bidders on the last page, last column, of the "City Record."

#### DEPARTMENT OF EDUCATION.

DEPARTMENT OF EDUCATION, CORNER OF PARK AVENUE AND FIFTY-NINTH STREET, BOROUGH OF MANHATTAN, CITY OF NEW YORK,

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 3 o'clock p. m. on

#### MONDAY, DECEMBER 2, 1907. Various Boroughs.

PIANOS.

FOR FURNISHING AND DELIVERING NEW PIANOS FOR VARIOUS SCHOOLS IN THE BOROUGHS OF MANHATTAN, THE BRONX, BROOKLYN, QUEENS AND RICHMOND.

The time allowed to complete the whole work will be 130 working days, as provided in the con-

The time allowed to complete the whole work will be 150 working days, as provided in the contract.

The amount of security required is One Hundred Dollars per instrument on each item.

Bids will be considered by the Committee on Buildings only when made by the manufacturers.

Bidders must indicate on the outside of the envelope containing the bids the number of instruments bid for under each item.

Bidders must state in the bid what action is to be supplied.

A separate proposal shall be submitted for each item and award will be made thereon.

Bidders must state the price of each or any article or item contained in the specifications or schedules herein contained or hereto annexed, by which the bids will be tested.

Extensions must be made and footed up, as the bids will be read from the total of each item and award made to the lowest bidder on each item.

item.

Delivery will be required to be made at the time and manner and in such quantities as may be directed.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent, at estimating room, ninth floor, Hall of the Board of Education, Park avenue and Fiftyninth street, Borough of Manhattan.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated November 20, 1907. £# See General Instructions to Bidders on the last page, last column, of the "City Record."

#### DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Department of Water Supply, Gas and Electricity, Room 1536, Nos. 13 to 21 Park Row, Borough of Manhattan, The City of New York.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

# TUESDAY, DECEMBER 10, 1907.

TUESDAY, DECEMBER 10, 1907.

FOR FURNISHING GAS FOR ND THE PUBLIC AMDS ON FOR ND THE PUBLIC AMDS ON FOR ND FOR FURNISHING GAS TO PUBLIC BUILDINGS, FROM JANUARY 1, 1908. TO BECEMBER 31, 1908, BOTH INCIDING PARKETS, WHEN REQUIRED, FOR MAKING CERTAIN REPAIRS TO LAMP-POSTS, AND FOR FURNISHING GAS TO PUBLIC BUILDINGS, FROM JANUARY 1, 1908. TO BECEMBER 31, 1908, BOTH INCIDING PARKETS, Which are public places in The City of New No. 1. Borough of The Bronx. No. 2. Borough of The Bronx. No. 3. Borough of Richmond. FOR FURNISHING GAS LAMPS, ETC ON THE STREETS, AND SO ON, AND FOR CONNECTING, LIGHTING, EXTINGUISH, RICHMOND FOR FURNISHING GAS LAMPS, ETC ON THE STREETS, AND SO ON, AND FOR FURNISHING BURNERS AND APPLIANCES FOR IMPROVED SYSTEM OF LIGHTING FOR FURNISHING BURNERS AND APPLIANCES FOR IMPROVED SYSTEM OF LIGHTING, No. 4. BOROUGH of Manhattan. No. 2. BOROUGH of Manhattan. No. 2. BOROUGH of Manhattan. No. 3. BOROUGH OF MANHATANING SUCKLAMPS, WELL BE FOR MEROLULE AND FOR FURNISHING BURNERS AND APPLIANCES FOR IMPROVED SYSTEM OF LIGHTING NO. 4. BOROUGH OF MANHATANING SUCKLAMPS, WELL BE FOR MEROLULE AND FOR FURNISHING REPAIRING AND MAINTAINING SUCKLAMPS, WELL BE FOR MEROLULE AND FOR FURNISHING NAPHTHA OR SIMILAR ILLUMINATING MATERIAL FOR THE PERICL LAMPS SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING BURNERS AND APPLIANCES OF FURNISHING NEW LAMPS AS REQUIRED, FOR FURNISHING NEW LAMPS AS REQUIRED, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR MEN LAMPS AS REQUIRED, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING SUPPLYING NAPHTHA, ETC., FOR MEN LAMPS, TO BECEMBER 31, 1908, BOTH INCULUS PARKS, TO BECEMBER 31, 1908, BOTH INCULSIV

UARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

For lighting streets, avenues, public buildings, parks and public places in The City of New York.

No. 1. Borough of Manhattan.

No. 2. Borough of The Bronx.

No. 3. Boroughs of Manhattan and The Bronx.

No. 2. Boroughs of Manna.

No. 3. Borough of Queens.

No. 4. Borough of Richmond.

The amount of the security required is twenty-five per cent. (25%) of the amount of the bid or estimate, except "for furnishing gas lamps," where the security required is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules, per lamp, lamp-post, column, service-pipe, stand-pipe or other unit of measure, by which the bids will be tested.

Blank forms may be obtained at the office of the Department, Room 1319.

JOHN H. O'BRIEN,

Commissioner.

November 23, 1907.

126,d10

M See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, Nos. 13 TO 21 PARK ROW, BOOKGOOGH OF MANHATTAN, THE CITY OF NEW YORK,

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on
TUESDAY, DECEMBER 10, 1907.

Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

**TUESDAY**, DECEMBER 10, 1907.*

FOR FURNISHING GAS FOR AND TO THE PUBLIC LAMPS ON THE STREETS, SUPPLYING GAS, ETC., FOR NEW LAMPS WHEN REQUIRED, FOR MAKING CERTAIN REPAIRS TO LAMP-POSTS, AND FOR FURNISHING GAS TO PUBLIC BUILDINGS, FROM JANUARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

FOR Ighting streets, avenues, public buildings, parks and public places in the Borough of Brooklyn, The City of New York.

FOR FURNISHING GAS LAMPS, ETC., ON THE STREETS, AND SO ON, AND FOR CONNECTING, LIGHTING, EXTINGUISHING, CLEANING, REPAIRING AND MAINTAINING THE SAME, AND ALSO LAMPS RELONGING TO THE CITY, SUPPLYING NEW LAMPS WHEN REQUIRED, AND FOR FURNISHING BURNERS AND APPLIANCES FOR IMPROVED SYSTEM OF LIGHTING ON THE STREETS, AVENUES, PARKS AND PUBLIC PLACES, FROM JANUARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

FOR FURNISHING BURNERS AND APPLIANCES FOR IMPROVED SYSTEM OF LIGHTING ON THE STREETS, AVENUES, PARKS AND PUBLIC PLACES, FROM JANUARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

FOR FURNISHING NAPHTHA OR SIMILAR ILLUMINATING MATERIAL FOR THE PUBLIC LAMPS USING SAME, AND FOR FURNISHING NAPHTHA OR SIMILAR ILLUMINATING MATERIAL FOR THE PUBLIC LAMPS USING SAME, AND FOR FURNISHING REPAIRING AND MAINTAINING SUCH LAMPS, SUPPLYING NAPHTHA, ETC., FOR NEW LAMPS, FOR FURNISHING NEW LAMPS, AS REQUIRED, FOR FURNISHING OR MAKING CERTAIN REPAIRS TO LAMP. SYSTEM OF TURNISHING NEW LAMPS, FOR FURNISHING BURNERS AND APPLIANCES OF IMPROVED SYSTEM OF TURNISHING NEW LAMPS, FOR FURNISHING OR MAKING CERTAIN REPAIRS TO LAMP. POSTS, AND TO DECEMBER 31, 1908, BOTH INCLUSIVE.

FOR FURNISHING BURNERS AND APPLIANCES OF IMPROVED SYSTEM OF TURNISHING PURNERS AND APPLIANCES OF TURNISHING OR MAKING CERTAIN REPAIRS TO LAMP. POSTS, AND FOR FURNISHING BURNERS AND APPLIANCES OF IMPROVED SYSTEM OF TURNISHING OR MAKING CERTAIN REPAIRS TO LAMP. POSTS, AND PUBLIC PLACES, FROM JANUARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

FOR FURNISHING PURNERS AND APPLIANCES

UARY 1, 1908, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

For lighting streets, avenues, public buildings, parks and public places in the Borough of Brocklyn, The City of New York.

The amount of the security required is twenty five (25) per cent. of the amount of the bid or estimate, except "for furnishing gas lamps," where the security required is fifty (50) per cent. of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules, per lamp, lamp-post, column, service-pipe, stand-pipe or other unit of measure, by which the bids will be tested.

Blank forms may be obtained at the office of the Department, Room 1319.

Commissioner.

New York, November 23, 1907.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, Nos. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW

EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m., on

#### TUESDAY, DECEMBER 10, 1907.

TUESDAY, DECEMBER 10, 1907.

FOR FURNISHING, PUTTING IN PLACE AND MAINTAINING ONE HUNDRED AND SIXTY GAS REGULATORS, FROM JANUARY 1, 1008, TO DECEMBER 31, 1908, BOTH INCLUSIVE.

For furnishing gas regulators in public buildings in the Borough of Brooklyn, The City of New York.

The amount of security required for furnishing gas regulators is fifty per cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules, per regulator, in the contract for gas regulators.

Blank forms may be obtained at the office of the Department, Room 1319.

JOHN H. O'BRIEN, Commissioner.

New York, November 23, 1907.

New York, November 23, 1907.

W See General Instructions to Bidders on the last page, last column, of the "City Record."

Department of Water Supply, Gas and Electricity, Room 1536, Nos. 13 to 21 Park Row, Borough of Manhattan, The City of New York.

C EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

#### FRIDAY, DECEMBER 6, 1907.

FRIDAY, DELEMBER 6, 1907.

FOR FURNISHING AND DELIVERING SPECIAL CROSSHEADS FOR LAMP-POSTS IN THE BOROUGH OF BROOKLYN.

The amount of security required for furnishing crossheads shall be twenty-five per cent. (25%) of the amount of the bid or estimate.

The time allowed for the delivery of the supplies and the performance of the contract will be thirty (30) calendar days.

The bidder will state the price of each item or article contained in the specifications or schedules, per crosshead, by which the bids will be tested.

Blank forms may be obtained at the office of

Blank forms may be obtained at the office of the Department, Room 1319.

JOHN H. O'BRIEN,
Commissioner.

New York, November 22, 1907.

gar See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY, ROOM 1536, Nos. 13 to 21 PARK ROW, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Water Supply, Gas and Electricity at the above office until 2 o'clock p. m. on

#### WEDNESDAY, DECEMBER 11, 1907. Boroughs of Manhattan and The Bronx.

Boroughs of Manhattan and The Bronx.

FOR FURNISHING, D'ELIVERING AND ERECTING A SYSTEM OF WATER CURTAINS, WITH ALL PIPING, VALVES, MANIFOLDS, SPRINKLER HEADS, BRACK-FTS, SUPPORTS AND ALL OTHER APPURTENANCES, COMPLETE, IN PLACE AND READY FOR OPERATION IN THE HIGH PRESSURE PUMPING STATIONS LOCATED AT OLIVER AND SOUTH STREETS, AND AT GANSEVOORT AND WEST STREETS, BOROUGH OF MANHATTAN.

The time allowed for doing and completing the work will be ninety calendar days.

The security required will be One Thousand Dollars (\$1,000).

The bidder will state the price, per unit, of each item of work or supplies contained in the specifications or schedule, by which the bids will be tested.

The bids will be compared and the contract awarded for all the work, articles, materials and supplies contained in the specifications or schedule attached thereto.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, and any further information may be obtained upon application therefor at the office of the Chief Engineer, Room 922, Nos. 13 to 21 Park row, Borough of Manhattan.

JOHN H. O'BRIEN,
Commissioner of Water Supply, Gas

21 Park row, Borough of Mannattan.
JOHN H. O'BRIEN,
Commissioner of Water Supply, Gas
and Electricity.
The City of New York, November 21, 1907.
n22,d11

@ See General Instructions to Bidders on the last page, last column, of the "City Record."

#### DEPARTMENT OF PUBLIC CHARITIES.

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock p. m. on

# THURSDAY, DECEMBER 5, 1907.

FOR FURNISHING AND DELIVERING:

1. FLOUR.

2. COAL.

3. BUTTER, EGGS AND YEAST.

4. ICE.

5. DRY GOODS, RUBBER GOODS, PLATED WARE, PAINTS, OILS AND GLASS, AND FOR OTHER MISCELLANEOUS SUPPLIES. The time for the performance of the contract is during the year 1908.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each class, line or item, as stated in the specifications. Blank forms and further information may be obtained at the office of the Department, foot of East Twenty-sixth street, Borough of Manhattan.

ROBERT W. HERBERD.

ROBERT W. HEBBERD,

The City of New York, November 23, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF PUBLIC CHARITIES, FOOT OF EAST TWENTY-SIXTH STREET, NEW YORK.

TO CONTRACTORS,

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received by the Department of Public Charities at the above office until 2.30 o'clock

#### THURSDAY, DECEMBER 5, 1907.

THURSDAY, DECEMBER 5, 1907.

FOR GROCERIES, PROVISIONS, VEGETABLES, ICE, FRESH MEATS, FRESH FISH, POULTRY AND FLUID MILK.

The time for the performance of the contract is during the year 1907.

The amount of security required is fifty (50) per cent. of the amount of the bid or estimate. The bidder will state the price per pound, per dozen, etc., by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the total and awards made to the lowest bidder on each line or item, as stated in the specifications.

Blank forms and further information may be obtained at the office of the Department, foot of East Twenty-sixth street, Borough of Manhattan.

ROBERT W. HEBBERD, Commissioner.

The City of New York, November 21, 1907 n21,d3

to See General Instructions to Bidders on the last page, last column, of the "City Record."

## DEPARTMENT OF BRIDGES.

DEPARTMENT OF BRIDGES, NOS. 13 TO 21 PARK ROW, BOROUGH OF MANHATTAN, CITY OF NEW YORK,

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Bridges at the above office until 2 o'clock p. m. on

#### MONDAY, DECEMBER 9, 1907.

FOR THE CONSTRUCTION OF THE MASONRY PIERS, SURFACE AND SUBSURFACE CHANGES, AND STEEL SUPERSTRUCTURE OF THE MANHATTAN AND BROOKLYN APPROACHES OF THE MANHATTAN BRIDGE, OVER EAST RIVER, BETWEEN THE BOROUGHS OF MANHATAN AND BROOKLYN.

The contractor will be required to begin work within five days of the date of certification of the contract by the Comptroller, and will be required to complete the entire work to the satisfaction of the Commissioner, and in accordance with the specifications, by September 1, 1999.

The amount of security to guarantee the faithful performance of the work will be Eight Hundred Thousand Dollars (\$800,000).

The right is reserved by the Commissioner to reject all the bids should be deem it to be to the interest of the City so to do.

Blank forms, plans and specifications may be obtained at the office of the Department of Bridges.

JAMES W. STEVENSON, Commissioner of Bridges.

Dated November 21, 1907.

AT See General Instructions to Bidders on the last page, last column, of the "City Record."

# DEPARTMENT OF CORRECTION.

DEPARTMENT OF CORRECTION, NO. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

# TUESDAY, DECEMBER 10, 1907.

No. 1. FOR FURNISHING AND DELIVER-ING GROCERIES. VEGETABLES, PROVISIONS, YEAST, FORAGE, ETC.
The time for the delivery of the articles, materials and supplies and the performance of the contract is during the year 1908.

The amount of security required is fifty percent. (50%) of the amount of the bid or estimate.

No. 2. FOR FURNISHING AND

mate,
No. 2. FOR FURNISHING AND DELIVERING DRY GOODS. HARDWARE, PAINTS,
OILS, LEATHER, TIN, CROCKERY AND
MISCELLANEOUS ARTICLES.
The time for the delivery of the articles, materials and supplies and the performance of the
contract is during the year 1908.
The amount of security required is fifty per
cent. (50%) of the amount of the bid or estimate.

cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, perpound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY, Commissioner.

Dated November 27, 1907.

The bidder will state the price per barrel, per ton, per pound, per dozen, etc., by which the bids the "City Record."

Department of Correction, No. 148 East Twentieth Street, Borough of Manhattan, The City of New York.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on TUESDAY, DECEMBER 10, 1907.

Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVER-ING FRUITS AND VEGETABLES.

The time for the delivery of the articles, ma-terials and supplies and the performance of the contract is during the year 1908.

The amount of security required is fifty per cent. (50%) of the amount of the bid or esti-mate.

No. 2. FOR FURNISHING AND DELIVER-ING ICE.

ING ICE.

The time for the delivery of the articles, materials and supplies and the performance of the contract is during the year 1908.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and the bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY,

JOHN V. COGGEY, Commissioner.

Dated November 27, 1907.

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AT See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, No. 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

#### THURSDAY, DECEMBER 5, 1907. Borough of Manhattan.

FOR FURNISHING AND DELIVERING HARDWARE, PAINTS, IRON, STEAM FITTINGS, LUMBER AND MISCELLANEOUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is ten days.

The amount of security required is fifty per cent. (50%) of the amount of the bid or estimate.

cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item. The bids on lumber will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY, Commissioner.

Dated November 21, 1907.

@ See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, NO 148 EAST TWENTIETH STREET, BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

# TUESDAY, DECEMBER 3, 1907.

No. 1. FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED FOR MAKING AND COMPLETING THE ALTERATIONS AND REPAIRS TO THE STEAMER "MASSASOIT."

The time for the completion of the work and the full performance of the contract is by or before 30 consecutive working days.

The amount of security required is fifty percent. (50%) of the amount of bid or estimate. Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be obtained at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY, Commissioner.

Dated November 18, 1907. nro,d3 ## See General Instructions to Bidders on the last page, last column, of the "City Record."

DEPARTMENT OF CORRECTION, NO 148 EAST TWENTIETH STREET, BOROUGE OF MANHATTAN, THE CITY OF NEW YORK.

S EALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

#### TUESDAY, DECEMBER 3, 1907. Borough of Manhattan.

Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVERING SUPPLIES FOR MANUFACTURING PURPOSES, ETC.

The time for the delivery of the articles, materials and supplies, and the performance of the contract is by or before thirty days.

The amount of security required is fifty percent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, perpound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and turther information may be obtained and the plans and drawings may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY.

JOHN V. COGGEY, Commissioner.

Dated November 18, 1907.

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£T See General Instructions to Bidders on the last page, last column, of the "City Record."

Department of Correction, No 148 East Twentieth Street, Borough of Manhattan, The City of New York.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m. on

#### TUESDAY, DECEMBER 3, 1907. Borough of Manhattan.

No. 1. FOR FURNISHING AND DELIVER-ING HARDWARE, PAINTS, IRON, STEAM FITTINGS, LUMBER AND MISCELLANE-OUS ARTICLES.

The time for the delivery of the articles, materials and supplies and the performance of the contract is by or before ten days.

The amount of security required is fifty percent. (50%) of the amount of the bid or estimate.

cent. (50%) of the amount of the bid or estimate.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from the totals and awards made to the lowest bidder on each item.

The bids on lumber will be compared and the contract awarded at a lump or aggregate sum.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed,

Blank forms and further information may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 East Twentieth street.

JOHN V. COGGEY,

Commissioner.

JOHN V. COGGEY, Dated November 18, 1907.

### See General Instructions to Bidders on the last page, last column, of the "City Record."

#### BOARD OF CITY RECORD.

PROPOSALS FOR BIDS OR ESTIMATES.

SEALED BIDS OR ESTIMATES WILL BE received at the office of the Supervisor of the City Record, Room 807, Park Row Building, Nos. 13 to 21 Park row, in The City of New York, until 11 o'clock a. m. on

THURSDAY, DECEMBER 5, 1907. THURSDAY, DECEMBER 5, 1907.

FOR SUPPLYING PRINTED, LITHOGRAPHED OR STAMPED FORMS, PAMPHLETS, PRINTED BLANKS AND STATIONERY, INCLUDING LETTER AND
WRITING PAPER AND ENVELOPES, WITH
PRINTED HEADINGS OR INDORSEMENTS,
ETC., FOR THE USE OF THE COURTS AND
THE DEPARTMENTS AND BUREAUS OF
THE GOVERNMENT OF THE CITY OF NEW
YORK DURING THE YEAR 1908.

The time of delivery shall not be later than
June 30, 1908, except under the following conditions:

The time of delivery shall not be large June 30, 1908, except under the following conditions:

First—Delivery must be made not more than 30 days after the receipt of copy, if required by the Supervisor.

Second—Where revised copy is required by the character of the sample, all work shall be completed within 30 days after such revised copy is received from the Department by the contractor.

The amount of security shall be twenty-five per cent, of the amount of the bid.

The bidder must state the price for each item and the total price of each schedule. The bids will be tested and the award will be made to the lowest bidder by schedule.

Bidders will write out the total amount of their estimates in addition to inserting the same in figures.

estimates in addition to inserting the same in figures.

Delivery will be required to be made at the office of the City Record from time to time and in such quantities as may be directed by the Supervisor of the City Record.

Bidders are requested to make their bids or estimates upon the blank form prepared by the Board of City Record, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel, can be obtained upon aplication therefor at the office of the City Record, where further information can be obtained.

GEORGE R. McCLELLAN.

GEORGE B. McCLELLAN,
Mayor;
FRANCIS KEY PENDLETON,
Corporation Counsel;
HERMAN A. METZ,
Comptroller;

Board of City Record. New York, November 22, 1907. See General Instructions to Bid-

# SUPREME COURT-FIRST DEPART-MENT.

the "City Record."

FIRST DEPARTMENT.

n the matter of the application of The City of New York, relative to the opening of WHITE PLAINS ROAD (although not yet named by proper authority), from the northern boundary of The City of New York to Morris Park avenue, in the Twenty-fourth Ward, Borough of The Bronx, in The City of New York. In repetition relative to damage caused by the closing, discontinuance and abandonment of old White Plains road, Elliott avenue and Barker avenue.

N OTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above entitled matter will be presented for taxation to one of the Justices of the Supreme Court of the State of New York, First Department, at a Special Term thereof, Part I., to be held at the County Court House, in the Borough of Manhattan, in The City of New York, on the 17th day of December, 1907, at 10.30 o'clock in fore-

noon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Clerk of the County of New York, there to remain for and during the space of ten days, as required by the provisions of section 999 of the Greater New York Charter, as amended by chapter 466 of the Laws of 1901. Dated Borough of Manhattan, New York, No-

CHAS. DONOHUE, EDWIN W. FISKE, SAMUEL McMILLAN, Commissioners.

John P. Dunn, Clerk.

ngo,dir

#### FIRST DEPARTMENT.

In the matter of acquiring title by The City of New York to certain lands and premises situated on the EASTERLY LINE OF TENTIA AVENUE, between Fiftieth and Fifty-first streets, in the Borough of Man. attan, City of New York, duly selected as a site for a public library, according to law.

NOTICE IS HEREBY GIVEN THAT THE report of S. Stanwood Menken, Adam T. Schneider and Ezekiel R. Thompson, Commissioners of Estimate and Appraisal, dux, appointed in the above-entitled proceeding, which report bears date the 25th day of November, 1907, was filed in the office of the Board of Estimate and Apportionment of The City of New York on the 26th day of November, 1907, and a duplicate of said report was filed in the office of the Clerk of the County of New York on the same day.

of the Clerk of the County of New York on the same day.

Notice is further given that the said report will be presented for confirmation to the Supreme Court of the State of New York, in the First Judicial District, at Special Term, Part III. thereof, to be held at the County Court House, in the Borough of Manhattan, in The City of New York, on the 27th day of December, 1907, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, November 26, 1907.

FRANCIS K. PENDLETON,

FRANCIS K. PENDLETON,
Corporation Counsel.
Hall of Records, Borough of Manhattan, City
New York.

#### FIRST DEPARTMENT.

In the matter of acquiring title by The City of New York to certain lands and premises situated on the northerly side of ONE HUNDRED AND FIFTH STREET, between Lexington and Park avenues, in the Borough of Manhattan, in The City of New York, duly selected as a site for school purposes.

O'Neil and Ferdinand Levy, Commissioners of Estimate and Appraisal, duly appointed in the above-entitled proceeding, which report bears date the 12th day of November, 1907, was filed in the office of the Board of Education of The City of New York, on the 22d day of November, 1907, and a duplicate of said report was filed in the office of the Clerk of the County of New York on the same day.

Notice is further given that the said report will be presented for confirmation to the Supreme Court of the State of New York, in the First Judicial District, at Special Term, Part III. thereof, to be held at the County Court House, in the Borough of Manhattan, in The City of New York, on the 23d day of December, 1907, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, November 22, 1907, FRANCIS KEY PENDLETON, Corporation Counsel.

Hall of Records, Borough of Manhattan, City of New York.

# FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of the FIFTH NEW STREET north of West One Hundred and Eighty-first street (Watkins place), extending from Broadway to first new avenue west of Broadway (Bennett avenue), in the Twelfth Ward, Borough of Manhattan, City of New York.

OTICE IS HEREBY GIVEN, THAT BY an order of the Supreme Court, bearing date the 26th day of July, 1907, and duly entered in the office of the Clerk of the County of New York at his office in the Borough of Manhattan, in The City of New York, on the 1st day of August, 1907, a copy of which order was duly filed in the office of the Register of the County of New York, and indexed in the Index of Conveyances, Block No. 2180, we, Harvey Watterson, Gustav Lange, Jr., and James Shelton Meng, were appointed Commissioners of Estimate for the purpose of making a just and equitable estimate and assessment of the loss and damage, to the respectively entitled unto or interested in the lands, tenements, hereditaments and premises estimate and assessment of the loss and damage, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening and extending the above mentioned street or avenue, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of New York on the 1st day of August, 1907, and the said Harvey Watterson was appointed Commissioner of Assessment, for the purpose of making a just and equitable estimate and assessment of the value of the benefit and advantage of the said street or avenue so to be opened and extended, to the respective owners, lessees, parties and persons respectively entitled to or interested in the respective lands, tenements, hereditaments and premises situated within the area of assessment adopted by the Board of Estimate and Apportionment and not required for the purpose of opening and extending the same, but benefited thereby, the said area of assessment being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached filed herein in the office of the Clerk of the County of New York on the 1st day of August, 1907, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties re-

quired of us by chapter 17, title 4 of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening and extending the said street or avenue and affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate, at our office, ninth floor, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, with such affidavit or other proof as the owners or claimants may desire, within ten days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 5th day of December, 1907, at 2 o'clock in the afternoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place, and at such further or other time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proors and allegations as may then be offered-by such owner, or on behalf of The City of New York. Dated Borough of Manhattan, City of New York, November 20, 1907.

HARVEY WATTERSON, GUISTAV LANGE. IR.

HARVEY WATTERSON, GUSTAV LANGE, Jr., JAMES SHELTON MENG, Commissioners.

John P. Dunn, Clerk.

#### FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands and premises required for the construction of the BRIDGE over the Hutchinson river, on the line of the Boston road, Borough of The Bronx, City of New York (East-chester Bridge).

chester Bridge).

NOTICE IS HEREBY GIVEN THAT WE, the undersigned, were appointed by an order of the Supreme Court, bearing date the 26th day of July, 1907, and duly entered in the office of the Clerk of the County of New York, at his office in the Borough of Manhattan, in The City of New York, on the 1st day of August, 1907, a copy of which order was duly filed in the office of the Register of the County of New York, and indexed in the Index of Conveyances, "Annexed Territory," east of Bronx river, Commissioners of Estimate and Appraisal, for the purpose of making a just and equitable estimate and assessment of the loss and damage to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the construction of the above-mentioned bridge over the Hutchinson river, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of New York on the 1st day of August, 1907; and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken therefor, and of performing the trusts and duties required of us by chapter 17, title 4 of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of constructing the said bridge, and affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Appraisal, at our office, ninth floor, Nos, op and 92 West Broadway, in the Borough of Manhattan, in The City of New York, with such affidavit and other proof as the owners or claimants may desire, within ten days after the date of this notice.

And we, the said Commissi

20, 1907.

ERNEST HALL,
GEORGE H. ENGEL,
WILLIAM A. COKELEY,
Commissioners.

JOHN P. DUNN, Clerk.

n20,d3

# FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of WEST ONE HUNDRED AND SIXTY-SEVENTH STREET (although not yet named by proper authority), from Broadway to St. Nicholas avenue; PUBLIC PLACE, bounded by Broadway, St. Nicholas avenue and West One Hundred and Sixty-seventh street; PUBLIC PLACE, bounded by West One Hundred and Sixty-seventh street and Broadway, in the Twelfth Ward, Borough of Manhattan, City of New York.

OTICE IS HEREBY GIVEN THAT, BY an order of the Supreme Court, bearing date the 26th day of July, 1907, and duly entered in the office of the Clerk of the County of New York, at his office in the Borough of Manhattan in The City of New York, on the 1st day of August, 1907, a copy of which order was duly filed in the office of the Register of the County of New York, and indexed in the Index of Conveyances, Block 2124, we, John H. Judge, Thomas Sutherland Scott and Robert J. Daly were appointed Commissioners of Estimate for the purpose of making a just and equitable estimate and assessment of the loss and damage to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premiese required for the purpose by and in consequence of opening and extending the abovementioned street or avenue and public places, the same being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the

office of the Clerk of the County of New York on the 1st day of August, 1902, and the said John H. Judge was appointed Commissioner of Assessment for the purpose of making a just and equitable estimate and assessment of the value of the benefit and advantage of the said street or avenue and public places so to be opened and extended, to the respective owners, lessees, parties and persons respectively entitled to or interested in the respective lands, tenements, hereditaments and premises situated within the area of assessment adopted by the Board of Estimate and Apportionment and not required for the purpose of opening and extending the same, but benefited thereby, the said area of assessment being particularly set forth and described in the petition of The City of New York, and also in the notice of the application for the said order thereto attached, filed herein in the office of the Clerk of the County of New York on the 1st day of August, 1907, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 17, title 4, of the Greater New York Charter, as amended, and the acts or parts of acts supplementary thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening and extending the said street or avenue and public places and affected thereby, and having any claim or demand on account thereof, are hereby required to present the same duly verified to us, the undersigned Commissioners of Estimate, at our office, ninth floor, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, with such affidavit or other proof as the owners or claimants may desire, within ten days after the date of this notice.

And we, the said Commissioners, will be in attendance at our said office on the 5th day of December, 1907, at 3 o'clock in the afternoon of that day, to hear the said pa

Dated Borough of Manhattan, City of New York, November 20, 1907.

JOHN H. JUDGE, ROBERT J. DALY, THOMAS S. SCOTT, Commissioners.

JOHN P. DUNN, Clerk.

#### SUPREME COURT-SECOND DE-PARTMENT.

#### SECOND DEPARTMENT.

n the matter of the application of The City of New York relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of CHARLES AVENUE (although not yet named by proper authority), from Richmond avenue to Nicholas avenue, in the Third Ward, Borough of Richmond, City of New York.

WE, THE UNDERSIGNED COMMISsioners of Estimate and Assessment in the above entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our supplemental and amended estimate and assessment, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in The City of New York, on or before the 19th day of December, 1907, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 20th day of December, 1907, at 3 o'clock p. m.

Second—That the abstracts of our said supplemental and amended estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, Nos. 90 and 92 West Broadway, in the Borough of Manhattan, in said City, there to remain until the 20th day of December, 1907.

Third—That the limits of our assessment for benefit include all those lands tenements and

way, in the Boboust there to remain until the 20th day of December, 1907.

Third—That the limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Richmond, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the westerly prolongation of the middle line of the blocks between Charles avenue and Hatfield place, and a line parallel to and distant one hundred (100) feet west of the westerly line of Nicholas avenue, running thence northerly along said parallel line to its intersection with the westerly prolongation of the middle line of the blocks between Charles avenue and Hatfield avenue; thence easterly along said westerly prolongation and middle line to its intersection with a westerly prolongation of the middle line of the blocks between Charles avenue and Hatfield avenue; thence easterly along said westerly prolongation and middle line to its intersection with a line parallel to and distant one hundred (100) feet west of the westerly line of Richmond avenue; thence northerly along said parallel line to its intersection with the westerly prolongation of a line parallel to and distant one hundred (100) feet north of the northerly line of Mersereau avenue; thence easterly along said prolongation and parallel line to its intersection with the middle line of the blocks between Richmond avenue and Herberton avenue; thence southerly along said middle line to its intersection with a line parallel to and distant one hundred (100) feet north of the northerly line of Albion place; thence easterly along said last-mentioned parallel line to its intersection with a line parallel to and distant one hundred (100) feet east of the easterly line of Herberton avenue; thence southerly along said parallel line to its intersection with a line parallel to and distant one hundred (100) feet south of the southerly line of Albion place; thence westerly along said parallel line to its intersection with a line parallel to middle line of the blocks between Richmond avenue and Herberton avenue; thence southerly along said middle line to its intersection with a line parallel to and distant one hundred (100) feet south of the southerly line of Post avenue; thence westerly along said middle line to its intersection with a line parallel line and its westerly prolongation to its intersection with the middle line of the block between Charles avenue and Hatfield place; thence westerly line of the lock between Charles avenue and Hatfield place; thence westerly line of the south of the southerly line of the block between Charles avenue and Hatfield place; thence westerly line of Post avenue.

ly along said last-mentioned middle line and its westerly prolongation, to the point or place of beginning, excepting from said area all streets, avenues and roads or portions thereof heretofore legally opened as such area is shown upon our benefit maps, deposited as aforesaid.

Fourth—That, provided there be no objections filed to either of said abstracts, our final report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 29th day of January, 1908, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to either of said abstracts of estimate and assessment, the notice of motion to confirm our final report herein will stand adjourned to the date to be hereafter specified, and of which notice will be given to all those who have theretofore appeared in this proceeding, as well as by publication in the CITY RECORD, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Manhattan, New York, November 12, 1907.

WM. T. CROAK, Chairman;

. WM. T. CROAK, Chairman; JOHN L. DERY, Commissioners.

John P. Dunn, Clerk.

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#### SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening of CARROLL STREET, from Albany avenue to East New York avenue, in the Twenty-fourth and Twenty-ninth Wards, Borough of Brooklyn, City of New York.

Wards, Borough of Brooklyn, City of New York.

West oners of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, and having objections thereto, do present their said objections, in writing, duly verified, to us, at our office, in the office of the Law Department, No. 166 Montague street, in the Borough of Brooklyn, in The City of New Yrk, on or before the 19th day of December, 1907, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 23d day of December, 1907, at 4 o'clock p. m.

Second—That the abstracts of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 30th day of December, 1907.

Third—That the limits of our assessment for benefit include all those lands, tenements and heing in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the easterly side of Albany avenue and the centre line of the blocks between Crown street and Carroll street, and running thence northerly along said easterly side of Albany avenue at the intersection with the centre line of the blocks between Crown street and Carroll street to the point or place of beginning.

Fourth—That, provided there be no

centre line of the blocks between Crown street and Carroll street to the point or place of beginning.

Fourth—That, provided there be no objections filed to either of said abstracts, our final report herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 24th day of February, 1908, at the opening of the Court on that day.

Fifth—In case, however, objections are filed to either of said abstracts of estimate and assessment, the notice of motion to confirm our final report herein will stand adjourned to the date to be hereafter specified, and of which notice will be given to all those who have theretofore appeared in this proceeding, as well as by publication in the Crry Record, and in the corporation newspapers, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated Borough of Brooklyn, New York, No-

1906.
Dated Borough of Brooklyn, New York, November 29, 1907.
EDWARD KELLY,
Chairman;

Chairman;
JAS. B. SHELDON,
SOLON BARBANELL,
Commissioners. JAMES F. QUIGLEY, Clerk.

n20.d16

# SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to the lands, tenements and hereditaments required for the opening and extending of CROWN STREET, from Albany avenue to East New York avenue, in the Twenty-fourth and Twenty-ninth Wards, Borough of Brooklyn, City of New York.

E, THE UNDERSIGNED COMMISsioners of Estimate and Assessment in
the above-entitled matter, hereby give notice to
all persons interested in this proceeding, and to
ell houses and lots and improved and unimproved
lands affected thereby, and to all others whom
it may concern, to wit:
First—That we have completed our estimate
and assessment, and that all persons interested
in this proceeding, or in any of the lands, tenements and hereditaments and premises affected

thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, in the office of the Law Department, No. 166 Montague street, in the Borough of Brooklyn, in The City of New York, on or before the 19th day of December, 1907, and that we, the said Commissioners, will hear parties so objecting, and for that purpose will be in attendance at our said office on the 23d day of December, 1907, at 3 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by us in making the same, have been deposited in the Bureau of Street Openings, in the Law Department of The City of New York, No. 166 Montague street, in the Borough of Brooklyn, in said City, there to remain until the 30th day of December, 1907.

Third—That he limits of our assessment for benefit include all those lands, tenements and hereditaments and premises situate, lying and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point formed by the intersection of the easterly side of Albany avenue with the centre line of the blocks between Montgomery street and Crown street, and running thence northerly along said easterly side of Albany avenue with the centre line of the blocks between Montgomery street and Crown street, and running thence northerly along the northeasterly side of East New York avenue; thence southwesterly along the northeasterly side of East New York avenue; thence southwesterly along the northeasterly side of East New York avenue to its intersection with the centre line of the blocks between Montgomery avenue and Crown street; thence westerly along said centre line of the blocks between Montgomery avenue and Crown street to the point or place of beginning.

Fourth—That, provided there be no objections filed to either of said abstracts, our final report herein will be

vember 29, 1907. WALTER T. BENNETT, Chairman; F. MATTHEW SAAUZE, SOLON BARBANELL, Commissioners.

JAMES F. QUIGLEY, Clerk.

#### SECOND DEPARTMENT.

the matter of acquiring title by The City of New York to certain lands and premises situ-ated on the SOUTHEASTERLY CORNER OF GRAFTON AVENUE AND CLINTON PLACE, in the Fourth Ward of the Borough of Queens, in The City of New York, duly selected as a site for school purposes, according to law.

WE, THE UNDERSIGNED COMMISthe above-entitled proceeding, do hereby give
notice to the owner or owners, lessee or lessees,
parties or persons respectively entitled to or interested in the lands, tenements, hereditaments
and premises, title to which is sought to be acquired in this proceeding, and to all others whom
it may concern, to wit:

quired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties or persons respectively entitled to or interested in the lands and premises affected by this proceeding, or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education of The City of New York, situated at the southwest corner of Fifty-ninth street and Park avenue, in the Borough of Manhattan, City of New York, for the inspection of whomsoever it may concern.

Park avenue, in the bounder of New York, for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate, or who may object to the same, or any part thereof may, within ten days after the first publication of this notice, on November 27, 1907, file their objections, in writing, with us, at our office, Room 401, No. 258 Broadway, in the Borough of Manhattan, in The City of New York; and we, the said Commissioners, will hear parties so objecting, at our said office, on the 10th day of December, 1907, at 3 o'clock in the afternoon of that day, and upon such subsequent days as may be found necessary.

Dated New York, November 27, 1907.

FREDERICK CUZNER,
10SEPH H, FITZPATRICK,
CORTLAND C, WOODBURN,
Commissioners.

JOSEPH M. SCHENCK, Clerk.

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#### SUPREME COURT—THIRD JUDICIAL DISTRICT.

THIRD JUDICIAL DISTRICT.

ULSTER COUNTY.

Ashokan Reservoir, Section No. 3, Ulster County.

Towns of Olive, Marbletown and Hurley.

In the matter of the application and petition of J. Edward Simmons, Charles N. Chadwick and Charles A. Shaw, constituting the Board of Water Supply of The City of New York, to acquire real estate for and on behalf of The City of New York, under chapter 724 of the Laws of 1905 and the acts amendatory thereof, in the Towns of Olive, Marbletown and Hurley, Ulster County, N. Y., for the purpose of providing an additional supply of pure and wholesome water for the use of The City of New York.

PUBLIC NOTICE IS HEREBY GIVEN that the first separate report of George Holmes Smith, Henry Smith and Josiah J. Hasbrouck, who were appointed Commissioners of

Appraisal in the above-entitled matter, by an order of this Court made at a Special Term thereof, held at the Court House in the City of Kingston, Ulster County, N. Y., April 20, 1907, was filed in the office of the Clerk of the County of Ulster on the 23d day of November, 1907, and affects Parcels Nos. one hundred and twenty-two (122), ninety-six (96), one hundred and twenty-mine (129), ninety (90), ninety-four (94), one hundred and seventeen (117), one hundred and twenty-five (125), one hundred and twenty-five (125), one hundred and twenty-seven (127), one hundred and twenty-four A (124-B), one hundred and twenty-six (126), one hundred and six A (106-A), one hundred and twenty-four A (124-A), one hundred and twenty-four A (124-A), one hundred and twenty-one (121), eighty-five (85), eighty-nine (89), eighty-five (83) and one hundred and thirty-four (134), shown on the map in this proceeding.

Notice is further given that an application will be made at a Special Term of the Supreme Court of the State of New York, to be held in and for the Third Judicial District, at the Court, N. Y., on the 21st day of December, 1907, at 10 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard, for an order confirming said report, and for such other and further relief as may be just.

Dated New York, November 25, 1907.

FRANCIS KEY PENDLETON, Corporation Counsel.

Hall of Records, New York City.

THIRD JUDICIAL DISTRICT.

ULSTER COUNTY.

CATSKILL AQUEDUCT.

Section No. 5.

NOTICE OF APPLICATION FOR THE AP-POINTMENT OF COMMISSIONERS OF APPRAISAL.

POINTMENT OF COMMISSIONERS

OF APPRAISAL.

PUBLIC NOTICE IS HEREBY GIVEN
that it is the intention of the Corporation
Counsel of The City of New York to make
application to the Supreme Court of the State
of New York for the appointment of Commissioners of Appraisal under chapter 724 of the
Laws of 1905, as amended. Such application
will be made at a Special Term of the Supreme
Court to be held in and for the Third Judicial
District at the Court House in the City of Kingston, New York, on December 21, 1907, at 10
o'clock in the forenoon of that day, or as soon
thereafter as counsel can be heard. The object of
such application is to obtain an order of the Court
appointing three disinterested and competent freeholders, one of whom shall reside in the County
of New York, and at least one of whom shall reside in the county where the real estate hereinafter described is situated, to act as Commissioners
of Appraisal under said act and discharge all
the duties conferred by the said law and the
acts amendatory thereof, upon such Commissioners of Appraisal, for the purpose of providing
an additional supply of pure and wholesome
water for The City of New York.

The real estate to be acquired herein is situated in the Towns of Gardiner, Plattekill and
Shawangunk, and is to be acquired for the purpose of furnishing an additional supply of pure
and wholesome water to The City of New York.

The following is a statement of the boundaries
of the lands to be acquired herein, with a reference to the date and place of filing of the map:

All those certain pieces or parcels of real estate situated in the Towns of Gardiner, Plattekill
and Shawangunk, County of Ulster and State
of New York, shown on a certain map, entitled,
"Northern Aqueduct Department, Section No.
S, Board of Water Supply of The City of New
York. Map of real estate situated in the Towns
of Gardiner, Plattekill and Shawangunk, County
of Ulster and State
of New York, shown on a certain map, entitled,
"Northern Aqueduct Department, Section No.
S, B

of Libertyville to Orange County line, near St. Elmo," which map was filed in the office of the County Clerk of the County of Ulster, at Kingston, New York, on the 14th day of October, 1907; which parcels are bounded and described as follows:

Beginning at the most easterly point of Parcel No. 201, in the easterly line of a road leading from Mohonk to Minnewaska, shown on map of real estate, Section No. 4, Northern Aqueduct Department, filed in the office of the County Clerk of the County of Ulster, at Kingston, New York, on the 11th day of October, 1907, which point is the most northerly point of Parcel No. 203 of real estate, Section No. 5, Northern Aqueduct Department, hereby described, and running thence along the easterly lines of said Parcel No. 203 and Parcels Nos. 204 and 205, south 13 degrees 20 minutes east 4,185.5 feet, crossing a road leading from New Paltz to Minnewaska, to the boutheast corner of said Parcel No. 205, in the northerly line of Parcel No. 205; thence partly along said line, north 60 degrees 34 minutes east 324.1 feet to the northeast corner of said parcel; thence along the easterly line of same, south 29 degrees 24 minutes east 976.4 feet to the southeast corner of said parcel; thence along the easterly line of same, south 29 degrees 24 minutes east 976.4 feet to the southeast corner of said parcel; thence along the country line of same, south 60 degrees 34 minutes west 600 feet to the southwest corner of said parcel, in the centre of a road leading from Minnewaska to Libertyville, in the easterly line of Parcel No. 207; thence partly along said line and along the casterly lines of Parcels Nos. 208 and 209, south 14 degrees 40 minutes east 3,064 feet, crossing a road leading from Libertyville to Tuthill and the Wallkill river, to the southerly line of said parcel, south 73 degrees 35 minutes east 398.6 feet, south 75 degrees 20 minutes east 1,010.9 feet to the northwest corner of Parcel No. 211; thence along the northerly line of said parcel, south 13 degrees 30 minutes east 1,010.9

fore mentioned easterly line of Parcel No, 210; thence partly along said line, south 14 degrees 40 minutes cast 30.10 feet to the northeast corner of Parcel No, 212; thence partly along the minutes cast 2,044, feet and south 30 degrees 11 minutes cast 2,044, feet and south 30 degrees 11 minutes cast 2,044, feet and south 30 degrees 3 minutes west 287,3 feet to the point of intersection of said centre line and benth of the point of intersection of said centre line and the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of the point of t

same, south 19 degrees ag minutes west 52.4 feet to the northwest corner of Parcel No. 24, south 271 degrees ag minutes west 52.4 feet to the northwest corner of Parcel No. 24, south 271 degrees 25. minutes east 57.2 feet to the northwest corner of Parcel No. 24, south 21 degrees 24 minutes cast 57.2 feet casterly line of said parcel and partly along the casterly line of said parcel and partly along the casterly line of said parcel and partly along the casterly line of said parcel said feet, south 21 degrees 25 minutes cast 52.8 feet, south 21 degrees 26 minutes said 19.5 feet, south 21 degrees 26 minutes west 28.4 feet and south 30 degrees 28 minutes west 28.4 feet and south 30 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 28 minutes west 29.7 feet, south 13 degrees 29 minutes west 29.7 feet, south 13 degrees 29 minutes west 29.7 feet, south 20 degrees 29 minutes west 29.7 feet 10 degrees 29 minutes west 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 29.7 feet 20 degrees 29 minutes 20 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 degrees 29 deg

minutes west for 3 feet, north 87 degrees as minute west too forth, most by degrees as minute west too forth, most by degrees as minute feet, an a curve of 27 feet remains to the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of the feet of

counsel can be heard. The object of such application is to obtain an order of the Court appointing three disinterested and competent freeholders, one of whom shall reside in the County of New York, and at least one of whom shall reside in the county where the real estate hereinafter described is situated, to act as Commissioners of Appraisal under said act and discharge all the duties conferred by the said law and the acts amendatory thereof, upon such Commissioners of Appraisal, for the purpose of providing an additional supply of pure and wholesome water for The City of New York.

The real estate to be acquired herein is situated in the Towns of Olive and Marbletown, and is to be acquired for the purpose of furnishing an additional supply of pure and wholesome water to The City of New York.

The following is a statement of the boundaries

The following is a statement of the boundaries of the lands to be acquired herein, with a reference to the date and place of filing of the map.

"Il those certain pieces or parcels of real town, County of Ulster and State of New York, shown on a certain map entitled "Northern Aqueduct Department. Section No. 3. Board of Water Supply of The City of New York, Map of real estate situated in the Towns of Olive and Marbletown, County of Ulster and State of New York, to be acquired by The City of the Law of the Law of the Provisions of Chapter Construction of Catabill Aqueduct and appurtenances, from taking line of Section No. 2. Reservoir Department, to the vicinity of Kripplebush," which map was filed in the office of the County Clerk of the County of Ulster, at Kingston, New York, on the 11th day of October, sollows:

Beginning at a point in the southerly boundary line of Parcel No. 42, shown on map of Section No. 2, Reservoir Department, which map was filed in the office of the County Clerk of the County of Ulster, at Kingston, New York, on the 11th day of the said outherly line, the southerly line of Parcel No. 44, shown on gay was filed in the office of the County Clerk of the County of Ulster, at Kingston, New York, on January 31, 1907, and running thence party and the said southerly line, the southerly line of Parcel No. 44, shown on Parcel No. 93 and partly along the easterly line of Parcel No. 94, shown on the first mentioned filed map, the following courses and distances: North 77 degrees 44 minutes east 52, 6eet, south 46 degrees 28 minutes east 57, feet, south 11 degrees 56 minutes east 100.4 feet; south 11 degrees 56 minutes east 100.4 feet; south 11 degrees 56 minutes east 100.4 feet; south 11 degrees 56 minutes east 100.4 feet; south 16 degrees 88 minutes east 201.4 feet; thence along the easterly line of before mentioned Parcel No. 95, in the centre of Tongore creck; thence partly along the northerly line of said parcel; thence along the westerly line of said parcel and south 8 degrees 37 minutes eas minutes east 50 feet, south 85 degrees 31 minutes east 50 feet, south 4 degrees 29 minutes west 50 feet, south 85 degrees 31 minutes east 615.5 feet, north 4 degrees 29 minutes east 50 feet, south 85 degrees 31 minutes east 50 feet, south 85 degrees 32 minutes east 50 feet, south 4 degrees 29 minutes east 50 feet, south 60 feet radius to the right, 45.8 feet, south 76 degrees 46 minutes east 520.9 feet, crossing the Lower Pulp Mill road, on a curve of 300 feet radius to the left, 28.6 feet, south 19 degrees 44 minutes east 720.5 feet, south 19 degrees 44 minutes east 720.5 feet, south 19 degrees 44 minutes east 720.5 feet, south 34 degrees 19 minutes 30 seconds east 636.6 feet, on a curve of 100 feet radius to the left, 24.6 feet, south 48 degrees 26 minutes east 330.9 feet, on a curve of 100 feet radius to the left, 12.5 feet, south 45 degrees 29 minutes 30 seconds east 381.9 feet, north 41 degrees 40 minutes 30 seconds east 15.8 feet, south 48 degrees 19 minutes 30 seconds east 15.8 feet, south 48 degrees 19 minutes 30 seconds west 15.2 feet, south 55 degrees 29 minutes 30 seconds west 15.2 feet, south 56 degrees 24 minutes west 482.0 feet, on a curve of 300 feet radius to the right, 205.2 feet, south 16 degrees 18 minutes east 455.2 feet, south 16 degrees 34 minutes east 455.2 feet, south 19 degrees 34 minutes east 455.2 feet, south 19 degrees 34 minutes and 114.5 feet to the northeast corner of Parcel No. 109; thence along the easterly line of same, south 58 degrees 33 minutes west 60.6 feet to the centre of Tongore road; thence along the centre line of said road and continuing along

che easterly line of said Farcel No. 19 degrees 37 minutes east 132,7 feet, south 36 degrees 37 minutes east 132,7 feet, south 36 degrees 37 minutes east 132,7 feet, south 36 degrees 37 minutes east 132,7 feet, and 150 degrees 38 minutes east 142 feet and subb degrees 38 minutes east 142 feet and subb degrees 38 minutes east 142 feet and subb degrees 38 minutes east 600.3 feet to the centre of the before members of the 152 feet and south 71 degrees 42 minutes east 600.3 feet to the centre of the before members and 152 feet and south 37 degrees 38 minutes 30 seconds east 104.5 feet 1 and south 27 degrees 1 minutes 30 seconds east 104.5 feet 1 and south 27 degrees 30 seconds east 104.5 feet 1 and south 30 degrees 3 minutes 30 seconds east 104.5 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 feet 1 and 152 fee

done mentioned Parcel No. 128: themee partilong the southerly line of said Parcel, south
77 degrees 4 minutes 30 seconds west 47,3 feet
to the northest corner of Parcel No. 129; themee
slong the easterly line of said parcel is follow
degrees 25 minutes east 57,4 feet, south 3 degrees 37 minutes 30 seconds west 27,8 feet, on
a curve of 100 feet radius to the left, 20,8 feet
to the southeast corner of said parcel, in the
northerly line of Parcel No. 130; thene partly
along said line, north 67 degrees 33 minutes of
67 said parcel, in the centre of the Vly road;
thence along said road, and partly along
the said parcel, in the centre of the
17 seaterly line of said parcel, south 12 degrees 20
degrees 40 minutes east 137,5 feet to a point
in the centre of the before
asid Parcel No. 130, south 8 degrees 27 minutes
asid Parcel No. 130, south 8 degrees 27 minutes
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asid Parcel No. 130, south 8 degrees 27 minutes
asid Parcel No. 130, south 8 degrees 27 minutes
asid parcel; thence along the southerly line
of same the following courses and
distances:
South 50 degrees 24 minutes west 300 feet
of same the following courses and
for same the following courses and
distances:
South 50 degrees 28 minutes 30 seconds west
297.4 feet and south 46 degrees 12 minute
374, the following course and distances:
South 43 degrees 15 minutes 30 seconds west
297.5 line of same, north 2 degrees 12 minutes
30 seconds west 16.8 feet to the most
northerly point of Parcel No. 135, in the Peatrel No. 135, in the Peatrel No. 136, in the Peatrel No. 136, in the Peatrel No. 136, in the peatrel parcel north 100 seconds west
305 feet, south 50 degrees 28 minutes 30 seconds east
305 feet, south 100 degrees 12 minutes 30 seconds
306 feet, south 100 degrees 12 minutes
307 seconds west 16.8 feet to the northeast corner of Farcel No. 135, in the Peatrel No. 136, in the seaterly line of said parcel, in the
308 seconds west 100 seconds west 20,03 feet,
307 second

grees 37 minutes and 180, feet, on a curve of 100 feet radius to the left, 160, feet, north a degrees 57 minutes 30 seconds east \$87,8 feet, north 40 degrees 30 feet radius to the left, 185, feet, north 40 degrees 30 feet radius to the right, 141 feet, north 30 feet radius west 375,6 feet, on a curve of 30 feet radius west 375,6 feet, on a curve of 30 feet radius west 375,6 feet, north 30 degrees 36 minutes west 375,6 feet, north 30 degrees 36 minutes west 570,2 feet, north 30 degrees 36 minutes and 500,3 feet, north 4,6 degrees 36 minutes 30 seconds east 55,65 feet, and north 4,6 degrees and 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7 feet, 18,7

before mentioned Parcel No. 102; thence along the southerly line of said parcel, south 80 degrees 2 minutes west 409.7 feet to the southeast corner of before mentioned Parcel No. 101, in the line between the Towns of Olive and Marbletown; thence along the southerly line of said Parcel No. 101 and partly along the southerly line of before mentioned Parcel No. 98 the following courses, distances and curves: South 63 degrees 2 minutes west 16.3 feet, on a curve of 300 feet radius to the right, 174.9 feet, north 83 degrees 34 minutes west 471.8 feet, on a curve of 300 feet radius to the right, 123.7 feet, north 59 degrees 57 minutes west 471.8 feet, north 59 degrees 57 minutes west 471.8 feet, north 59 degrees 57 minutes west 471.8 feet, north 59 degrees 57 minutes 30 seconds west 43.6 feet and south 61 feet and 500 feet radius to the left, 36.4 feet, north 80 degrees 40 minutes 30 seconds west 43.6 feet and south 70 degrees 22 minutes 30 seconds west 138.1 feet; thence still continuing along the westerly line of said Parcel No. 98; minutes 30 seconds west 562 feet to the southwest corner of said Parcel No. 98; thence partly along the westerly line of same, north 24 degrees 20 minutes 30 seconds west 562 feet to the most southerly point of before mentioned Parcel No. 95; in the centre of Tongore creek; thence partly along the westerly line of said parcel, north 24 degrees 20 minutes 30 seconds west 562 feet to the most southerly point of before mentioned parcel, north 24 degrees 20 minutes 30 seconds west 328.1 feet, south 70 degrees 31 minutes west 1,124.2 feet and north 41 minutes east 25.6 feet to the southeast corner of Farcel No. 96; thence along the southerly line of said parcel, and parcel, north 24 degrees 32 minutes 30 seconds west 124.6 feet, south 70 degrees 31 minutes 30 seconds west 124.6 feet, south 70 degrees 31 minutes 30 seconds west 124.6 feet, south 10 degrees 28 minutes 30 seconds west 124.6 feet, south 10 degrees 28 minutes 30 seconds west 128.7 feet, north 70 degrees 13 minutes 30 seconds west

Office and Post Office address, Hall of Records, corner of Chambers and Centre streets, Borough of Manhattan, New York City.

THIRD JUDICIAL DISTRICT.

ULSTER COUNTY.

CATSKILL AQUEDUCT.

Section No. 4.

NOTICE OF APPLICATION FOR THE AP-POINTMENT OF COMMISSIONERS OF APPRAISAL.

POINTMENT OF COMMISSIONERS
OF APPRAISAL.

DUBLIC NOTICE IS HEREBY GIVEN
that it is the intention of the Corporation
Counsel of The City of New York to make
application to the Supreme Court of the State
of New York for the appointment of Commissioners of Appraisal under chapter 724 of the
Laws of 1905, as amended. Such application
will be made at a Special Term of the Supreme
Court to be held in and for the Third Judicial
District at the City Hall, City of Albany, N. Y.,
on November 30, 1907, at 10 o'clock in the
forenoon of that day, or as soon thereafter as
counsel can be heard. The object of such application is to obtain an order of the Court appointing three disinterested and competent freeholders,
one of whom shall reside in the County of New
York, and at least one of whom shall reside
in the county where the real estate hereinafter
described is situated, to act as Commissioners
of Appraisal under said act and discharge all
the duties conferred by the said law and the
acts amendatory thereof, upon such Commissioners
of Appraisal, for the purpose of providing
an additional supply of pure and wholesome
water for The City of New York.

The real estate to be acquired herein is situated in the Towns of Marbletown, New Paltz
and Gardiner, and is to be acquired for the
purpose of furnishing an additional supply of
pure and wholesome water to The City of New
York.

The following is a statement of the boundaries
of the lands to be acquired herein, with a reference to the date and place of filing of the map.

All those certain pieces or parcels of real
estate situated in the Towns of Marbletown,
New Paltz and
Gardiner, County of Ulster and
State of New York, shown on a certain map
entitled "Northern Aqueduct Department, Section No. 4, Board of Water Supply of The City
of New York, Map of real estate situated in
the Towns of Marbletown, New Paltz and
Gardiner, County of Ulster and
State of New York, shown on a certain map
entitled "Northern Aqueduct Department, Section No. 4, Board of Water Supply of The C

Liberty-iller," which map was filed in the official of the forthy Cherk of the Country of Uniter, at Kingston, New York, on the 11th day of clotoler, 1907; which parcels are bounded and described as follows: a process of the Country of Celebon No. 3, Northern Aqueduct Department, filed in the office of the Country Clerk of the Country Office of the Country Office of the Country Clerk of the Country Office of the Country Office of the Country Office of the Country Office of the Country Office of the Country Office of Parcel No. 1440 of Parcel No. 1440 of Parcel No. 1440 suth 51 degrees 25 minutes 30 seconds east 4152 the northerly line of said Parcel No. 1441 suth 51 degrees 25 minutes 30 seconds east 4152 the northerly line of said parcel and 20 minutes 30 seconds west 96.6 feet and south 38 degrees 36 minutes of said parcel and Parcel No. 145, south 38 degrees 36 minutes and 150 seconds east 36.6 feet and south 38 degrees 36 minutes of said parcel, 150 seconds east 150 seconds east 35.73 feet to the orthwest of the 150 seconds east 35.73 feet to the orthwest of the 150 seconds east 35.73 feet to the orthwest of the 150 seconds east 35.73 feet to the orthwest of the 150 seconds east 35.73 feet to 5 said parcel, south 36 degrees 14 minutes east 30,12 feet to the and the northerly line of said parcel, south 36 degrees 150 minutes east 36.1 feet and south 50 degrees 16 minutes east 30,12 feet to the another of the 150 seconds east 35.0 feet 37.0 feet, crossing Ellenville road, north 53 degrees 150 minutes 250 seconds east 37.00 feet, crossing Ellenville road, north 53 degrees 150 minutes 250 seconds east 37.00 feet, and parcel, south 36 degrees 36 minutes east 37.00 feet, and the northerly line of parcel No. 152, south 36 degrees 36 minutes east 37.00 feet, and northerly line of parcel No. 152, south 36 degrees 36 minutes 250 seconds east 37.00 feet and north 68 degrees 37 minutes east 37.00 feet and north 68 degrees 37 minutes 250 seconds east 36.8, feet to the most northerly line of said parcel, south 46 degrees

line of Parcel No. 197, thence partly along sald line of degrees a primites cast 170.1 fect, north 30 degrees a primites cast 170.1 fect, north 30 degrees a primites cast 170.1 fect, north 45 degrees a primites cast 20.2 fect and south 55 degrees 30 minutes cast 80.2 fect and south 55 degrees 30 minutes cast 80.2 fect and south 55 degrees 30 minutes cast 80.1 fect and south 55 degrees 30 minutes cast 20.13 fect to a point centre of Mohonk road; thence along the centre of Mohonk road; thence along the centre of Mohonk road; thence along the centre of Mohonk road; thence along the casterly line, and the sald and and partly along at the casterly line of same, and partly along the casterly line of same, and partly along the casterly line of same, and partly along the casterly line of same, and partly along the casterly line of same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same and same

self line neuth 8 degrees on minutes seat 57,6 feet; tahene continuing along the southerly line of Parcel No. 188, south 81 degrees to minute west 19,1 feet to a point in the westerly line of said proud; the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the self of the se

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SATURDAY, NOVEMBER 36, 1907.

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# THE CITY RECORD.



# OFFICIAL JOURNAL OF THE CITY OF NEW YORK.

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# NOVEMBER, 1907.

VOL. XXXV.

PART XI.

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GEORGE B. McGLELLAN, Mayor.

FRANCIS K. PENDLETON, Corporation Counsel.

HERMAN A. METZ, Comptroller.

PATRICK J. TRACY, Supervisor.

M. B. BROWN CO., PRINTERS Nos. 49-57 Park Place, NEW YORK.

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# NOVEMBER, 1907.

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