

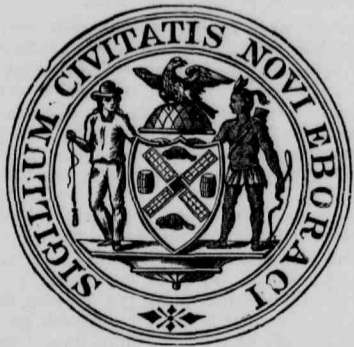
# THE CITY RECORD.

## OFFICIAL JOURNAL.

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NUMBER 2,754.



### HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,  
NEW YORK, June 13, 1882.

The Board of Health met this day.

#### Reports.

From the Sanitary Superintendent: On operations of the Sanitary Bureau; on contagious diseases; on Slaughter houses; on work performed by the Sanitary Company of Police; on work performed by the Milk Inspectors; weekly report from the Riverside Hospital; on applications for permits; on applications for relief from certain orders; on work performed by the Meat Inspectors; on work performed by Night Medical Service for May; on street pavements, etc.; on Public School building, Nos. 64 and 66 Grand street; on applications for leaves of absence.

From the Attorney and Counsel: Weekly report; on application of H. W. Benham to connect certain houses on Park avenue with the sewer.

From the Deputy Register of Records: Weekly mortuary statement; weekly abstract of marriages; weekly abstract of births; weekly abstract of still-births; on violations of the Sanitary Code; weekly abstract of deaths from contagious diseases; on attendance of clerks.

#### Communications from other Departments.

From the Department of Finance—Comptroller's weekly statement.

#### Miscellaneous Communications.

From General H. W. Benham, in respect to sewerage and drainage of certain premises on Park avenue.

From Engineer G. S. Green, in respect to conference with official contractor.

#### Bills Audited.

J. L. Mott Iron Works.....	\$125 94
J. Skidmore's Sons.....	23 00
J. J. Hayes.....	178 61
Willson & Adams.....	24 79
Metropolitan Telephone and Telegraph Co.....	61 66
P. H. Duffy & Sons.....	22 50
J. H. Baldwin.....	7 78
Thurber & Co.....	302 02
G. W. Loss & Son.....	103 20
William L. Loyd.....	36 50

#### Permits Granted.

- To keep a lodging-house at Nos. 200 and 202 Rivington street.
- " " at Nos. 352 and 354 Bowery.
- " " at Nos. 46 and 48 East Houston street.
- " " at No. 165 Greene street.
- " " at No. 107 Greenwich street.
- " " at No. 50 Bleeker street.

#### Permits Denied.

To drive cows from One Hundred and Twelfth street, near Avenue A, to Harlem river and One Hundred and Twenty-first street.

To dump ashes and garbage at One Hundred and Fortieth street and Brook avenue.

#### Resolutions.

Resolved, That a copy of the report of the Attorney and Counsel, in respect to a change of sewerage and drains of houses Nos. 29, 31, 33, 35 and 37 Park avenue be forwarded to General H. W. Benham.

Resolved, That permits be and are hereby denied as follows:

To drive cows from One Hundred and Twelfth street, near Avenue A, to Harlem River and One Hundred and Twenty-first street.

To dump ashes and garbage at One Hundred and Fortieth street and Brook avenue.

Resolved, That permits to fill in lands at One Hundred and Thirty-fifth street, between Fifth and Madison avenues, with ashes and street dirt, be and is hereby granted to the Department of Street Cleaning, provided all garbage be raked out and burned.

Resolved, That a permit to fill in lands at the northwest corner of One Hundred and Thirty-seventh street and Fifth avenue with ashes and street dirt, be and is hereby granted to the Department of Street Cleaning, provided all garbage be raked out and burned.

Resolved, That the following orders be and are hereby extended, as follows:

Order No. 8806, on premises No. 164 East One Hundred and Fourth street, until August 15, 1882.

" 8807, on premises No. 166 East One Hundred and Fourth street, until Aug. 15, 1882.

" 8193, on premises No. 47 Rutgers and 122 Monroe streets, until May 1, 1883.

Resolved, That the Sanitary Superintendent be and is hereby authorized and directed to enforce the following orders:

Order No. 6459, on premises No. 34 Madison street.

Order No. 7427, on premises No. 66 Thompson street.

Resolved, That the following orders be and are hereby rescinded:

No. 7490, premises No. 502 West Forty-sixth street.

No. 7791, premises No. 645 West Tenth avenue.

No. 7266, premises No. 432 West Thirteenth street.

Resolved, That so much of order No. 8131, on premises No. 5 East One Hundred and Twenty-ninth street, requiring an iron sewer pipe and cementing the cellar, be and is hereby rescinded.

Resolved, That copies of the reports of Sanitary Inspectors, upon the condition of certain street pavements, etc., be forwarded to the Department of Public Works for the necessary action, as follows:

No sewer, etc., in West One Hundred and Ninth street between Tenth avenue and Boulevard.

Grade of street northeast corner Twenty-third street and Avenue A.

Culvert obstructed West Ninety-sixth street between Riverside Drive and North river.

Sewer obstruction southwest corner Rivington and Goerck streets.

Ventilation of the Court of Special Sessions.

Resolved, That a copy of the report of Sanitary Inspector Ewing, upon the sanitary condition of Riverside Park, between Ninety-sixth and Ninety-eighth streets, be forwarded to the Department of Public Parks for the necessary action.

Resolved, That a copy of the report of Assistant Sanitary Engineer Hollick, upon the sanitary condition of Public School building at Nos. 64 and 66 Grand street, be forwarded to the Board of Education for the necessary action.

Resolved, That leaves of absence be and are hereby granted, as follows:

Assistant Sanitary Inspector Cowl, one month from June 13, two weeks of it being the ordinary vacation.

Assistant Engineer Owen, the month of June, on half pay; both on account of sickness.

Resolved, That the services of the following named persons be and are hereby dispensed with from and after June 15, 1882, for the reason that the appropriation for salaries does not admit of their further employment:

Wm. J. O'Byrne,  
Horace R. Williams,  
Charles T. Sharretts,  
John W. Gibbs,  
J. Varnum Mott,

Edward C. Passmore,  
Chas. Sherman,  
Thos. H. Manley,  
Wm. F. Greene,  
Reese H. Voorhis.

Resolved, That order No. 10,401 (1881), on premises No. 43 Spring street, be and is hereby referred to the Sanitary Superintendent for inspection and report.

Resolved, That order No. 17,779 (1881), on premises No. 21 Cherry street, be and is hereby suspended until special cause of complaint is reported to the Board.

Resolved, That so much of order No. 13,433 (1881), on premises No. 247 East Fifty-first street, requiring cementing of cellar, be and is hereby rescinded, and the attorney authorized and directed to open judgment and cancel the order.

Resolved, That orders Nos. 13,654 and 13,655, on premises No. 401 and 403 East Forty-fourth street, be suspended one month to enable the owner to do the work, and the attorney is authorized and directed to open and cancel judgment.

Resolved, That order No. 1796, on premises No. 648 Water street, be and is hereby suspended and referred to the Sanitary Superintendent for reinspection and report.

Resolved, That the Department of Public Works be and is hereby respectfully requested to furnish this Department with the estimated cost of conveying the Croton water to North Brothers Island, for supplying the hospitals for contagious diseases now being erected.

Resolved, That the Department of Charities and Correction be and is hereby respectfully requested to inform this Department if they can furnish the laborers for the construction of a sea wall at North Brothers Island.

Whereas, It is found necessary, for the prevention of dangers from contagious and infectious diseases which are found to exist in the City of New York, and for the persons sick therewith and exposed to danger therefrom, that an appropriation of fifteen thousand dollars, in excess of the annual appropriation for the year, is necessary for use in the next six months for the continuance of the services of special inspectors, physicians and nurses, and for supplies and contingencies during the existence of such dangers which this Board declares to exist, therefore

Resolved, That in consequence of the aforesaid necessity the Board of Health, under and pursuant to chapter 246, of the Laws of 1881, respectfully requests the Board of Estimate and Apportionment to make an appropriation for the aforesaid purpose for the next six months, of the sum of \$15,000 in excess of the annual appropriation for this Department, and further requests the Comptroller to provide the said money for the aforesaid use.

#### Action of the Board on Tenement House Plans.

Resolved, That plans for light and ventilation of tenement houses be and are hereby approved, as follows:

- Plan No. 1536, one tenement, No. 265 Rivington street; conditionally.
- Plan No. 1537, five tenements, north side of Eighty-fifth street, 100 feet west of Second avenue.
- Plan No. 1538, one tenement at No. 504 Tenth avenue.
- Plan No. 1539, one tenement, northeast corner of Ninth avenue and Seventy-third street.
- Plan Nos. 1540-2, one tenement at No. 30 Cornelia street.
- Plan No. 1541, four tenements, north side of Forty-third street, 155 feet east of Third avenue.
- Plan No. 1542, three tenements, north side of One Hundred and Twenty-third street, 450 feet east of Eighth avenue; conditionally.
- Plan No. 1543, two tenements, Nos. 167 and 169 East One Hundred and Thirteenth street.
- Plan No. 1547, two tenements at No. 130 Monroe street.
- Plan No. 1548, one tenement, north side of East One Hundred and Fourteenth street, 80 feet west of Lexington avenue.
- Plan No. 1549, four tenements, south side of East One Hundred and Twenty-third street, 80 feet west of Fourth avenue.
- Plan No. 1546, four tenements on Second avenue, beginning southwest corner of Seventy-first street; conditionally.
- Plan No. 1550, south side of One Hundred and Twenty-sixth street, 138 feet east of Third avenue.
- Plan No. 1551, one tenement at No. 165 West Twenty-fifth street.
- Plan No. 1552, four tenements, northwest corner of Avenue A and Eighty-seventh street.

#### Disapproved.

Resolved, That the following plans of light and ventilation of tenement houses be and are hereby disapproved:

- Plan No. 1540, one tenement, No. 30 Cornelia street.
  - Plan No. 1544, for alteration of No. 1091 First avenue.
  - Plan No. 1553, No. 416 East One Hundred and Fourteenth street.
- The weekly report of inspections of new tenement houses was received and ordered on file.

#### Plumbing and Drainage of New Houses.

Resolved, That plans for the plumbing of new houses be and are hereby approved as follows:

- Plan No. 437, one business building, north side of One Hundred and Seventy-seventh street, 200 feet east of Railroad avenue; conditionally.
- Plan No. 438, one tenement, northeast corner of Franklin street and West Broadway.
- Plan No. 439, one tenement, south side of One Hundred and Twenty-third street, 315 feet east of Fourth avenue.
- Plan No. 441, one store-building at No. 41 Vesey street.
- Plan No. 442, one tannery, east side of Water street, south of Dover street.
- Plan No. 443, one tenement at No. 161 Greenwich street.
- Plan No. 444, one business building, south side of Franklin street, 100 feet east of Hudson street.
- Plan No. 445, two tenements, south side of One Hundred and Twenty-third street, 80 feet west of Fourth avenue.
- Plan No. 446, one tenement north side of One Hundred and Fourteenth street, 80 feet west of Lexington avenue.
- Plan No. 447, one tenement, north side of One Hundred and Twenty-fifth street, 381 feet west of Sixth avenue.
- Plan No. 448, four dwellings, south side of Fifty-third street, 500 feet west of Fifth avenue; conditionally.
- Plan No. 449, one tenement, north side of Seventy-eighth street, 219 feet west of Avenue A; conditionally.
- Plan No. 451, one tenement at No. 504 Tenth avenue; conditionally.
- Plan No. 452, one dwelling, east side of Madison avenue, 75 feet north of Fifty-seventh street; conditionally.
- Plan No. 453, one dwelling, No. 35 East Sixty-eighth street; conditionally.
- Plan No. 454, nine dwellings on the north side of One Hundred and Twenty-eighth street, 250 feet west of Seventh avenue; conditionally, and
- Plan No. 455, one tenement, No. 416 East One Hundred and Fourteenth street.

#### Tabled for Amendment.

- Plan No. 436, one dwelling at No. 10 West Eighteenth street.
- Plan No. 440, two tenements, north side of Forty-third street, 275 feet east of Eighth avenue, and
- Plan No. 450, three dwellings, north side of Eighty-seventh street, 325 feet west of Ninth avenue.

The weekly reports of Assistant Sanitary Engineers on the plumbing and drainage of new houses were received and ordered on file.

#### Sanitary Bureau.

The following is a record of the work performed in the Sanitary Bureau for the week ending June 10, 1882:

The total number of inspections made by the Sanitary and Assistant Sanitary Inspectors was 1,875, as follows, viz.:

4 public buildings, 728 tenement houses, 147 private dwellings, 50 other dwellings, 35 manufactories and workshops, 13 stores and warehouses, 46 stables, 47 slaughter houses, 1 public park, 8 lodging-houses, 1 dumping ground, 2 public sewers, 27 sunken and vacant lots, 106 yards, courts, and areas, 109 cellars and basements, 216 waste-pipes and drains, 287 privies and water-closets, 12 streets, gutters, and sidewalks, 9 dangerous stairways, 3 smoky chimneys, 10 cesspools, and 14 other nuisances.

The number of reports thereon received from the Inspectors was 57.

During the past week 261 complaints were received from citizens and referred to the Sanitary and Assistant Sanitary Inspectors for investigation and report.

88 permits were issued to the consignees of vessels to discharge cargoes, on vouchers from the Health Officer of the Port.

182 permits were issued to scavengers to empty, clean, and disinfect privy sinks.

The Disinfecting Corps have visited 226 premises where contagious diseases were found and have disinfected and fumigated 177 houses, 177 privy sinks, together with clothing, bedding, etc.

16 cases of contagious diseases were removed to the hospital by the Ambulance Corps, and 2 dead bodies to the morgue.

## Bureau of Vital Statistics.

The certificates of 477 births, 51 still-births, 301 marriages, and 659 deaths, reported to have taken place in this city, were received by this Bureau during the week ending Saturday, June 10, 1882; this shows a decrease of 9 births and 60 deaths, and an increase of 9 still-births and 43 marriages when compared with the number received during the preceding week, but when compared with the corresponding week of the year 1881, there was an increase of 2 births, 6 still-births and 26 deaths, and a decrease of 13 marriages. Compared with the mortality reported during the preceding week, the deaths from measles decreased 14; diphtheria, 3; croup, 2; typhus fever, 1; typhoid fever, 2; cerebro-spinal fever, 1; malarial fevers, 4; puerperal diseases, 13; diarrhoeal diseases, 5; phthisis pulmonalis, 26; bronchitis, 1; pneumonia, 28; heart diseases, 9; cyanosis and atelectasis, 1; surgical operations, 1; while the deaths from scarlatina increased 10; erysipelas, 5; inanition, 6; rheumatism and gout; marasmus, tabes, mesenterica and scrofula, 3; hydrocephalus and tubercular meningitis 8; meningitis and encephalitis, 1; apoplexy, 10; all diseases of the brain and nervous system, 9; gastritis, enteritis and peritonitis, 3; premature and preterm births, 6; suicide, 1; and drowning 6. The number of deaths from small-pox, whooping cough, alcoholism, cancer, aneurism, convulsions and cirrhosis and hepatitis, was the same in the two successive weeks.

Deaths from the principal Zymotic Diseases, Phthisis Pulmonalis, Pneumonia, Bronchitis, and Children under five years of age, reported during the week and compared with the three preceding weeks.

WEEK ENDING—	Small-Pox.	Measles.	Scarlatina.	Diphtheria.	Membranous Croup.	Whooping Cough.	Typhus Fever.	Typhoid Fever.	Cerebro-Spinal Fever.	Remittent, Intermittent, Typho-Malarial, Continued Fevers.	Diarrhoeal Diseases.	Phthisis Pulmonalis.	Pneumonia.	Bronchitis.	Diseases of the Nervous System.	Diseases of the Urinary System.	Under 1 year of age.	Under 2 years of age.	Under 5 years of age.
May 20, 1882	7	29	61	37	13	10	3	5	5	6	16	99	120	45	43	43	166	234	342
" 27, "	9	40	48	36	16	9	3	5	5	8	18	106	95	30	50	27	147	210	304
June 3, "	4	30	40	31	15	14	3	3	6	10	24	106	88	33	54	49	140	203	299
" 10, "	4	16	50	28	13	14	2	1	5	6	19	80	60	32	63	46	146	204	283
Total.....	24	115	199	132	57	47	11	14	21	30	77	391	363	140	210	165	599	851	1228

The ages of 146 of the persons who died during the week were reported to be under one year, 204 under two years, 283 under five years, and 48 seventy years and over, which shows that the deaths of children under five years of age was 16 less than the number reported during last week, and represent 42.94 per cent. of the total weekly mortality.

Deaths reported from Small-pox, Measles, Scarlatina, Diphtheria, Membranous Croup, Whooping Cough, Typhus, Typhoid, Cerebro-Spinal, and Malarial Fevers, in Institutions, Tenement and other Dwellings, with Average Age, Floor, and Ward where the Death occurred, and the Hour of Death, for the week ending June 10, 1882.

DISEASE.	In Houses containing 3 Families and under.	In Houses containing over 3 Families.	Canal Boats.	Hotels and Boarding-houses.	Institutions.	In Streets, Rivers, etc.	FLOOR.										AVERAGE AGE.		
							Basement.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Top.	Not Stated.	Years.	Months.	Days.	
Small-pox.....	..	1	..	..	3	..	..	..	1	..	..	..	..	..	..	12	4	3	
Measles.....	2	11	..	1	2	..	1	1	6	2	1	3	..	..	..	1	10	3	
Scarlatina.....	14	32	..	..	4	..	1	11	16	10	6	2	..	..	..	3	8	19	
Diphtheria.....	3	22	..	..	3	..	1	1	4	7	9	3	..	..	..	3	3	16	
Membranous Croup.	2	11	..	..	..	..	1	..	6	4	2	..	..	..	..	1	11	10	
Whooping Cough...	2	11	..	..	1	..	..	..	5	4	2	..	..	..	..	1	7	23	
Typhus Fever.....	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	24	..	..	
Typhoid Fever.....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	39	..	..	
Cerebro-Spinal Fever	2	2	..	..	1	..	..	..	3	1	..	..	..	..	..	8	7	17	
Malarial Fevers....	5	1	..	..	..	..	..	2	3	..	1	..	..	..	..	27	10	24	

DISEASE.	WARDS.																								TOTAL DEATHS.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth.	Thirteenth.	Fourteenth.	Fifteenth.	Sixteenth.	Seventeenth.	Eighteenth.	Nineteenth.	Twentieth.	Twenty-first.	Twenty-second.	Twenty-third.	Twenty-fourth.	
Small-pox.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	4
Measles.....	..	1	..	..	..	..	1	..	1	1	4	..	..	..	2	..	3	2	..	1	..	..	..	..	16
Scarlatina.....	3	..	1	..	..	2	1	2	1	3	6	1	1	1	4	6	1	5	3	..	8	1	..	..	50
Diphtheria.....	..	..	..	1	..	3	2	2	..	2	5	..	1	..	1	3	1	1	2	..	3	1	..	..	28
Membranous Croup..	..	1	..	..	..	2	..	..	..	1	..	1	..	1	2	1	2	..	2	..	..	..	..	..	13
Whooping Cough....	..	..	..	..	..	..	..	..	..	3	..	..	1	2	1	3	..	..	..	4	..	..	..	..	14
Typhus Fever.....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2
Typhoid Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Cerebro-Spinal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	1	1	..	..	5
Malarial Fevers.....	..	..	..	..	..	1	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	2	..	..	6

## Hours at which Deaths Occurred.

DISEASE.	A. M.												P. M.												TOTAL.	
	1 o'clock.	2 o'clock.	3 o'clock.	4 o'clock.	5 o'clock.	6 o'clock.	7 o'clock.	8 o'clock.	9 o'clock.	10 o'clock.	11 o'clock.	12 o'clock.	1 o'clock.	2 o'clock.	3 o'clock.	4 o'clock.	5 o'clock.	6 o'clock.	7 o'clock.	8 o'clock.	9 o'clock.	10 o'clock.	11 o'clock.	12 o'clock.		Not stated.
Small-pox .....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	4	
Measles .....	..	1	..	2	..	..	..	1	..	1	1	1	2	..	1	2	1	1	1	..	2	..	..	..	16	
Scarlatina .....	..	4	2	5	3	2	..	2	1	..	1	4	3	5	1	1	..	5	..	2	2	4	2	1	..	50
Diphtheria .....	2	2	1	2	..	1	..	1	..	4	1	1	1	2	1	1	1	2	2	..	1	2	1	..	28	
Membranous Croup.	..	..	..	1	..	..	1	..	2	..	..	2	..	..	2	..	..	2	..	2	2	..	..	..	13	
Whooping Cough....	1	2	1	..	2	..	1	1	1	2	..	..	..	..	..	..	1	2	..	1	..	..	..	..	14	
Typhus Fever.....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	
Typhoid Fever.....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Cerebro-Spinal Fever	..	..	..	..	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	1	..	..	..	5	
Malarial Fevers....	..	..	..	1	..	..	..	..	1	..	..	..	..	1	..	..	1	..	1	1	1	..	..	..	6	

Of the total number of deaths reported for the week 150 were in institutions, 340 in tenement-houses, 142 in houses containing three families or less, 10 in hotels and boarding-houses, 16 in rivers, streets, boats, etc.; 8 were on the basement floor, 95 on the first, 176 on the second, 117 on the third, 66 on the fourth, 26 on the fifth, 4 on the sixth. 644 were stated to be residents of New York City, and 15 non-residents; 55 were stated to be single, 147 married, 69 widowed, and the condition of 388 was not stated; these were children who had not attained a marriageable age.

The total number of burial permits issued during the week are as follows, viz.: City deaths, 659; still-births, 52; bodies in transitu, 21; of the total burial permits issued for city and still-births 72 were upon certificates received from the Coroners; 477 births; 301 marriages; 52 still-births; 659 deaths; 21 applications for transit permits were recorded, indexed, and tabulated, 79 searches of the registers of births, marriages, and deaths were made, and 6 transcripts of the birth record, 7 of marriage, and 48 of death were issued during the week.

The mean temperature for the week ending June 10, 1882, was 70.7 degrees Fahr., the mean reading of the barometer was 29.666, the mean humidity was 52, saturation being 100, the number of miles traveled by the wind was 1,395, and the total amount of rain-fall was 0.06 inch depth of water, as reported by D. Draper, Ph. D., Director of the New York Meteorological Observatory, Central Park.

The disposition of 599 deaths and still-births, or 84.25 per cent. of the total number reported, was in the following 14 cemeteries: Bayside (Jewish), 20; Calvary (Roman Catholic), 245; City pauper burial ground (undenominational), 76; Greenwood (undenominational), 51; Lutheran, (undenominational), 84; Cypress Hills (undenominational), 22; Evergreen (undenominational), 35; Woodlawn (undenominational), 12; St. Michael's (Protestant Episcopal), 15; Union (Methodist Protestant), 3; Holy Cross (Roman Catholic), 6; Machpelah, L. I. (Jewish), 7; St. Raymond's (Roman Catholic), 11; Washington (undenominational), 12.

The distribution of deaths (actual mortality) for the week ending June 3, 1882, was in the following wards, viz.: First, 15; Second, 0; Third, 5; Fourth, 17; Fifth, 12; Sixth, 5; Seventh, 30; Eighth, 17; Ninth, 24; Tenth, 20; Eleventh, 37; Twelfth, 88; Thirteenth, 12; Fourteenth, 18; Fifteenth, 10; Sixteenth, 19; Seventeenth, 44; Eighteenth, 36; Nineteenth, 108; Twentieth, 52; Twenty-first, 53; Twenty-second, 52; Twenty-third, 13; Twenty-fourth, 3.

The actual mortality for the week ending June 3, 1882, was 690; this is 66 more than the number that occurred during the corresponding week of the year 1881, and 206 more than the average of the corresponding weeks of the past five years, and represents an annual death-rate of 28.10 per 1,000 persons living, the population estimated at 1,276,714.

The annual death-rate per 1,000 persons living, of the estimated or enumerated population, according to the most recent weekly returns of Philadelphia was 15.07; Brooklyn, 22.96; Baltimore, 17.03; New Orleans, 32.24; San Francisco, 20.21; Charleston, 34.32; Erie, 20.63; Savannah, 27.28; Lowell, 26.23; Worcester, 19.07; Cambridge, 24.65; Fall River, 25.47; Lawrence, 14.60; Springfield, 17.16; Grand Rapids, 16.34. Monthly returns—Boston, 23.90; Providence, 16.13; Richmond, 25.77; Mobile, 29.54; Lansing, 8.50; Norfolk, 25.13; Paterson, 26.62; Hartford, 23.42; Bridgeport, 7.41; Norwich, 22.14; Meriden, 15.70; New London, 17.10; Wilmington, Del., 23.74; Keokuk, 6.40. Foreign cities, weekly returns—London, 19.2; Liverpool, 25.5; Birmingham, 19.5; Manchester, 27.3; Glasgow, 27.5; Edinburgh, 18.6; Dundee, 16.8; Dublin, 24.6; Belfast, 24.3; Cork, 10.6; Brussels, 27.9; Antwerp, 25.8; Ghent, 21.4; Buda Pesth, 37.2; Paris, (8 days), 26.26; Turin, 27.6; Venice, 31.1; Berlin, 25.2; Munich, 30.6; Breslau, 31.58; Vienna, 34.5; Trieste, 27.4; Christiania, 14.92; Amsterdam, 25.8; Rotterdam, 24.1; The Hague, 22.7; Calcutta, 29.7; Bombay, 23.7; Madras, 29.2; Geneva (with suburbs), 31.6; Basel, 22; Bern, 28.9; Warsaw, 32.78; Salford, 25.8; Prague (with suburbs), 33.4; Lisbon, 18; Malaga, 42.6; Murcia, 18.8; Zaragoza, 48.3; Granada, 39.6; Cadiz, 37.8.

By order of the Board.

EMMONS CLARK, Secretary.

## Report on United States Assay Office.

HEALTH DEPARTMENT—SANITARY BUREAU,  
NEW YORK, June 17, 1882.

W. DE F. DAY, M. D., Sanitary Superintendent:

SIR—In accordance with the request contained in your letter of May 29, I have the honor to submit the following report upon the petition sent to the Board of Health by the occupants of offices in the vicinity of the United States Assay Office.

This complaint is annually made, and annually, since my connection with the Department, I have reported upon it. The authorities in charge of the Assay Office have done much to remedy the evils complained of, but hampered, I believe, either by insufficient appropriations or by the necessity of economizing, have failed to eradicate the entire source of complaint. There have been many and marked improvements introduced, with a corresponding reduction of complaints, since 1873, and I believe with a proper sum of money almost the entire source of complaint would be removed.

Originally the chief source of the nuisance was the escape of sulphuric acid and sulphurous acid fumes during the process of "parting," from the pots being allowed to cool outside of the hoods. This has been obviated, at my suggestion, by keeping them carefully covered and connected with the scrubbers during the entire process of refining. The present complaints are due either to an insufficient amount of scrubbing surface or, more probably, to a lack of water; to determine which would require a careful series of tests.

Several attempts have been made to sink artesian wells in the office, but have failed, the boring never, I believe, having been carried to any great depth. At present a cistern has been just completed which is to contain all the alkaline waters from the washings of the "sweeps," and it is expected that this will prove sufficient to condense and neutralize all the acid fumes produced. The office is to be closed for repairs for the next two weeks, and the condensing apparatus will then be entirely overhauled, and perchance some of the defects remedied.

In regard to the process employed, it is one used in many refineries. Ballard, in his report on nuisances, speaks of it as follows:

"When the operation of refining gold and silver is conducted on a large scale, with plenty of space for the requisite plant, concentrated sulphuric acid is the acid; but under other conditions nitric acid is used as at the Philadelphia mint. Both these processes give rise to many complaints, but as far as I have been able to learn, the sulphuric acid process is that which has been the more fruitful of complaint." (Ballard, *loc. cit.*) As the sulphuric acid process is the most economical, it is the one, however, which is usually adopted, and should, with proper means of scrubbing and condensing the gases, give rise to few or no causes of complaint.

In conclusion, I would recommend the introduction of some variety of "scrubber" in addition to the condenser now in use, together with a more ample supply of water, both for the present and added apparatus—both the apparatus and water to be properly proportioned to the amount of acid used and the amount unrecovered in the process of refining. I do not believe that any amount of apparatus would entirely remove all nuisance, but I do believe that a proper expenditure would place it so under control that all reasonable cause of complaint would be removed.

Respectfully submitted,

S. A. GOLDSCHMIDT, PH. D., Inspector of Offensive Trades.

## Report on United States Electric Light Company.

HEALTH DEPARTMENT—SANITARY BUREAU,  
NEW YORK, June 17, 1882.

W. DE F. DAY, M. D., Sanitary Superintendent:

SIR—I have the honor to report that in accordance with your instructions I have made a careful examination of the causes of complaint expressed in the petition of the residents in the neighborhood of West Twenty-fifth and Twenty-sixth streets, between Fifth and Sixth avenues, against the United States Electric Light Company, as well as of the report of Inspector Lockwood upon the subject.

The nuisance complained of is of three-fold character.

- 1st. The jar and noise of the machinery.
- 2d. The smoke, dust, and cinders from the boiler fires.
- 3d. The noise of the high-pressure steam exhaust.

I see no means of preventing the first nuisance. As long as the machinery is kept running so long will there be a jarring of the buildings.

To cure the nuisance arising from the smoke, soot or cinders, I would recommend the more frequent removal of the ashes and dirt from the ash-pit at the back of the boiler. This, I understand, is usually done about once in six months. It should be done at least monthly. I should also recommend the introduction of a screen of fine wire, similar in character to the spark-arresters on locomotives, at the base of the chimney flue.

There are several varieties of noiseless exhausts in use, any one of which might be substituted for the present noisy one, thus removing the principal nuisance complained of.

The offices of the United States Electric Light Company are at No. 90 Chambers street, and Eugene T. Lynch is said to be president thereof.

Respectfully submitted,

S. A. GOLDSCHMIDT, PH. D., Inspector of Offensive Trades.

## BUREAU OF VITAL STATISTICS.

REPORTED MORTALITY\* for the week ending June 10, 1882, together with the ACTUAL MORTALITY for the week ending June 3, 1882.

W. DE F. DAY, M. D., Sanitary Superintendent and Register:

SIR—There were 659 deaths reported to have occurred in this city during the week ending Saturday, June 10, 1882, which is a decrease of 60, as compared with the number reported the preceding week, and 26 more than were reported during the corresponding week of the year 1881. The actual mortality for the week ending June 3, 1882, was 690, which is 206.0 above the average for the corresponding week for the past five years, and represents an annual death-rate of 28.10 per 1,000 persons living, the population estimated at 1,276,714.

Table showing the Reported Mortality for the week ending June 10, 1882, and the Actual Number of Deaths each day, from the Principal Causes, with the Ages of Decedents, for the week ending June 3, 1882.

METEOROLOGY.		Week ending June 10.	Week ending June 3.	ACTUAL NUMBER OF DEATHS EACH DAY DURING THE WEEK ENDING SATURDAY, JUNE 3, 1882.										AGE BY YEARS.																			SEX.						
		70.7 29,666 52 1,395 0.06	66.8 29,702 59 1,391 0.78	DATE.																																			
CAUSES OF DEATH.		Total Deaths reported during the week ending June 10, 1882.	Total Deaths reported during the week ending June 3, 1882.	May 28.	May 29.	May 30.	May 31.	June 1.	June 2.	June 3.	Total Actual Mortality during the week ending June 3, 1882.	Actual number of Deaths for the corresponding week of 1881.	Average number of Deaths in the corresponding week of the past five years.	Annual Death-rate per 1,000, during week (population estimated at 1,276,714).	Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	Total under 5 years.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 and over.	Male.	Female.	COLOR.		
Total Deaths from all Causes.		659	719	109	111	122	94	87	80	87	690	624	484.0	28.10	154	62	44	33	18	311	23	14	15	34	33	31	34	40	28	32	19	20	14	42	378	312	10		
Total Zymotic Diseases.		181	194	29	25	27	34	25	19	32	191	223	119.0	7.78	50	34	23	21	18	146	17	2	2	3	2	4	3	3	2	2	2	2	2	2	2	113	78	2	
Total Constitutional Diseases.		129	144	25	26	18	14	16	17	22	138	121	117.4	5.62	26	3	3	5	1	37	1	2	5	16	15	7	11	13	8	7	4	8	1	3	78	60	2		
Total Local Diseases.		275	307	44	46	67	38	35	36	27	293	224	187.0	11.93	56	25	18	6	105	3	8	5	9	15	17	18	19	17	18	10	11	9	29	150	143	5			
Total Developmental Diseases.		43	45	8	9	7	4	6	2	5	41	36	32.6	1.67	21	1	1	1	2	21	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	16	25	1	
Deaths by Violence.		31	29	3	5	3	4	5	6	1	27	40	28.0	1.10	1	1	1	1	2	2	2	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	21	6	1
Small-pox.		4	4	1	1	1	1	1	1	1	6	19	12.2	0.66	1	1	1	1	2	2	2	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	13	13	1
Measles.		16	30	8	4	3	3	4	2	2	26	23	8.2	1.06	9	9	3	3	2	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Scarlatina.		50	40	7	5	2	11	7	2	7	41	37	24.6	1.67	3	7	7	3	10	30	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Diphtheria.		28	31	1	4	4	5	5	5	8	32	31	16.8	1.30	3	7	5	9	4	28	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Membranous Croup.		13	15	1	3	2	1	3	1	1	12	16	8.6	0.67	1	1	1	1	2	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Whooping Cough.		14	14	5	4	2	2	2	2	4	17	1	4.4	0.35	9	3	3	2	1	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Erysipelas.		5	5	1	1	1	1	1	1	1	5	2	2.2	0.18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Typhoid Fever.		2	3	1	1	1	1	1	1	1	4	4	1.0	0.08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Typhoid Fever.		1	3	1	1	1	1	1	1	1	5	5	3.4	0.28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cerebro-Spinal Fever.		5	6	2	1	2	1	1	1	1	7	10	4.4	0.35	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Remittent, Intermittent, Typho-Malarial, Congestive, and Simple Continued Fevers.		6	10	1	4	2	2	1	1	2	10	10	6.4	0.50	1	1	1	2	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Puerperal Diseases.		5	18	1	3	3	2	1	1	1	10	5	5.0	0.40	1	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Diarrhoeal Diseases.		19	24	6	2	2	5	2	1	4	22	32	22.8	1.90	13	5	1	1	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inanition, Want of Breast Milk, etc.		8	4	1	1	1	1	1	1	2	5	9	4.8	0.38	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alcoholism.		4	4	1	1	1	1	1	1	1	2	3	2.6	0.20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rheumatism and Gout.		4	3	1	1	1	1	1	1	1	9	9	4.6	0.36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cancer.		12	12	3	1	1	1	2	2	1	10	11	11.2	0.88	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Phthisis Pulmonalis.		80	106	17	22	14	10	10	11	13	97	74	80.2	6.30	1	1	1	1	8	1	2	5	16	15	7	10	11	7	6	4	4	1	1	1	1	1	1	1	1
Bronchitis.		32	33	6	5	9	2	5	2	5	34	17	17.8	1.38	1	1	1	1	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pneumonia.		60	88	12	12	19	15	9	10	4	81	35	44.2	3.30	1	1	1	1	37	2	2	2	1	5	4	7	7	3	3	1	1	1	1	1	1	1	1	1	1
Heart Diseases.		28	37	2	3	13	5	4	3	3	32	24	17.8	1.30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aneurism.		1	1	1	1	1	1	1	1	1	1	1	1	0.08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marasmus—Tabes Mesenterica and Scrofula.		16	13	4	2	1	2	2	2	6	19	11	8.0	0.63	1	1	1	1	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydrocephalus and Tubercular Meningitis.		17	9	4	1	2	1	2	3	2	11	12	11.0	0.85	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Meningitis and Encephalitis.		9	16	3	3	4	1	1	2	1	12	12	12.2	0.95	1	1	1	1	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Convulsions.		9	9	2	1	1	1	1	1	1	7	15	9.2	0.72	1	1	1	1	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Direct Effect of Solar Heat.		19	9	1	3	2	1	1	1	1	17	11	8.0	0.63	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Apoplexy.		63	54	8	9	8	3	7	14	8	57	62	41.8	3.24	1	1	1	1	25	1	1	1	4	3	4	3	3	2	5	1	1	1	1	1	1	1	1	1	1
All Diseases of the Brain and Nervous System.		6	6	1	1	2	1	1	1	1	5	4	4.0	0.31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cirrhosis of Liver and Hepatitis.		17	14	1	3	2	3	2	1	2	14	16	11.6	0.89	1	1	1	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Enteritis, Gastro-Enteritis, Peritonitis, and Gastritis.		43	43	6	6	8	7	4	4	3	38	28	23.6	1.85	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bright's Disease and Nephritis.		3	4	2	1	2	1	1	1	1	5	5	5.2	0.40	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cyanosis and Atelectasis.		19	13	2	1	2	1	3	1	2	11	15	10.6	0.83	1	1	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Premature and Preterm Births.		2	1	1	1	1	1	1	1	1	1	1	1.2	0.09	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Surgical Operations.		3	2	1	1	1	1	1	1	1	3	4	3.8	0.29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							

Births \* reported during the week ending June 10, 1882.

TOTAL.	COLOR.		SEX.			NATIVITY OF PARENTS.									NAME OF CHILD.	
	White.	Colored.	Male.	Female.	Not stated.	Foreign.	Native.	Foreign Father only.	Foreign Mother only.	NATIVITY OF FATHER STATED ONLY		NATIVITY OF MOTHER STATED ONLY		Not stated.	Not stated.	
										Native.	Foreign.	Native.	Foreign.			
477	470	7	243	234	..	227	125	70	50	..	1	3	1	..	346	131

Marriages \* reported during the week ending June 10, 1882.

TOTAL.	COLOR.				NATIVITY.								CONDITION.									
	WHITE.		COLORED.		FOREIGN.		NATIVE.		BORN AT SEA.		NOT STATED.		FIRST MARRIAGE.		SECOND MARRIAGE.		THIRD MARRIAGE.		FOURTH MARRIAGE.		NOT STATED.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
301	300	300	1	1	193	175	108	126	..	..	..	..	248	261	38	34	7	1	..	..	8	5

\* The returns of births, marriages, and still-births are incomplete.

Nativity of those who were Married, and the Parents of the Births and Still-Births, for the week ending June 10, 1882, and those who Died (actual mortality), week ending June 3, 1882.

NATIVITY OF DECEASED.	COUNTRY.	DEATHS.		BIRTHS.		MARRIAGES.		STILL-BIRTHS.	
		Nativity of Father.	Nativity of Mother.	Nativity of Father.	Nativity of Mother.	Nativity of Groom.	Nativity of Bride.	Nativity of Father.	Nativity of Mother.
7	Austria .....	14	11	6	4	9	9	1	1
4	British America .....	3	3	7	7	1	1	1	1
23	England .....	29	28	16	12	13	6	2	..
2	France .....	2	2	7	5	3	3	..	..
77	Germany .....	153	141	112	108	94	83	15	14
107	Ireland .....	217	232	88	80	17	20	9	8
12	Italy .....	17	16	19	18	23	22	..	..
1	Poland .....	3	4	10	10	1	1	2	1
6	Scotland .....	14	9	7	5	3	1	..	..
1	Switzerland .....	3	3	..	..	4	3	1	..
430	United States .....	152	152	175	198	108	126	17	22
9	Unknown or not stated .....	66	65	4	1	..	..	1	1
1	West Indies .....	..	..	..	..	..	..	..	..
14	Other countries .....	27	24	26	29	25	25	2	2

Still-Births reported during the week ending June 10, 1882.

TOTAL.	SEX.			COLOR.		NATIVITY OF						PERIOD OF UTERO-GESTATION.										Unknown or not stated.
	Male.	Female.	Not stated.	White.	Colored.	FATHER.			MOTHER.			MONTH.										
						Native.	Foreign.	Not stated.	Native.	Foreign.	Not stated.	1	2	3	4	5	6	7	8	9	10	
51	22	29	..	50	1	17	33	1	22	28	1	..	1	..	1	5	5	5	7	26	1	..

Deaths reported during the week ending June 10, 1882.

TOTAL.	PLACE OF DEATH.															RESIDENCE.			CONDITION.			
	FLOORS.															New York City.	Outside New York City.	Not stated.†	STATED.			
																			Single.	Married.	Widowed.	Not stated.†
659	150	340	142	10	16	..	8	95	176	117	66	26	4	..	..	644	15	..	55	147	69	388

† Principally children and deaths in institutions.

## METEOROLOGICAL OBSERVATORY

OF THE

DEPARTMENT OF PUBLIC PARKS,  
CENTRAL PARK, NEW YORK.

Latitude 40° 45' 58" N. Longitude 73° 57' 58" W. Height of Instruments above the Ground, 53 feet; above the Sea, 97 feet.

## ABSTRACT OF REGISTERS FROM SELF-RECORDING INSTRUMENTS

For the Week Ending June 17, 1882.

## Barometer.

DATE. JUNE.	7 A. M.	2 P. M.	9 P. M.	Mean for the Day.	MAXIMUM.		MINIMUM.	
	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Time.	Reduced to Freezing.	Time.
Sunday, 11	29.750	29.806	29.910	29.822	29.964	12 P. M.	29.702	0 A. M.
Monday, 12	30.068	30.090	30.086	30.081	30.100	11 A. M.	29.964	0 A. M.
Tuesday, 13	30.108	30.088	30.066	30.087	30.112	9 A. M.	30.062	12 P. M.
Wednesday, 14	30.050	29.990	29.898	29.979	30.062	0 A. M.	29.874	12 P. M.
Thursday, 15	29.794	29.642	29.592	29.676	29.874	0 A. M.	29.552	7 P. M.
Friday, 16	29.590	29.600	29.598	29.596	29.618	11 A. M.	29.586	0 A. M.
Saturday, 17	29.588	29.588	29.542	29.573	29.602	10 A. M.	29.538	7 P. M.

Mean for the week..... 29.830 inches.  
Maximum " at 9 A. M., June 13..... 30.112 "  
Minimum " at 7 P. M., June 17..... 29.538 "  
Range " ..... .574 "

## Thermometers.

DATE. JUNE.	7 A. M.	2 P. M.	9 P. M.	MEAN.	MAXIMUM.		MINIMUM.		MAX- IMUM.
	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	
Sunday, 11	64	61	71	65	60	66.7	61.0	76	120.
Monday, 12	64	54	72	60	65	57.0	57.0	74	123.
Tuesday, 13	67	59	79	66	68	61.3	62.0	79	127.
Wednesday, 14	65	59	80	68	70	60.7	62.3	80	130.
Thursday, 15	68	59	79	68	74	67	73.6	83	125.
Friday, 16	73	66	84	72	80	71	79.0	86	130.
Saturday, 17	73	67	83	73	71	68	75.7	83	126.

Mean for the week..... 72.1 degrees.  
Maximum for the week, at 5 P. M., 16th..... 86. " at 1 P. M., 17th..... 74 "  
Minimum " at 5 A. M., 12th..... 59. " at 5 A. M., 12th..... 51. "  
Range " ..... 27. "

## Wind.

DATE. JUNE.	DIRECTION.			VELOCITY IN MILES.				FORCE IN POUNDS PER SQUARE FOOT.				
	7 A. M.	2 P. M.	9 P. M.	7 A. M.	2 P. M.	9 P. M.	Distance for the Day.	7 A. M.	2 P. M.	9 P. M.	Max.	Time.
Sunday, 11....	NE	ENE	S	41	58	48	147	½	0	0	2½	4.20 P. M.
Monday, 12....	NE	S	S	48	37	51	156	½	¾	0	3	9.15 A. M.
Tuesday, 13....	ESE	S	SSE	34	22	57	113	0	1	0	2½	4.30 P. M.
Wednesday, 14....	WSW	SSE	SSW	33	39	76	148	0	½	2	3½	3.15 P. M.
Thursday, 15....	SSW	SSE	N	77	62	49	188	½	1	½	2	1 P. M.
Friday, 16....	WNW	WNW	W	54	48	29	131	¾	0	0	3	7.15 A. M.
Saturday, 17....	NE	SE	SE	13	41	72	126	0	2½	0	5	6 P. M.

Distance traveled during the week..... 1,009 miles.  
Maximum force " " ..... 5 pounds.

## Hygrometer.

## Clouds.

## Rain and Snow.

DATE. JUNE.	FORCE OF VAPOR.			RELATIVE HUMIDITY.			CLEAR, O. OVERCAST, 10.			DEPTH OF RAIN AND SNOW IN INCHES.			
	7 A. M.	2 P. M.	9 P. M.	7 A. M.	2 P. M.	9 P. M.	7 A. M.	2 P. M.	9 P. M.	Time of Beginning.	Time of Ending.	Duration.	Amount of Water.
Sunday, 11	.497	.436	.451	83	57	73	10	2 Cir. Cu.	2 Cir. S.	2.40 A. M.	5.30 A. M.	2.50	..
Monday, 12	.285	.358	.359	48	45	58	0	0	0	.....	.....	.....	..
Tuesday, 13	.393	.465	.443	59	47	65	2 Cir. S.	0	0	.....	.....	.....	..
Wednesday, 14	.420	.524	.385	68	51	52	1 Cir.	3 Cir. S.	4 Cir. Cu.	.....	.....	.....	..
Thursday, 15	.380	.537	.568	55	54	68	4 Cir. Cu.	1 Cir.	10	1.50 P. M.	11 P. M.	2.10	..
Friday, 16	.545	.623	.637	67	53	62	1 Cir. S.	6 Cu.	0	.....	.....	.....	..
Saturday, 17	.581	.677	.644	71	60	85	0	0	3 Cir. Cu.	.....	.....	.....	..

Total amount of water for the week..... .47 inch.

DANIEL DRAPER, PH. D., Director.

## OFFICIAL DIRECTORY.

**STATEMENT OF THE HOURS DURING WHICH**  
all the Public Offices in the City are open for business, and at which each Court regularly opens and adjourns, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts.

## EXECUTIVE DEPARTMENT.

**Mayor's Office.**  
No. 6 City Hall, 10 A. M. to 3 P. M.  
WILLIAM R. GRACE, Mayor; WILLIAM M. IVINS, Secretary and Chief Clerk.

**Mayor's Marshal's Office.**  
No. 1 City Hall, 10 A. M. to 3 P. M.  
GEORGE A. McDERMOTT, First Marshal.

**Permit Bureau Office.**  
No. 13½ City Hall, 10 A. M. to 3 P. M.  
HENRY WOLTMAN, Register.

**Sealers and Inspectors of Weights and Measures.**  
No. 7 City Hall, 10 A. M. to 3 P. M.  
WILLIAM EYELERS, Sealer First District; CHRISTOPHER BARRY, Sealer Second District; JOHN MURRAY, Inspector First District; JOSEPH SHANNON, Inspector Second District.

**COMMISSIONERS OF ACCOUNTS.**  
No. 1 County Court-house, 9 A. M. to 4 P. M.  
WM. PITT SHEARMAN, JOHN W. BARROW.

**LEGISLATIVE DEPARTMENT.**  
**Office of Clerk of Common Council.**  
No. 8 City Hall, 10 A. M. to 4 P. M.  
WILLIAM SAUER, President Board of Aldermen.  
FRANCIS J. TWOMEY, Clerk Common Council.

**City Library.**  
No. 12 City Hall, 10 A. M. to 4 P. M.  
THOS. J. O'CONNELL, Librarian.

## DEPARTMENT OF PUBLIC WORKS.

**Commissioner's Office.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
HUBERT O. THOMPSON, Commissioner; FREDERICK H. HAMLIN, Deputy Commissioner.

**Bureau of Water Register.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN H. CHAMBERS, Register.

**Bureau of Incumbrances.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOSEPH BLUMENTHAL, Superintendent.

**Bureau of Lamps and Gas.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEPHEN MCCORMICK, Superintendent.

**Bureau of Streets.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JAMES J. MOONEY, Superintendent.

**Engineer in Charge of Sewers.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEPHENSON TOWLE, Engineer-in-Charge.

**Bureau of Chief Engineer.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
ISAAC NEWTON, Chief Engineer.

**Bureau of Street Improvements.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEORGE A. JEREMIAH, Superintendent.

**Bureau of Repairs and Supplies.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
THOMAS H. McAVOY, Superintendent.

**Bureau of Water Purveyor.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
DANIEL O'REILLY, Water Purveyor.

**Keeper of Buildings in City Hall Park.**  
MARTIN J. KEENE, City Hall.

## FINANCE DEPARTMENT.

**Comptroller's Office.**  
Nos. 19 and 20 New County Court-house, 9 A. M. to 4 P. M.  
ALLAN CAMPBELL, Comptroller; RICHARD A. STOKES, Deputy Comptroller.

**Auditing Bureau.**  
No. 19 New County Court-house, 9 A. M. to 4 P. M.  
DANIEL JACKSON, Auditor of Accounts.

**Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.**  
No. 5 New County Court-house, 9 A. M. to 4 P. M.  
ARTEMAS CADY, Collector of Assessments and Clerk of Arrears.

**Bureau for the Collection of City Revenues and of Markets.**  
No. 6 New County Court-house, 9 A. M. to 4 P. M.  
THOMAS F. DeVoe, Collector of City Revenue and Superintendent of Markets.

**Bureau for the Collection of Taxes.**  
First floor Brown-stone Building, City Hall Park.  
MARTIN T. McMAHON, Receiver of Taxes; ALFRED VREDENBURG, Deputy Receiver of Taxes.

**Bureau of the City Chamberlain.**  
No. 18 New County Court-house, 9 A. M. to 4 P. M.  
J. NELSON TAPPAN, City Chamberlain.

**Office of the City Paymaster.**  
Room 1, New County Court-house, 9 A. M. to 4 P. M.  
MOOR FALLS, City Paymaster.

## LAW DEPARTMENT.

**Office of the Counsel to the Corporation.**  
Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.  
Saturdays, 9 A. M. to 4 P. M.  
WILLIAM C. WHITNEY, Counsel to the Corporation; ANDREW T. CAMPBELL, Chief Clerk.

**Office of the Public Administrator.**  
No. 49 Beekman street, 9 A. M. to 4 P. M.  
ALGERNON S. SULLIVAN, Public Administrator.

**Office of the Corporation Attorney.**  
No. 49 Beekman street, 9 A. M. to 4 P. M.  
WILLIAM A. BOYD, Corporation Attorney.

## POLICE DEPARTMENT.

**Central Office.**  
No. 300 Mulberry street, 9 A. M. to 4 P. M.  
STEPHEN B. FRENCH, President; SETH C. HAWLEY, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

## DEPARTMENT OF CHARITIES AND CORRECTION.

**Central Office.**  
No. 66 Third avenue, corner Eleventh street, 8:30 A. M. to 5:30 P. M.  
THOMAS S. BRENNAN, President; GEORGE F. BRITTON, Secretary.

## FIRE DEPARTMENT.

**Headquarters.**  
Nos. 155 and 157 Mercer street.  
JOHN J. GORMAN, President; CARL JUSSEN, Secretary.  
**Bureau of Chief of Department.**  
ELI BATES, Chief of Department.  
**Bureau of Inspector of Combustibles.**  
PETER SEERY, Inspector of Combustibles.  
**Bureau of Fire Marshal.**  
GEORGE H. SHELTON, Fire Marshal.

**Bureau of Inspection of Buildings.**  
WM. P. ESTERBROOK, Inspector of Buildings.  
Office hours, Headquarters and Bureaus, from 9 A. M. to 4 P. M. Saturdays, 3 P. M.

**Attorney to Department.**  
WM. L. FINDLEY, Nos. 155 and 157 Mercer street and No. 120 Broadway.

**Fire Alarm Telegraph.**  
J. ELLIOT SMITH, Superintendent of Telegraph, Nos. 155 and 157 Mercer street.

**Repair Shops.**  
Nos. 128 and 130 West Third street.  
JOHN McCABE, Chief of Battalion-in-Charge, 8 A. M. to 5 P. M.

**Hospital Stables.**  
No. 199 Chrystie street.  
DEDERICK G. GALE, Superintendent of Horses.

**HEALTH DEPARTMENT.**  
No. 301 Mott street, 9 A. M. to 4 P. M.  
CHARLES F. CHANDLER, President; EMMONS CLARK, Secretary.

**DEPARTMENT OF PUBLIC PARKS.**  
No. 36 Union Square, 9 A. M. to 4 P. M.  
EDWARD P. BARKER, Secretary.

**Civil and Topographical Office.**  
Arsenal, 64th street and 5th avenue, 9 A. M. to 5 P. M.  
**Office of Superintendent of 23d and 24th Wards.**  
146th street and 3d avenue, 9 A. M. to 5 P. M.

**DEPARTMENT OF DOCKS.**  
Nos. 117 and 119 Duane street, 9 A. M. to 4 P. M.  
WILLIAM LAMBEER, President; JOHN T. CUMING, Secretary.

**DEPARTMENT OF TAXES AND ASSESSMENTS.**  
Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
THOMAS B. ASTEN, President; J. C. REED, Secretary.

**Office Bureau Collection of Arrears of Personal Taxes.**  
No. 31 Chambers street, 9 A. M. to 4 P. M.

**DEPARTMENT OF STREET CLEANING.**  
51 Chambers street, Rooms 10, 11 and 12, 9 A. M. to 4 P. M.  
JAMES S. COLEMAN, Commissioner; M. J. MORRISON, Chief Clerk.

**BOARD OF ASSESSORS.**  
Office, City Hall, Room No. 11½, 9 A. M. to 4 P. M.  
JOHN R. LYDECKER, Chairman; WM. H. JASPER, Secretary.

**BOARD OF EXCISE.**  
Corner Bond street and Bowery, 9 A. M. to 4 P. M.  
WILLIAM P. MITCHELL, President; ANTHONY HARTMAN, Chief Clerk.

**SHERIFF'S OFFICE.**  
Nos. 3 and 4 New County Court-house, 9 A. M. to 4 P. M.  
PETER BOWE, Sheriff; JOEL O. STEVENS, Under Sheriff; ALEX. V. DAVIDSON, Order Arrest Clerk.

**REGISTER'S OFFICE.**  
East side City Hall Park, 9 A. M. to 4 P. M.  
AUGUSTUS T. DOCHARTY, Register; J. FAIRFAX McLAUGHLIN, Deputy Register.

**COMMISSIONER OF JURORS.**  
No. 17 New County Court-house, 9 A. M. to 4 P. M.  
GEORGE CAULFIELD, Commissioner; ALFRED J. KREGAN, Deputy Commissioner.

**COUNTY CLERK'S OFFICE.**  
Nos. 7 and 8 New County Court-house, 9 A. M. to 4 P. M.  
WILLIAM A. BUTLER, County Clerk; CHAS. S. BEARDSLEY, Deputy County Clerk.

**DISTRICT ATTORNEY'S OFFICE.**  
Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
JOHN McKEON, District Attorney; HUGH DONNELLY, Chief Clerk.

**THE CITY RECORD OFFICE.**  
**And Bureau of Printing, Stationery, and Blank Books.**  
No. 2 City Hall, 8 A. M. to 5 P. M., except Saturdays on which days 8 A. M. to 3 P. M.  
THOMAS COSTIGAN, Supervisor; R. P. H. ABELL, Book-keeper.

**CORONERS' OFFICE.**  
Nos. 13 and 15 Chatham street.  
PHILIP MERKLE, THOMAS C. KNOX, GERSON N. HERRMAN, JOHN H. BRADY, Coroners; JOHN D. COUGHLIN, Clerk of the Board of Coroners.

**SUPREME COURT.**  
Second floor, New County Court-house, 10½ A. M. to 3 P. M.  
General Term, Room No. 9.  
Special Term, Room No. 10.  
Chambers, Room No. 11.  
Circuit, Part I, Room No. 12.  
Circuit, Part II, Room No. 13.  
Circuit, Part III, Room No. 14.  
Judges' Private Chambers, Room No. 15.  
NOAH DAVIS, Chief Justice; WILLIAM A. BUTLER, Clerk.

**SUPERIOR COURT.**  
Third floor, New County Court-house, 11 A. M.  
General Term, Room No. 29.  
Special Term, Room No. 30.  
Chambers, Room No. 31.  
Part I, Room No. 32.  
Part II, Room No. 33.  
Part III, Room No. 34.  
Judges' Private Chambers, Room No. 35.  
Naturalization Bureau, Room No. 36.  
Clerk's Office, 9 A. M. to 4 P. M., Room No. 31.  
JOHN SEDGWICK, Chief Judge; THOMAS BOESE, Chief Clerk.

**COURT OF COMMON PLEAS.**  
Third floor, New County Court-house, 11 A. M.  
Clerk's Office, 9 A. M. to 4 P. M., Room No. 22.  
General Term, Room No. 24.  
Special Term, Room No. 21.  
Chambers, Room No. 23.  
Part I, Room No. 25.  
Part II, Room No. 26.  
Part III, Room No. 27.  
Naturalization Bureau, Room No. 28.  
CHARLES P. DALY, Chief Justice; NATHANIEL JARVIS, Jr., Chief Clerk.

## COURT OF GENERAL SESSIONS.

No. 12 Chambers street. Parts I. and II.  
FREDERICK SMYTH, Recorder, Presiding Judge of the General Sessions; HENRY A. GILDERSLEEVE and RUFUS B. COWING, Judges.  
Terms first Monday each month.  
JOHN SPARKS, Clerk.

## MARINE COURT.

General Term, Room No. 15, City Hall.  
Trial Term, Parts I., II., and III., second floor, City Hall.  
Special Term, Chambers, Room No. 21, City Hall, 10 A. M. to 4 P. M.  
Clerk's Office, Room No. 10, City Hall.  
GEORGE SHEA, Chief Justice; JOHN SAVAGE, Clerk.

## OVER AND TERMINER COURT.

General Term, New County Court-house, second floor, southeast corner, Room No. 13, 10:30 A. M.  
Clerk's Office, Brown-stone Building, City Hall Park second floor, northwest corner.

## COURT OF SPECIAL SESSIONS.

At Tombs, corner Franklin and Centre streets, Tuesdays, Thursdays, and Saturdays, 10 A. M.  
Clerk's Office, Tombs.

## DISTRICT CIVIL COURTS.

First District—First, Second, Third, and Fifth Wards, southwest corner of Centre and Chambers streets, 10 A. M. to 4 P. M.  
MICHAEL NORTON, Justice.  
Second District—Fourth, Sixth, and Fourteenth Wards corner of Pearl and Centre streets, 9 A. M. to 4 P. M.  
CHARLES M. CLANCY, Justice.  
Third District—Eighth, Ninth, and Fifteenth Wards, Sixth avenue, corner West Tenth street.  
GEORGE W. PARKER, Justice.  
Fourth District—Tenth and Seventeenth Wards Nos. 20 and 22 Second avenue, 9 A. M. to 4 P. M.  
ALFRED STECKLER, Justice.  
Fifth District—Seventh, Eleventh, and Thirteenth Wards, No. 154 Clinton street.  
JOHN H. MCCARTHY, Justice.  
Sixth District—Eighteenth and Twenty-first Wards, Nos. 389 and 391 Fourth avenue.  
WILLIAM H. KELLY, Justice.  
Seventh District—Nineteenth and Twenty-second Wards, Fifty-seventh street, between Third and Lexington avenues.  
AMBROSE MONELL, Justice.  
Eighth District—Sixteenth and Twentieth Wards, southwest corner of Twenty-second street and Seventh avenue.  
FREDERICK G. GEDNEY, Justice.  
Ninth District—Twelfth Ward, One Hundred and Twenty-fifth street, near Fourth avenue.  
HENRY P. MCGOWAN, Justice.  
Tenth District—Twenty-third and Twenty-fourth Wards, corner of College avenue and Kingsbridge road.  
JAMES R. ANGEL, Justice.

## POLICE COURTS.

Judges—BUTLER H. BIXBY, MAURICE J. POWER, J. HENRY FORD, JACOB PATTERSON, JR., JAMES T. KILBRETH, BANKSON T. MORGAN, HENRY MURRAY, MARCUS OTTERBOURG, SOLON B. SMITH, ANDREW J. WHITE, HUGH GARDINER.  
George W. Coughlin, Secretary.  
Office of Secretary, Fifth District Police Court, One Hundred and Twenty-fifth street, near Fourth avenue.  
First District—Tombs, Centre street.  
Second District—Jefferson Market.  
Third District—No. 69 Essex street.  
Fourth District—Fifty-seventh street, near Lexington avenue.  
Fifth District—One Hundred and Twenty-fifth street, near Fourth avenue.  
Sixth District—One Hundred and Fifty-eighth street and Third avenue.

## THE COLLEGE OF THE CITY OF NEW YORK.

**A STATED MEETING OF THE BOARD OF**  
Trustees of the College of the City of New York will be held at the Academy of Music, corner of Fourteenth street and Irving place, on Thursday, June 29, 1882, at 7:30 o'clock P. M.  
LAWRENCE D. KIERNAN, Secretary.

## POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,  
300 MULBERRY STREET.

## TO CONTRACTORS.

## PROPOSALS FOR ESTIMATES.

**SEALED ESTIMATES FOR MAKING ALTERA-**  
tions and repairs to the Eleventh Precinct Station-house on Houston street, in the City of New York, known as the "Union Market" building, will be received at the Central Office of the Department of Police in the City of New York until 10 o'clock A. M., of Friday, the 7th day of July, 1882.

The person or persons making an estimate shall furnish the same in a sealed envelope, indorsed "Estimate for making alterations and repairs to the Eleventh Precinct Station-house," and with his or her name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the estimate received will be publicly opened by the head of said Department and read.

For particulars of the nature and extent of the work to be done, reference must be made to the plans and specifications on file in the office of the Chief Clerk of the said Department.

Bidders will state in writing, and also in figures, a price for the work complete. The price is to cover the furnishing of all the materials and labor and the performance of all the work called for by the specifications, plans, drawings, and form of agreement.

No estimate will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The entire work is to be completed within four months from the date of the contract.

The person or persons to whom the contract may be awarded will be required to give security, for the performance of the contract, in the manner prescribed by law, in the sum of twelve thousand dollars.

Each estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The estimate must be verified by the oath, in writing, of the party or parties

making the estimate that the several matters stated therein are in all respects true. Where more than one person is interested it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, and herein stated, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, and otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

No estimate will be received or considered unless accompanied by either a certified check upon one of the national banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-book, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the person making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and be retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

No estimate for a sum in excess of six thousand dollars can be considered.

Plans may be examined and specifications and blank estimates may be obtained by application to the undersigned, at his office in the Central Department.

By order of the Board,  
S. C. HAWLEY,  
Chief Clerk.

NEW YORK, June 22, 1882.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,  
OFFICE OF THE PROPERTY CLERK (Room No. 39),  
No. 300 MULBERRY STREET,  
NEW YORK, June 14, 1882.

**OWNERS WANTED BY THE PROPERTY CLERK**  
of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 39, for the following property now in his custody without claimants: Boats, rope, lead, iron, furniture, boots, shoes, male and female clothing, watches, diamond ear-rings, locket, revolvers, silverware, jute, pearl fan, trunks and contents, bags and contents; also several lots of cash found and taken from prisoners by patrolmen of this Department.  
C. A. ST. JOHN,  
Property Clerk.

## DEPARTMENT OF DOCKS.

DEPARTMENT OF DOCKS,  
117 AND 119 DUANE STREET  
NEW YORK, June 9, 1882.  
TO CONTRACTORS.

(No. 162.)  
**PROPOSALS FOR ESTIMATES FOR REPAIRING**  
PIER 15, EAST RIVER, AND ITS BULKHEAD  
AND RETURN. (One-half of which is not owned by the Corporation of the City of New York.)

**ESTIMATES FOR REPAIRING PIER 15 AND**  
its bulkhead and return, near the foot of Wall street, East river, will be received by the Board of Commissioners at the head of the Department of Docks, at the office of said Department, Nos. 117 and 119 Duane street, in the City of New York, until 12 o'clock M., of FRIDAY, JUNE 23, 1882,

at which time and place the estimates will be publicly opened by the head of said Department. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

One-half of said Pier 15 is owned by the Corporation of the City of New York, and the other half by A. Newbold Morris, Trustee, James H. Jones and Cordelia S. Steward, all of whom are represented by

JOHN F. DOYLE, of 62 WALL STREET, AS AGENT, and the contract for the work will not be awarded unless the price named by the lowest bidder shall be satisfactory to said owners. Such contract, if awarded, will be entered into by the Department of Docks on behalf of the Mayor, Aldermen and Commonalty of the City of New York, and by said owners on their own account, the City becoming liable for one-half only of the expense, the other one-half to be borne and paid for to the contractor by said owners.

Any person making an estimate for the work, shall furnish the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be endorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The bidder to whom the award is made shall give security for the faithful performance of the contract, in the manner prescribed and required by ordinance, in the sum of Five Thousand Dollars.

The Engineer's estimate of the nature, quantities, and extent of the work, is as follows:

1. Yellow Pine Timber, sawed, 12"x15", 14,790 feet, B.M., measured in the work.  
" " " 12"x12", 67,704 feet B.M., measured in the work.  
" " " 6"x12", 3,780 feet B.M., measured in the work.  
" " " 6" plank, 7,896 feet B.M., measured in the work.  
" " " 5"x10", 7,896 feet B.M., measured in the work.  
" " " 4" plank, 46,240 feet B.M., measured in the work.

Total..... 148,060 feet, B.M., measured in the work.  
2. Yellow Pine Timber (hewed or sawed) 12"x12", 19,044 feet, measured in the work.

3. North Carolina Yellow Pine or Spruce Timber, 3" plank, 43,803 feet B.M., measured in the work.

**NOTE.**—The above quantities are exclusive of extra lengths required for scarfs, laps, etc., and of waste.

4. Spruce, Yellow Pine, White Pine, or Cypress Piles, about..... 352

5. White Pine Mooring Piles..... 7  
(It is expected that the vertical piles will be from 45 to 65 feet in length, but all of them must be of sufficient length to comply with the specifications for the work, as set forth in the approved form of contract.)



## FIRE DEPARTMENT.

HEADQUARTERS,  
FIRE DEPARTMENT, CITY OF NEW YORK,  
155 AND 157 MERCER STREET,  
NEW YORK, JUNE 21, 1882.

## TO CONTRACTORS.

**SEALED PROPOSALS FOR FURNISHING AND** constructing duplex steam pumps for a Floating Engine, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 155 and 157 Mercer street, in the City of New York, until 10 o'clock A. M., Wednesday, July 12, at which time and place they will be publicly opened by the head of said Department and read.

The award of the contract will be made as soon as practicable after the opening of the bids. Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

Bidders are requested to state, additionally, for what amount per frame they will increase or decrease length of hull and deck house from dead flat forward, in case increased or decreased length should be required.

The pumps are to be completed and delivered in one hundred and twenty (120) days after the date of the contract.

For information as to the amount and kind of work to be done, bidders are referred to the specifications and drawings, which form part of these proposals.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired, are, by a clause in the contract, fixed and liquidated at twenty-five (\$25) dollars per day.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance in the sum of five thousand (\$5,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be received or considered after the hour named.

No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of two hundred and fifty (\$250) dollars, being five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be landed to the officer or clerk of the Department who has charge of the Estimate-book, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but, if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded, neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet, as provided by law. Bidders will write out the amount of their estimate, in addition to inserting the same in figures.

The form of the agreement and specifications, and showing the manner of payment for the work, may be seen and forms of proposals may be obtained at the office of the Department.

JOHN J. GORMAN,  
CORNELIUS VAN COTT,  
HENRY D. PURROY,  
Commissioners.

HEADQUARTERS,  
FIRE DEPARTMENT, CITY OF NEW YORK,  
155 AND 157 MERCER STREET,  
NEW YORK, SEPTEMBER 23, 1881.

**NOTICE IS HEREBY GIVEN THAT THE** Board of Commissioners of this Department will meet daily, at 10 o'clock A. M., for the transaction of business.

By order of

JOHN J. GORMAN, President.  
CORNELIUS VAN COTT,  
HENRY D. PURROY,  
Commissioners.

## DEPARTMENT OF PUBLIC WORKS.

**REGULATIONS ESTABLISHING A SCALE OF** WATER RENTS FOR THE CITY OF NEW YORK. BY ORDER OF HUBERT O. THOMPSON, COMMISSIONER OF PUBLIC WORKS.

"The said Commissioner of Public Works shall, from time to time, establish scales of rents for the supplying of Croton water, which rents shall be collected in the manner now provided by law."—Chap. 574, Sec. 5, Session Laws of 1871.

The regular annual rents to be collected by the Department of Public Works shall be as follows, to wit:  
**Croton Water Rates for Buildings from 16 to 50 feet,** all others not specified subject to Special Rates, as established by Ordinance of the Common Council, March, 1851.

FRONT WIDTH.	1 Story.	2 Stories.	3 Stories.	4 Stories.	5 Stories.
16 feet and under	\$4 00	\$5 00	\$6 00	\$7 00	\$8 00
16 to 18 feet....	5 00	6 00	7 00	8 00	9 00
18 to 20 feet....	6 00	7 00	8 00	9 00	10 00
20 to 22½ feet...	7 00	8 00	9 00	10 00	11 00
22½ to 25 feet...	8 00	9 00	10 00	11 00	12 00
25 to 30 feet....	10 00	11 00	12 00	13 00	14 00
30 to 37½ feet...	12 00	13 00	14 00	15 00	16 00
37½ to 50 feet...	14 00	15 00	16 00	17 00	18 00

The apportionment of the regular rents upon dwelling houses are on the basis that but one family is to occupy the same, and for each additional family the sum of one dollar per year shall be charged.

Each flat or suit of rooms for one family shall be charged ten dollars per year where they have hot and cold water, stationary wash-tubs, bath, and water-closet, with the privilege of using meter.

METERS will be placed on all houses where waste of water is found, and they will be charged at rates fixed by the Department for all the water passing through them.

The rent of all tenements which shall exceed in width fifty feet shall be the subject of special contract with the Commissioner of Public Works.

The extra and miscellaneous rates shall be follows, to wit:

**BAKERIES**—For the average daily use of flour, for each barrel, the sum of three dollars per annum.

**BATHING TUBS** in private houses, beyond one, at three dollars per annum each, and five dollars per annum each in public houses, boarding houses, bathing establishments, and barber shops.

**BOARDING SCHOOLS** shall be charged at the rate of from fifteen to fifty dollars each; and school houses at the rate of from ten to twenty dollars each per annum.

**BUILDING PURPOSES**—For each one thousand bricks laid, or for stone-work—to be measured as brick—ten cents per thousand. For plastering, forty cents per hundred yards.

**COW STABLES**—For each and every cow, the sum of seventy-five cents per annum.

**FOUNTAINS** or jets are prohibited.

For all stables not metered, the rates shall be as follows:

**HORSES, PRIVATE**—For two horses there shall be charged the sum of six dollars per annum; and for each additional horse, the sum of two dollars.

**HORSES, LIVERY**—For each horse up to and not exceeding thirty in number, the sum of one dollar and fifty cents each per annum; and for each additional horse, the sum of one dollar.

**HORSES, OMNIBUS AND CART**—For each horse, the sum of one dollar per annum.

**HORSE TROUGHS**—For each trough on sidewalks, the sum of twenty dollars per annum; each trough is to be fitted with a proper ball-cock to prevent waste, this must be kept in order.

**HOELS AND BOARDING HOUSES** shall, in addition to the regular rate for private families, be charged for each lodging room at the discretion of the Commissioner of Public Works.

**PORTER HOUSES, TAVERNS AND GROCERIES** shall be charged an extra rate of either ten to twenty-five dollars, in the discretion of the Commissioner of Public Works. **LAGER BEER SALOONS**, with no water fixtures in the saloon, five dollars per annum.

**PRINTING OFFICES AND REFECTORIES** shall be charged at such rates as may be determined by the Commissioner of Public Works.

**SLAUGHTER HOUSES** shall be charged at the rate of five cents for every bullock slaughtered.

**STEAM ENGINES** shall be charged by the horse-power as follows: for each horse-power up to and not exceeding ten, the sum of ten dollars per annum; each exceeding ten, and not over fifteen, the sum of seven dollars and fifty cents each; and for each horse-power over fifteen, the sum of five dollars.

The use of hose for washing sidewalks, stoops, areas, house-fronts, and about stables, is prohibited, because it is absolutely necessary to save water for more necessary purposes. Where premises are provided with wells, special permits will be issued for the use of hose, in order that the Police or Inspectors may understand that the permission is not for the use of Croton water.

**WATER-CLOSETS AND URINALS**—To each building on a lot one water-closet having sewer connection is allowed without charge, each additional water-closet or urinal will be charged as hereinafter stated. All closets or urinals in which the Croton water from any service pipe or hydrant connecting with a privy vault or man-hole shall be charged two dollars for each seat per annum, whether in a building or on any other portion of the premises.

**WATER-CLOSET RATES**—For hoppers, of any form, when water is supplied direct from the Croton supply, through any form of the so-called single or double valves, hopper-cocks, stop-cocks, self-closing cocks, or any valve or cock of any description attached to the closet, each per year twenty dollars. For any pan-closet, or any of the forms of valve, plunger, or other water-closet not before mentioned, supplied with water as above described, per year, ten dollars.

For any form of hopper or water-closet, supplied from the ordinary style of cistern filled with ball-cock and overflow pipe that communicates with the pipe to the water-closet, so that overflow will run into the hopper or water-closet, when ball-cock is defective, or from which an unlimited amount of water can be drawn by holding up the handle, per year, each, five dollars.

For any form of hopper or water-closet, supplied from any of the forms of waste-preventing cisterns, that are approved by the Engineer of the Croton Aqueduct, which are so constructed that not more than three gallons of water can be drawn at each lift of the handle or depression of the seat, if such cisterns are provided with an overflow pipe, such overflow pipe must not connect with the water-closet, but be carried like a safe waste, as provided by the Board of Health Regulations, per year, two dollars.

Cistern answering this description can be seen at this Department.

## METERS.

Under the provisions of section 73, chapter 335, Laws of 1873 (City Charter), water meters, of the pattern approved in accordance with said section 73 of the Charter, shall be hereafter placed on the pipes supplying all stores, workshops, hotels, manufactories, public edifices, at wharves, ferry-houses, stables, and in all places where water is furnished for business consumption, except private dwellings.

It is provided by section 73, chapter 335, Laws of 1873, that "all expenses of meters, their connections and setting, water rates, and other lawful charges for the supply of Croton water, shall be a lien upon the premises where such water is supplied, as now provided by law."

All manufacturing and other business requiring a large supply of water will be fitted with a meter.

Water measured by meter, ten cents per one hundred cubic feet for all manufacturing or other purposes.

PER DAY, GALLONS.	PER 100 GALS. RATE.	PER ANNUM, AM'T
25	05	\$3 75
50	"	7 50
60	"	9 00
70	"	10 50
80	"	12 00
90	"	13 50
100	"	15 00
150	"	22 50
200	"	30 00
250	04½	33 75
300	04	36 00
350	03½	36 75
400	"	42 00
500	"	52 50
600	"	63 00
700	"	73 50
800	"	82 00
900	"	94 50
1,000	"	105 00
1,500	03	135 00
2,000	02½	150 00
2,500	"	180 00
3,000	"	225 00
4,000	02¼	280 00
4,500	"	303 75
5,000	"	333 50
6,000	02	360 00
7,000	"	420 00
8,000	"	480 00
9,000	"	540 00
10,000	"	600 00

The rate charged for steam-vessels taking water daily or belonging to daily lines, is one-half per cent. per ton (Custom-house measurement) for each time they take water.

Steamers taking water other than daily, one per cent. per ton (Custom-house measurement).

Water supplied to sailing vessels and put on board, twenty-five cents per hundred gallons.

All matters not hereinbefore embraced are reserved for special contract by and with the Commissioner of Public Works.

By order,  
HUBERT O. THOMPSON,  
Commissioner of Public Works.

Rate Without Meters.  
DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE, No. 31 CHAMBERS ST.,  
NEW YORK, May 10, 1882.

**JOHN H. CHAMBERS, Water Register:**  
SIR—From your letter of this date, in reference to certain rates included in the scale of water rents established by me on the 1st instant, it appears that there is a misapprehension in regard to their application. In order that the matter may be clearly understood, I have to inform and instruct you that the new rates in reference to water-closets are not intended to and do not apply to existing houses and fixtures, but will be applied to all new houses hereafter erected or completed, and to all existing houses where the water-closets and fixtures therein referred may hereafter be put in. These water-closet rates are to go into general effect May 1, 1883.

Respectfully,  
HUBERT O. THOMPSON,  
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF WATER REGISTER,  
31 CHAMBERS STREET, ROOM 2,  
NEW YORK, April 26, 1882.

## NOTICE TO TAX PAYERS.

## CROTON WATER RENTS.

THE REGULAR ANNUAL RENTS FOR CROTON water for the year 1882, will become due and payable at this office on and after May 1.

HUBERT O. THOMPSON,  
Commissioner of Public Works.

## DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE,  
NEW YORK, June 19, 1882.

**IN ACCORDANCE WITH AN ORDINANCE OF** the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Morgue, Bellevue Hospital, from Pier 24, East river—Unknown man; age about 45 years; 5 feet 8 inches high; brown hair, moustache and beard. Had on black coat, vest and pants, plaid gingham shirt, blue socks, laced shoes.

Unknown man, from foot of Ninth street, East river; age about 45 years; 5 feet 8 inches high; dark brown hair and side whiskers; hazel eyes. Had on green plaid coat and vest, black pants, white shirt, brown cotton socks.

Unknown man, from foot of Sixty-sixth street, North river; age about 40 years; 5 feet 6 inches high; brown hair. Had on black cloth pants and vest, white bosom shirt, white knit undershirt, white socks, boots.

Unknown man, from foot of Fifty-fourth street, North river; 5 feet 7 inches high. Had on blue flannel vest and pants, white shirt, white knit undershirt and drawers, gray socks, gaiters. Body about three months in water.

Unknown man, from foot of Bank street; age about 35 years; 5 feet 8 inches high; gray hair; light brown moustache. Had on dark striped coat, blue overalls, blue drawers, white knit undershirt, gray ribbed socks, gaiters.

Unknown man, from Pier 14, East river; age about 35 years; 5 feet 7 inches high; brown hair, moustache and chin whiskers. Had on blue jean jumper, dark pants, white knit undershirt, brogan shoes.

Unknown man, from foot of Thirty-eighth street, North river; age about 30 years; 5 feet 8 inches high; brown hair. Had on black coat, brown and gray pants and vest, white shirt, white knit undershirt, white twill drawers, white socks, button gaiters.

Unknown man, from foot of Christopher street; age about 40 years; 5 feet 5 inches high; dark brown hair; black side whiskers. Had on black coat, dark blue pants, black pants, black cardigan jacket, white shirt, white knit undershirt, gaiters.

At Workhouse, Blackwell's Island—Tillie Smith; committed May 29, 1882; age 40 years.

John Williams; age 28 years; 5 feet 2 inches high; brown eyes and hair.

At Homeopathic Hospital, Ward's Island—Samuel Loeb; age 40 years; 5 feet 7 inches high; brown hair. Had on when admitted black coat and vest, blue pants.

John Sheridan; age 44 years; 5 feet 7 inches high; brown eyes and hair. Had on when admitted alpaca coat, blue pants, blue shirt, black hat.

John Smith; age 60 years; 5 feet 5 inches high; blue eyes; gray hair. Had on when admitted black coat and vest, brown striped pants.

Casper Keller; age 36 years; 5 feet 4 inches high; dark eyes and hair. Had on when admitted dark suit of clothes, black derby hat, gaiters.

Michael McCarthy; age 68 years; 5 feet 4 inches high; brown eyes; gray hair. Had on when admitted dark coat and pants, brown jacket, black felt hat.

At N. Y. City Asylum for Insane, Ward's Island—Adam Burchell; age 25 years; 5 feet 8 inches high; black hair; brown eyes.

William Dunn; age 50 years; 5 feet 4½ inches high; gray hair; blue eyes.

At Hart's Island Hospital—Ann Mahoney; age 45 years; 5 feet 2 inches high; brown hair; blue eyes.

At Branch Lunatic Asylum, Hart's Island—Kate Stapleton; age 42 years; 4 feet 1 inch high; gray eyes; brown hair.

Nothing known of their friends or relatives.

By order,  
G. F. BRITTON,  
Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

## TO CONTRACTORS.

## PROPOSALS FOR GROCERIES, LIME, ICE, ETC.

**SEALED BIDS OR ESTIMATES FOR FURNISHING** GROCERIES.

3,000 pounds Dairy Butter (sample on exhibition June 22, 1882).

25,000 fresh Eggs (all to be candled).

100 Prime City-cured Smoked Hams, not to exceed an average of 14 pounds weight.

HATS.  
50 dozen Women's Straw Hats.

LIME.  
50 barrels Common Lime.  
20 barrels Plaster Paris.  
20 barrels fresh Rockland Cement.

ICE.  
1,000 tons prime quality Ice, not less than ten inches thick, to be delivered as follows:

Blackwell's Island—200 tons on award of contract and 200 tons as required.

Ward's Island—100 tons on award of contract and 100 tons as required.

Randall's Island—100 tons on award of contract and 100 tons as required.

Hart's Island—100 tons on award of contract and 200 tons as required.

—also about 43,000 pounds Ice per month, to be delivered, according to schedule furnished, at the various City Prisons, Ninety-ninth Street Hospital, Bellevue Hospital and Central Office.

—or any part thereof, will be received at the office of the Department of Public Charities and Correction, in the City of New York, until 9:30 o'clock A. M., of Friday, the 23d day of June, 1882. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Groceries, Lime, Ice, etc.," and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the head of said Department and read.

The Department of Public Charities and Correction reserves the right to decline any and all bids or estimates if deemed to be for the public interest, and to accept any bid or estimate as a whole, or for any one or more articles included therein. No bid or estimate will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Delivery will be required to be made from time to time, at such time and in such quantities as may be directed by the said Department; but the entire quantity will be required to be delivered on or before thirty (30) days after the date of the contract.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the penal amount of fifty (50) per cent. of the estimated amount of the contract.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him, or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect, that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 27 of chapter 8 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the national banks of the City of New York, drawn to the

order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-book, and no estimate can be deposited in said book until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but, if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default of the Corporation, and the contract will be readvertised and let as provided by law.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same respectively at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required, before making their estimates.

Bidders will state the prices for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate, in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, issued on the completion of the contract, or from time to time, as the Commissioners may determine.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instruction of the Commissioners of Public Charities and Correction.

The Department of Public Charities and Correction reserves the right to decline any and all bids or estimates if deemed to be for the public interest, and to accept any bid or estimate as a whole, or for any one or more articles included therein. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department.

Dated New York, June 12, 1882.

THOMAS S. BRENNAN,

JACOB HESS,

HENRY H. PORTER,

Commissioners of the Department of Public Charities and Correction.

## FINANCE DEPARTMENT.

### LEASES OF REAL ESTATE.

THE COMPTROLLER OF THE CITY OF NEW YORK, will sell to the highest bidder, at Public Auction, the Leases of the whole upper part or second story of the Centre Market Building, and the building known as the City Armory at the Comptroller's office, on Tuesday, June 27, 1882, at 12 o'clock, noon, for the term of five years from May 1, 1882, and possession will be given immediately after the sale.

#### TERMS AND CONDITIONS.

The Auctioneer's fee shall be paid by the highest bidder at the time of sale, and also twenty-five per cent. of the yearly rent bid on each of said premises in cash, the amount of which shall be credited on the rent first becoming due, or be forfeited if the purchaser shall refuse or neglect to execute the lease immediately when notified by the Comptroller, who shall, in such case, resell the lease of the premises, and the person so failing shall be held liable for any deficiency that may result from such sale.

The rent shall be paid quarterly in advance. No bid of any person will be accepted, and no person shall be received as surety, who is in default to the Corporation upon any lease, or upon any obligation, debt or contract, as principal or surety. The lease will contain the usual covenants and conditions, reserving to the Corporation the right to cancel the lease whenever the premises may be required for sale, or for public purposes; and all repairs of the leased premises shall be made at the expense of the lessees. No part of the premises shall be sub-let without the written consent of the Comptroller. No machinery requiring steam power shall be permitted to be used on the premises in the said Centre Market Building.

The right to reject any bid, if deemed to be for the interest of the City of New York, is reserved by the Comptroller.

ALLAN CAMPBELL, Comptroller.

CITY OF NEW YORK, FINANCE DEPARTMENT, }  
June 16, 1882.

CITY OF NEW YORK, }  
FINANCE DEPARTMENT, }  
COMPTROLLER'S OFFICE, }  
May 9, 1882.

### NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 4 OF CHAPTER 33 of the Laws of 1881, the Comptroller of the City of New York hereby gives public notice to property-owners that the assessment lists for the opening of One Hundred and Twenty-second street, between Fourth and Madison avenues, was confirmed by the Supreme Court May 5, 1882, and on the 9th day of May, 1882, was entered in the Record of Titles of Assessments kept in the "Bureau for the Collection of Assessments and of Arrears of Taxes and Assessments, and of Water Rents."

Section 5 of the said act 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 legal interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessment is payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments, and of Arrears of Taxes and Assessments, and of Water Rents," from 9 A. M. until 2 P. M., and all payments made thereon, on or before July 8, 1882, 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 cent. per annum from the date of entry in the Record of Titles and Assessments in said Bureau.

ALLAN CAMPBELL, Comptroller.

CITY OF NEW YORK, }  
FINANCE DEPARTMENT, }  
COMPTROLLER'S OFFICE, }  
May 9, 1882.

### NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 4 OF CHAPTER 33 of the Laws of 1881, the Comptroller of the City of New York hereby gives public notice to property-owners

that the following lists of assessments for local improvements in said city were confirmed by the "Board of Revision and Correction of Assessments" on the 4th day of May, 1882, and, on the same date, were entered in the Record of Titles of Assessments kept in the "Bureau for the Collection of Assessments and of Arrears of Taxes and Assessments and of Water Rents," viz:

Sixty-eighth street regulating, etc., from Third avenue to East river.

Ninety-fifth street regulating, etc., from Lexington to Fifth avenue.

Fourth avenue regulating, etc., from One Hundred and Fifteenth to One Hundred and Sixteenth street.

Ninth avenue regulating, etc., from One Hundred and Fiftieth street to St. Nicholas avenue.

One Hundred and Thirty-second street regulating, etc., from Fifth to Sixth avenue.

Ninety-sixth street paving, from Public Drive to Hudson river.

Sixty-eighth street paving, from Boulevard to Tenth avenue.

Seventy-eighth street paving, from First avenue to Avenue A.

Fourth avenue paving, at intersection of One Hundred and Fourth street.

One Hundred and Fortieth street sewer, from Alexander to Brook avenue.

One Hundred and Thirty-fifth street sewer, from Harlem river to Fifth avenue.

Pearl street sewer, between Coenties and Old slips.

First avenue sewer, between Forty-sixth and Forty-seventh streets.

Fifth avenue sewer, between Sixty-ninth and Seventieth streets.

Fourth street sewer, between Christopher and West Tenth streets.

Eightieth and Eighty-first streets sewers, between Avenues A and B, etc.

One Hundred and First street sewer, between Tenth avenue and Boulevard.

First avenue flagging, east side, from Forty-eighth to Forty-ninth street.

Fifty-eighth street flagging, from Sixth to Seventh avenue.

Section 5 of the said act 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 legal interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments, and of Arrears of Taxes and Assessments and of Water Rents," from 9 A. M. until 2 P. M., and all payments made thereon, on or before July 8, 1882, 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 cent. per annum from the date of entry in the record of titles of assessments in said Bureau.

ALLAN CAMPBELL, Comptroller.

### ORDER OF THE COMPTROLLER ABOLISHING THE "BUREAU OF LICENSES," IN THE FINANCE DEPARTMENT.

CITY OF NEW YORK, }  
FINANCE DEPARTMENT, }  
COMPTROLLER'S OFFICE, }  
April 24, 1882.

PURSUANT TO THE PROVISION OF SECTION 3 of chapter 521 of the Laws of 1880, which authorizes a head of a Department to abolish and consolidate offices and bureaus in the same Department, I hereby abolish the Bureau provided for by section 33 of chapter 335 of the Laws of 1873, entitled as follows, to wit:

"A Bureau of Licenses; the Chief Officer of which shall be called 'Register of Licenses.'"

Said Bureau has never had any practical existence in the Finance Department, and is declared to be null and void.

(Signed) ALLAN CAMPBELL, Comptroller.

### REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL ESTATE OWNERS, MONETARY INSTITUTIONS engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded transfers of real estate in the City of New York from 1653 to 1857, prepared under the direction of the Commissioners of Records.

Grants, grantees, suits in equity, insolvents' and Sheriffs' sales, in 61 volumes, full bound, price \$100 00

The same, in 25 volumes, half bound, price 50 00

Complete sets, folded, ready for binding, price 15 00

Records of judgments, 25 volumes, bound, price 10 00

Orders should be addressed to "Mr. Stephen Angell, Comptroller's Office, New County Court-house."

ALLAN CAMPBELL, Comptroller.

### CORPORATION NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the Office of the Board of Assessors, for examination by all persons interested, viz:

No. 1. Flagging sidewalk on north side of Seventy-first street, from Ninth to Tenth avenues.

No. 2. Sewer in One Hundred and Twelfth street, between Madison and Sixth avenues.

No. 3. Alteration and improvements to sewer in Fifty-seventh street, between Fifth and Madison avenues.

No. 4. Sewer in Sixty-ninth street, between Eighth and Ninth avenues.

No. 5. Sewer in Seventy-sixth street, between Eighth and Ninth avenues.

No. 6. Regulating, grading, setting curb-stone and flagging four feet wide in One Hundred and Twenty-first street, from the west curb of Sixth avenue to the east curb of Seventh avenue.

No. 7. Fencing vacant lots on both sides of Ninth avenue, between Seventy-first and Seventy-second streets, and on both sides of Seventy-first street, between Ninth and Tenth avenues.

No. 8. Flagging east side of Avenue D, from Thirtieth to Fourteenth streets.

No. 9. Sewer in Lexington avenue, between Eighty-first and Eighty-second streets.

No. 10. Sewer in First avenue, between Twenty-first and Twenty-fourth streets.

No. 11. Sewer in Tenth avenue, between Forty-ninth and Fiftieth streets.

No. 12. Sewer in One Hundred and Forty-first street, between Seventh and Eighth avenues.

No. 13. Sewer in Eighty-fifth street, between Eighth and Ninth avenues.

No. 14. Basin at junction of Christopher and Grove streets.

No. 15. Sewer in Eighty-first street, between Ninth avenue and summit west of Ninth avenue. The limit embraced by such assessment includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. North side of Seventy-first street, between Ninth and Tenth avenues.

No. 2. Both sides of One Hundred and Twelfth street, between Madison and Sixth avenues.

No. 3. Both sides of Fifty-seventh street, between Madison and Fifth avenues.

No. 4. Both sides of Sixty-ninth street, between Eighth and Ninth avenues.

No. 5. Both sides of Seventy-sixth street, between Eighth and Tenth avenues.

No. 6. Both sides of One Hundred and Twenty-first street, between Sixth and Seventh avenues.

No. 7. Both sides of Ninth avenue, between Seventy-first and Seventy-second streets; and both sides of Seventy-first street, between Ninth and Tenth avenues.

No. 8. Both sides of Avenue D, between Thirtieth and Fourteenth streets.

No. 9. Both sides of Lexington avenue between Eighty-first and Eighty-second streets.

No. 10. Both sides of First avenue, between Twenty-first and Twenty-fourth streets.

No. 11. Both sides of Tenth avenue, between Forty-ninth and Fiftieth streets.

No. 12. Both sides of One Hundred and Forty-first street, between Seventh and Eighth avenues.

No. 13. Both sides of Eighty-fifth street between Eighth and Ninth avenues.

No. 14. Park bounded by Grove, Fourth and Christopher streets.

No. 15. Both sides of Eighty-first street, between Ninth and Tenth avenues.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11 1/2 City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted as provided by law to the Board of Revision and Correction of Assessments for confirmation, on the 30th day of June, ensuing.

JOHN R. LYDECKER,  
DANIEL STANBURY,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
Board of Assessors.

OFFICE BOARD OF ASSESSORS,  
No. 11 1/2 CITY HALL,  
NEW YORK, MAY 29, 1882.)

### SUPREME COURT.

In the matter of the application of the Mayor, Aldermen and Commonalty of the City of New York, relative to the widening of Gansevoort street, from Washington street to the intersection of Gansevoort and West Thirtieth streets, and West Thirtieth street, from Eighth avenue to the intersection of Gansevoort and West Thirtieth streets, in the City of New York, as widened by the Board of Street Opening and Improvement of said City.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given, that in compliance with an Act of the Legislature of the State of New York, entitled "An Act to reorganize the Local Government of the City of New York," passed April 30, 1873, and of all other acts relating thereto, the Counsel to the Corporation of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of said city, will apply to the Supreme Court of the State of New York, at a Special Term of said court, to be held at the Chambers thereof in the County Court House, in the City of New York, on Thursday, the twenty-ninth day of June, 1882, at the opening of the court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen, and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the widening of Gansevoort street from Washington street to the intersection of Gansevoort and West Thirtieth streets, and West Thirtieth street from Eighth avenue to the intersection of Gansevoort and West Thirtieth streets, as said streets are shown on certain maps made by the Board of Street Opening and Improvement, and filed in the office of the Counsel to the Corporation of the City of New York, and in the office of the Department of Public Works of the City of New York, on the 18th day of March, 1882, being the following described pieces or parcels of land, viz:

Beginning at the northeast corner of Washington and Gansevoort streets; thence northerly along the easterly line of Washington street twenty feet and three quarters of an inch (20' 3/4"); thence easterly and parallel to the northerly line of Gansevoort street and twenty feet distant therefrom three hundred and fifty-six feet six inches and one quarter (356' 6 1/4") to the westerly line of Ninth avenue, thence southerly along said line twenty-three feet and one-quarter of an inch (23' 1/4") to the northerly line of Gansevoort street; thence westerly along said line three hundred and forty-six feet eight inches (346' 8") to the point or place of beginning.

Also all that triangular plot of ground bounded by the Ninth avenue, Little West Twelfth and Gansevoort streets, beginning at the southeast corner of Ninth avenue and Little West Twelfth street; thence easterly and along the southerly line of Little West Twelfth street, twenty-nine feet four inches (29' 4") to the northerly line of Gansevoort street, thence westerly along said line thirty-three feet nine inches (33' 9") to the easterly line of Ninth avenue thence northerly along said line sixteen feet eight inches (16' 8") to the point or place of beginning.

Also beginning at the northwesterly corner of Hudson and Gansevoort streets; thence northerly and along the westerly line of Hudson street twenty feet one and one-half inches (20' 1 1/2"); thence westerly and parallel to the northerly line of Gansevoort street and twenty feet distant therefrom, seventy-six feet nine inches (76' 9") to the northerly line of Little West Twelfth street; thence easterly along said northerly line thirty-nine feet two and one-half inches (39' 2 1/2") to the intersection of Little West Twelfth and Gansevoort streets; thence along the northerly line of Gansevoort street forty feet ten inches (40' 10") to the point or place of beginning.

Also beginning at the northeasterly corner of Hudson and Gansevoort streets; thence northerly along the easterly line of Hudson street twenty feet one and one-half inches (20' 1 1/2"); thence easterly and parallel to the northerly line of Gansevoort street and twenty feet distant therefrom two hundred and thirty-five feet seven inches (235' 7") to the southerly line of West Thirtieth street; thence further easterly along said southerly line thirty-nine feet two and one-half inches (39' 2 1/2") to the northerly line of Gansevoort street; thence westerly along said line two hundred and seventy-nine feet six inches (279' 6") to the point or place of beginning.

Also beginning at the southwesterly corner of Gansevoort and West Fourth streets thence westerly and along the southerly line of Gansevoort street two feet nine inches (2' 9"); thence southeasterly three feet one and three-quarter inches (3' 1 3/4") to the westerly line of West Fourth street; thence northerly along the westerly line of West Fourth street one foot six inches (1' 6") to the point or place of beginning.

Also beginning at the southeasterly corner of Eighth avenue and West Thirtieth street; thence southerly and along the westerly line of Eighth avenue, ten feet two and one-half inches (10' 2 1/2"); thence westerly and parallel to the southerly line of West Thirtieth street, and ten feet (10' 0") distant therefrom one hundred and forty-seven feet one and three-quarters inches (147' 1 3/4") to the easterly line of West Fourth street; thence northerly along said line, eleven feet, four and one-half inches (11' 4 1/2") to the southerly line of West Thirtieth street; thence easterly along said line one hundred and fifty-four feet seven and one-half inches (154' 7 1/2") to the point or place of beginning.

Dated New York, June 1, 1882.

WILLIAM C. WHITNEY,  
Counsel to the Corporation,  
Tryon Row, New York City

In the matter of the Application of the Commissioners of the Department of Public Parks for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title to the lands required for the southern approach to the so-called Madison Avenue Bridge across the Harlem River, in the City of New York.

PURSUANT TO THE PROVISIONS OF CHAPTER 534 of the Laws of 1871, and of all other statutes in such cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at the Chambers thereof in the County Court House, in the City of New York, on Thursday, the Twenty-ninth day of June, 1882, at the opening of the Court on that day or as soon thereafter as counsel can be heard thereon for the appointment of Commissioners of Estimate and Assessment in the above entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the approaches to the so-called Madison Avenue Bridge across the Harlem River, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets, as shown on a map or plan made by the Commissioners of the Department of Public Parks, and adopted by them on the 14th day of February, 1882, and filed in the office of said Department and in the office of the Register of the City and County of New York, being the following described lots, pieces or parcels of land, viz:

#### PARCEL "A."

Beginning at the intersection of the eastern line of Madison avenue with the northern line of One Hundred and Thirty-seventh street;

1. Thence running northerly along the eastern line of Madison avenue for one hundred and ninety-nine feet and ten inches to the southern line of One Hundred and Thirty-eighth street;

2. Thence running easterly along the southern line of One Hundred and Thirty-eighth street for twenty feet;

3. Thence running southerly and parallel with the eastern line of Madison avenue for one hundred and ninety-nine feet and ten inches to the northern line of One Hundred and Thirty-seventh street;

4. Thence westerly along the northern line of One Hundred and Thirty-seventh street for twenty feet to the place of beginning.

#### PARCEL "B."

Beginning at the intersection of the western line of Madison avenue with the northern line of One Hundred and Thirty-seventh street;

1. Thence running northerly along the western line of Madison avenue for one hundred and ninety-nine feet and ten inches to the southern line of One Hundred and Thirty-eighth street;

2. Thence running westerly along the southern line of One Hundred and Thirty-eighth street for twenty feet;

3. Thence running southerly and parallel with the western line of Madison avenue for one hundred and ninety-nine feet and ten inches to the northern line of One Hundred and Thirty-seventh street;

4. Thence running easterly along the northern line of One Hundred and Thirty-seventh street for twenty feet to the place of beginning.

Dated New York, June 1, 1882.

WILLIAM C. WHITNEY,

Counsel to the Corporation,  
Tryon Row, New York City.

In the matter of the application of the Department of Public Works for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of One Hundred and Thirty-eighth street, from the Boulevard to Tenth avenue in the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said court, to be held at the Chambers thereof in the County Court House, in the City of New York, on Thursday, the 29th day of June, 1882, at the opening of the court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of One Hundred and Thirty-eighth street from the Boulevard to Tenth avenue, in the City of New York, being the following described lots, pieces, or parcels of land, viz:

Beginning at a point in the easterly line of the Boulevard distant four hundred and fifty-nine feet eight inches (459' 8") southerly from the southerly side of One Hundred and Fortieth street; thence easterly and parallel with said street one hundred and thirty-nine feet and one-quarter of an inch (139' 1/4") to the westerly line of Diagonal avenue; thence southerly and along said line sixty-five feet two inches (65' 2"); thence westerly one hundred and thirteen feet six and three-quarter inches (113' 6 3/4") to the easterly line of the Boulevard; thence northerly and along said line sixty feet (60') to the point or place of beginning.

Also, beginning at a point in the westerly line of Tenth avenue, distant four hundred and fifty-nine feet eight inches (459' 8") southerly from the southerly side of One Hundred and Fortieth street; thence westerly and parallel with said street five hundred and fifty-four feet six and one-quarter inches (554' 6 1/4") to the easterly line of Diagonal avenue; thence southerly and along said line sixty-five feet two inches (65' 2"); thence easterly five hundred and seventy-nine feet eleven and three-quarter inches (579' 11 3/4") to the westerly line of Tenth avenue; thence northerly and along said line sixty feet (60') to the point or place of beginning.

Said street being sixty feet (60') wide between the lines of the Boulevard and Tenth avenue.

Dated New York, May 29, 1882.

WILLIAM C. WHITNEY,

Counsel to the Corporation,  
Tryon Row.

### ASSESSMENT COMMISSION.

THE COMMISSIONERS APPOINTED BY CHAPTER 530 of the Laws of 1880, to revise, vacate, or modify assessments for local improvements in the City of New York, in pursuance of said act and the act amendatory thereof, give notice to all persons affected thereby that the notices required by the said act must be filed with the Comptroller of said city and a duplicate thereof with the Counsel to the Corporation, as follows:

As to all assessments for local improvements confirmed before June 9, 1880, on or before November 1, 1882. As to all assessments for local improvements completed before June 9, 1880, and since confirmed, on or before November 1, 1882. As to any assessment for local improvements known as Morningside avenues, within two months after the dates upon which such assessments may be respectively confirmed.

The notice must specify the particular assessment complained of, the date of the confirmation of the same, the property affected thereby, and in a brief and concise manner the objections thereto, showing, or tending to show, that the assessment was unfair or unjust in respect to said real estate.

Dated, No. 27 CHAMBERS STREET, June 6, 1882.

EDWARD COOPER,

JOHN KELLY,

ALLAN CAMPBELL,

GEORGE H. ANDREWS,

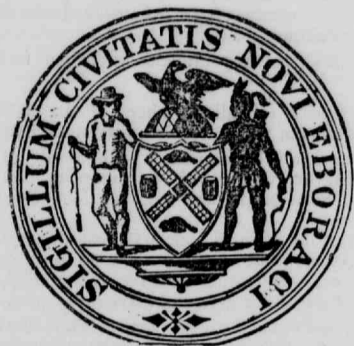
# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. X.—NUMBER 2,754.

NEW YORK, FRIDAY, JUNE 23, 1882.

SUPPLEMENT.



### FIRE DEPARTMENT.

Report for the Three Months and Year ending December 31, 1881.

HEADQUARTERS FIRE DEPARTMENT CITY OF NEW YORK,  
OFFICE BOARD OF COMMISSIONERS,  
NEW YORK, April 11, 1882.

To the Hon. WILLIAM R. GRACE, Mayor of New York:

SIR—We have the honor to submit herewith the report of the operations and actions of this Department for the three months and year ending December 31, 1881:

Commissioner Cornelius Van Cott was elected President on May 9, and held the position until his resignation as President on August 10, when Commissioner John J. Gorman was chosen President and Commissioner Cornelius Van Cott, Treasurer.

The term of office of Commissioner Vincent C. King having expired, Commissioner Henry D. Purroy was duly appointed to the position, and took office on September 14.

Number of each grade of Officers and Employees on December 31, 1881.

Headquarters—	
Commissioners.....	3
Secretary and Assistant Secretary.....	2
Medical Officer and Vice Medical Officer.....	2
Bookkeeper and Clerks.....	9
Janitor and Watchmen.....	3
Driver.....	3
— 22	
Bureau of Chief of Department—	
Chief of Department.....	1
Assistant Chief of Department.....	1
Chiefs of Battalion.....	13
Foremen.....	67
Assistant Foremen.....	67
Engineers of Steamer.....	45
Assistant Engineers of Steamer.....	59
Firemen.....	358
Privates.....	158
— *769	
Pilots on Fire Steamer (Engine 43).....	2
Stokers on “ “.....	3
— 5	
Bureau of Inspector of Combustibles—	
Inspector of Combustibles.....	1
Clerks.....	3
Surveyors.....	3
Oil Collectors.....	2
Messenger.....	1
— 10	
Bureau of Fire Marshal—	
Fire Marshal.....	1
Assistant Fire Marshal.....	1
Clerks and Assistant.....	3
— 5	
Bureau of Inspection of Buildings—	
Inspector of Buildings.....	1
Clerks.....	9
Examiners.....	18
Messengers and Driver.....	3
— †31	
Attorney to the Department.....	1
Fire Alarm Telegraph—	
Superintendent of Telegraph.....	1
Operators and Assistant Operators.....	8
Clerk.....	1
Inspector of Alarm Boxes.....	1
Batteryman and Assistant Batteryman.....	2
Foreman and Linemen.....	4
— 17	
Repair Shops—	
Superintendent of Repairs to Buildings.....	1
Foreman.....	1
Storekeeper, Clerk, and Messenger.....	3
Shop Engineer.....	1

#### Repair Shops—

Machinists.....	18
Machinists' Helper.....	1
Coppersmith.....	1
Blacksmiths.....	5
Blacksmiths' Helpers.....	6
Laborer.....	1
Wheelwrights.....	3
Harness Maker.....	1
Hose Repairer.....	1
Painters.....	5
Tinsmith.....	1
Watchmen.....	4
Drivers.....	3
— 156	

#### Hospital Stables—

Superintendent of Horses.....	1
Foreman.....	1
Stableman.....	5
— 7	

Aggregate..... 923

\* Includes one (1) Chief of Battalion, one (1) Assistant Foreman, four (4) Firemen, and one (1) Private relieved from service at fires, under section 14, chapter 742, Laws of 1871, as amended by chapter 119, Laws of 1879.

† Includes 2 Clerks and 1 Messenger detailed to assist Attorney to the Department.

‡ Includes 1 Machinist detailed to Fire Steamer (Engine 43).

Number of Resignations, Discharges, Deaths, Promotions, Appointments, etc., in each Grade during the Year.

GRADE.	LOSS.							GAIN.					Transfers.
	Resignations.	Discharges.	Dismissals.	Retirements.	Deaths.	Promotions.	Dropped.	Total.	Appointments.	Temporarily employed.	Promoted.	Taken up.	Total.
Assistant Chief Examiner.....	..	..	1	..	..	..	..	1	..	..	..	..	..
Assistant Engineer of Steamer.....	1	..	..	..	1	4	..	6	..	..	8	1	9
Assistant Foreman.....	1	..	..	1	..	7	..	9	..	..	11	..	37
Assistant Pilot.....	..	..	..	..	..	..	1	1	..	..	..	..	..
Assistant Telegraph Operator.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Blacksmith.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Blacksmiths' Helper.....	..	..	..	..	..	..	1	1	..	..	..	..	..
Chief Examiner.....	..	..	1	..	..	..	..	1	..	..	..	..	..
Chief of Battalion.....	..	..	..	1	1	..	..	2	..	..	3	3	3
Clerk.....	1	..	..	..	..	..	..	1	1	..	..	1	..
Driver.....	1	1	..	..	..	..	..	2	2	..	..	2	1
Engineer of Steamer.....	..	..	..	1	1	..	..	2	..	..	3	3	16
Examiner.....	..	..	2	..	..	..	..	2	10	..	..	..	10
Fireman.....	1	..	7	8	3	9	..	28	..	..	..	..	89
Foreman.....	2	..	1	1	1	3	..	8	..	..	7	7	24
Helper.....	1	..	..	..	..	..	1	2	1	..	..	1	..
Inspector of Alarm Boxes.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Lineman.....	..	..	1	..	..	..	..	1	..	..	..	..	..
Machinist.....	..	1	1	..	1	..	1	4	1	..	..	1	..
Messenger.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Painter.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Pilot.....	1	1	..	..	..	..	..	2	..	4	..	4	..
Private.....	10	..	9	..	..	9	..	28	71	..	..	71	69
Stableman.....	..	1	..	..	..	..	..	1	1	..	..	1	..
Storekeeper.....	..	..	..	..	..	..	..	..	..	..	..	..	1
Temporary Clerk.....	1	1	..	..	..	..	..	2	..	5	..	5	..
Vice Medical Officer.....	..	..	..	..	..	..	..	1	..	..	..	1	..
Watchman.....	..	1	..	..	1	..	..	2	2	..	..	2	..
Wheelwright.....	..	1	1	..	..	..	..	2	2	..	..	2	..
Total.....	20	7	24	12	9	32	4	108	97	9	32	139	250

Net aggregate gain, 31.

#### Fines and Penalties.

For violations of the rules.....	\$776 60
“ loss of badges, keys, etc.....	92 20
— \$868 80	

The total amount being turned in to the Relief Fund.

#### Rules and Regulations.

The rules and regulations originally adopted in 1865, when the Paid Fire Department, superseding the Volunteer Fire Department, was organized, with the additions thereto and modifications thereof promulgated in orders during and since the year 1867, have been compiled, revised, amended, and added to during the past year, and all are now embraced in the following orders of the series of 1881:

## FOR THE GOVERNMENT OF HEADS OF BUREAUS, SUPERINTENDENTS, CLERKS, AND OTHER EMPLOYEES.

ARTICLE I.  
HEADQUARTERS.

1. The Secretary shall be directly responsible to the Board of Commissioners for the proper conduct and management of his office, and shall keep an accurate record, in convenient form for reference, of all public business transacted therein.
2. He shall have control and direction of all clerks and other employees at Headquarters, not assigned to duty in either of the bureaus or branches of the Department.
3. He shall be present at the meetings of the Board and shall keep full and accurate minutes of its proceedings, and the records of the Board shall be in his custody and shall not be permitted to pass out of his possession without the order or sanction of the Board.
4. He shall promptly perform the duties of a Secretary, and such other duties as may from time to time devolve upon him or as may be directed by the Board or the President.
5. The Assistant Secretary shall perform such duties as the Secretary may direct, and in his absence assume and perform all his functions and duties.
6. The Bookkeeper shall be general accountant, and shall, in addition to keeping the financial books and accounts of the Department, have charge of the records and accounts of the Relief and Life Insurance Funds, under direction of the Commissioners acting as Trustees of said funds.
7. He shall also supervise the keeping of the property accounts by the Property Record Clerk, the property accounts of the Superintendents of the Repair Shops and Horses, and perform such other duties as may from time to time be directed.
8. The Property Record Clerk shall examine the property returns under the rules prescribed, and require their prompt and correct rendition.
9. He shall have charge of all telegraph alarm box keys, badges, cap devices, buttons, hat numbers, and belts and wrenches, and shall keep an accurate and convenient record of the same.
10. He shall be an assistant to the Bookkeeper, and when not engaged in the performance of his specified duties, shall render such aid to the Bookkeeper as the latter may require, or perform such other duties as may from time to time be directed.
11. The Messengers shall, when directed to perform a service by either of the Commissioners necessitating their absence from Headquarters, report it at once to the Secretary.
12. So far as practicable at least one messenger shall always be in attendance at Headquarters during office hours.
13. The Engineers or persons acting as such, shall be responsible for the proper heating of the Headquarters building, and for maintaining the boilers, apparatus, pump, hose, tanks, etc., appertaining thereto, in perfect order and serviceable condition at all times during their respective tours of duty, which shall be prescribed by the Secretary.
14. In the event of the occurrence of a fire in the immediate vicinity of the Headquarters, it shall be the duty of the Engineer on duty to make use of the extinguishing apparatus placed in his charge, to the best advantage, and to act under the direction of any officer of the Department who may be present.
15. The Janitor and assistants shall have the Headquarters thoroughly cleaned before the beginning of office hours each day.
16. The Night Watchmen shall have charge of and be responsible for the care of the Headquarters building during their respective tours of duty. The first shall report for duty promptly at or before 4 P. M. each day, and shall remain on duty until 12, midnight, or until relieved by the second, whose tour of duty shall commence at 12, midnight, and end at 8 A. M. each day.
17. While performing this duty, they will permit no one except the Commissioners, the Secretary, and the Heads of Bureaus, or their immediate assistants, to enter any of the offices without authority from either of the officers of the Department before named.
18. They shall see that all outside doors, except the main entrance, and the iron window shutters, are securely locked or fastened; that all unnecessary lights are extinguished; that there is no waste of water; that the safes, book-cases and paper closets are securely locked, and generally that all the offices are in secure and proper condition; and to assure themselves thereof they will make an examination of all the offices every hour during their respective tours of duty.
19. On Sundays and legal holidays the duty of watching and caring for the Headquarters building between the hours of 8 A. M. and 4 P. M. shall be performed by a member of the uniformed force who has been relieved from service at fires, to be detailed for that purpose by the Chief of Department, and while performing such duty he will permit no one except the Commissioners, the Secretary, and the Heads of Bureaus or Superintendents, or their immediate assistants, to enter any of the offices without authority from either of the officers of the Department named.

ARTICLE II.  
BUREAU OF INSPECTOR OF COMBUSTIBLES.

1. The Inspector of Combustibles shall be directly responsible to the Board of Commissioners for the proper conduct and management of his bureau, and shall keep an accurate record, in convenient form for reference, of the public business transacted therein.
2. He shall have the control and direction of all clerks and other employees assigned to his bureau, and is charged with the prompt execution and enforcement of all laws regulating the storage, sale, handling and transportation of combustible and explosive material, as well as of the laws or ordinances enacted for the prevention of fires, the execution of which devolves upon this Department, or which may be hereafter enacted.
3. He shall pay over all moneys collected or received in his bureau for fines, penalties, licences or permits, to the Treasurer of the Relief Fund, without delay.

ARTICLE III.  
BUREAU OF FIRE MARSHAL.

1. The Fire Marshal shall be directly responsible to the Board of Commissioners for the proper conduct and management of his bureau, and shall keep an accurate record, in convenient form for reference, of the public business transacted therein.
2. He shall have control and direction of clerks and other employees assigned to his Bureau, and is charged with the investigation of cause and origin of all fires, and detection of incendiaries, as provided by law.
3. It shall also be his duty to promptly ascertain the amount of all losses by fire to buildings, or other structures and their contents, with the amount of insurance on each.
4. He shall divide the city into three districts, and shall assign an employee of his Bureau to each district to act as an aid to the Fire Marshal, whose duty it shall be to personally and without delay examine all premises damaged by fire in his district, procure such information as the Fire Marshal shall require, and render reports thereof in such form as he may prescribe, and such employee shall also perform such other duties as the Fire Marshal may from time to time direct.
5. The Assistant Fire Marshal shall aid and assist the Fire Marshal in transacting the business of the Bureau, and in the absence of the Fire Marshal he shall exercise all his functions and perform the duties of Fire Marshal. He shall have charge of and keep the books and records of the Bureau, and perform such other duties as may be required.

ARTICLE IV.  
ATTORNEY TO THE DEPARTMENT.

1. The Attorney to the Department shall be directly responsible to the Board of Commissioners for the proper conduct and management of his office and of all legal matters which may be referred to him, and shall keep an accurate record, in convenient form for reference, of all public business transacted by him.
2. He shall have control and direction of all clerks and other assistants assigned to assist him.
3. He shall enter in a book all cases which may be referred to him by the Commissioners or by the President, in the order received and date thereof, and shall procure injunctions, when required, to stop work on all buildings which are being erected in violation of the Building Law; he shall also prosecute for the penalties incurred and for removal of all violations of law without delay and in the order received, except in special cases when otherwise directed. He shall also confer with the Inspector of Combustibles and the Inspector of Buildings for the purpose of uniting in the procuring of evidence in any case.
4. He shall report to the Board of Commissioners, as soon after the end of each month as possible, or oftener if required, the cases received, the date thereof, what suits have been commenced, whether for penalties or otherwise, the cases discontinued, the cases returned to the Board on recommendation of the Inspector of Combustibles or the Inspector of Buildings, the amount of penalties collected, stating from whom received, whether before or after suits have been commenced or after judgment has been obtained against the parties, also the amount of costs received and the amount paid and to whom, also the cases pending at the end of each month.
5. He shall also return all papers in the cases (not retained by the courts) for filing in the Bureau of Combustibles and of Inspection of Buildings whenever required by the Board or the President, or when the case is closed.

ARTICLE V.  
MEDICAL OFFICER.

1. The Medical Officer shall be directly responsible to the Board of Commissioners for the conduct and management of his office, and shall keep an accurate record, in convenient form for reference, of all examinations and recommendations made by himself or by the Vice-Medical Officer, who shall assist the Medical Officer, perform such duties as the latter may direct, and in his absence assume and perform all his functions and duties.
2. The Medical and Vice-Medical Officer shall attend at Headquarters daily (Sundays and legal holidays excepted) at 10 A. M., for the examination of such members of the uniformed force as may be directed to report to them for that purpose; and for the examination of candidates for membership, on Tuesday of each week.
3. He is charged with examination of all members of the uniformed force who may be reported sick, either at these headquarters or, in case of their inability to report at Headquarters, at quarters, or at their respective places of abode; he shall thereupon make the necessary recommendations for sick leaves of absence or of excuses from whatever duties he may find them unable to perform, in the manner now prescribed.
4. He shall examine candidates for appointment upon the forms and in the manner now prescribed.
5. He shall attend and prescribe for all members of the uniformed force who may have contracted illness or received injuries in the line of duty, without charge or fee.
6. Whenever, in his opinion, illness be feigned or be the result of intemperance, or caused by previous debauch, indiscretions, or other bad or unlawful conduct, he shall make special report thereof to the Board, and cause proper and well-sustained charges to be made against the delinquent.
7. It shall also be the duty of the Medical Officer to visit all employees of the Department who may have reported sick, whenever he shall be requested to do so by either the Secretary, the Heads of Bureaus, or the Superintendents, to whom he shall report the condition of such employees, with his recommendations as to the necessity for granting leave of absence.
8. The city shall be divided into two medical districts, to be known as the eastern and western districts, the dividing line commencing at the foot of Battery place and extending to and up Broadway to Twenty-third street, to and up Fourth avenue and Railroad avenue, and along the New York and New Haven Railroad to city limits. The Medical Officer shall assign the Vice-Medical Officer to one of these districts, and shall himself take charge of the other, and they shall each respond as soon as possible to all notices received from their respective districts in accordance with existing orders.
9. Medical Officer Frank L. Ives resides at 117 East Thirtieth street, and can be notified by dial through Hook and Ladder Co. No. 7, and will be at his residence between 6 and 7 o'clock P. M. on week days, and until ten o'clock A. M. on Sundays and legal holidays. Vice-Medical Officer Samuel L. Johnson resides at 109 West Eleventh street, and can be notified by dial through Engine Co. No. 18, and will be at his residence between 4 and 5 o'clock P. M. on week days, and until 10 o'clock A. M. on Sundays and legal holidays.

ARTICLE VI.  
SUPPLY CLERK.

1. The Supply Clerk shall be directly responsible to the Board of Commissioners for the conduct and management of the branch of the Department of which he is the head. He shall have charge and control of all materials, supplies, etc., on hand or purchased on contract or otherwise, for the use of the Department, and the same shall be as far as practicable be kept in store at Headquarters, and shall be issued therefrom on requisitions as now prescribed. For all articles which it may be impracticable to keep in store, he shall, upon proper requisition therefor, issue his order upon the contractor. He shall make estimates for all materials and supplies required in the Department, and, if directed by the Board, shall purchase the same.
2. All articles or material required by either of the Superintendents or other officers of the Department, shall be obtained from the Supply Clerk on proper requisitions.
3. An estimate of the stationery, forms, etc., required by the Department for the next ensuing year, shall be hereafter made and submitted to the Board by the Supply Clerk, between the 15th and 31st days of December of each year, which estimate shall be based upon like estimates to be made and furnished by the several Superintendents and others, on the request of the Supply Clerk.
4. All supplies, materials, apparatus, hose, horses, etc., purchased on contract or otherwise, and all stationery, blank books, etc., furnished to the Department by the Bureau of City Record, shall be taken up on the Supply Clerk's Property Return.
5. The office of the Supply Clerk shall be at these Headquarters, and his Assistant, to be designated the Storekeeper, shall, under the direction of the Supply Clerk, have the care of the Storeroom and its contents, and make all issues as directed by the Supply Clerk, and render such other assistance as may be directed by him.

ARTICLE VII.  
REPAIR SHOPS.

1. The Superintendent of the Repair Shops (or Chief of Battalion in charge of the same) shall be directly responsible to the Board of Commissioners for the conduct and management of the Repair Shops.
2. He is charged with the control and direction of the employees assigned to duty under him. He shall prescribe the duties of all the employees in the repair of apparatus, harness, hose, etc., requiring the same, and in the building of such new apparatus, or making of harness, etc., as the Board may direct. He shall see that the working-time of each employee is correctly kept; note and report all derelictions or incompetency on the part of employees, and see that the time of all is employed to the greatest advantage of the Department.
3. He shall cause a double-entry account to be opened and kept at his office, in which the amount and cost value of all labor, supplies, and materials expended in the erection, building, repairing, or alteration of every apparatus of each company, and of the spare apparatus, together with the tools, implements, harness and hose, and all other necessary articles of outfit, or equipment furnished with each, shall be entered at the time of the expenditure or issue, and in such manner that the cost value of each job of work done for, or of articles issued to each company or spare apparatus, as well as the aggregate cost value of the same, shall be clearly shown to any required day. This record shall also contain the date of construction or purchase of each apparatus, and of all hose, and the companies or battalions in which it has been used, with the time of such use.
4. All materials, tools, supplies, etc., required for use at the Repair Shops or elsewhere in the Department, under the direction of the Superintendent, shall be obtained by him from the Supply Clerk, upon requisition.
5. The working hours at the Repair Shops shall be from 8 A. M. to 12 M., and from 1 P. M. to 5 P. M., and all employees shall be required to be punctually at their work at the time specified for the beginning, and to remain thereafter until the time specified for the termination of the working hours. No employee shall receive pay except for time actually made or service performed.
6. The Foreman of the Repair Shops shall be under the direction of the Superintendent (or Chief of Battalion in charge of Repair Shops), perform such service as he may require, and in his absence shall act in his place.
7. No employee shall leave his work, or the shops, during the hours specified, except by permission or direction of the Superintendent or Foreman in charge at the time, and it shall be the duty of each employee, upon the completion of any work he may have been ordered to perform, or in the event of his meeting with any unforeseen difficulty in its performance, or requiring further instructions, to promptly report the same to the Superintendent or Foreman in charge. Smoking on the premises, at any time, is strictly prohibited, and all employees shall be held strictly responsible for waste of gas, materials, or supplies, or unnecessary damage to tools or machinery intrusted to their care. They shall also be responsible for the proper return and safe keeping of all tools and implements temporarily intrusted to them.
8. The laborers detailed for duty on each floor shall keep the same clean, and at the close of each day, shall remove all oily cotton waste to the receptacles provided for that purpose. They shall also securely close the hatchway covers each day before leaving the shop.
9. For insubordinate conduct, violation of these rules, intoxication, or engaging in altercations, or other misbehavior, on the part of any employee, the Superintendent is vested with the authority to summarily suspend the offender from pay and duty, such action to be forthwith reported in writing to the Board.
10. The Superintendent of Repairs to Buildings shall have entire charge and control of all alterations and repairs to the houses of the Department, unless otherwise specially ordered. His office shall be at the Repair Shops, and the Superintendent thereof shall furnish such clerical assistance as he may require.

ARTICLE VIII.  
HOSPITAL STABLES.

1. The Superintendent of Horses shall be directly responsible to the Board of Commissioners for the conduct and management of the Hospital Stables, and for the proper performance of the duties with which he is or may be charged. He shall have the general care of all horses of the Department, and the control and direction of the employees assigned for duty in the Hospital Stables. He shall give such medical and surgical aid and attention as may be required, and may give direc-

tions regulating the feeding and care of the horses of the Department whenever, to his judgment, it may be necessary, and shall also have authority to direct the sending of horses to the hospital stables for treatment and care. By direction or consent of the Board, he may transfer horses from one company to another if, in his judgment, the interest of the service would be benefited thereby. He shall report all deaths of horses occurring, and make the necessary arrangement for their removal; and may recommend the sale or other proper disposition of all horses becoming unfit for further service in the Department. He shall, when necessary, make requisition for horses to be purchased, and upon direction to that effect from the Board, select horses suitable for the service for inspection and purchase by the Board. At least once in each month, it shall be his duty to visit each company quarters and inspect the horses, harness, stables or stalls, and the forage of feed furnished, and make prompt report of any deficiency found in either, together with such recommendations as he may deem necessary and proper relating thereto.

2. He shall keep an accurate numerical and descriptive record of all horses in the Department, containing date of purchase, age, record of service (specifying the company in which it was performed), record of accidents, sickness, time in Hospital Stables, and date of final sale or death.

3. He shall make a report on Monday of each week of the number of horses on hand received from and turned over to the several companies, etc., of the Department, the number received by him by purchase or transfer, and of the number sold or dead during the preceding week, together with a statement of visits to company quarters by him, and of all extraordinary occurrences relating to horses.

4. For insubordinate conduct, violation of rules, intoxication, engaged in altercations, absence without leave, disobedience of orders, or other misbehavior, on the part of any employee, the Superintendent is vested with authority to summarily suspend the offender from pay and duty, such action to be forthwith reported in writing to the Board.

#### ARTICLE IX.

##### GENERAL RULES.

1. All official communications, or communications in any manner relating to the official business of the Department, from either of the Heads of Bureaus, or Superintendents or their subordinates, addressed to any national, state, or municipal department, bureau, or official, or to any unofficial corporation or person, whether verbal or written, shall be made through the office of the Board, unless otherwise specially directed by the President, or the Board.

2. While in the service of this Department, its officers and subordinates shall not make use of or apply any portion of the time they may be required to devote to the performance of the duties devolved upon them, or any information they may have acquired therein, or any authority or power with which they may be clothed, in or for the furtherance of any private or corporate interests or purposes whatever.

3. Office hours at Headquarters shall be from 9 A. M. to 4 P. M., except Saturdays, when they shall be from 9 A. M. to 3 P. M., and on Sundays and legal holidays, when the offices (with exception of the Telegraph Office, which shall be open at all times), shall be closed for business. The office hours of the several bureaus, offices, etc., may, however, at any time be extended for the transaction of public business, if, in the opinion of the Board of Commissioners or of the officers in charge of the same, the interests of the public service shall require it.

4. All clerks are required to be at their desks and ready to begin the work of the day, fifteen minutes prior to the commencement of the office hours and punctually on the expiration of the noon-day meal hour, unless otherwise specially directed or excused by proper authority.

5. It is made the duty of all employees, in case of physical or other disability preventing their prompt appearance for duty at the required time, to report that fact to their immediate superiors, in time to enable the substitution of another to perform their duties if necessary, and in order that in case of physical disability, the Medical Officer may be promptly notified thereof.

6. One hour shall be allowed to each employee for noonday luncheon or dinner, by his immediate superior, in such manner as shall not interfere with the business of the office.

7. It shall be the duty of each employee to report before leaving at the close of the regular office hours, each day, to his immediate superior.

8. Smoking, sleeping or dozing while on duty during the regular office hours is strictly prohibited, as well as the reading of newspapers, books, etc., by clerks, unless the same be in connection with the public business, or by special permission.

9. Interference in any manner by one employee with the duties of, or the performance of the same by another, is prohibited, and it shall be the duty of each employee to make immediate report of such interference to his immediate superior.

10. The public business transacted in and the records of the several bureaus and offices shall be treated as strictly confidential by the several officers and employees of the Department, and shall not be communicated except as may be directed by the Board or the President.

11. No one except the Secretary and the persons employed therein, shall be admitted within the inclosures surrounding the desks in the several bureaus or offices, unless specially permitted by the officers in charge of the same.

12. Absence without leave, tardiness, neglect of duty, insubordinate conduct, disobedience of orders or directions, inattention to duty, intoxication, ungentelemanly conduct or language, incompetency or violations or infractions of any of the rules prescribed on the part of either of the employees, shall constitute good and sufficient ground for charges against the offender or delinquent by his immediate superior; and if such charges are sustained the penalty shall be reprimand, transfer, suspension from pay and duty, or dismissal, as the Commissioners may determine.

13. Failure on the part of an employee, against whom charges may have been preferred, to present himself upon twenty-four hours' notice thereof, shall, in the absence of evidence of physical or other sufficient disability to attend at the time specified in such notice, and presented prior thereto, be held to be equivalent to a plea of guilty by the accused to the charges preferred against him.

14. Heads of Bureaus, Superintendents, etc., shall prescribe all necessary rules for the government of the employees under their control and direction, not herein contained.

15. Nothing contained in these rules shall preclude the Commissioners, the Secretary, or either of the Heads of Bureaus or Superintendents, from at any time requiring any or either of the employees of the Department serving under their directions, to perform such other duties (not herein specially prescribed for them) as the interest of the Department service may, in their opinion, demand or require.

16. A copy of this order, properly attested and addressed, will be served by the Secretary, and each Head of Bureau or Superintendent, upon each of their subordinates except the members of the uniformed force, as soon as received.

(General Orders No. 30.)

#### FOR THE GOVERNMENT OF THE UNIFORMED FORCE.

I.—The uniformed force of the Fire Department shall consist of one Chief of Department, one Assistant Chief of Department, and as many Chiefs of Battalion, Foremen, Assistant Foremen (taking precedence in authority and command in the order named), Engineers of Steamer, Assistant Engineers of Steamer, Firemen and Privates, as the Fire Commissioners may from time to time designate. Other employees of the Department shall not belong to the uniformed force.

II.—For the purposes of chapter 726, Laws of 1873 (the act organizing the corps of Sappers and Miners), the Chief of Department shall be Chief Engineer, and in his absence the Assistant Chief of Department shall be Chief Engineer, and the Chief of Department, the Assistant Chief of Department and Chiefs of Battalion shall be Engineers.

III.—For the purpose of drill, evolutions, parade, review, etc., the following titles are established:

For Foreman of Company.....Captain.  
" Assistant Foreman of Company.....Lieutenant.  
" Engineer of Steamer.....Sergeant.  
" Assistant Engineer of Steamer.....Corporal.  
" Fireman or Private.....Private.

In hook and ladder companies the senior fireman or private, as to term of service in the Department, shall be the Sergeant, and the next in order of seniority shall be the Corporal. When speaking to or of a Foreman or Assistant Foreman they shall be addressed or designated as Captain and Lieutenant respectively, in all cases using the full word without abbreviation.

IV.—The Bureau of the Chief of Department shall consist of the uniformed force of the Department, and it is charged by law "with the duty of preventing and extinguishing fires and of protecting property from water used at fires."

V.—It shall be the duty of every officer and member of the uniformed force of this Department to strictly conform to the following rules:

1. Devote their entire time to its service; attend all fires or alarms at stations to which they are assigned, detailed, or may be called; ride on apparatus going to and returning from fires or alarms, unless otherwise directed by commanding officer, exert their greatest energy and best ability to do their full duty under any and all circumstances; answer all alarms for fire, unless excused by an officer having power to do so—in no case shall fatigue from duty at a previous fire be accepted as an excuse for failure to answer an alarm.

2. Conform to, promptly and cheerfully obey all laws, ordinances, rules, resolutions, regulations, circulars, and orders, whether general, special, or verbal, for the government of the Department or individuals; be strictly on time to the minute; obedience must be prompt, implicit, unqualified and unequivocal. In case of failure on the part of any newly appointed private to report at the time

named in his order of appointment, special report of such failure shall be made to the Board by the commanding officer.

3. Be responsible for any want of judgment, skill, neglect, or failure which may cause unnecessary loss of life, limb or property.

4. Promptly cause all persons in danger in the burning or adjoining premises to be removed therefrom with the least possible injury to life or limb.

5. Endeavor to detect incendiaries in case of fires of suspicious origin, always and without delay notifying the Fire Marshal (but not causing arrests); avoid publicly expressing opinion on the case or its circumstances; act quietly and carefully with a view to obtain proper and reliable evidence in every case, and prevent the removal or unnecessary disturbance of articles of a suspicious nature, except by direction of the Fire Marshal.

6. Endeavor to detect and obtain evidence to convict persons bringing or sending false alarm for fire.

7. Carefully protect from waste or abuse all public property, particularly gas, horse feed and forage, and fuel in quarters and at fires.

8. Read and become familiar with laws, ordinances, rules and general orders relating to this Department, and be permitted at all proper times to peruse them.

9. Send, or cause to be sent, all official communications through the regular channels, which is through commanding officers of companies to Chiefs of Battalion, to Chief of Department, to Board, when necessary. A communication from superior to subordinate shall pass through the intermediate officers in same manner.

10. Not loan, sell or give away any public property.

11. Not sell or assign his salary or incur liabilities which he is unable or unwilling to pay, or neglect or refuse to honorably discharge and promptly pay all indebtedness.

12. Not receive rewards or presents of any kind without the permission of the Board.

13. Not leave quarters, fires, or any duty without the permission of his commanding officer.

14. Not use obscene, immoral, disrespectful, impudent, or other improper language, but always be respectful and gentlemanly to his superiors, equals and citizens, and courteous to subordinates.

15. Not enter any place where spirituous, malt or intoxicating beverages of any kind are sold, for meals or for any purpose whatever, except in the strict discharge of public duty.

16. Not have or cause, permit or allow spirituous, malt, or intoxicating beverages of any kind to be brought into and kept in quarters, nor gamble therein; nor smoke in cellar, dormitory or apparatus-room floor.

17. Not at any time be under the influence of spirituous, malt, or intoxicating beverages, liquors, drugs, or compounds sufficiently to interfere in any way with the proper performance of every duty, whether it be the direct or immediate influence or sickness caused or produced by the use of such beverages, liquors or compounds.

18. Not be guilty of immoral or improper conduct.

19. Not engage in altercations under any circumstances.

20. Not be guilty of conduct unbecoming an officer or a gentleman, or of conduct in any manner prejudicial to the good reputation, order or discipline of the Department.

21. Not to be a delegate or representative to, or a member of any political or partisan convention whose purpose is the nomination of a candidate for any political office.

22. Not be guilty of deception, or evasion of any law, ordinance, rule, regulation or order, general, special or verbal.

23. Not be guilty of cowardice, nor shrink from any duty.

24. Not unnecessarily disturb men asleep in dormitory.

25. Not directly or indirectly in any manner, nor for any purpose, invite, solicit, suggest or request contributions, subscriptions or donations, nor engage or take part in any scheme or enterprise, intended or likely to induce or influence any person to purchase tickets for fairs, concerts, lectures, exhibitions, theatrical performances, picnics, excursions, balls, festivals, or entertainments of any kind, nor to make presents or gifts in money or goods of any description, without the official sanction of the Board expressed in writing.

26. Give at least five days' notice of intended resignation and promptly report any change of residence.

27. Applications for transfer in the uniformed force must be made in the handwriting and over the signature of applicant, stating truly and fully the necessity therefor, and forwarded through regular channels to the Board, with approval or disapproval of intermediate officers and reasons therefor indorsed thereon.

28. Any officer or member of the uniformed force who shall, directly or indirectly, solicit the influence or intercession of any person or persons with the Commissioners, or either of them, to effect his transfer, shall be guilty of a violation of this rule, and be punished by fine or dismissal from the service, as the Board may determine.

29. Applications for promotion must be made in the handwriting and over the signature of applicant, setting forth the length of his service in the various positions held in the Department and his qualifications for the position to which he desires promotion; be addressed to the Board and forwarded through the intermediate commanders for indorsement by them; and such application shall thereupon be referred to the proper Examining Board for examination and report as to applicant's fitness.

30. Officers shall see that the premises in which the fire occurred are left in such condition that it will not cause further damage to life or property.

31. Officers shall not unnecessarily jeopardize the lives or limbs of officers or men under their command; shall be just, dignified and firm in their intercourse with subordinates, being careful to abstain from violent, abusive or immoderate language in giving orders and directions, as well as in conversation with them; see that all rules and orders are strictly carried out and obeyed, and promptly report by well-sustained charges any transgression of law, ordinance, rules or orders.

VI.—Upon leaving quarters for any purpose whatever (except on an alarm for fire at which the company does duty), all company officers shall enter or cause to be entered on the journal in the manner below specified, and all members of companies shall report to the housewatch, the following:

The exact time of leaving.

The purpose of or reason for the proposed absence.

The precise nature of business if the proposed absence be for transaction of Department business.

And upon returning to quarters—

The exact time of return.

The reason therefor, if any there be, in case the time allowed has been exceeded.

The character of the Department business transacted, in detail.

It is the duty of the housewatch to enter upon the company journal, at once, the reports so received in full, as per example:

9.15 A. M.—Captain ——— left quarters to inspect building No. ——— street.

10.03 A. M.—Captain ——— returned to quarters from inspection of building No. ——— street; found swinging gas brackets on wood partition in front room, third floor. On way back found fire-hydrant in front of No. ——— street obstructed.

12.10 P. M.—Fireman ——— left quarters to go to dinner; allowed one hour.

2.40 P. M.—Fireman ——— returned to quarters, overstaid time allowed one hour and thirty minutes; found family sick, had to go for physician.

3.15 P. M.—Lieutenant ——— left quarters by direction of the Captain to inspect key to box No. ——— located at No. ——— street.

3.43 P. M.—Lieutenant ——— returned to quarters; found key to telegraph box No. ——— in proper condition and location.

4.05 P. M.—Captain ——— left quarters to inspect building No. ——— street.

4.55 P. M.—Captain ——— returned; found Fireman ———, detailed on messenger duty, in restaurant at 4.33 P. M., corner of ——— street and ——— avenue.

5.10 P. M.—Commissioner ——— visited quarters.

5.30 P. M.—Practiced hitching 30 minutes; quickest time made — seconds.

5.45 P. M.—Mr. ———, wife, and daughter visited quarters.

2. Any failure of officers or men to comply with the above requirements shall, in addition to being accounted a violation of rules, subject the delinquent to the charge of absence without leave during the time of such absence from quarters.

3. Neglect of the housewatchman to make entries in journal as directed by commanding officer, or as required by general orders, or to make proper entry of any absence from quarters on the part of either officers or men, will be severely punished.

4. It is intended that the company journal should be in itself an accurate and complete history of the operations and doings of each company for each day; the regular and special duty performed by its individual officers and members, as well as that performed by the company collectively; delinquencies of officers and members; orders received and given, whether verbal, written, or telegraphic; collisions, accidents to men, horses, or apparatus; unusual occurrences of all kinds; the receipt of supplies, horses, forage, fuel, apparatus, hose, etc., specifying quantity and kind of each; the result of each drill for instruction or practice, stating time consumed in each particular operation; short excuses from quarters for absolutely necessary purposes, and everything in any manner pertaining to the administration of the company or the interests of the Department, should all therefore be carefully noted.

## VII.—It shall be the duty of the Chief of Department to—

1. Have control and direction of his bureau and of all clerks assigned to duty therein.
2. Be responsible to the Board of Fire Commissioners for the conduct and management of his bureau.
3. Keep an accurate record, in convenient form for reference, of all business transacted in his bureau, and of all fires occurring in this city and operations thereat, or elsewhere when called out of the city.
4. Have command and management of the uniformed force.
5. Extinguish all fires with the least possible damage to life and property, and prevent unnecessary damage by water at fires.
6. Cause all companies not needed at fires to promptly return to quarters.
7. Make official report of his action and of that of the officers and members under his command, on the forms provided for that purpose.
8. Have power, and it shall be his duty, to demolish buildings and parts of buildings which in his judgment might cause further damage to life or property, or which in his judgment it may be necessary to demolish to prevent the spread of fire.
9. Promptly report to the Board any officer or member of the uniformed force who, by reason of age, disease, accident, or other incompetency, does not or cannot fully, energetically, promptly, and properly perform full duty in the Department.
10. Have power, and it shall be his duty, to summarily suspend from pay and duty any person under his command for a flagrant violation of law, ordinance, rule, regulation, or direction, in all cases where the interests of the people or the reputation of the Department would suffer if such prompt action should not be taken.
11. See that all laws, ordinances, rules, regulations, orders and directions for the government of his bureau are promptly, cheerfully and implicitly enforced and obeyed, and that all derelictions or transgressions that may come to his knowledge are promptly investigated and reported to the Board by proper and well-sustained charges.

VIII.—In the absence of the Chief of Department the Assistant Chief of Department shall perform all the duties, assume all the responsibilities and functions of the Chief of Department, and perform such other duties as his superiors may direct. He shall by virtue of his office be Chief of the Corps of Sappers and Miners, consisting of the Instructor of the Corps and the Assistant Foremen of the Department.

## IX.—It shall be the duty of the Chiefs of Battalion to—

1. Be on duty constantly day and night at their respective Headquarters, except when necessarily called elsewhere on Department business or on leave of absence.
2. Attend all fires at stations to which they may be assigned, detailed or called, and promptly report their arrival at fires to the officer in command.
3. The first at a fire to assume command and have full control until command is assumed by the Chief or Assistant Chief of Department.
4. Direct the movements of the officers and men under their command and extinguish the fires with the least possible damage by fire or water.
5. Cause all companies not needed at fires to promptly return to quarters.
6. In case of fire promptly report any dangerous buildings to the Chief of the Department.
7. Make official report of their action and of that of the officers and members under their command on the forms provided for that purpose.
8. Visit each company in their battalions at least twice in each week, and inspect the company journal, apparatus, horses, hose, tools, implements, men and everything in and about company quarters thoroughly and carefully, and enter over their signature on the company as well as also in their battalion journals, the condition of everything as they may find it—good, bad or indifferent; when absent from their commands, the Chief of the adjoining battalion will assume command thereof and perform all the duties pertaining thereto, as follows:

Chief of 1st Battalion to assume command of 2d Battalion.					
" 2d "	" "	" "	" "	1st "	" "
" 3d "	" "	" "	" "	5th "	" "
" 5th "	" "	" "	" "	3d "	" "
" 4th "	" "	" "	" "	6th "	" "
" 6th "	" "	" "	" "	4th "	" "
" 7th "	" "	" "	" "	8th "	" "
" 8th "	" "	" "	" "	7th or 9th "	" "
" 9th "	" "	" "	" "	10th "	" "
" 10th "	" "	" "	" "	9th "	" "

and for the purpose of carrying out this provision, battalion commanders will notify each other by telephone, dial, telegraph or otherwise, of any intended absence.

9. Be responsible for the condition of each company in their battalions.
  10. Once in each calendar month make a general inspection of the uniforms of all officers and men in their battalions, at which each and all shall appear fully uniformed as prescribed for the S. A. M. roll call, and present for inspection all other parts of the uniform and equipment required by the bill of dress.
  11. Report by well-sustained charges any officer or member not appearing in proper uniform at monthly inspection or elsewhere, who has had sufficient time to procure it.
  12. Promptly and officially report by telegraph or otherwise to the Chief of Department or the officer acting as such, if they are from any cause unable to perform duty.
  13. Keep the companies in their battalions equalized by special details, and see that they have always proper officers, engineers of steamer, drivers and tillermen.
  14. Perform such other duties as their superiors may direct.
- X.—Foremen of companies shall have absolute command and control of their companies; the housewatchman, engineer or assistant engineer of steamer, drivers and tillermen shall obey their orders implicitly.

It shall be the duty of Foremen to strictly obey and conform to the following rules:

1. Ride on ash-pan of engine with engineer of steamer going to and returning from alarm for fire, and direct the driver. In engine companies equipped with four-wheeled tenders, and which are ordered to precede the engine in going to and returning from alarms for fire, they will ride on the tender and direct the driver. In hook and ladder companies to ride near and direct the driver. Officers to ride to the exclusion of men if necessary.
2. See that all men as well as officers, ride on the apparatus in going to and returning from alarms for fire, unless it is impracticable by reason of heavy grades, rough pavements or other causes, and except one man to run in advance of the apparatus when proceeding to an alarm for fire, who will be relieved as often as it may be necessary.
3. Not permit racing going to or returning from alarms for fire, or permit their apparatus to pass another apparatus of the Department going to or returning from alarms for fire, unless such apparatus or horses should be disabled, in which case they will proceed after assuring themselves that either are so disabled.
4. Promptly report their arrival to the officer in command at a fire.
5. Assume command at fires when they are the first to arrive, and exercise command and control until the Chief or Assistant Chief of Department or a Chief of Battalion assumes command.
6. Not permit apparatus to be driven at a rate of speed which may cause accidents.
7. Promptly at five minutes before eight o'clock in the morning they shall require each officer and member of their several companies to report on the apparatus floor in the uniform as prescribed to be worn at the "eight o'clock A. M. roll call," all to be neat and clean in person, uniform, and equipments, and with all the public property entrusted to their personal care, except when fatigue from night duty may prevent.
8. Promptly at the last stroke of the gong announcing eight o'clock (morning test), and after the horses have been returned to their stalls, they shall form and align the company and cause it to salute and recover; call the roll; read to company (except when otherwise directed) all general or special orders or circulars received since the last roll call, carefully, distinctly and slowly; announce details for housewatch duty; give instructions for the day, and proper admonition in all cases of irregularity or dereliction; make a careful personal inspection of each officer and member as to his personal appearance, uniform, equipments and all public property entrusted to his care.
9. Shall then drill their companies in formation, alignments, facings, marching by flank and in line where practicable; give instructions in manner of saluting, whom and when to salute; and see that every member fully understands and properly executes all commands, instructing them particularly therein. The drill shall be of at least five minutes duration every morning, except when fatigue from duty at fires may prevent.
10. Make out and forward the morning report, reports of operations at fires, and all other necessary reports and papers immediately after the conclusion of the morning exercises above prescribed. Give all special and sick leaves of absence in writing. Short excuses from duty shall be entered in journal.
11. Preserve order and strict discipline in and about quarters and at fires.
12. Always have in quarters and with company (one licensed pilot to boat) one engineer or assistant engineer of steamer, proper drivers and tillermen, and a sufficient number of men to properly perform any required duty.

13. Politely escort visitors and make proper explanation to them, but not allow habitual lounging or visiting in or about quarters.

14. Not permit chowder parties or other social assemblages or parties in quarters.

15. Not permit members or visitors to speak disrespectfully of superiors.

16. Have full control of company quarters and be responsible for its order and cleanliness; see that the dormitory is kept scrupulously neat and clean, well aired every day when the weather will permit, and that the beds are properly made up each morning; and that the beds and bedding are properly and thoroughly aired once in each week, in the sun, if possible.

17. See that beds are not used in day-time after half-past seven o'clock in the morning, except when fatigue from night duty makes it necessary.

18. Employ a person to make up beds, wash bedclothes, keep dormitories clean and in order, for which each officer and member shall pay his pro-rata share of the expense, and in case of transfer the proper proportionate share of expense to the several companies in which they may have served, not exceeding two dollars per month to each officer and member.

19. See that the dormitory gong, on an alarm of fire, is promptly sounded by electricity, house-watchman, or both where practicable.

20. See that proper care is taken of all Department horses located in their quarters, and not permit other animals of any kind to be kept in quarters, except one dog or one cat (not both), or singing birds.

21. Not permit visitors in quarters while apparatus or quarters are being cleaned; keep front of building, sidewalk, gutter, and street in front of quarters to the middle of street clean and free from snow and ice or other incumbrances.

22. Not permit smoking in cellar, apparatus floor or dormitory.

23. Not permit chairs on apparatus floor (except for housewatch), nor seats in front outside of quarters.

24. Familiarize themselves with all buildings in their company districts, and make periodical examinations of all churches, hotels, factories, warehouses, theatres (when performances are not in progress), stores and other buildings used for purposes of business, instruction or amusement, and have in quarters (to be the property of the Department) a written description and drawings of all such buildings.

25. Report all buildings that are from any cause in violation of law or ordinance.

26. In case of fire promptly report any dangerous buildings to the officer in command.

27. Report promptly the violation or evasion of any law or ordinance the Department is or may be charged with administering or enforcing, particularly chapter 873, Laws of 1866, as amended by chapter 467, Laws of 1881; chapter 584, Laws of 1871; chapter 742, Laws of 1871; chapter 324, Laws of 1879, and chapter 521, Laws of 1880.

28. Report all hydrants in their company districts encumbered by snow, ice, building materials, goods, vehicles of any kind, or in any other manner, being careful to obtain names of responsible and guilty parties and proper and reliable evidence to convict.

29. Promptly report all hoistways found open after business hours or otherwise in violation of law or ordinance, obtaining names and address of occupants and owners of premises and proper evidence to convict guilty parties.

30. Be responsible for all public property in their care, and see that it is in proper order for prompt and immediate use.

31. See that bills for horse-shoeing certified to by them state specifically the register number of each horse and the date when shod; horses on trial or hired (having no number) will be so certified; procure and forward all such bills in duplicate on the first day of each month.

32. State in detail when forwarding orders for repairs to apparatus, harness or other articles, exactly what repairs are needed; if harness, the particular part needing repairs, and if a duplicate of the article is on hand.

33. Perform such other duties as may from time to time be imposed on them by the Commissioners and officers of superior grade.

## XI.—It shall be the duty of the Assistant Foremen to strictly conform to the following rules:

1. In the absence of the Foreman to assume all his functions and responsibilities.
2. When the Foreman is present to obey his commands promptly and cheerfully and properly assist him in the performance of all his duties.
3. Ride on the tender in engine companies and direct the driver in going to and from alarms for fire, except that in case of engine companies having four-wheeled tenders and which are ordered to precede the engine, he shall ride on the ash-pan of the engine and direct the driver.

XII.—In the Bureau of Chief of Department the day shall commence at eight o'clock in the morning, and no leaves of absence shall begin before the morning exercises, herein prescribed, are concluded.

XIII.—When charges are preferred against any head of bureau, clerk, employee or member of the uniformed force of the Fire Department, and the accused cannot be found, the charges or any notice may be left at his last known place of residence with some person of a proper age to receive it. False swearing before the Fire Commissioners is perjury and punishable as such.

XIV.—Any officer or member of the uniformed force, or any employee of this Department, found guilty of transgressing any law, ordinance, rule, resolution, regulation, circular, orders (general, special or verbal), may be reprimanded, fined, reduced in grade and pay, suspended from pay and duty, or be dismissed from the service of the Department, as the Board of Commissioners may determine; and any person so dismissed shall not, under any circumstances, have his case reopened, or again be a member of the Department.

(General Orders No. 13.)

## CARE AND USE OF APPARATUS, HOSE, IMPLEMENTS, TOOLS, ETC.

## I.—While standing in quarters:

1. Keep the wood-work of the apparatus clean and the metal work and glass in perfect order, and all free from dust. In cleaning the metal work use pulverized burnt rotten-stone and oil on brass, silver and copper; emery-cloth on iron and steel; on parts where there is friction, clean cotton-waste.
2. For kindling fire rapidly under the boiler, keep on hand a quantity of shavings and at least half a cord of wood, split fine; place a large piece of wood on each side of the grate, then about half a bushel of shavings; fill the furnace with light dry wood, in layers, crosswise, the heaviest on top; carry a few large pieces of wood in the fuel-box.
3. Carry enough coal in the fuel-box to supply the furnace for at least one-half hour's work. Always have a torch prepared for lighting the fire by tying a small piece of oily waste with three or four matches to the end of a piece of wood, placed near the furnace door.
4. The water level in the tubular boiler must be on line with third gauge cock; in the pendant tube boiler, on line with second gauge cock, and in the double-shell and coil boiler, two inches above the second gauge cock.
5. The fire must be so regulated in the heating apparatus that the water in boiler will always be at the boiling point, but not to indicate more than 15 pounds pressure on steam gauge. The steam pressure on the boilers of self-propelling engine must always be from 80 to 100 pounds per square inch.
6. The tubes of boiler must always be clean; using whalebone or reed brushes, or steam hose as may be necessary.
7. Set the safety valve to lift at a pressure of 80 pounds per square inch. Once in three months remove the valve from its chamber and clean off any corrosion that may have accumulated on the guide.
8. Keep the cups above steam cylinders always supplied with tallow, and the cylinder drain cocks always open in quarters.
9. Engine must be turned over each day and placed on a different centre.
10. Keep the relief valve set to lift at a pressure of 75 pounds to the square inch.
11. Oil holes of bearings and working parts must be clear of all accumulations, and all stuffing-boxes kept properly packed.
12. If the engine has not been out of quarters for two weeks it will be connected to hydrant in front of quarters; the water level in boiler increased one gauge; generate steam pressure of 25 pounds by wood fire; work the engine a short time until satisfied that all parts are in good order, then blow off the surplus water to the standard level, using the blow-off cock and lower heater pipe at the same time. Once each month, if practicable, clean the water leg of boiler by removing the mud plugs and hand hole plates, using the Croton pressure with small hose.
13. Plunger leathers of main pump to be lubricated with tallow, when practicable.
14. Once each week, while cleaning quarters, remove all wheels of the apparatus and grease the axles, first wiping off the old grease from axle-arms and wheel-boxes. New axles will be examined, and, if necessary, greased after each run, for the first three months of use.
15. All suction, hydrant-connections, feed-hose, etc., to be in order for instant use, and supplied with proper washers. Engine to be always supplied with the proper tools and wrenches.
16. In the care of heating apparatus, every three months disconnect the line pipes leading to boiler and blow water through the coil to remove any accumulations of scale that may have formed; also, weekly remove the plugs of circulating cocks and tallow them.

17. The Engineer of Steamer will be held responsible for the condition and proper running of the engine, and shall not cause, permit or allow the destruction of tubes, coils, boiler or any part of machinery by want of water in boiler, by freezing or any cause, and if any of the parts are out of order, or if anything is wanting, he will be held responsible until the same is reported to the commanding officer of the company. During the absence of the Engineer of Steamer the Assistant Engineer of Steamer will perform his duties and assume all his responsibilities.

#### II.—Upon receiving an alarm of fire :

1. Every officer and member will immediately report for fire duty on the apparatus floor, the horses will be hitched up and the company prepared to leave quarters upon the command Go! to be given by the commanding officer at the instant he is assured that the company performs duty at the location indicated.

2. After the horses are hitched and the drivers and tillerman securely seated they will cry out "Ready!" in a loud tone, when the commanding officer will command "Go!" this will be the signal for the doors to be opened.

3. The Engineer will disconnect engine from heater and light the torch, and when engine reaches the sidewalk ignite the fuel in furnace.

4. Take the shortest route to the station indicated, except when time and wear and tear upon horses and apparatus can be saved by passing through better paved streets. The foreman of Engine companies will ride on the fuel-box, except those having four-wheeled tenders drawn by two horses, which will precede the engine, then on seat of tender beside the driver. The Assistant Foreman will ride on the tender, except where companies have four-wheel tenders drawn by two horses, then on engine; he will cause the men to dismount if the wheeling is too heavy for the horse.

5. On the arrival at a hydrant of any two-horse tender, it shall be entitled to take such hydrant, except in case where the engine of its own company may be delayed, and in all such cases the Foreman will direct the next engine arriving to take the hydrant.

6. To guard against collisions and accidents when proceeding to fires, the bells and gongs on all apparatus will be rung at short intervals, and always when approaching a crossing; for this purpose a wire or cord will be kept adjusted to the bells of engines leading back to the hand rail on rear of boilers.

7. All proper dispatch will be used in reaching a fire consistent with safety. Officers of companies will direct and hold the drivers responsible for any reckless or imprudent driving. When turning corners, or turning from one railroad track to another, especially in streets where there are columns of the elevated railroads, drivers will lessen the speed, even to a walk if necessary. When the speed of the apparatus is impeded by crowded thoroughfares, or at dangerous crossings, one or more men will precede the apparatus. When nearing the station or fire the commanding officer will take the lead.

8. Attention is called to the following provision of law :

CHAPTER 249—LAWS OF 1865. (An Act to create a Metropolitan Fire District and establish a Fire Department therein):

SECTION 15. The aforesaid officers and men, with their apparatus of all kinds, when on duty, shall have the right of way at any fire and in any highway, street or avenue, over any and all vehicles of any kind, except those carrying the United States mail. And any person in or upon or owning any vehicle, who shall refuse the right of way, or in any way obstruct any fire apparatus or any of said officers while in the performance of duty, shall be guilty of a misdemeanor, and be liable to punishment for the same.

It is hereby made the duty of all officers and members of the Department, when the same shall not conflict with their more important duties at fires, to procure the arrest of all persons violating the provisions of the law above quoted, and to make proper report thereof.

9. If the apparatus of two or more companies are proceeding on the same street or avenue, either going or returning from fires or alarms, they will do so in single file, and not attempt to pass or race with each other.

10. On arriving at a fire commanders of engine companies will immediately order a connection to be made to hydrant, except when it appears to those having the longest distance to travel that their services will not be required, and report before stretching in.

11. The Fire Steamers shall not leave their berth without having a duly licensed pilot at the wheel, who shall have absolute control and responsibility as to the manner of steering to and landing the boat at the point or place directed by the officer in command of the company.

#### III.—Upon reaching a hydrant in vicinity of the fire :

1. Connect the suction or hydrant connection to the hydrant, then to the engine; be sure the connections are air tight. Companies reporting on extra alarms, if hydrant has  $4\frac{1}{2}$ -inch outlet will always use the suction.

2. Stand fenders between boiler and wheels and not permit paint on wheels to be scorched.

3. Take engine off springs. See that links and link-blocks are free from grit and well lubricated. The fire under boiler will be kept up with wood until it is known that the engine will be required.

4. When the tender is nearing the engine one man designated by the Assistant Foreman will unfasten the hose reel and hose, and when at engine take a turn around outside hind wheel, and if the hose is stretched he will attach it to discharge gate of engine.

#### IV.—When the engine is not required :

1. The Assistant Foreman will see that the hose is quickly reeled and fastened.

2. The Engineer will proceed as follows: Feed the boiler, if required, first blowing out the foul water and sediment from the hydrant by forcing it through the pump or by disconnecting the hydrant connection from the engine and allowing the water to flow through it into the gutter, as feeding from a hydrant that has not been used for some time or from one connected to a dead end of pipe, a great quantity of sediment is lodged in the water leg of boiler. Engineers of steamers will always blow the hydrants out before feeding the boilers, if circumstances will permit, when the services of the engine is not instantly required.

Draw the fire, leaving a little for rekindling in case of an alarm while returning to quarters.

Separate the hydrant connection or suction from the engine, then from hydrant.

Observe the rules as to the care and use of fire hydrants.

Place engine on springs; replace fenders in fuel box.

3. The officers and men will then mount the apparatus and proceed to quarters without delay.

#### V.—When the service of the engine is required :

1. The Foreman will order "Stretch In." The tender will run in as near to the fire as practicable, avoiding running over hose, and keeping on the side of the street that the engine is located, followed by the Assistant Foreman and all the men, except those engaged at the engine. The man left at hind wheel will attach hose to engine and the driver will take his horses from the pole.

2. When the tender stops the two pipemen will unreel as much hose as the Foreman may direct, disconnect, attach the pipe and move with it under direction of the Foreman.

3. If the line of hose is ordered upon a roof the Foreman and as many men as may be required will ascend to roof, carrying roof rope, pipe, and axe, lower one end of rope to street, where it will be tied to hose by two half-hitches about five feet from first butt, hoist at least one length to roof, untie the rope and retie in the same manner around second or whatever coupling is at the cornice, slack the rope to let the coupling drop below the cornice, and securely fasten to scuttle, skylight frame or chimney. In hoisting lines of hose to roof, the work will be greatly accelerated by procuring a short ladder with roller carried on each hook and ladder truck.

4. The Assistant Foreman with all the spare men will station themselves along the line for the purpose of protecting the hose, conveying orders and messages to and from the engine, and to be in readiness to render assistance or execute any order given by their superiors. The Assistant Foreman will see that the men maintain their places, preserve order and silence, and execute orders promptly.

5. The driver of the tender will, as soon as the hose is uncoupled, station his tender near the engine without obstructing the street.

6. If a second line is required the Foreman will order the Assistant Foreman to direct the movements of the men and the tender in the manner above prescribed. If a man is called from his position on the line to perform some other service, he will upon its completion retake his station. If required the Foreman will order the Assistant Engineer of Steamer or Drivers to perform duty on the line or pipe.

7. The Foreman or commanding officer will always be near his pipe to direct movements of the pipemen, and to give the signals to start and shut off water and to regulate the force of stream. The pipemen will remain with the pipe until relieved by order of the Foreman.

8. When the order, "Start the Water," is given the Engineer will proceed as follows :

Open discharge gate and cylinder drain cocks.

Start the Engine by opening the throttle valve gradually. The opening and closing of the throttle valve will always be done gradually.

While working the engine the following rules will be observed :

Under no circumstances engage in conversation while the engine is running.

Keep the safety valve set to lift at a pressure of 80 pounds for ordinary work.

Regulate the feed so that the boiler shall be constantly supplied with water at the standard level, for all ordinary work. If the commanding officer order that the full power of the engine is required, and it is requisite to have more steam room, the water may be carried as follows: In tubular boiler never below line of second gauge cock; in pendant tube boiler, first gauge cock; double shell and coil boiler, first gauge cock. When the extra work is no longer required he will immediately increase the feed, and carry the water at the standard level.

Do not depend on the glass gauge, it is not always reliable.

Keep the tallow or oil cups above the cylinders and steam-chest well supplied.

Keep the engine well lubricated in all the working parts, and be careful to use oil freely on the link blocks.

See that no water accumulates in the cylinders.

The relief valve in main pump will be set to lift at a pressure of 75 pounds per square inch; but in case this pressure is not sufficient for the work to be performed, such as forcing water through a long line of hose or pipe in an elevated position, or when the full power of the engine is required, the pressure will be increased by order of the commanding officer, the lock will be applied to the valve of the spiral spring pattern, and of the elliptic spring pattern by screwing down hand wheel on top of valve. The pipemen will be notified of the fact, and if a controlling nozzle is on the pipe, it will not be shut off until the order has been sent, and the message returned that the Engineer has relieved the pump of the increased pressure.

If, after the engine has been working a long time, a strong pulsation in the hose, or a heavy pounding in the main pump should appear, the water should be blown from the pump, and air chamber recharged with air.

In case the water should foam in the boiler, immediately open the drain cocks on cylinders and steam chest; also open the furnace door, until the water falls to its level.

When the apparatus is placed at the river to draft salt water, the suction joints and all connections must be perfectly tight, feed valve branching from main pump closed, and relief valve seated before starting the engine. The boiler will be supplied with fresh water from line of hose, or from tank which may be filled with buckets temporarily.

Upon returning to quarters after working salt water, the engine will be connected to hydrant, and main pump thoroughly washed out.

9. Orders from the Foreman to the Engineer will be passed by the men stationed on the line when practicable.

10. The following terms will be used for the purposes indicated, viz. :

Start the Water: Shut Off: Work Slower: Work Faster: Light Up: Back Down: Back Out: Stretch In: Take Up.

The first four of these will be transmitted by signals when practicable, viz. :

Start the Water—Hold either hand above the head, the arm straight and perpendicular.

Shut off—Raise either hand above the head, and drop it as low as the shoulder, arm extended.

Work Slower—Raise either hand above the head, and move it from right to left and back.

Work Faster—Raise both hands above the head, drop them as low as the shoulders, the arms extended.

11. In transmitting orders by the voice, the number of the company for whom intended will be added to the order.

12. The command Back Down, means to retire a short distance from the position held by the pipeman; Back Out, to retire the pipe from the building altogether, but the line will not be taken up until the Foreman reports to and receives orders to that effect from the officer in command.

13. When the order Take Up is issued, the pipemen will disconnect the pipe, one of them returning it to its place on the tender; the hose will be disconnected from the engine, and the men along the line uncouple only as many lengths as will allow the water to drain out. If the line of hose has been extended to the roof, or up a stairway, the hose will be uncoupled near the building. The pipemen will detach the pipe, and if upon a roof, take the end of hose to edge of roof and lower it by hand gradually until all the weight is upon the rope, then unfasten the roof rope, and lower the hose gradually, throwing down the rope only after all the hose is on the ground. The driver will move the tender carefully along the line. The cranks will be adjusted and the hose reeled up as rapidly as possible.

14. The engine will be disconnected from the hydrant and prepared to return to quarters in the order and manner prescribed, taking care to place in fuel box all fuel not used.

#### VI.—Upon returning to quarters :

1. Draw the fuel in the furnace, and extinguish the fire remaining by the use of wet broom on the grate bars. Never throw in water, as it is liable to injure the shell of boiler by sudden contraction of the iron or steel plates, also to crack the grate bars.

2. Prepare the furnace with fuel, etc., as previously described.

3. Replace the wet or damp hose on tender with dry.

4. Wash the wood-work of the apparatus, and if the street-hydrant is used for that or any other purpose, to prevent waste the water must be turned off the instant it is not required.

5. After all preparations are made, the apparatus will be housed and the engine connected to heater. The apparatus will be examined after each run to see that all parts are in order.

VII.—Company commanders in whose quarters chemical engines are located, will see that they are always in order, tanks properly charged and ready for immediate use; and with regard to their care, will observe the same regulations as govern the other apparatus of this Department.

VIII.—All the foregoing rules for engine companies, that are applicable, will be adhered to in the care and use of hook and ladder trucks, in addition to which the following rules will be observed :

1. Remove the sponge from king-bolt oil box in centre of axle and saturate with oil at least twice each month.

2. Keep oil holes of pinion shaft of steering gear, also of fifth wheel and end bolts of springs, clear of grit, and lubricate after each run.

3. Keep all the tools in perfect order, and examine the ladders, guy ropes, etc., after use, to see that there is no defect in them.

4. Foremen of Hook and Ladder Companies will ride as near their drivers as possible, so as to direct their movements, and will not permit their apparatus to approach the location of a fire nearer than one hundred feet, nor allow it to be stopped in front of a fire-hydrant.

5. To systematize the handling and use of ladders and implements carried on the trucks of this Department, each hook and ladder company shall be drilled by its officers in the presence of their respective Chiefs of Battalion as often as may be practicable, but at least once in each calendar month, and the fact and date entered on the Company Journal.

6. The drills will take place early in the day, so as not to interfere with street traffic.

7. The truck will be placed in front of company quarters, or some convenient building in the immediate vicinity, or, if that be impracticable, it may remain in quarters.

8. The ladder exercises will be with ladders from 35 to 65 feet, and but one will be off the truck at the same time.

9. The movements will be executed slowly and with deliberation, so as to enable the officer to give detailed instructions, with a view of placing the men in the most advantageous positions.

IX.—The following rules in regard to the care of hose, hose couplings, play pipes and nozzles, will be observed :

1. The hose in use by this Department, is classified as follows :

Combination hose, is a combination of rubber and four (4) plies of cotton duck.

Cotton hose, is composed entirely of cotton yarn, knitted or woven of different thickness, one, two, three and four ply, and lined with rubber.

2. The hose towers generally are of sufficient height to accommodate a length of hose hanging its full length; the hose should be suspended by the male coupling, as the weight hanging on the female coupling is liable to injure the swivel.

3. Hose to be properly cared for, should always be dry on the reel of tender. Cotton hose when wet or damp, will in no case be allowed to remain on the reels more than twenty-four hours. Hose that has been on the tender two weeks without being used will be changed, and the fact and date entered on the Company Journal.

4. Hose after being in use at a fire and when returned to quarters, if only wet or damp, will be immediately hung up in the tower. If the hose is in a dirty condition from mud, etc., it will be washed clean, using a broom to scrub it if necessary, before hanging up.

5. When changing hose, before it is taken from the reel of tender, lower down from the tower all the hose that is to be put on, and couple the lengths together, seeing that the couplings and swivels are in perfect order, and all have proper washers. A small quantity of oil or tallow should be used on the threads and swivels, but not enough to run on the fabric or rubber, as oil will injure it. Then remove the wet or damp hose, and reel on the dry; the wet hose will then be hoisted in the tower. If any of the lengths are bursted, they will not be rolled up and set one side, but will be marked and hung in the tower until called for by the Repair Shop wagon.

6. In freezing weather the greatest care must be taken of the hose; if any surplus, or bursted hose should be taken from the lines, it must not be allowed to lay in the street, but be taken up, reeled on the tender, or carried in some building, where it will be protected from the weather until such time as the company is taking up.

7. When tenders are stretching in hose at fires they will be driven as near the curb-line as possible, the men will follow the tender and place the line on the side of the street on which the engine is located, until it is necessary for it to cross the street at the fire. In cases where more hose is unreel than may be necessary, especially in the vicinity of an engine (where it is generally curved across the street, rendering it impossible for an apparatus to pass that point without running over the line) it will be placed on the same side of the street, in front of, or behind the engine, and, if circumstances permit, the surplus hose will be taken out and the line straightened. Drivers of fuel wagons are also notified that it is not requisite in all cases to drive directly alongside of an engine to supply it with fuel, as each wagon carries boxes; they must use discretion, obtain the assistance

necessary to properly discharge their loads, and avoid, by all possible means, the crossing of lines of hose.

8. In taking up, the tender-driver shall not drive over hose nor permit them to be injured by shoes of horses. Lines of hose when near each other will be carried to the tender, which in no case will be driven where it cannot be turned without injury to hose.

9. None of the apparatus of this Department will be driven over lines of hose unless in case of absolute necessity; and in stretching a line of hose across railroad track or street, company commanders will immediately station some one at or near such crossing, whose duty it will be to warn off all vehicles, and to cause the immediate arrest of any person disregarding the same.

10. The following ordinance, approved June 8, 1880, is hereby promulgated for the information and guidance of the Department:

An ORDINANCE to prevent injury to hose in use by the Fire Department at fires, and to prevent interference with firemen in the performance of their duties.

The Mayor, Aldermen, and Commonalty of the City of New York do ordain as follows:

Section 1. The driver of any vehicle who shall drive any such vehicle over or across any hose in use, or about to be used, or while laying in the carriage-way after being used, in any street, avenue, or public place in the City of New York, by any portion of the Fire Department, for extinguishing any fire that may occur within the corporate limits of said city, shall be deemed guilty of a misdemeanor, and on conviction thereof before any police magistrate, shall pay a fine of ten dollars, or in default of the payment of such fine, by imprisonment, provided such imprisonment does not exceed ten days.

Section 2. The provisions of section 1 of this ordinance shall not apply to drivers of wagons carrying the United States mail; to drivers of ambulances, when conveying any patient or injured person to any hospital, or when proceeding to the scene of any accident by which any person or persons have been injured, or to any driver of any vehicle who may be permitted to drive over or across any such hose by the officer of the Fire Department in command of the force operating at any such fire, and under his direction.

Section 3. All ordinances or parts of ordinances inconsistent or in conflict with the provisions of this ordinance are hereby repealed.

Section 4. This ordinance shall take effect immediately.

11. The law not giving the Fire Department the authority over the wagons carrying the United States mail, the following arrangement has been made with the Postmaster of this city:

Complaint having been made by this Department of the practice of Drivers of U. S. Mail wagons driving over lines of hose at fires unnecessarily, the Postmaster of this city, to whom a communication from the Board of Commissioners on the subject had been referred by the Postmaster-General, states that the contractor has been directed to order his employees, in all cases, to make a detour around the scene of a fire unless their objective point is in close proximity; and he requests, in the event of a recurrence of annoyance from this source, that the date and hour of the occurrence, the number of the wagon, together with the direction in which it was moving, be promptly reported to him. For the purpose of complying with the request of the Postmaster, company commanders are hereby directed to forward to this office, through the proper channels, a special report in writing, as soon as possible after an occurrence of the kind referred to, containing the desired information.

12. Croton, steam, and chemical engine hose to be kept in perfect order, and couplings provided with washers.

13. Leather pipes to be examined after using, to see that the threads and swivel are in perfect order; when the leather becomes hard a little neat's foot oil and tallow will be used to make them pliable.

14. Brass pipes which are used for outside or street pipes should receive the utmost attention, as a dent in the pipe will affect the delivery of the stream to such an extent as to scatter the water.

15. Too much care cannot be taken of the nozzles, as a slight dent or rough surface in the nozzle at the discharge opening will prevent the delivery of a solid stream of water.

16. Officers and members are cautioned that in handling hose couplings, pipes and nozzles the utmost care must be observed, as a slight dent in either renders them valueless for the purposes intended.

17. After working salt water the hose, pipes, and nozzles will be washed out with fresh water.

X.—The following rules will be observed for the care and use of fire extinguishers:

1. The fire extinguishers issued to companies will always be kept in the following positions, ready for immediate use: those located in company quarters in a convenient place near the front doors, those carried on the hook and ladder trucks on the forward part of the reach.

2. The charge necessary for an ordinary fire extinguisher is about three (3) pounds of bi-carbonate of soda, and one (1) pound of acid; the charges are issued in packages, the soda in tin box and the acid in glass bottle. Extra charges will always be kept on hand in company quarters.

3. To use the extinguisher turn the wheel on top to the right as far as it will go, or until the acid bottle breaks, and the machine is ready to play.

4. To charge the extinguisher: If any gas or liquid remains in the machine, allow it to escape through the pipe; turn the wheel on top to the left as far as it will go; unscrew head from extinguisher by handles, remove the parts of broken acid bottle and thoroughly rinse the machine with water; dissolve the soda in water, pour the solution into the extinguisher, and fill it with water to within three (3) inches of the opening or top; place the corked glass bottle of acid carefully into the cup of extinguisher head, and put the cap over the neck, insert in the extinguisher, and screw the head down hard and tight; the machine is then charged ready for use; if the extinguisher is exposed to freezing weather, four (4) pounds of table salt, dissolved in water will protect it to nearly zero. Be sure and dissolve the salt in water before putting it into the machine.

XI.—The calcium light carried on the reach of hook and ladder trucks, consists of the following, viz.:

Two cylinders, one reflector, piece of lime and rubber tubing. One cylinder is charged with hydrogen gas and marked H, the other with oxygen gas and marked O.

The following directions will be observed for lighting and working the calcium light, viz.:

1. Fit the lime in the cup, see that it is straight.

2. Connect rubber tubing on reflector to the coupling on cylinders; see that the connections on the cylinders and reflector are air-tight.

3. Turn on the hydrogen gas, until you get a flame as large as a good sized gas jet.

4. Then turn on the oxygen gas slowly until you produce the light required. Turn the lime about one quarter every ten minutes.

5. Too much oxygen dulls the light, little red pointed jets of flame should always show around the lime.

6. If the light should snap out, shut off both cylinders, disconnect the tubing, blow through it; connect again, and proceed the same as at first, but use a little more hydrogen gas.

7. In shutting off the light, turn the oxygen gas off first.

XII.—Danger signals for warning engineers of elevated railroad trains will be carried on each hook and ladder truck, and will consist of two (2) red flags, to be used for day time, and two (2) globe hand lanterns with red glass for night time.

In case of fire in a building, located on any street or avenue, which is occupied by the elevated railroad tracks, and it is deemed necessary by the officer in command of the fire to not allow the trains to pass, either for the purpose of the force working from the tracks or that it would be dangerous for the trains, a danger signal will be displayed on each track at a distance of not less than one hundred (100) yards from the fire, and immediate notice will be sent to the persons in charge of the first station in each direction, that the trains must not pass until, in the judgment of the officer in command, it is safe for them to do so, when the danger signals will be removed.

XIII.—A respiring apparatus having been adopted for service at fires, and placed in charge of the hook and ladder companies, the officers and members of the Department are directed to use them on all occasions where it may be deemed necessary to enter premises charged with dense smoke, and where it is impracticable to enter without some protection.

1. The following directions will be observed in preparing the apparatus for use:

The mouth-piece at the end of the two rubber tubes of the air-bag is introduced into and hermetically connected at the nozzle of the bellows, which can then be quickly filled with air by rapidly working the bellows.

When the bag is filled with air, care must be taken to prevent its escape, by bending or doubling the tubes or by closing the mouth-piece by means of a cork.

The bag is then placed on and fastened to the back of the person designated to use it, by means of the straps provided for the purpose.

The mouth-piece is inserted between the teeth, and the lips closed around it.

The eyes are protected by glass goggles, and the nostrils are closed by a spring clip.

The pressure on the rubber tubes must then be removed.

The apparatus is now ready for action, the air contained in the bag being sufficient to sustain respiration for from twenty to twenty-five minutes.

Should the wearer feel his breath becoming quickened, he will return, but without haste or fear, there being no occasion for either, as the apparatus will certainly sustain him for an additional five minutes in the most suffocating smoke.

2. Company commanders are hereby directed to designate one member of their commands (generally the driver or the man who may be left in charge of the apparatus) whose duty it will be to prepare the respirator for use whenever there is any indication or notice of its being required.

3. A small rope and two whistles are furnished which will be used for the following purposes:

The rope will be known as the "life-line," and whenever an officer or member enters a building with the respirator, it will be attached to the arm or wrist and payed out by him as he progresses, or coiled up, so as to be used as a guide on returning.

An officer or member, designated for the purpose, will be stationed outside, or when practicable, at a safe and convenient distance inside of the building, whose duty it shall be to remain in that position, and hold the outside end of the line until the return of the man with the respirator.

The line should be held as taut as practicable without interfering with the movements of the wearer.

The whistle is a rubber globe with a valve attached and is worked by pressure of the hand.

The following signals will be observed:

Two (2) Sounds of the Whistle, or pulls or jerks of the life-line will denote, from the outside, "come out."

Three (3) Sounds will denote "I am returning."

Four (4) " " "All right, or I understand."

Five (5) " " "An additional respirator is required."

Rapid or continuous sounding of the whistle or pulling or jerking of the life-line, will denote, "I have fallen," "I am fastened," or indicate that assistance is required.

XIV.—The water-tower or portable stand-pipe is an appliance for elevating and directing streams of water into upper stories of high buildings.

1. It consists of carriage and platform with four sections of iron pipe, with couplings, play pipes, six nozzles from 1½ inches to 2½ inches diameter, and four 2½-inch inlets to receive the water. The first or lower section of the pipe is mounted on the platform permanently on trunnions, the other three sections are carried on a side rack.

The sections are of the following lengths, viz.:

First or lower section, 14 feet 6 inches.

Second section, 12 feet.

Long-pipe section, 19 feet, which when connected to second section is the maximum height of tower, 46 feet, not calculating the play-pipe.

Short-pipe section, 5 feet 3 inches, which when connected to second section is the minimum height of tower, 32 feet, play-pipe not included.

2. Directions for placing the tower in position for work:

Unhitch the horses from the pole, and if the grade of the street renders it necessary level the platform by means of jack-screw located on high side in front of hind wheel; after the platform has been adjusted by the screw, clamp the spindles running through the split sleeves on the three other corners.

Drop the chocks from inside of frame to springs, and place grapling chains around axles to frame.

Remove second section from rack, and insert sleeve into socket of first section; be sure the joint is up to its seat, then screw up the coupling.

Throw up the jointed stanchion on upper end of first section, remove third section from rack, insert the sleeve of third section into socket of second section, be sure the joint is up to its seat, and that the open side of the hood of play-pipe is on a direct line with stanchion of first section, then connect as above.

Fasten one end of wire cable to the first section of pipe, just above the trunnioned sleeve, the other end to hook near the extreme end of third section.

Throw up to a vertical position the two jointed stanchions, one at the upper end of the first section, the other at the lower end of the third section, with the rollers supporting the wire cable, and the pipe is rigidly braced.

Run out wire cord which controls the play pipe and hook the same to swivel of nozzle.

Elevate the pipe by means of hand-wheel at the rear of platform.

Connect the lines of hose from engines to swivel connections at lower end of pipe; if but two lines are used, connect them to the plain couplings, not to the gate connections.

The force of the water will elevate the play-pipe. The wire cord leading from the nozzle is wound on a drum-wheel, and to depress the pipe to any angle required turn wheel by the handle which will always be done gradually.

By turning the hand-wheel of the worm-shaft, which revolves the pipe on its axis, the stream can be delivered in any direction.

If more pressure is required than is used for ordinary work, adjust the counter-weights by placing the arms in brackets and hanging the weights on the hooks.

If the water-pressure is increased suddenly, or if the pressure is more than the tower will safely stand, allow the drum-wheel to pay out gradually the wire cord that depresses the pipe, which will allow it to raise; this removes the resistance and takes the strain from the tower.

XV.—The wrecking truck is an auxiliary machine, to be used for pulling down dangerous walls, etc., and is provided with the following implements, viz.: blocks with tackle, leading blocks, leading chains, sling ropes, ground eye bolts, crowbars, sledges, picks and axes.

Also geared windlass, to use which the truck is made stationary, and the ropes brought to any given point by the use of leading-blocks.

In case it is necessary to attach a sling to a wall or chimney, and it is not practicable to use ordinary ladders, the aerial ladder will be used.

When it is necessary to demolish walls, the greatest care will be taken not to damage the ladders, and when practicable old ladders will be used, a stock of which is always on hand.

XVI.—Care and use of fuel wagons:

1. The Foremen of companies having fuel wagons in their charge will be held responsible for their condition.

2. While standing in the fuel depots they will always be in order and loaded with coal, and kept clean, the axles greased as often as the foregoing rules prescribe for apparatus.

3. Should a fire be likely to last more than one-half hour, the foreman of the company arriving first at the fire will immediately dispatch his driver and team to the nearest fuel depot and procure the wagon; the coal will be distributed among the companies requiring it.

4. In case a still further supply is required the chief officer in whose district the fire occurs, will detail a sufficient number of men to accompany the wagon to the depot and load it promptly.

5. In case of a long working fire where a great quantity of coal is used, the teams will be changed frequently.

6. When no more coal is required the wagon will gather up any surplus fuel that remains on the street, and convey the same to the depot, when the wagon will be immediately loaded and made ready for instant service.

XVII.—The following are the numbers and locations of Fuel Depots, that are provided with wagons:

No. 1—5 Duane street.

No. 2—160 East Thirty-third street.

No. 3—106 East Thirteenth street.

No. 4—Quarters Engine Co. No. 18.

No. 5—304 West Forty-seventh street.

No. 6—84 Attorney street.

No. 7—28 Beaver street.

No. 8—209 East One Hundred and Twenty-second street.

No. 9—Quarters Engine Co. No. 24.

No. 10—304 Washington street.

No. 11—173 Elm street.

No. 12—Quarters Engine Co. No. 19.

No. 13—Quarters Hook and Ladder Co. No. 2.

No. 14—Quarters Engine Co. No. 22.

XVIII.—The following instructions relative to the care of fire hydrants will be observed:

1. Hand pumps to be used during the cold season, for the purpose of relieving hydrants of all the water remaining above the valve, have been furnished to the companies, and the manner of using the pump will be as follows: after using a hydrant, close the valve tightly, in order to shut the water entirely off, insert the suction tube of the pump into the nozzle, and force it down the stock; stand upon the foot-board of the pump, and gently work the plunger. In order to remove all the water from the stock, the strainer of the suction must in all cases reach the valve of the hydrant, and when pumping out hydrants in which the valve is six feet below the nozzle, after all the water is removed as far down as the suction reaches, when the pump is standing on the ground, it will be necessary to raise

it to the nozzle of the hydrant, and to put all of the suction into it, to make certain that the water above the valve is entirely removed. The above directions will always be observed. During the cold season, after hydrants have been opened and used by the officers or members of the Department, and as soon as practicable after working fires, the commanding officers of companies in whose districts hydrants are located which have been used, will cause an inspection of the same to be made, with a view to ascertaining if they are in good order and that the water has been properly pumped out of them. In very cold weather, and when found necessary, the pump may be thawed out with steam from the engine before using it.

2. A large hydrant-wrench has also been furnished, which will be used to effectually close the valves of hydrants, which an ordinary wrench has failed to do; and it must be used with the utmost care, to avoid injuring the thread of the valve stem and in that manner rendering the hydrant useless.

3. The pump and large wrench will be carried by all steam engine companies in such a manner as to secure it from injury.

4. Reports of operations at fires will state the condition of hydrants taken, and, if found out of order, the cause and particulars, in order that appropriate action may be taken to have them put in working order. In making these reports, as well as in the reports of inspections of hydrants, it will not be necessary to make mention of defects which do not interfere with the workings of this Department.

5. In closing the valve it may happen that it does not properly seat itself, and this is indicated by the dripping of water from the nozzle. This is often caused by gravel-stones or other obstruction getting on the valve, thus preventing it from seating. In such cases the valve should be opened full, when the flow of water will generally remove the cause of the difficulty. In other cases, where the hydrant has settled out of perpendicular, causing the valve to come toward the seat in an imperfect way, the valve should be opened slightly, and then closed again, which, in most cases, will remedy the difficulty.

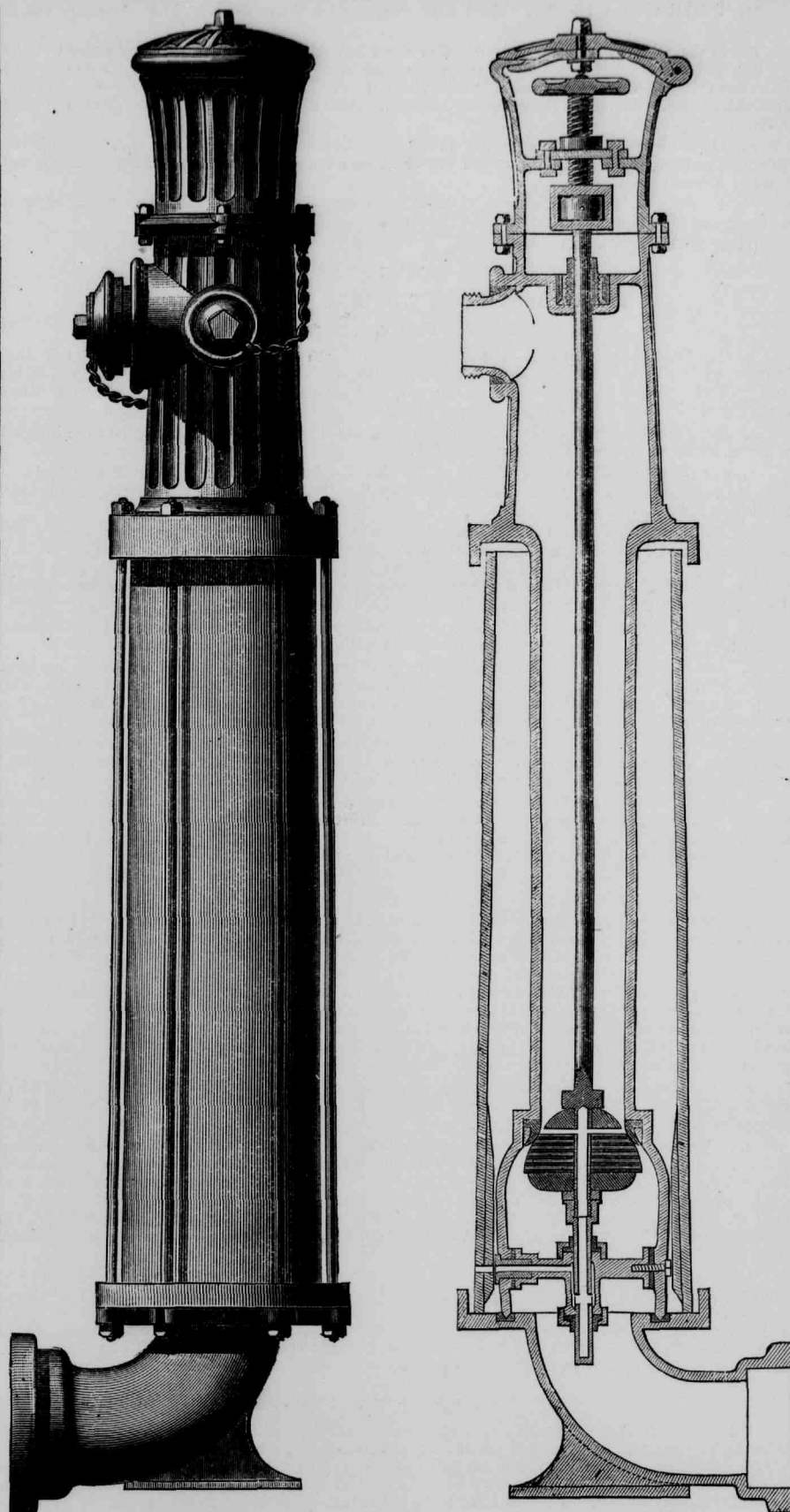
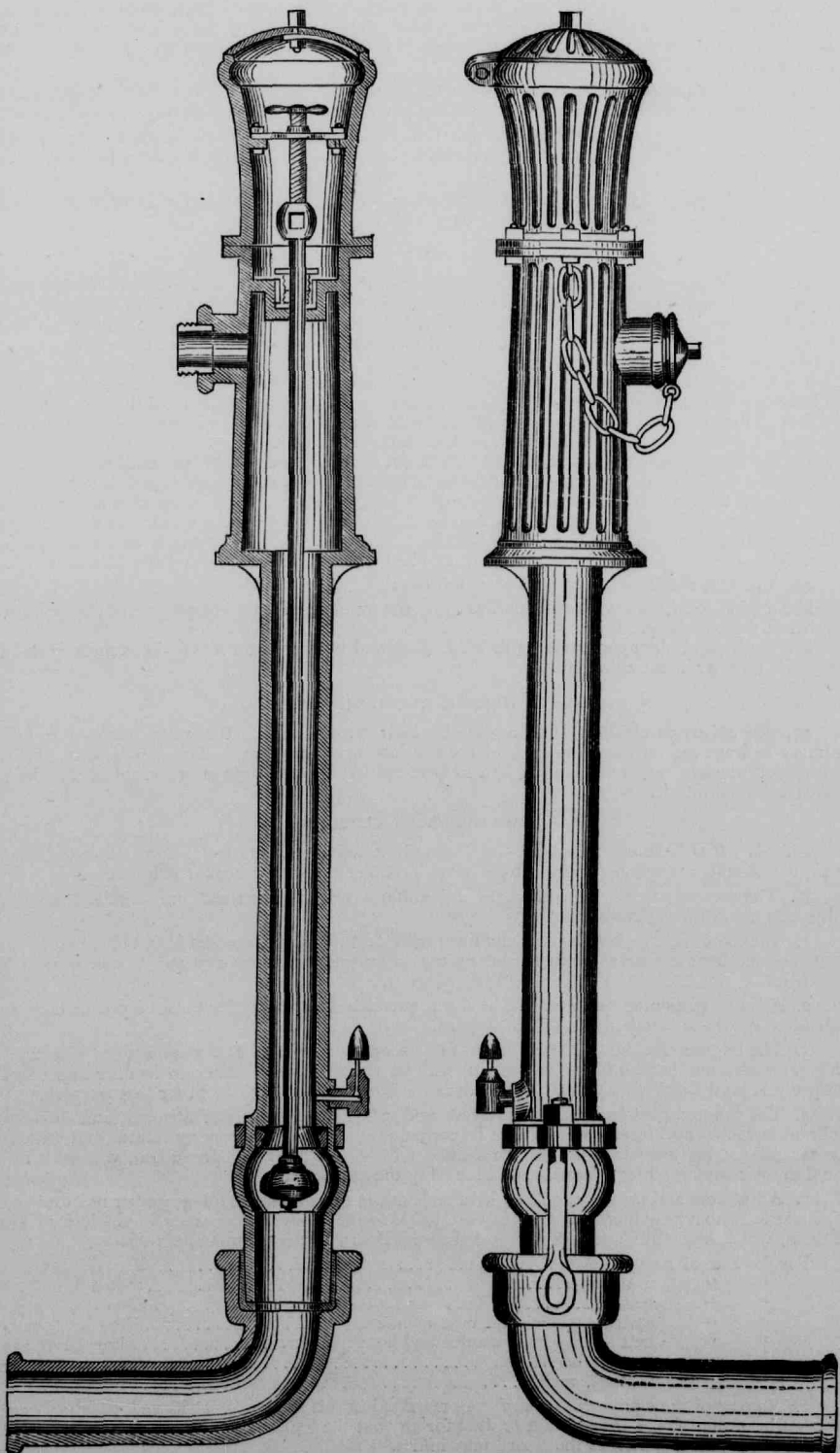
6. There are several style of fire-hydrants in use in the city, the greater number being of the "Ayres" pattern, numbered 1, 2 and 3, respectively. These numbers designate the length of stock, or the distance from the nozzle to the valve:

No. 1, measuring 5 feet from the nozzle to the valve.
No. 2, " 4 " " "
No. 3, " 3½ " " "

The stocks of these hydrants are three (3) inches in diameter, with a rod or valve-stem of ¾-inch iron running through them, the radius between the rod and internal part of the stock being, therefore, but 1½ inches. In pumping the water from this style of hydrant, it will be necessary to insert the suction of the pump carefully, as it may strike and lodge on the shoulder, where the stock connects with the hydrant at the surface of the pavement; with a little care and patience the pipe can, however, be started down between the rod and the side of the stock, after which there will be no trouble in lowering it down to the valve.

7. Hydrants marked with the letter "A," measure 6 feet from the nozzle to the valve, and the diameter of the stock is 3½ inches. Hydrants marked with the letter "B" have double nozzles, and measure 6 feet from the nozzle to the valve, and the diameter of the stock is 5 inches. Those known as the "Tracy" hydrants are located on the cross streets, west of Broadway, between Canal and Fulton streets, have double nozzles, and measure 4 feet from the nozzle to the valve, the diameter of the stock being 7 inches. The "Victor" hydrant, of which there are a few in use in different parts of the city, are described as follows: No. 1, a single-nozzle hydrant, with double cap, measures 5½ feet from the nozzle to the valve, and the diameter of the stock is 5 inches; No. 2, a single-nozzle, measures 5½ feet from the nozzle to the valve, and the diameter of the stock is 3 inches.

8. The subjoined plates will illustrate elevations and sectional views of the "Ayres" pattern and of the "Johnson" pattern, the latter known as the "B" hydrant.



XIX.—Any and all accidents, collisions, etc., however slight, occurring to the officers or men of this Department, or to citizens, the apparatus, horses, implements, public or private vehicles, etc., will be reported through the proper channels to the Chief of the Department, as follows:

1. Those occurring while proceeding, at work, or returning from fires, will be noted on the company report of operations at fires, in addition to which in case a person is injured, a special report by the company commander.

2. Those occurring at any time (except as provided in preceding paragraph) whether in or out of quarters, a special report by the company commander.

3. If the damage to property is considerable, or injuries to persons are serious, the Chief of Battalion will without delay investigate and make a special report, including the amount of damage or extent of injury, with his opinion thereon.

XX.—Chiefs of Battalion will be held responsible for the spare apparatus located in their districts, and see that they are kept in proper order and ready for immediate use, and if any of such are placed in service, or are at any time unfit for use, it will be their duty to immediately notify the Chief of Department, by telegraph or otherwise, of the fact, also when the apparatus is returned, so that a correct list of spare apparatus can be kept at the office of Chief of Department.

After using spare apparatus, and when the same are no longer required, the commanding officer of any such company will see that they are returned promptly, and he will detail a man to clean the same at the place it is deposited. He will also be responsible for all the implements, tools, etc., which was with the apparatus when taken to the quarters of his company, and will see that they are all returned.

XXI.—Chiefs of Battalion will name a day in the week for the respective companies under their command to clean the quarters and apparatus, and if possible not allow adjoining companies to clean on the same day. After the days have been designated, a list of the same will be forwarded to the office of Chief of Department.

XXII.—In making out the reports of operations at fires, commanding officers of companies will give the following particulars, viz.:

1. At what time, and in what manner the alarm was received.
2. What time was consumed in hitching up and getting to the hydrant, also its location. If there was any delay, state how long, and its cause.
3. In what condition the hydrant was found, also the water pressure.
4. State what officer reported to, and what orders were received.
5. What time was consumed in stretching in and getting a stream on the fire. If there was any delay, state how long and its cause.
6. State where the pipe was taken, and by what means, stairway, ladder, etc., and at what points, and how long the stream was kept on the fire at each point.
7. Was the supply of water good or otherwise. If not good, the reason.
8. If there was any delay after the engine got to work, from bursting hose, or other accidents state the time and cause.
9. State the number of feet of hose in line, size, and style of nozzle used. Also, the highest and average water pressure at the pump of engine.
10. If hose burst, state number of lengths, kind, trade-mark, pounds' pressure, and date of issue.

11. Total time stream on fire. Total time company on duty at fire. Time company out of quarters.

12. In the columns of remarks, if first due at station, state whether the company arrived at the fire first, and was the first to get water on, and in case of any failure so to do the reason therefor. If the fire was confined to the point of starting, and if not so confined, the reasons therefor. Under what chief officer's command the company operated. Also if accident happens, the particulars and cause.

13. On the backs of the reports, the number of officers and men that left quarters with the apparatus and the number on duty at the fire or alarm; the absentees accounted for by name, and cause of absence stated.

14. Foremen of hook and ladder companies, in making their reports, will adhere to all parts of the foregoing that applies to that arm of the service.

(General Orders No. 21.)

#### BILL OF DRESS FOR THE UNIFORMED FORCE.

##### FIRE CAP.

1. *For Chief of Department.*—A white leather cap with eight cones, having a gilded leather front depending from a gilt eagle head and attached to the front of the cap, with the insignia of his rank painted upon it in black shaded with red, and above the word "Chief," in black letters shaded with red upon a scroll of gold, as per pattern.

2. *For Assistant Chief of Department.*—Same as for the Chief of Department, with the insignia of his rank above the words "Assistant Chief."

3. *For Chiefs of Battalions.*—Same as for the Chief of Department, with the insignia of their rank above the words "Chief (of such a Battalion)," the number of the battalion being indicated by a large figure, as per pattern.

4. *For Officers of Engine Companies.*—Same as for the Chief of Department, except that it will be of black leather and have a white patent leather stitched front, with the number of the company cut out of it, near the bottom, in plain block figures on a background of black patent leather (three and one-half inches long if it be a single figure and two and one-half inches long if it be a double figure), and with the insignia of rank above it in gold, shaded with red.

5. *For Officers of Hook and Ladder Companies.*—Same as for officers of engine companies, except that the number of the company will be on a background of red patent leather.

6. *For Engineers and Assistant Engineers of Steamer.*—Same as for officers of engine companies, omitting the insignia of rank and except that the front will be of black patent leather, with the number of the company on a background of white patent leather, and the word "Engineer," or "Ass't Eng'r," in white letters three-quarters of an inch long painted on a line below.

7. *For all other members of Engine Companies.*—Same as for Engineers and Assistant Engineers of Steamer, except that for the word "Engineer" or "Ass't Eng'r," the registered number of each member, in figures one inch in length, will be substituted.

8. *For all members of Hook and Ladder Companies.*—Same as for officers of Hook and Ladder Companies, omitting the insignia of rank and except that the front will be of red patent leather with the number of the company on a background of white patent leather, and the registered number of each member in white figures one inch long painted on a line below.

##### FATIGUE CAP.

9. *For Chief of Department.*—Of United States Navy pattern, made of dark blue cloth, pure indigo-dye, with band one and one-half inches, and quarters one and three-quarters inches high, stiffened with hair cloth sewed into the seam of top and quarters; the top to have a small hole for ventilation in centre, and to be lined with red silk; a narrow welt round the bottom of band and top seam of cap; the inner band to be of strong, serviceable leather; the visor to be plain solid black patent leather, two inches wide with rounded corners; the chin strap of black patent leather one-half inch wide, with slides of the same material, fastened to the cap on each side with a small regulation button; the insignia of rank, as prescribed, to be placed on the quarters in centre of the front, the lower points resting nearly upon the upper edge of band.

10. *For Assistant Chief of Department, Chiefs of Battalion and Company Officers.*—Same as for the Chief of Department, except the insignia of rank, which shall be as prescribed for them respectively.

11. *For Engineers of Steamer and Assistant Engineers of Steamer.*—Same as for company officers, omitting the insignia of rank and substituting therefor a white metal badge, as per pattern, two and three-quarter inches long and two inches high, with a self-propelling steam fire-engine in an oval, one and one-quarter inches high and two and one-eighth inches long in the centre, surrounded with an ornamental border, with the word "Engineer," or "Ass't Engineer," at the top, and the company number in figures below, to be fastened to the cap with an eye under each end, the lower edge resting upon the upper edge of band.

12. *For all other Members.*—Same as for company officers, omitting the insignia of rank and substituting therefor a white metal maltese cross two inches square, with the letters "F. D." on the top arm, the letters "N. Y." on the lower arm, a hook and ladder crossed on the right arm, and a hydrant on the left arm, and with the registered number of each member in figures three-eighths of an inch long on a black ground, in a circle one inch in diameter in the centre. To be fastened to the cap with an eye under each side arm, the lower arm resting upon the upper edge of band.

##### HATS FOR SUMMER WEAR.

13. *For all Officers.*—Of white Mackinac braided straw (braids about one-half an inch wide), sides slightly tapering to crown and about four and one-half inches high, with black ribbed silk ribbon band seven-eighths of an inch wide, tied in a single bow knot on left side; brim about two and one-half inches wide, bound with seven-eighths inch black ribbed silk ribbon; the sweat band to be of leather about two inches wide, and the inside of the hat to be lined with gauze.

14. *For all other Members.*—Of brown Mackinac braided straw (braids about five-eighths of an inch wide), sides about three and one-half inches high, slightly tapering to crown, with black ribbed silk ribbon band one and three-quarters of an inch wide, tied in a single bow knot on left side; brim about two and one-quarter inches wide, bound with seven-eighths inch black ribbed silk ribbon; the sweat band to be of leather about one and one-half inches wide; the bottom of crown to be lined with paper. The registered number in figures of German silver five-eighths of an inch long, fastened on a strip of black patent leather, to be sewed on the front of the band.

##### COAT.

15. *For the Chief of Department.*—A double-breasted close fitting sack coat made of dark blue cloth, pure indigo-dye, weighing not less than twenty-four ounces to the yard; cut to button close to the neck with rolling collar, and to reach to a point midway between the hip joint and bend of the knee; to have eight medium size regulation buttons on each breast, grouped in pairs; the cuffs to be made to fit the wrists and to be closed with three small regulation buttons; to have a pocket on the inside of each breast; the sleeves to be cut so as to be conveniently worn inside of the overcoat; the coat to be lined with red cloth or flannel, and the sleeves with linen. The prescribed insignia of rank to be placed in the end of collar on each side.

16. *For Assistant Chief of Department and Chiefs of Battalion.*—Same as for the Chief of Department, except that the buttons will be placed equidistant, and that the insignia of rank will be as prescribed for them respectively.

17. *For Company Officers.*—Same as for the Chief of Department, except that the buttons will be seven in number on each breast, placed equidistant, and that the insignia of rank will be as prescribed for them respectively.

18. *For Engineers of Steamers and all other Members.*—Same as for company officers, except that it will be single-breasted and have six buttons.

19. *For Summer Wear.*—A coat may be worn made of dark blue flannel, indigo-dye, and in all other respects above prescribed for the various grades, but without lining.

##### OVERCOAT.

20. *For Chief of Department.*—A double-breasted frock coat with rolling collar, made according to pattern at Headquarters, with lap seams; of best dark blue pilot cloth, pure indigo-dye; weighing twenty-eight ounces to the yard; in length, to reach to the knee; to button up close to the neck with eight large regulation buttons on each breast, grouped in pairs, three on each skirt behind, and three of small size on each sleeve at the cuff; the skirt to be open behind; no outside pockets, but one inside on each breast; the skirts and back to be lined with red cloth or flannel; the sleeves to fit snugly at wrists and to be lined with linen.

21. *For all other Officers and Members.*—Same as for the Chief of Department, except that there shall be five regulation buttons on each breast, placed equidistant.

##### VEST.

22. *For all Officers and Members.*—A single-breasted vest, made of the same material as the coat, without collar, and to button with six small regulation buttons to within five inches of the neck band.

23. *For Summer Wear.*—A vest may be worn made of light cloth or flannel, dark blue, indigo-dye, and in all other respects as above prescribed.

##### TROUSERS.

24. *For all Officers and Members.*—To be made of the same material as the coat, with lap seams; to be cut to fit close around the waist, but loosely around the hams and legs to admit of their free use.

25. *For Winter or Summer Wear.*—Trousers may be made of a heavier or lighter material of the same color and dye, in the manner above prescribed.

##### SHIRT.

26. *For all Officers.*—To be of white linen or muslin, with turn down collar.

27. *For Engineers of Steamers and all other Members.*—To be of dark blue flannel, double-breasted, with large rolling collar.

28. *For Summer Wear.*—To be of same color but may be of lighter material, single-breasted with rolling collar.

##### CRAVAT.

29. *For all Officers.*—A narrow necktie or bow of black silk, tied in a flat knot in front, the ends to extend not more than three inches from the knot.

30. *For Engineers of Steamer and all other Members.*—Of black silk, to pass once around the neck and tie with double bow and flat knot in front, the ends to extend not more than three inches from the knot.

##### INSIGNIA OF RANK.

31. *For Chief of Department.*—Five trumpets measuring one and five-sixteenths inches each crossed with bells outward and projecting beyond mouth pieces so as to form a design one and one-half inches in diameter, to be embroidered in gold upon a circle of dark blue cloth.

32. *For Assistant Chief of Department.*—Same as for the Chief of Department, except that there shall be three trumpets, measuring one and one-half inches each, crossed with bells downward.

33. *For Chiefs of Battalion.*—Same as for the Assistant Chief of Department, except that there shall be two trumpets, embroidered on an oval of dark blue cloth.

34. *For Foreman.*—Same as for Chiefs of Battalion, except that the trumpets are to be parallel, with bells downward and close together, embroidered in an oval of cloth, dark blue for engine, scarlet for hook and ladder companies. The insignia for the cap is to have the number of the company embroidered in gold midway between the trumpets, which are to be placed three-eighths of an inch between bells.

35. *For Assistant Foremen.*—Same as for Foremen, except that there will be only one trumpet. The insignia for the cap to have the trumpet placed horizontally, the bell to the left and the number of the company embroidered in gold above the centre.

##### COAT BADGE.

36. *For Engineers and Assistant Engineers of Steamer.*—A white metal maltese cross two inches square with the letters "F. D." on the top arm, the letters "N. Y." on the lower arm, a hook and ladder crossed on the right arm, and a hydrant on the left arm, and with the company number in figures three-eighths of an inch long on a black ground, in a circle one inch in diameter, in the centre. The whole badge to be two inches from point to point of arm, and to be fastened with a pin and improved catch.

37. *For all other Members.*—Same as for Engineers and Assistant Engineers of Steamer, except that the registered number of each member is to be substituted for the company number in the centre.

##### BUTTONS.

38. *For Chief and Assistant Chief of Department and Chiefs of Battalion.*—To be of white metal with gilt face, of the following description:

39. *For Overcoat (except the cuffs).*—To be round one inch in diameter, with convex roughened face, having the initials "F. D." in block letters one quarter of an inch high in the centre, the words "City of" at the top and "New York" at the bottom in block letters one-eighth of an inch high, near and parallel to the rim around the button, which rim is to be bright and about one-sixteenth of an inch wide; the button to be attached to the coat by means of an eye of white metal wire securely fastened to it.

40. *For Coat (except the cuffs).*—Same as for overcoat, except that it is to be three-quarters of an inch in diameter, with the dimensions of all the parts described proportionately reduced in size.

41. *For Vest, Cuffs of Coat and Fatigue Cap.*—Same as for overcoat, except that it is to be five-sixteenths of an inch in diameter, with the dimensions of all the parts described proportionately reduced in size.

42. *For Company Officers and all other Members.*—Same as for the Chief of Department, except that the buttons are to be of white metal throughout.

##### BELT.

43. *For all except Officers.*—To be of heavy belt leather, one and one-half inches wide, fastened at the front with strong metal belt plate, nickel plated, three and one-half inches long and two and one-quarter inches wide, with "F. D. N. Y." in three-quarter inch fire gilt raised block letters, in one line in the centre, and fastened with substantial snap and hook firmly put on plate, the eye-piece of same material and corresponding width, permanently secured to the left end of belt, which is to be adjustable to size of waist by means of a substantial brass wire buckle on the right end, and have two leather slides between the plate and buckle; a one-inch leather holding strap fitted to belt next to the eye-piece, is to be securely sewed double-loop shape, so as to freely slide on belt in lower loop and be riveted above and below belt, with an iron ring, nickel plated, one-quarter inch thick and one and three-quarter inches in external diameter, securely sewed into the small loop above the belt in lower part of strap; a strong metal spring snap two inches long, nickel plated, is to be securely sewed in with the back of the snap to the rear when hanging down. The strap with ring and snap, to be eleven inches in extreme length. A frog made of one-inch belt leather, made to slide freely on belt with leather loop one-half inch below belt for holding the hydrant wrench and hose spanner, described in the next succeeding paragraph, is to be placed on the belt behind the holding-strap.

44. The belt is to be plainly marked as follows:

For engine companies with an E. followed by the number of the company and the member's number in the company.

For hook and ladder companies with H. L. followed by the number of the company and the member's number in the company.

##### HYDRANT WRENCH AND HOSE SPANNER.

45. *For all except Officers.*—Of five-eighths inch wrought iron, the wrench made to fit the ordinary hydrant cap nut, and the spanner the standard hose coupling. The whole to be nine and three-eighths inches in extreme length, and to have the letters and figures as prescribed for the belt plainly stamped into it.

##### WATER-PROOF CLOTHING.

46. *For all Officers and Members.*—A double-breasted black rubber coat to extend below the knee, black rubber leggings, heavy rubber boots, and black rubber cover for fatigue cap.

II. The several parts of the equipment and uniform herein prescribed are obtained and held subject to the following rules:

1. The buttons, cap badges, hat numbers with leather strips, coat badges, belts, and hydrant wrenches and hose spanners, are furnished by the Department without expense to the officers and members.

2. All the remaining parts of the uniform prescribed in this order must be procured by each individual officer or member at his own expense.

3. The buttons (for not to exceed three full suits), cap badges, and coat badges (for firemen and privates), and hat numbers and strips, will be issued to each officer or member direct by the Property Record Clerk who will charge them in the book provided and kept for that purpose.

4. The cap and coat badges for engineers and assistant engineers of steamer, and belts and hydrant wrenches and hose spanners, will be carried on the company property returns and issued by the several company commanders to the members for whom they are prescribed, who will return them to their commanding officer in case of leaving the company.

5. All officers and members will be held responsible for the safe keeping, proper use, and return of the articles above enumerated, and they are liable to the following penalties for the loss of either of them, which loss will be promptly reported to the Board by the commanding officer.

For the loss of a cap badge.....	Five dollars.
" " coat badge.....	Five dollars.
" " belt.....	One day's pay.
" " hydrant wrench and hose spanner.....	Two days' pay.
" " belt and hydrant wrench and hose spanner.....	Three days' pay.
" " hat numbers.....	Twenty-five cents.
" " buttons, each.....	Five cents.

6. No part of the equipment or uniform prescribed in this order is to be loaned to other persons whether in or out of the Department or used for any but the legitimate purposes of the same, under penalty of such punishment as the Board may inflict.

## III. The uniform herein prescribed shall be worn as follows :

1. *On House Watch*—The uniform (vest optional), trousers, shirt, cravat, fatigue cap, or hat, gloves, and coat badge pinned on left breast.

2. *At the Eight O'clock A. M. Roll Call*.—The same as when on house watch, and in addition thereto the belt and wrench.

3. *In Apparatus Room when not on House Watch or other Special Duty*.—The uniform coat (vest optional), trousers, shirt, and cravat will always be worn except while at work cleaning apparatus, horses, quarters, etc., when old clothing may be worn.

The purpose of this regulation is that the officers and members of the Department may at all times, except when in the performance of necessary labor in quarters, appear in proper dress.

4. *In all other Parts of Quarters*.—When not on house watch or other special duty, the uniform may be dispensed with.

5. *On Special Duty Outside of Quarters*.—The fatigue cap or hat, uniform coat (overcoat in cold weather, vest optional), trousers, shirt, cravat, and always in wet weather the water-proof clothing. The coat badge pinned on the outer garment over the left breast.

6. *At Fires*.—The fire cap, belt and wrench (outside of all clothing) and overcoat or water-proof clothing must invariably be worn, unless circumstances should make it impracticable to do so; no other portion of the uniform will be insisted on. The water-proof clothing is considered essential to the preservation of health and to the free and unimpeded motion of the fireman, especially during the cold season.

IV.—Whenever the uniform is worn it must be in an unsoiled condition, with buttons and badges well polished, boots well blackened, and coat buttoned to the neck. Commanding officers are charged with seeing to it that no member leaves quarters or goes upon house watch who is not in all respects in the condition prescribed, and that all extra clothing is thoroughly aired at least once each week. While in uniform, in or out of quarters, hands will be kept out of pockets. Violation of this rule relative to the manner of wearing the uniform will subject the offender to a fine of one day's pay.

V.—No officer or member, whether in uniform or not, shall smoke upon the apparatus floor or in the dormitory of quarters; or in the streets or public places when in uniform.

VI.—Privates appointed in the Department, or officers or men promoted, shall equip themselves with proper uniform according to bill of dress within ten days after they shall report for duty.

VII.—The Assistant Chief of Department shall inspect all uniforms or parts of uniforms before they are worn, and reject all found not in conformity to the provisions of this order.

(General Orders No. 29.)

## HOUSE WATCH DUTY.

## I.—The tours of duty for House Watch shall be as follows :

1st tour,	- - - - -	from 8 A. M.	to 1 P. M.
2d "	- - - - -	" 1 P. M.	to 6 P. M.
3d "	- - - - -	" 6 P. M.	to 12 midnight.
4th "	- - - - -	" 12 midnight	to 6 A. M.
5th "	- - - - -	" 6 A. M.	to 8 A. M.

II.—The first, second, third, and fifth tours shall each be performed by one man, and the fourth tour by two men, who shall be designated *Housewatchman* and *Assistant Housewatchman* respectively, and their names placed on the bulletin board. The commanding officers of companies will equalize the details for this duty; and if at any time there are less than nine (9) available men for watch duty, the *Assistant Housewatchman* for the fourth tour may be dispensed with. The details for house watch shall enter upon the discharge of their duties promptly at the minute named, being called ten minutes before such time, and shall be properly uniformed and prepared five minutes before going on duty. The only part of the uniform that will be insisted on for the men on the fourth tour will be coat and badge.

III.—The *Housewatchman* shall be the superior grade, and his *assistant* shall obey his orders cheerfully and promptly, but shall be equally responsible for any dereliction of duty. They shall see that everything in the apparatus room and stable is in its place and in proper order; that the horses and harness have not been injured during the tour of their immediate predecessors on house watch, and give the horses proper care and attention, and have them ready at all times for immediate use; that the engine, tender and hook and ladder truck is in proper condition for immediate use and kept so; that the water in boiler was and is kept at the proper temperature; that the apparatus for heating water for engine boiler is kept constantly supplied with water, and the fire properly kept and attended to; that the hot-air furnace, stoves and heaters of any kind are attended to and kept properly supplied with fuel; that manure is immediately taken up and put in manure box, and stalls kept scrupulously clean; that the harness, hose, tools, implements and appliances are in proper condition for immediate use; that the telegraph, telephone and dial machinery and instruments are kept in good order and properly wound up after each alarm; that all telegraphic calls are promptly answered, and that the instruments are not tampered with by self or others; keep the company journal, and not cause, permit or allow it to be defaced nor tampered with, and will be held strictly responsible for all entries made therein during their tour of duty, except those made personally by the officers. They shall not permit visitors after eleven o'clock at night, except by order from an officer, which order or permission shall not be given to the same person or persons on more than one occasion; shall rise and make proper salute when quarters are visited by a Commissioner or an officer, and when visitors present themselves at quarters shall politely enquire their business, enter name or names on journal, and call the commanding officer. They shall not converse with visitors or others more than is absolutely necessary; shall not leave quarters without permission from the commanding officer under any circumstances; shall not doze nor sleep; shall not permit any violation of rules, laws or orders on the apparatus floor nor in front of quarters, and shall at once call the commanding officer if anything improper exists in or about quarters which cannot be controlled by his order. They shall have control and command of the apparatus floor and be responsible for everything that takes place thereon; and it shall be the duty of members to treat the housewatch with respect, not passing out of quarters without making the proper salute (which shall be acknowledged by the housewatch), stating by whose permission or order they leave, and salute and report to the housewatch upon return to quarters; all such salutes shall be made properly, carefully, and at a halt, and any failure or neglect will be immediately noted on the journal. They shall be responsible for correctly receiving and reporting to the commanding officer and company every signal station sounded on the gong, or any alarm from any cause, whether telegraph, verbal or visible, and on receiving an alarm, shall immediately sound the dormitory gong, assist in hitching the horses, and proceed with apparatus to fire.

(General Orders No. 19.)

## BATTALION AND COMPANY DISTRICTS.

I.—The following are designated as the company and battalion districts of the Department in which the respective company and battalion commanders shall take cognizance of all violations of law relating to the erection, alterations and repair of buildings, and the storage, handling, transportation and sale of combustibles, fireworks and explosives, the encumbrance of hydrants, etc., and in which they shall also be responsible for the care of the fire alarm telegraph and other property of the Department :

## 1.—BOUNDARIES OF COMPANY DISTRICTS.

- Engine No. 1.—Twenty-third street, Fifth avenue, Thirty-first street and Eighth avenue.  
 Engine No. 2.—Forty-second street, Eighth avenue, Fifty-third street and North river.  
 Engine No. 3.—Cansevoort and Thirteenth streets, Eighth avenue, Twenty-first street and North river.  
 Engine No. 4.—Wall street, Broadway, Fulton and Gold streets, Maiden lane and Pearl street.  
 Engine No. 5.—East Tenth street, Second avenue, Twenty-first street and Avenue A.  
 Engine No. 6.—Battery place, Broadway, Liberty street and North river.  
 Engine No. 7.—Broadway, Chambers, Duane, Rose, Frankfort, Gold and Fulton streets.  
 Engine No. 8.—Fiftieth street, Sixth avenue, Fifty-ninth street and East river.  
 Engine No. 9.—Catharine street, Bowery, Canal street, East Broadway, Jefferson street and East river.  
 Engine No. 10.—Battery place, Broadway, Wall street and East river.  
 Engine No. 11.—Grand, Clinton, Houston streets and East river.  
 Engine No. 12.—Ferry, Gold, Frankfort, Rose, Duane, Chatham, Catharine streets and East river.  
 Engine No. 13.—Canal street, Broadway, Houston and Sullivan streets.  
 Engine No. 14.—Fourteenth street, Sixth avenue, Twenty-third street and Fourth avenue.  
 Engine No. 15.—Jefferson street, East Broadway, Clinton, Grand streets and East river.  
 Engine No. 16.—Twenty-first street, Fourth avenue, Twenty-third street, Fifth avenue, Twenty-seventh street and East river.  
 Engine No. 17.—Grand, Eldridge, Houston and Clinton streets.  
 Engine No. 18.—Fourth and Thirteenth streets, Eighth avenue, Fourteenth street and Fifth avenue.

- Engine No. 19.—Twenty-first street, Eighth avenue, Thirty-first street and North river.  
 Engine No. 20.—Broadway, Houston, Mott and Canal streets.  
 Engine No. 21.—Thirty-fourth street, Fifth avenue, Fortieth street, Sixth avenue, Forty-second street and East river.  
 Engine No. 22.—Seventieth street, Fifth avenue, Ninety-eighth street, Lexington avenue, Eighty-sixth street and Third avenue.  
 Engine No. 23.—Fifty-third street, Sixth avenue, Fifty-ninth street and North river.  
 Engine No. 24.—Houston, Thompson, Fourth, and Christopher streets and North river.  
 Engine No. 25.—Houston street, Bowery, Fourth avenue, Stuyvesant, Tenth streets and Avenue B.  
 Engine No. 26.—Thirty-first street, Eighth avenue, Fortieth street and Fifth avenue.  
 Engine No. 27.—Chambers, Hudson, Desbrosses streets and North river.  
 Engine No. 28.—Tenth street, Avenue A, Twenty-first street and East river.  
 Engine No. 29.—Liberty street, Broadway, Fulton, Greenwich streets, Park place and North river.  
 Engine No. 30.—Desbrosses, Hudson, Canal, Sullivan, Houston streets and North river.  
 Engine No. 31.—Broadway, Canal street, Bowery, Chatham, Baxter and Worth streets.  
 Engine No. 32.—Wall and Pearl streets, Maiden lane, Gold and Ferry streets and East river.  
 Engine No. 33.—Houston and Thompson streets, Fifth avenue, Eighth street, Fourth avenue and Bowery.  
 Engine No. 34.—Thirty-first street, Eighth avenue, Forty-second street and North river.  
 Engine No. 35.—One Hundred and Tenth street, Eighth avenue, One Hundred and Twentieth street and East river.  
 Engine No. 36.—Harlem Bridge, Third avenue, One Hundred and Twenty-sixth street, Eighth avenue, One Hundred and Fortieth street and Harlem river.  
 Engine No. 37.—One Hundred and Tenth street, Eighth avenue, One Hundred and Fortieth street and North river.  
 Engine No. 38.—One Hundred and Fortieth street, Harlem river, Spuyten Duyvil Creek and North river.  
 Engine No. 39.—Fifty-ninth street, Fifth avenue, Seventieth street and East river.  
 Engine No. 40.—Fifty-ninth street, Eighth avenue, Eighty-second street and North river.  
 Engine No. 41.—Harlem river, One Hundred and Forty-fourth and One Hundred and Forty-third streets, Brook avenue, One Hundred and Sixty-first street and McComb's Dam Bridge.  
 Engine No. 42.—Pelham avenue, Lorillard street, Fordham avenue, One Hundred and Eighty-third street, Harlem river, Spuyten Duyvil Creek, North river, north boundary line of Twenty-fourth Ward and Bronx river.  
 Engine No. 44.—Seventieth street, Third avenue, Eighty-sixth street and East river.  
 Engine No. 45.—Line of Twenty-third and Twenty-fourth Wards, Fordham avenue, Lorillard street, Pelham avenue and Bronx river.  
 Engine No. 46.—Harlem river, One Hundred and Eighty-third street, Fordham avenue and line of Twenty-third and Twenty-fourth Wards.  
 Hook and Ladder No. 1.—Chambers street, Broadway, Worth, Baxter and Chatham streets.  
 Hook and Ladder No. 2.—Forty-second street, Sixth avenue, Fiftieth street and East river.  
 Hook and Ladder No. 3.—Eighth street, Fifth avenue, Fourteenth street, Fourth avenue, Twenty-first street, Second avenue and Stuyvesant street.  
 Hook and Ladder No. 4.—Fortieth street, Eighth avenue, Fifty-third street and Sixth avenue.  
 Hook and Ladder No. 5.—Christopher, West Fourth street, Gansevoort street and North river.  
 Hook and Ladder No. 6.—Canal, Mott, Grand, Clinton streets and East Broadway.  
 Hook and Ladder No. 7.—Twenty-seventh street, Fifth avenue, Thirty-fourth street and East river.  
 Hook and Ladder No. 8.—Chambers street, Broadway, Canal and Hudson streets.  
 Hook and Ladder No. 9.—Grand, Mott, Houston and Eldridge streets.  
 Hook and Ladder No. 10.—Park place, Greenwich and Fulton streets, Broadway, Chambers street and North river.  
 Hook and Ladder No. 11.—Houston street, Avenue B, Tenth street and East river.  
 Hook and Ladder No. 12.—Fourteenth street, Eighth avenue, Twenty-third street and Sixth avenue.  
 Hook and Ladder No. 13.—Eighty-sixth street, Lexington avenue, Ninety-eighth street, Fifth avenue, One Hundred and Tenth street and East river.  
 Hook and Ladder No. 14.—One Hundred and Twentieth street, Eighth avenue, One Hundred and Twenty-sixth street, Third avenue and Harlem river.  
 Hook and Ladder No. 16.—Eighty-second street, Eighth avenue, One Hundred and Tenth street and North river.  
 Hook and Ladder No. 17.—Harlem river, One Hundred and Forty-fourth and One Hundred and Forty-third streets and Long Island Sound.  
 Hook and Ladder No. 18.—Bronx River, Westchester avenue, Union avenue, Clifton and One Hundred and Sixty-first streets, Jerome avenue, One Hundred and Sixty-seventh street, Fordham avenue, and line of Twenty-third and Twenty-fourth Wards.  
 Hook and Ladder No. 19.—Fordham avenue, One Hundred and Sixty-seventh street, Jerome avenue, Harlem river, and line of Twenty-third and Twenty-fourth Wards.  
 Chemical Engine No. 1.—One Hundred and Forty-third street, Brook avenue, One Hundred and Sixty-first street, Clifton street, Union avenue, Westchester avenue, Bronx river and Long Island Sound.

## 2.—BATTALION DISTRICTS.

- Engine Companies 4, 6, 10, 29, 43 (Fire Steamer "Havemeyer"), and Hook and Ladder Company 10, constitute the First Battalion.  
 Engine Companies 7, 12, 31, 32, and Hook and Ladder Company 1, constitute the Second Battalion.  
 Engine Companies 13, 20, 24, 27, 30, and Hook and Ladder Company 8, constitute the Third Battalion.  
 Engine Companies 9, 11, 15, 17, and Hook and Ladder Companies 6 and 9, constitute the Fourth Battalion.  
 Engine Companies 1, 3, 14, 18, 19, and Hook and Ladder Companies 5 and 12, constitute the Fifth Battalion.  
 Engine Companies 5, 25, 28, 33, and Hook and Ladder Companies 3 and 11, constitute the Sixth Battalion.  
 Engine Companies 2, 23, 26, 34, 40, and Hook and Ladder Companies 4 and 16, constitute the Seventh Battalion.  
 Engine Companies 8, 16, 21, 39, and Hook and Ladder Companies 2 and 7, constitute the Eighth Battalion.  
 Engine Companies 22, 35, 36, 37, 38, 44, and Hook and Ladder Companies 13 and 14, constitute the Ninth Battalion.  
 Engine Companies 41, 42, 45, 46, Chemical Engine Company 1, and Hook and Ladder Companies 17, 18 and 19, constitute the Tenth Battalion.  
 (General Orders No. 15.)

## FIRE ALARM TELEGRAPH, REVISED CODE OF SIGNAL STATIONS AND LOCATIONS OF ALARM BOXES, AND ASSIGNMENTS TO DUTY AT ALARM STATIONS.

I.—The Superintendent of Telegraph shall have charge of all telegraph lines and apparatus pertaining thereto. He shall be directly responsible to the Board of Commissioners for the proper conduct and management of the telegraph service, and shall keep an accurate record, in convenient form for reference, of the public business transacted in or through his office, which shall embrace: all alarms, signals, calls and messages, received or transmitted, with the precise time of receipt or transmission; the number, location and condition of all alarm boxes, instruments and poles, the property of the Department; the length and route of all Department wires, and specifying all such as may be strung upon poles not belonging to the Department, with the distances, routes, and names of owners; the lengths and routes of all other wires (with the names of owners) strung upon the poles of the Department; all connections made with the wires of the Department, whether from the offices or houses of the Department or others, and all batteries or special instruments located in any of the houses of the Department not belonging to it, and shall promptly respond in person to all third alarms of fire or detail a competent Morse operator for the purpose.

He shall have the control and direction of all operators, clerks, line-men, battery-men and climbers, and of all other employees assigned to him for duty, and he is charged with maintaining the

Fire Alarm Telegraph in proper repair and condition under the rules and regulations now, or which may hereafter be prescribed, and shall himself prescribe such necessary rules for the government of the employees serving under his direction, as are not herein contained.

II.—The operator in charge will be responsible during his tour of duty for the proper testing of the wires and apparatus, and for the necessary repairs to the former, as well as for the proper reception and transmission of all alarms, signals and messages.

He will have control of the operating room and will be held responsible for its condition and management, and will not permit the use or handling of any of the instruments in the office, except by employees properly authorized, and then only under his direction.

III.—The assistant operator shall be subordinate to the operator in charge for the time being. It shall be his duty to transmit and receive messages over the dial and telephone circuits; to keep the office journal; and take such part in receiving and transmitting signals, assist in making tests, and perform such other duties as the operator in charge may direct.

IV.—The tours of duty of the operator and assistant operator shall be of eight hours' duration each, the first to commence at 8 A. M., the second to commence at 4 P. M., and the third to commence at 12 midnight.

V.—The Superintendent shall make the regular assignments of operators and their assistants.

VI.—Neither of the operators on duty shall leave the office during his tour, except by permission of the Superintendent. Sleeping or dozing on duty is strictly prohibited. No person not an employee of the telegraph service, shall be permitted to remain in or frequent the operating or battery rooms except on business or by special permission.

VII.—The line-men shall keep all the lines in perfect working order, under the direction of the operator in charge, and shall attend to such adjustment of and repairs to the machinery as he may direct. They shall report at 8 A. M., and remain on duty until 6 P. M., or later, if required, and hold themselves in readiness to perform extra service if circumstances should make it necessary to call upon them.

VIII.—The battery-man and his assistant shall report for duty at 8 A. M., and remain until 5 P. M., each day, during which hours one of them shall always be on duty in the battery-room. The battery-man shall be responsible for the cleanliness and good working condition of the battery-room and the batteries at all times, and shall have charge of all telegraph supplies and the issuing of the same, under direction of the Superintendent.

IX.—The assistant battery-man shall act under the direction of the battery-man. The keys of the battery-room shall be in the custody of the operator in charge between the hours of 5 P. M. and 8 A. M.

X.—Telegraph operators and assistants will in all cases remain on duty until their relief arrives. An operator, or assistant, unable to report for duty on account of illness, must notify the Superintendent by telegraph, through the operator in charge, at the earliest moment. The operator in charge will immediately notify the second relief (of corresponding grade), who will report at Central Office promptly as substitute, unless other arrangements are made by the Superintendent. During such absence of an operator or assistant the duties of his tour will be performed by the other two of corresponding grade until other provision is made by the Superintendent.

Courteous treatment shall be extended to visiting strangers, and such attention paid them as the duties of the office will permit, but the encouragement of frequent and protracted visits of personal friends by the employees is disapproved.

XI.—The poles of the Fire Alarm Telegraph will be known by the colors in which they are painted, the base being brown and the remainder French gray, except those upon which the street boxes are placed, which will be painted red from the bridle arm down to and including the box. Company commanders are directed to see that the poles are kept free from bills, signs, etc., and will keep themselves informed of the condition of the telegraphic material within their respective districts. When any officer or member of the Department discovers that any part thereof is in any way injured, or in danger of being injured, he will report the same by dial or telephone to the Superintendent of Telegraph, if the necessity of the case seems to require, or otherwise in writing through the usual channel.

XII.—Every officer and member of this Department, every officer and member of the Police Department, every officer and member of the Fire Insurance Patrol, and each post of said Patrol, will be furnished with a key which will open any street box. A key will also be kept with the occupant of one or more buildings near each alarm box, and the street numbers of the buildings in which they may be found will be posted on the box pole. A key to the inner doors will also be furnished to each officer of the Department and of the Insurance Patrol.

Keys to signal boxes will be issued to responsible citizens who may desire and apply for the same, upon the condition that such keys be always carried; that the same be used exclusively for the purpose of communicating necessary alarm for fire, and that the residence of the applicants be given, and all changes of residence be reported, such application to be made upon a form to be provided for that purpose, and supplied to company commanders, to be signed by the applicant and forwarded by the officer receiving the same, through the usual channels of communication, with recommendation indorsed thereon.

If the issue of the key applied for be ordered it will be transmitted to the company commander, with a certificate setting forth the conditions of its issue for delivery to the applicant, and a receipt to be signed by him, which will be forthwith returned to Headquarters.

XIII.—Keys will be issued by the Property Record Clerk for the purpose specified in the foregoing paragraph, upon the requisition of company commanders, for each officer and member of their command, and such extra ones for each alarm-box, as may be necessary. Keys for the Police Department and for the Fire Insurance Patrol will be issued to the Superintendents thereof, respectively, upon their requisition therefor.

XIV.—Company commanders will be responsible for the safe keeping of keys left with citizens residing near the boxes within their respective districts. They will, when practicable, see that the key is hung above the reach of children, and in a safe but conspicuous place. When an occupant vacates the premises in which a key has been left, the company commander will retain the charge of it until another responsible party occupies the premises, or another location is selected. In the event of a key being lost by a member of the Department, a diligent search will at once be made for it, and if not found it shall be advertised for, the advertisement having been first submitted to the commanding officer of the company, for his approval. A report embracing all the facts in the case, accompanied by a copy of the advertisement, will be forwarded to the Board of Commissioners. If a key located in the neighborhood of an alarm-box be lost, the commander of the company in whose district the box is located will make a diligent search for it, and report the facts to the Board of Commissioners, in writing, before making requisition for a duplicate.

XV.—Prior to the issue of certificates of non-indebtedness to officers or members leaving the service of the Department, it is hereby made the duty of the Property Record Clerk to see that the alarm-box keys held by them have been returned.

XVI.—Once each month company commanders will cause an inspection of the alarm-box keys in their respective company districts to be made, and forward a report to the office of the Chief of Department on the first of each month, stating the exact location of each, and will make such changes as they may deem proper, when, in their opinion, the same are not properly located—take the key of each box and unlock the door, and be satisfied that each key and lock is in proper order for immediate use. They will also be responsible for the cards, with the numbers thereon of the companies which perform duty at each station, which are deposited in each alarm-box, and report the condition of the same. In case an alarm-box is located or removed from one company district to another, the company commander in whose district it is located will immediately make requisition for keys for the same, or receipt for those turned over, as the case may be.

XVII.—The oiling of all telegraph machinery, testing of street boxes, and other apparatus, changing of location of instruments, and alterations in the adjustment of the same, will be attended to by the employees of the telegraph department exclusively.

XVIII.—The attaching of any device or instrument, either electrical or mechanical, to any of the telegraphic apparatus or wires of the Department, or the connecting of any electrical wires or batteries within any of the Department buildings, excepting under direction of the Superintendent of Telegraph, is prohibited.

XIX.—The commanding officer will hold the house watch to strict accountability for the proper care of the telegraphic instruments during his tour of duty. Any unnecessary tapping of the dial or other keys, or opening of circuits, or changing of adjustments, or other interference with the instruments or circuits, will be deemed an offense calling for strict investigation and punishment of the person in charge of the quarters in which the interference takes place.

XX.—An entry shall be made upon the journal whenever any repairs or adjustments are made to the apparatus, together with the name of the person making such repairs or adjustments.

XXI.—The following directions will be observed when a fire is discovered:

Open the door of nearest box, pull the hook down *once only* as far as possible, let it slide back, and listen to hear the station struck by machinery within. If not immediately heard, endeavor to have the alarm sent from the next nearest box. When sure that the alarm is properly sent close the door of the box.

Key-holders are cautioned:

- Not to open the box except in case of fire.
- Not to give an alarm until certain of a fire.
- Not to give an alarm for a fire seen at a distance.
- To pull down the hook only once, in giving an alarm.
- To be sure, after giving an alarm, that the door is closed before leaving the box.
- Not to let the key go out of their possession except when demanded by proper authority.

XXII.—Street box keys can only be released from the lock by an officer of the Department holding a releasing key. The officer in command of a company first due at a station is charged with the duty of releasing the key from the box, not however, interfering with the more important duty at fire, obtaining the number of same, which shall be entered upon his report, and having the key returned to its properly designated place or holder, taking great care that it is not given to unauthorized persons, and returning to these Headquarters all keys for which authorized holders can not be found.

XXIII.—A test signal, consisting of eleven continuous strokes, will be sent from the Central Office daily, as follows, viz.:

On the combination circuits, dial and telephone circuits, commencing at precisely one minute before eight o'clock, A. M., and on the gong circuits commencing at the exact moment of eight o'clock, A. M. Company commanders will see that their clocks are regulated accordingly. Whenever an imperfection in a gong circuit or combination circuit is indicated by the eight o'clock test, or the receipt of a fire or other signal, the fact will be immediately reported to the Central Office by dial or telephone, designating the instrument (whether gong or combination). Company officers will see that their gong instruments are kept wound up.

XXIV.—A test signal, consisting of eleven continuous strokes, will be sent from the Central Office daily upon circuit 60 to the gate-house in Central Park, commencing at precisely one minute before eight o'clock, A. M.

XXV.—Operators on duty at the Central Office upon receiving an alarm of fire from a street box will pull down the lever of the combination switch corresponding to the number of the circuit upon which the box is located. The Assistant Operator will, at the same time, prepare the repeater by adjusting it to the signal indicated, in readiness to transmit the same over the gong circuits, two rounds of which shall be so transmitted, beginning at the completion of the second round upon the combination circuits. To insure absolute correctness in transmitting signals upon the gong wires, undue haste in setting the repeater should be avoided, and the operator in charge must see to it that the correct signal is set before starting the machine.

Upon receipt of a second or third alarm, or any of the calls under the heading of special signals, excepting calls for an increase of water pressure, the operator will transmit one round of the same over the combination circuits by means of the special lever and key of the combination switch, and immediately follow it with one round upon the repeater over the gong circuits.

If, during the transmission of a signal over the gong circuits, a signal is received from another box indicating another fire, the same shall be given to the Department upon the combination circuits without delay and upon the gong circuits as soon as the repeater has completed the transmission of the previous signal.

Alarms for fire in the district north of Harlem river may be communicated to the Department through any of the company houses located in that district. On receipt of notice of a fire at the quarters of any company, the commanding officer will transmit to Central Office, by means of the Morse key on the Combination or talking instrument, two (2) rounds of the number of the station nearest the location of the fire, followed by one (1) round of his company's number. Should the Alarm not be immediately sounded from the Central Office upon the combination or gong instrument the officer will repeat the signal as before. Should no response then be received, the officer will communicate the signal to the Central Office by dial or telephone.

On receipt of a signal, as above provided, the operator in charge will transmit two rounds of the same over the combination and gong circuits.

On receipt of a call for increased water pressure the operator will transmit two rounds of the signal upon circuit 60 to the gate-house, and failing to receive signal 2-3 therefrom, he will repeat the signal, and notify the nearest company in quarters to send notice by special messenger.

Upon receipt of an alarm from Police Headquarters, or verbally, or from a bell tower, the operator will transmit two rounds upon each the combination and gong circuits.

XXVI.—Each alarm box is furnished with a Morse key to be used for sending out second and third alarms, and for such other purposes as may be hereafter designated. Second and third alarms will be sent under the direction of the officer in command at a fire. If after using the Morse key no response to a signal is received from the Central Office, the key in the next nearest box will be used.

XXVII.—A second alarm will consist of ten, and a third alarm of twelve continuous taps, followed by one round of the signal station at which the companies are required. Should a second or third alarm or a special call be received from a neighboring station, instead of the one from which the first alarm was received, the companies so called will proceed to the station last designated, without regarding the station from which the previous alarm was received. In case a second or third alarm is received, not preceded by a first alarm, the operator will send it out as received, and it will be responded to by the companies accordingly. For example: If a station number is received, preceded by ten taps, it will be considered a second alarm, and all companies doing duty at the station indicated on first and second alarms, will respond. If a station number is received, preceded by twelve taps, it will be considered a third alarm, and all companies doing duty at the station indicated on first, second and third alarms, will respond. If a first alarm has been sent, and more companies are required than second alarm would bring, a third alarm may be sent, omitting the second alarm, and all companies performing duty at the station indicated on second and third alarms will respond. If, in the judgment of the officer in command at a fire, more help will be required than the first alarm companies furnish, he will without delay cause a second or third alarm, or a special call to be sent.

XXVIII.—An accurate record of the companies absent from quarters will at all times be kept in the Central Office, to the end that if an alarm be received from a station, and the companies which are assigned to duty thereat on first alarm should be absent, the alarm shall not be sent out, but a call shall be sent over the combination and gong circuits for the engine company in quarters lying nearest to the point from which the alarm proceeds. The commanding officer of the company thus called to duty, finding his company alone, on arriving at the scene of the fire, and requiring aid, will apply for the same by means of a special call, or a second or third alarm.

XXIX.—Dials and telephones for the purpose of transmitting messages are placed throughout the Department, as follows:

CIRCUIT No. 50.		
Station Number.	Location.	Instrument.
5-1.....	Engine 1.....	Dial.
5-5.....	" 5.....	Telephone.
1-4.....	" 14.....	Telephone and Dial.
1-8.....	" 18.....	Telephone and Dial.
1-9.....	" 19.....	Telephone and Dial.
2-5.....	" 25.....	Dial.
2-8.....	" 28.....	Telephone.
3-3.....	" 33.....	Telephone and Dial.
6-3.....	Hook and Ladder 3.....	Telephone and Dial.
6-5.....	" 5.....	Telephone and Dial.
6-11.....	" 11.....	Telephone and Dial.
6-12.....	" 12.....	Dial.
6.....	Repair Shop.....	Telephone and Dial.

CIRCUIT No. 55.		
Station Number.	Location.	Instrument.
5-4.....	Engine 4.....	Telephone and Dial.
9.....	" 9.....	Dial.
10.....	" 10.....	Dial.
11.....	" 11.....	Telephone and Dial.
1-5.....	" 15.....	Telephone and Dial.
1-7.....	" 17.....	Dial.
2-10.....	" 20.....	Telephone.
2-4.....	" 24.....	Telephone and Dial.
3-10.....	" 30.....	Telephone and Dial.
3-1.....	" 31.....	Dial.
3-2.....	" 32.....	Dial.
4-3.....	" 43.....	Telephone.
8-4.....	Chief 4th Battalion Quarters.....	Telephone.
6-1.....	Hook and Ladder 1.....	Telephone and Dial.
6-6.....	" 6.....	Telephone and Dial.
6-8.....	" 8.....	Telephone and Dial.
6-9.....	" 9.....	Telephone and Dial.
6-10.....	" 10.....	Telephone and Dial.
6.....	Repair Shop.....	Telephone and Dial.

CIRCUIT No. 56.		
Station Number.	Location.	Instrument.
5-2.....	Engine 2.....	Telephone and Dial.
2-1.....	" 21.....	Dial.
2-3.....	" 23.....	Telephone and Dial.
2-6.....	" 26.....	Dial.
3-4.....	" 34.....	Dial.
3-9.....	" 39.....	Dial.
4-10.....	" 40.....	Dial.
6-2.....	Hook and Ladder 2.....	Telephone and Dial.
6-4.....	" 4.....	Telephone and Dial.
6-7.....	" 7.....	Telephone and Dial.
6.....	Repair Shop.....	Telephone and Dial.

## CIRCUIT No. 57.

Station Number.	Location.	Instrument.
2-2	Engine 22	Telephone.
3-5	" 35	Telephone and Dial.
3-7	" 37	Dial.
3-8	" 38	Dial.
4-2	" 42	Dial.
4-4	" 44	Telephone.
4-5	" 45	Telephone and Dial.
4-6	" 46	Dial.
4-8	" 48	Telephone.
6-1-3	Hook and Ladder 13	Dial.
6-1-4	" 14	Telephone and Dial.
6-1-6	" 16	Dial.
6-1-7	" 17	Dial.
6-1-9	" 19	Dial.

## CIRCUIT No. 65.

Station Number.	Location.	Instrument.
2	Central Office	Telephone.
7	President's room	Telephone.
8-1	Vice-Medical Officer	Telephone.
6	Repair Shops	Telephone.
4	Treasurer's residence	Telephone.
8-2	Officer in charge of Repair Shops' residence	Telephone.
1-8	Engine 18	Telephone.
5	President's residence	Telephone.
5-3	Engine 3	Telephone.
8-3	Inspector of Buildings' residence	Telephone.
1-6	Engine 16	Telephone.
6-3	Hook and Ladder 3	Telephone.

XXX.—The attention of officers is directed to the following signal code and rules for the use of the dials and telephones, which will be strictly observed. When a message is to be transmitted to a station on the same circuit, first call the station wanted by tapping its number *once* and the number of your own station *once*, with an interval of three seconds between the two signals. The station called will respond by striking its station number once, or signal 3-5, in case other important duties prevent the receiving of the message at the moment. Answer all calls promptly and when signal 3-5 is given be sure and call the station in waiting with as little delay as possible and give signal 4-3. As soon as the communication is finished and the message has been properly received, give signal 2-3. When the dial is to be used it shall be indicated by the signal 2-2, to be given after receiving the answer to the call. The sending station will then press down the brass button at top of dial, and, holding it there, release the white button and permit the inside needle to make at least *two* revolutions, then press down the white button, and as soon as the clicking of the works inside the dial has ceased, proceed with the sending of the message, and when finished press down and lock the white button and wait the answer.

A station about to receive a message upon the dial, will, after answering the call signal, hold down the brass button, keeping it in that position until the clicking has ceased, then quickly release it. At the completion of the message close the dial and tap signal 2-3. The white button at top of dial must be kept locked *at all times*, except when *sending* a message. Keep the dial closed when not in use.

The utmost care must be exercised in the transmitting and receiving of messages, and to insure correctness all numerals should be spelled out in full in addition to using the figures.

In communicating by telephone, the same directions for calling must be observed as those specified for dial. The receiver must not be taken from the switch-hook until the answer to the call is received, and must be replaced as soon as the communication is finished. The proper direction for placing the switch while communicating will be determined and instructions given at each station, which should be followed as a rule, but changes in the condition of the circuit are liable to occur at intervals, rendering it necessary to reverse the position of the switch to obtain the best results.

Avoid getting too close to the transmitter, speak plainly, and bear in mind that *shouting* is unnecessary.

Whenever the bell does not respond to the touch of the key, it is evidence that the circuit is in use by other stations, and further use of the key is an interference and must cease, until circuit is restored, which will be indicated by a tap of the bell.

Whenever a message is to be transmitted to a station on another circuit, first call Central Office, and, on receiving their response, strike signal 4-2 and the number of the circuit upon which the station wanted is located.

The Central Office will then switch the two circuits together and reply with signal 2-3, upon receipt of which the station having the message will proceed to call the station wanted and transmit the message in the usual manner. Should the circuit indicated be in use at the time or out of order, the operator at Central Office will answer with signal 4-4.

## SPECIAL DIAL AND TELEPHONE SIGNALS.

- 3—Repeat.
- 10—Send messenger to these headquarters.
- 2-2—I am going to use the dial.
- 2-3—I understand.
- 3-5—Please wait a minute.
- 3-7—This dial instrument is out of order.
- 3-9—This telephone is out of order.
- 4-2—Please connect this circuit with circuit No. (give number).
- 4-3—I am ready, go ahead.
- 4-4—That circuit is in use.

Messages will be transmitted only in strict accordance with the instructions given by the Superintendent of Telegraph. Setting the needle or switching in the telephone for the purpose of reading messages being transmitted to another station, is prohibited.

Answer all messages by tapping "2-3," if understood, or "3," if not understood.

XXXI.—On receiving a call on the dial or telephone, the house watch, in the absence of an officer, will tap signal "3-5," and notify the officer that the station has been called, and by whom. Officers are cautioned not to touch the dial or telephone key or switch while the circuit is being used by other stations.

XXXII.—A record shall be kept in full on company journals of all messages sent from or received at such quarters over the dial or telephone circuits, the name of the writer thereof, and of the person to whom the same is addressed, the time of its receipt and delivery or transmission, and such record shall be signed by the person sending or receiving such messages.

XXXIII.—After each telegraph or bell alarm of fire, the battalion commander in whose district the fire occurs, will, immediately on his return to quarters, or before, if convenient, telegraph to these Headquarters the following particulars: the time, signal, location of building, size, material built of, estimated loss to building and stock. In the event of a still alarm, special call, or other signal, the officer in charge will be governed by the same rule. In the event of an ambulance call, the officer in command, due first at that station on a fire alarm signal, will, without delay, ascertain the cause for such call, and report immediately to Headquarters the full particulars by telephone or dial.

XXXIV.—The combination instruments, which have in most of the houses superseded the bell and key instruments, serve a double purpose—that of receiving alarms of fire direct from the street boxes, and as a means of informing the Central Office when an apparatus is about to leave quarters on a still alarm, or from any cause is temporarily out of service. Also for reporting as soon as ready for duty after returning from an alarm of fire, or after having been out of service. None but employees of the telegraph branch will use the key and bell instruments for any purpose other than herein stated.

XXXV.—In all cases when a company leaves quarters in answer to a still alarm, or from any cause is unable to answer a call by reason of being temporarily out of service, the fact will be immediately reported to the Central Office, by tapping "2-2" with the key of the combination instrument, followed by the signal number of the company. This will be responded to by the operator at the Central Office tapping "2-3" (I understand), or "3" (repeat), if necessary.

XXXVI.—When a company has returned to quarters from answering a fire alarm, or is ready for duty after having been out of service, the fact will be immediately reported to the Central Office, by tapping "4-4" with the key of the combination instrument, followed by the signal number of the company. This will be responded to by the operator on duty at the Central Office tapping "2-3" or "3."

XXXVII.—Should the combination circuit be open at the time of sending in any of the signals above specified, or if from any cause no answer is received from the Central Office, the signals may be sent upon the dial or telephone circuits.

XXXVIII.—If after having sent the signal "2-2" "4-4" twice, at intervals of fifteen seconds, the officer receives no response from the Central Office, the signal will be sent by the Morse key, from the street box, and be answered by the operator accordingly. In using the street box for this purpose, the signal will be sent but once, unless the signal "3" is received. If no answer is then received, it will be sent through the quarters of a neighboring company. In using the signals "2-2" and "4-4" the engine companies will omit the fourteen taps from the signal number of the company.

XXXIX.—Whenever a break (or opening) occurs to a combination circuit, it is indicated by the continuous ringing of the small bell, in which case the switch under the Morse key should be moved to the right, and left in that position so long as the circuit remains open as indicated by the bell. As soon as the circuit is restored, the bell will again ring, when the switch should be moved to its usual position to the left.

XL.—Officers of the Department and others holding inner box keys, being in doubt as to the location of a fire, may open the inner door of any street box, and by the use of the Morse key, strike one round of the signal "3-3." The operator on duty, upon receiving this signal, will transmit in reply two rounds of the fire alarm last sent out. If no answer is received from the Central Office after waiting a proper interval, the signal may be repeated once. This signal must not be used on either combination or dial circuits.

The following code of special call signals will be observed:

Engine Company No.	1	14 strokes and 1 stroke.
" 2	" 2	" 2 strokes.
" 3	" 3	" 3 "
" 4	" 4	" 4 "
" 5	" 5	" 5 "
" 6	" 6	" 6 "
" 7	" 7	" 7 "
" 8	" 8	" 8 "
" 9	" 9	" 9 "
" 10	" 10	" 10 "
" 11	" 11	" 11 "
" 12	" 12	" 1-2 "
" 13	" 13	" 1-3 "
" 14	" 14	" 1-4 "
" 15	" 15	" 1-5 "
" 16	" 16	" 1-6 "
" 17	" 17	" 1-7 "
" 18	" 18	" 1-8 "
" 19	" 19	" 1-9 "
" 20	" 20	" 2-10 "
" 21	" 21	" 2-1 "
" 22	" 22	" 2-2 "
" 23	" 23	" 2-3 "
" 24	" 24	" 2-4 "
" 25	" 25	" 2-5 "
" 26	" 26	" 2-6 "
" 27	" 27	" 2-7 "
" 28	" 28	" 2-8 "
" 29	" 29	" 2-9 "
" 30	" 30	" 3-10 "
" 31	" 31	" 3-1 "
" 32	" 32	" 3-2 "
" 33	" 33	" 3-3 "
" 34	" 34	" 3-4 "
" 35	" 35	" 3-5 "
" 36	" 36	" 3-6 "
" 37	" 37	" 3-7 "
" 38	" 38	" 3-8 "
" 39	" 39	" 3-9 "
" 40	" 40	" 4-10 "
" 41	" 41	" 4-1 "
" 42	" 42	" 4-2 "
" 43	" 43	" 4-3 "
" 44	" 44	" 4-4 "
" 45	" 45	" 4-5 "
" 46	" 46	" 4-6 "
" 47	" 47	" 4-7 "
" 48	" 48	" 4-8 "
" 49	" 49	" 4-9 "
" 50	" 50	" 5-10 "
Hook and Ladder Company No.	1	16 strokes and 1 stroke.
" 2	" 2	" 2 strokes.
" 3	" 3	" 3 "
" 4	" 4	" 4 "
" 5	" 5	" 5 "
" 6	" 6	" 6 "
" 7	" 7	" 7 "
" 8	" 8	" 8 "
" 9	" 9	" 9 "
" 10	" 10	" 10 "
" 11	" 11	" 11 "
" 12	" 12	" 1-2 "
" 13	" 13	" 1-3 "
" 14	" 14	" 1-4 "
" 15	" 15	" 1-5 "
" 16	" 16	" 1-6 "
" 17	" 17	" 1-7 "
" 18	" 18	" 1-8 "
" 19	" 19	" 1-9 "
" 20	" 20	" 2-10 "
" 21	" 21	" 2-1 "

## INSURANCE PATROLS.

One-half of the Lower Patrol	15 strokes and 5-1 strokes.
The whole " "	" 5-2 "
One-half " Central Patrol	" 5-3 "
The whole " "	" 5-4 "
One-half " Upper Patrol	" 5-5 "
The whole " "	" 5-6 "
The East Side Patrol	" 5-7 "

## CHIEF OF DEPARTMENT AND ASSISTANTS.

The Chief of the 1st Battalion	17 strokes and 5-1 strokes.
" 2d "	" 5-2 "
" 3d "	" 5-3 "
" 4th "	" 5-4 "
" 5th "	" 5-5 "
" 6th "	" 5-6 "
" 7th "	" 5-7 "
" 8th "	" 5-8 "
" 9th "	" 5-9 "
" 10th "	" 5-10 "
The Chief of Department	" 6-1 "
The Assistant Chief of Department	" 6-2 "

## COMMISSIONERS.

President	17 strokes and 6-3 strokes.
Treasurer	" 6-4 "
Commissioner	" 6-5 "

## SAPPERS AND MINERS CORPS.

Company A	5-5-5 strokes and 1 stroke.
" B	" 5-5-5 "
" C	" 5-5-5 "
" D	" 5-5-5 "
Whole Corps	" 5-5-5 strokes.

## WATER-PRESSURE.

For increased water-pressure—for the district south of Houston street and east of South Fifth avenue and Fifth avenue, 7-7-7 strokes and 5 strokes.  
For the district west of South Fifth avenue, Fifth avenue and north of Houston street, 7-7-7 strokes and 6 strokes.  
For discontinuance of increased pressure, 7-7-7 strokes and 3 strokes.

## AMBULANCE CALLS.

For a single ambulance.....20 strokes.  
For three.....23 "  
For all the ambulances.....25 "

## SIMULTANEOUS CALL.

To call several distant companies simultaneously.....6-6-6 strokes.

XLII.—Whenever the services of an additional company are required by the officer in command at a fire, he will apply for the same by the use of the Morse key in the nearest street box, giving one round of the company's special call signal, followed by one round of the street box number. The operator on duty at the Central Office, upon receiving a call for a Company, will respond with the signal "2-3" or "3," if necessary, and being assured of the correctness of the signal, immediately transmit it over the combination and gong circuits. The officer in command of the company designated upon receiving the call, will respond with the signal "2-3" on the combination circuit, and proceed at once with his company to the alarm station indicated. In the event of a failure to respond on the part of the officer in command of the company so called, or of a call for a company which is known at the Central Office to be absent from quarters, or out of service, the operator on duty will send out a special call for the company of the same arm of service known to be in quarters next nearest the station indicated.

XLII.—If from any cause an officer should desire the presence of a company temporarily in the quarters of another company, he will transmit the usual special call signal for such company from a street box, followed by one round of the number of the street box located nearest to the quarters at which the company is desired. A company being so called and having become located within those quarters will, for the time being and during their occupancy of same, drop their own company number and assume the number of the company in whose quarters they are, and perform duty at all stations to which that company would be due, and respond to any and all signals intended for that company. The following rules should be followed in answering a call of the above character, viz.: On arriving at the station indicated and finding no evidence of fire in the vicinity, and the company quarters unoccupied, the officer in charge of the company will transmit to the Central Office upon the combination instrument, the signal 4-4-4, followed by the number of the company in whose quarters they are (which shall be answered by the Central Office in the usual manner). Should the company leave those quarters on a still-alarm, or for the purpose of returning to its own quarters, or from any cause, except in answering a regular alarm signal or special call, the officer in command will transmit the usual signal 2-2-2, followed by the number of the company in whose quarters they are. On arriving at their own quarters they will assume their own company number and transmit the usual signal 4-4-4, and their own company number.

XLIII.—In the event of an accident, or if from any cause a company is prevented from reaching a station to which they may be proceeding, the officer in command shall immediately transmit from the nearest street box the signal 8-8-8, followed by the number of the company (omitting the 14 strokes in the case of an engine company), to which the Central Office will respond with signal 2-3 or 3, as may be necessary. Should such signal be received at the Central Office from a company known to be responding to a special call signal, the operator at Central Office will transmit a special call for the next nearest company (of the same arm of service) to proceed to the station indicated.

Should the signal be received from a company responding to a regular fire signal, and known to be the only company so responding, the operator will transmit a special call signal for the next nearest company to proceed to the station indicated.

XLIV.—Whenever the services of one or more ambulances are required, by reason of injuries received by any person or persons at a fire, the officers in command will apply for the same through the nearest street box, by sending the special call signal for ambulance, followed by one round of the street box number.

XLV.—The companies assigned to duty at a distant station may be called by an officer to any station required, by means of the signal "6-6-6," followed by one round of the distant station, and one round of the station where it is desired the companies shall report for duty. For example: If the companies which are due at station 185 are required at station 45, they may be called from a street box by giving the signals "6-6-6," "1-8-5," "4-5," which will be answered from the Central Office, "2-3." The signals "6-6-6," "1-8-5," "4-5," will then be sent over all the combination and gong wires, and by them the company commanders due at station 185 will understand that their companies are required at station 45, and will act accordingly. If the first station is preceded by ten strokes, the companies due on first and second alarms will respond; if preceded by twelve strokes, the companies due on first, second and third alarms will respond.

XLVI.—If the Corps of Sappers and Miners, or a part of the same, are required, the call will be sent by means of the Morse key in the nearest street box, by sending the special call signal for Sappers and Miners Corps, followed by one round of the street box number. Upon the call being received at Headquarters, the operator will immediately transmit the same over the combination and gong circuits. In case of an accident whereby the telegraph is known to be out of order, the engines at the fire will blow the signals upon their whistles.

XLVII.—Whenever the services of the insurance patrol are required at a station, they may be called by the officer in command, by means of the Morse key in the nearest street box, by sending the special call signal provided therefor, followed by one round of the street box number.

XLVIII.—In sending signals with the Morse key, the strokes should be given at the rate of two per second; the interval between the figures of the same signal should be of twice that length.

XLIX.—Whenever an increased supply of water is desired the special signal provided therefor may be sent from the street box, as follows, viz.:

For the district south of Houston street and east of South Fifth avenue and Fifth avenue, one round of signal, 7-7-7 strokes and 5 strokes.

For the district west of South Fifth avenue and Fifth avenue and north of Houston street, one round of signal, 7-7-7 strokes and 6 strokes.

As soon as the necessity for the increased supply of water has ceased to exist the officer in command will, in the same manner, send one round of the signal, 7-7-7 strokes and 3 strokes.

L.—The gate-house at Central Park is connected with the Central Office by wire (Circuit No. 60), connecting with an alarm gong and telephone. Upon receipt of a signal upon the gong for increase of pressure or its discontinuance the person in charge will, after receiving the second round, answer upon the Morse key with signal 2-3, if understood, or with signal 3 if not understood. Should the morning tests upon the gong not be accurately received notice must be sent to the Central Office by telephone.

LI.—The Automatic Signal Telegraph Company is authorized to transmit to the Central Office of this Department alarms for fire received from stations in connection with their system, in the following manner, viz.:

First, the preliminary signal 2-2-2, which is to indicate that an automatic signal is about to be received, then the number of the circuit, followed by the number of the building. For example, 2-2-2-5-2-9 ("Automatic Signal for Circuit 5, Station 29"), three rounds of which will be transmitted to the Central Office upon Circuit No. 74. Upon receipt of a signal of the above character the operator will transmit one round of the same upon the combination circuits in the usual manner, followed by one round upon the gong circuits. In the event of a fire signal being received from a street box simultaneously with one from the Automatic Company, preference must in all cases be given to the street box signal, and should it appear that both signals are for one and the same fire, then the sending of the automatic signal may be dispensed with. On the other hand, if in the judgment of the operator the two signals are for different fires, he will transmit the automatic signal in the manner specified, as soon as the circuits are available for the purpose. Should an automatic signal be received and the company or companies due thereto be out of quarters, the operator will transmit a special automatic call for the next nearest engine company to proceed to the station indicated in the following manner, viz.: Eighteen continuous strokes, followed by the number of the company, the number of the circuit, and the number of the station. Upon receipt of an automatic alarm or special call, commanding officers will consult the Automatic Assignment Book, and on completion of the signal upon the gongs, the company or companies assigned to the station will proceed thereto in the usual manner.

II.—The use of the towers as lookouts have been discontinued, except that the telegraphic equipment will be maintained in readiness for use as an auxiliary means for communicating alarms in cases of an extraordinary nature. Should the lines of the Department, by reason of storm or other cause, become seriously damaged, it will be the duty of such commanding officers as have towers under their charge to establish lookouts upon the same by a detail from the company, on receipt of orders to that effect from Headquarters. Should the means of communication between such company and the Central Office be destroyed at such a time, the commanding officer will then make the detail in the absence of any special orders, and continue the same until otherwise directed from Headquarters. Immediately on the arrival of the detail on the tower, he will strike the signal 4-4-4 and the number of the tower, to which the Central Office will respond with signal 2-3 (if understood), or "3" if the signal is not understood. In case the small bell of the instrument does not respond to the touch of the key, or no reply is received, the signal will be repeated at intervals of five minutes until a response from Central Office is received. After which no other signals will be sent, except fire signals and answers to roll-call, from Central Office. Lookouts, upon discovering a fire, will locate the same according to their best judgment, and transmit to the Central Office two rounds of the nearest station, followed by the number of the tower. If the large bell of the instrument does not immediately strike the number of the station, the signal will be repeated. During the occupation of the towers by lookouts, roll-call will be sent out from Central Office at irregular intervals over the circuits connecting with the towers, by striking the number of the tower once and the Central Office signal once, to which the station called will answer by striking their tower number once.

## TOWER NUMBERS.

Spring street.....9-1  
Jefferson Market.....9-2  
Mount Morris.....9-3  
Fulton avenue.....9-5

LIII.—The steamboat Havemeyer (Engine 43) is provided with a gong instrument, combination instrument and telephone, regularly connected with the Central Office by means of a switch placed in the house upon the pier, connecting with a portable cable extending to the instruments in the engine room of the boat.

The following rules governing the handling and use of the cable and switch plug must be strictly observed: Whenever the boat is to be moved from her berth unlock the switch plug in the iron box of the switch house, remove it carefully from the porthole, close the door of the same and place the plug in the receptacle provided for it upon the boat. See that no dirt or water gets within or upon the cylinder of the plug. See that the cable is kept free from kinks. Make no attempt to clean the inside of the cylinder of the plug. On return of the boat to her berth, unlock the door of the porthole of the switch box and carefully insert the switch plug therein, and make sure the same is securely locked, after which transmit the usual return signal by the Morse key of the combination instrument upon the boat. A bell is placed upon the gong circuit within the switch house on the pier, which will strike all alarms while the cable is disconnected or the boat out of her berth. (The small bell and key instrument is for the use of the employees of the telegraph department exclusively.)

Members of the company holding keys to the door of the entrance to the switch house, upon arriving on the pier and finding the boat out of quarters, may ascertain the number of the station to which she has been called by pulling down the hook of the automatic instrument within, which will be answered by the operator at Central Office striking upon the small bell two rounds of the station to which the boat has been called.

In case no response is received to the signal from the automatic instrument, it may be repeated once only.

In case the boat has moved on a still alarm, or from any other cause her destination be not known to the operator, he will give signal 2-2-2.

LIV.—For the purpose of communicating alarms for fire from public buildings, manufactories etc., direct to this Department, a system of station numbers is hereby adopted and will be designated Special Building Signals. The alarm boxes located in buildings equipped with this system will transmit to Headquarters the preliminary signal 3-3-3, followed by the station number. For example, 3-3-3 (preliminary signal), 1-4 (station number), which indicates an alarm from building on the southwest corner of Twentieth street and Broadway.

Operators receiving a Special Building Signal will transmit two rounds of the same upon the combination and gong circuits.

On receipt of a Special Building Signal, commanding officers of companies assigned to the station indicated will proceed thereto with their apparatus in the usual manner, and should assistance be required, they will use the nearest street box for the purpose of obtaining it. The Chief of Department is hereby authorized to make such assignments, alterations, and additions thereto as he may from time to time deem necessary, at all stations now in existence or that may hereafter be established.

Should a Special Building Signal be received at Central Office simultaneously with a signal from a street box, the operator will first transmit the street box signal and follow with the Special Building Signal, unless in the judgment of the operator they are for the same fire, in which case he will omit to transmit the Building Signal.

## SPECIAL BUILDING SIGNALS.

Station.	LOCATION.	COMPANIES ASSIGNED.			Battalion Chiefs.
		Engines.	H. & L.		
12.	Hall of Records, City Hall Park.....	7	1		2
13.	174 Mott street, between Spring and Broome streets.....	20	9		3
14.	Southwest corner Broadway and Twentieth street.....	14	3		6
15.	Park Theatre, Broadway, bet. Twenty-first and Twenty-second sts. 14, 16, 1	3, 12			5, 6
16.	Northeast corner Forty-first street and Lexington avenue.....	21	2		8
17.	N. Y. Catholic Protectory, Westchester.....	45			
18.	.....				
19.	.....				
20.	.....				
21.	.....				
22.	.....				
23.	.....				
24.	.....				
25.	.....				
26.	.....				
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37.	.....				
38.	.....				
39.	.....				
40.	.....				
41.	.....				
42.	.....				
43.	.....				
44.	.....				
45.	.....				
46.	.....				
47.	.....				
48.	.....				
49.	.....				
50.	.....				
51.	.....				

LV.—The following table shows the location of each company, number of nearest street box thereto, the number of each circuit connecting therewith, and the different kinds of telegraph apparatus forming its equipment.

An \* denotes a small bell instrument in place of regular combination instrument. Where the number of the circuit does not appear no instrument is supplied of the class named in the heading.

No.	COMPANY.	LOCATION.	NEAREST STREET BOX NUMBER.	LARGE GONG AND STRIKER.	COMBINATION INSTRUMENT.	DIAL INSTRUMENT.	TELEPHONE INSTRUMENT.
				Circuit No.	Circuit No.	Circuit No.	Circuit No.
1	Engine	165 West Twenty-ninth street.....	438	28	53	50	..
2	"	530 West Forty-third street.....	514	32	53	56	56
3	"	417 West Seventeenth street.....	352	25	53	..	65
4	"	39 Liberty street.....	36	30	52	55	55
5	"	340 East Fourteenth street.....	344	26	53	..	50
6	"	100 Cedar street.....	33	30	52	..	..
7	"	22 Chambers street.....	75	29	52	{ See H. & L. }	..
8	"	165 East Fifty-first street.....	546	28	54	..	..
9	"	55 East Broadway.....	134	29	52	55	..
10	"	8 Stone street.....	7	31	52	55	..
11	"	437 East Houston street.....	246	31	52	55	55
12	"	261 William street.....	91	29	52	..	..
13	"	99 Wooster street.....	217	29	52	..	..
14	"	14 East Eighteenth street.....	359	28	53	50	50
15	"	269 Henry street.....	176	30	52	55	55
16	"	223 East Twenty-fifth street.....	385	26	54	..	65
17	"	91 Ludlow street.....	192	29	52	55	..

No.	COMPANY.	LOCATION.	NEAREST STREET BOX NUMBER.	LARGE GONG AND STRIKER. Circuit No.	COMBINATION INSTRUMENT. Circuit No.	DIAL INSTRUMENT. Circuit No.	TELEPHONE INSTRUMENT. Circuit No.	Circuit 13. Box No.	Circuit 14. Box No.	Circuit 15. Box No.	Circuit 16. Box No.	Circuit 17. Box No.	Circuit 18. Box No.
18	Engine	132 West Tenth street.....	317	25	53	50	65	559	585	545	156	248	297
19	"	355 West Twenty-fifth street.....	414	28	53	50	50	556	578	565	138	197	245
20	"	47 Marion street.....	218	29	52	..	55	551	566	586	135	199	247
21	"	216 East Fortieth street.....	485	28	54	56	..	513	527	619	171	149	198
22	"	159 East Eighty-fifth street.....	657	27	58	..	57	514	466	568	172	155	178
23	"	235 West Fifty-eighth street.....	573	25	54	56	56	472	448	528	225	175	158
24	"	78 Morton street.....	253	28	53	55	55	452	425	467	244	173	195
25	"	342 Fifth street.....	272	26	53	50	..	373	269	†425	242	243	174
26	"	220 West Thirty-seventh street.....	457	25	53	56	..			388	239		
27	"	173 Franklin street.....	122	31	52	..	..	Circuit 19. Box No.	Circuit 20. Box No.	Circuit 21. Box No.	Circuit 22. Box No.	Circuit 23. Box No.	Circuit 24. Box No.
28	"	604 East Eleventh street.....	327	26	53	..	50	267	266	265	292	264	382
29	"	193 Fulton street.....	43	30	52	{See H. & L. 10}	..	273	272	271	291	293	421
30	"	253 Spring street.....	215	31	52*	55	55	176	275	274	365	295	459
31	"	116 Leonard street.....	126	30	52	55	..	196	327	226	363	362	482
32	"	108 John street.....	47	31	52	55	..	246	368	228	358	359	484
33	"	252 Mercer street.....	264	26	53*	50	50	229	367	277	354	357	542
34	"	440 West Thirty-third street.....	434	25	53	56	..	298	344	328	351	334	558
35	"	223 East One Hundred and Nineteenth street	748	27	54	57	57	346	342	366	331	332	573
36	"	2333 Fourth avenue.....	766	27	54	..	..	326	338	323	312	313	575
37	"	58 Lawrence street.....	762	27	54	57	..	322	314	321	335	282	587
38	"	{Tenth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets.....}	833	27	54	57	..	316	254	317	315	284	529
39	"	159 East Sixty-seventh street.....	626	32	58	56	..	283	257	336	255	251	449
40	"	{Sixty-eighth street, between Tenth avenue and Boulevard.....}	615	27	54	56	..	281	262	285	253	212	389
41	"	{Third avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth streets.....}	795	27	54*	..	..	231		252	258		386
42	"	{Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.....}	896	32	58*	57	..	234		256			
43	"	Pier 1, North river (Fire boat).....	5	31	52	..	55	Circuit 33. Box No.	Circuit 34. Box No.	Circuit 35. Box No.	Circuit 36. Box No.	Circuit 37. Box No.	Circuit 38. Box No.
44	"	221 East Seventy-fifth street.....	636	28	58	..	57	562	563	376	288	289	625
45	"	Division street, near Boston road.....	926	32	58*	57	57	617	584	417	318	436	524
46	"	Morris street, near Washington avenue....	929	32	58*	57	..	633	583	438	377	457	655
47	"	{One Hundred and Forty-ninth street, between Eagle and Robbins avenues....}	797	32	58*	..	..	647	678	477	481	478	844
48	"	Thomas avenue, Fordham.....	937	32	58	57	57	665	717	522	541	654	856
1	H. & L.	26 Chambers street.....	75	29	52	55	55	727	747	516	519	682	865
2	"	126 East Fiftieth street.....	545	26	54	56	56	756	765	572	475	671	915
3	"	108 East Thirtieth street.....	342	26	54	50	65	766	785	571	454	651	881
4	"	788 Eighth avenue.....	535	25	54	56	56	786	753	533	451	642	861
5	"	96 Charles street.....	285	25	53	50	50	763	762	433	434	622	841
6	"	77 Canal street.....	151	31	52	55	55	761	782	414	439	615	832
7	"	217 East Twenty-eighth street.....	423	28	54	56	56	721	731	337	437	554	745
8	"	7 North Moore street.....	143	29	52	55	55	672	713	286	353	515	456
9	"	195 Elizabeth street.....	219	30	52	55	55	652	631		355	†371	
10	"	191 Fulton street.....	43	30	52	55	55	621	623				
11	"	742 Fifth street.....	276	26	53	50	50	Circuit 39. Box No.	Circuit 40. Box No.	Circuit 41. Box No.	Circuit 42. Box No.	Circuit 43. Box No.	Circuit 44. Box No.
12	"	243 West Twentieth street.....	355	28	53	50	..	379	426	535	613	624	624
13	"	159 East Eighty-seventh street.....	665	27	54	57	..	441	427	823	614	653	684
14	"	120 East One Hundred and Twenty-fifth street	755	27	54	57	57	462	378	831	594	714	724
16	"	{Tenth avenue, between Ninety-seventh and Ninety-eighth streets.....}	672	28	54	57	..	544	418	833	†653	722	736
17	"	{One Hundred and Forty-third street, near Third avenue.....}	792	27	54	57	..	564	458	855	663	783	767
18	"	{One Hundred and Sixty-sixth street, between Washington and Third avenues.}	895	32	58*	..	..	577	517	857	822	821	758
19	"	{Ogden avenue, between Birch and Union streets.....}	829	32	58	57	..	567	518	863	842	791	738
								547	523	884	853	788	719
								486	543	867	864	755	688
								465	537	845	872	748	664
								446	557	837	883	726	657
								423	576	669	919	675	658
								384	463	646	858	656	638
								268	445		836	634	627
											818	618	343
								Circuit 45. Box No.	Circuit 46. Box No.	Circuit 47. Box No.	Circuit 48. Box No.	Circuit 49. Box No.	Circuit 50. Box No.
								429	442	419	635	626	697
								825	814	461	644	659	771
								787	819	521	735	639	772
								754	764	561	729	569	774
								789	768	574	†729	†569	869
								757	749	553	†729	†569	924
								759	687	†551	739	589	935
								737	667	532	†739	†589	925
								677	648	†513	†739	579	923
								668	636	†471	†739	†579	922
								649	629	416	†739	548	921
								645	588	372	728	487	891
								637			718	387	829
											679		581
											596		
											424		

† Duplicate boxes.

## GONG CIRCUITS.

LVI.—The following table shows the stations in the order in which they are located upon the different circuits:

BOX CIRCUITS.					
Circuit 1. Box No.	Circuit 2. Box No.	Circuit 3. Box No.	Circuit 4. Box No.	Circuit 5. Box No.	Circuit 6. Box No.
218	217	142	73	148	219
189	123	83	71	127	169
147	186	63	51	67	146
89	132	44	53	46	88
68	128	33	24	26	49
39	92	21	15	16	29
17	58	4	27	7	3
8	38	28	59	12	13
2	9	48	96	23	32
5	6	77	66	65	41
43	61	97	87	141	62
74	121	129	125	163	81
84	181	145	143	216	143
165	214	185	166		184
Circuit 7. Box No.	Circuit 8. Box No.	Circuit 9. Box No.	Circuit 10. Box No.	Circuit 11. Box No.	Circuit 12. Box No.
235	241	223	233	236	352
183	191	188	182	232	374
162	151	152	164	213	413
122	193	134	72	82	435
64	157	99	42	85	474
22	137	78	36	75	534
14	94	55	54	69	552
25	37	47	126	139	531
57	45	31	93	154	512
95	56	35	79	177	471
98	91	52	136	227	453
133	86	124	153	194	432
131	144	161	192	224	412
187	167	215	221	238	371
Circuit 13. Box No.	Circuit 14. Box No.	Circuit 15. Box No.	Circuit 16. Box No.	Circuit 17. Box No.	Circuit 18. Box No.
356	381	383	294	263	261
375	422	385	296	319	287
415	443	447	329	341	339
455	483	464	324	324	361
476	525	485	179	345	364
536	546	526	159	276	325

Circuit 25.	Headquarters 9th Battalion. Engine Co. 35. Chief of 5th Battalion quarters. Engine Co. 26. Headquarters 7th Battalion. Hook and Ladder Co. 4. Engine Co. 23. Superintendent of Telegraph. Engine Co. 34. " 3. President Gorman's residence. Engine Co. 18. Hook and Ladder Co. 5. Engine Co. 24.	Circuit 28. Central Office. Central (Insurance) Patrol. New York Hospital. Engine Co. 14. Hook and Ladder Co. 12. Sup't Insurance Patrol. Engine Co. 19. " 1. Upper (Insurance) Patrol. Hook and Ladder Co. 16. Ninety-ninth Street Hospital. Engine Co. 44. " 8. " 21. Hook and Ladder Co. 7.	Circuit 31. Central Office. Police Headquarters. Driver, Chief of Department. Engine Co. 11. Chief of 4th Battalion quarters. Hook and Ladder Co. 6. Engine Co. 32. " 10. " 43. Headquarters 1st Battalion. Lower (Insurance) Patrol. Engine Co. 27. " 30. Repair Shops.	Circuit 32. Central Office. Engine Co. 39. East Side (Insurance) Patrol. Engine Co. 47. Hook and Ladder Co. 18. Engine Co. 42. " 45. " 46. Commissioner Purroy's residence. Engine Co. 48. Hook and Ladder Co. 19. Engine Co. 2.	Circuit 26. Central Office. Engine Co. 33. Commissioner Van Cott's residence. Headquarters 6th Battalion. Hook and Ladder Co. 3. Engine Co. 16. Headquarters 8th Battalion. Hook and Ladder Co. 2. Bellevue Hospital. Engine Co. 5. " 28. Hook and Ladder Co. 11. Engine Co. 25.	Circuit 27. Central Office. Chief of Battalion in charge of Repair Shops quarters. Engine Co. 40. " 37. " 38. " 41. Hook and Ladder Co. 17. Engine Co. 36. Hook and Ladder Co. 14.	Circuit 29. Central Office. Engine Co. 13. Hook and Ladder Co. 8. Chambers Street Hospital. Engine Co. 7. Headquarters 2d Battalion. Hook and Ladder Co. 1. Engine Co. 12. " 9. Headquarters 4th Battalion. Engine Co. 17. Ass't Chief of Department's quarters. Engine Co. 20. Chief of 1st Battalion quarters.	Circuit 30. Central Office.
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## COMBINATION CIRCUITS.

Circuit 52.	Engine Co. 33. Central (Insurance) Patrol. Engine Co. 25. Hook and Ladder Co. 11. Engine Co. 28. " 5. " 14. Hook and Ladder Co. 12. Engine Co. 1. Upper (Insurance) Patrol. Engine Co. 26. " 2. " 34. " 19. " 3. Hook and Ladder Co. 5. Engine Co. 18. " 24.	Engine Co. 37. " 38. " 41. Hook and Ladder Co. 17. Engine Co. 36. Hook and Ladder Co. 14. Engine Co. 35. Hook and Ladder Co. 13. Engine Co. 8. Hook and Ladder Co. 2. Engine Co. 21. Hook and Ladder Co. 7. Engine Co. 16.
Circuit 53.	Central Office. Engine Co. 20. Assistant Chief of Department. Hook and Ladder Co. 9. Engine Co. 17. " 11. " 15. Hook and Ladder Co. 6. Engine Co. 9. " 31. " 7. Hook and Ladder Co. 1. Engine Co. 12. " 32. " 10. " 43. " 4. " 6. Hook and Ladder Co. 10. Lower (Insurance) Patrol. Engine Co. 27. Hook and Ladder Co. 8. Engine Co. 30. " 13.	Circuit 58. Central Office. Engine Co. 39. " 44. " 22. East Side (Insurance) Patrol. Engine Co. 47. Hook and Ladder Co. 18. Engine Co. 42. Fulton Avenue Tower. Engine Co. 45. " 46. " 48. Hook and Ladder Co. 19.

## DIAL AND TELEPHONE CIRCUITS.

Circuit 50.	Engine Co. 9. Hook and Ladder Co. 6. Headquarters 4th Battalion. Engine Co. 17. " 15. " 11. Hook and Ladder Co. 9. Engine Co. 20.	Engine Co. 35. Hook and Ladder Co. 14. " 17. Engine Co. 42. " 45. " 46. " 48. Commissioner Purroy's residence. Hook and Ladder Co. 19. Engine Co. 38. " 37. Hook and Ladder Co. 16.
Circuit 51.	Central Office. Spring Street Tower. Jefferson Market Tower. Mount Morris Tower. Superintendent Telegraph.	Circuit 60.
Circuit 52.	Central Office. Repair Shops. Engine Co. 26. " 34. " 2. Hook and Ladder Co. 4. Engine Co. 40. " 23. " 39. Hook and Ladder Co. 2. Engine Co. 21. Hook and Ladder Co. 7.	Circuit 61.
Circuit 53.	Central Office. Repair Shops. Engine Co. 24. " 30. Hook and Ladder Co. 8. " 10. Engine Co. 43. " 10. " 4. " 32. Hook and Ladder Co. 1. Engine Co. 31.	Circuit 62.
Circuit 54.	Central Office. Hook and Ladder Co. 3. Headquarters 6th Battalion. " 7th Battalion. Hook and Ladder Co. 4. Engine Co. 23. " 40. Hook and Ladder Co. 16.	Circuit 63.
Circuit 55.	Central Office. Repair Shops. Engine Co. 24. " 30. Hook and Ladder Co. 8. " 10. Engine Co. 43. " 10. " 4. " 32. Hook and Ladder Co. 1. Engine Co. 31.	Circuit 64.
Circuit 56.	Central Office. Repair Shops. Engine Co. 26. " 34. " 2. Hook and Ladder Co. 4. Engine Co. 40. " 23. " 39. Hook and Ladder Co. 2. Engine Co. 21. Hook and Ladder Co. 7.	Circuit 65.
Circuit 57.	Central Office. Engine Co. 44. " 22. Hook and Ladder Co. 13.	Circuit 66.

## SPECIAL CIRCUITS.

Circuit 51.	Circuit 60.	Circuit 63.
Central Office. Spring Street Tower. Jefferson Market Tower. Mount Morris Tower. Superintendent Telegraph.	Central Office. Central Park Reservoir.  Circuit 62. Central Office. Police Headquarters.	Central Office. Repair Shops. Hospital Stables.

LVII.—The following recommendation of assignments by the Chief of Department to duty at the alarm stations herein named, are approved and promulgated for the information of the force:

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
1	2	Whitehall and State streets.....	First... 10, 4, 6, 43 Second... 32, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	3	Broad and Water streets.....	First... 10, 4, 32 Second... 6, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
3	4	Broad and South streets.....	First... 10, 4, 32, 43 Second... 6, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
1	5	Battery place and West street.....	First... 10, 6, 4, 43 Second... 29, 32, 7, 12 Third... 27, 31, 9, 13	10, 1 8, 9 6	1, 2 3, 4 5, 6	
2	6	Battery place and Broadway.....	First... 10, 6, 4 Second... 32, 29, 7, 12 Third... 31, 27, 9, 13	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	7	Stone, near Whitehall street.....	First... 10, 4, 6 Second... 32, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
1	8	Stone street and Coenties alley.....	First... 10, 4, 32 Second... 6, 29, 7, 12 Third... 31, 9, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
2	9	Front street and Coenties slip.....	First... 10, 32, 4, 43 Second... 6, 29, 7, 12 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	12	Washington and Morris streets.....	First... 10, 6, 4, 43 Second... 29, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	13	Broadway and Morris street.....	First... 10, 6, 4 Second... 29, 32, 7, 12 Third... 31, 27, 9, 13	10, 1 8, 6 9	1, 2 3, 4 5, 6	
7	14	New, between Exchange place and Beaver street....	First... 10, 4, 6 Second... 32, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
4	15	Beaver and William streets.....	First... 10, 4, 32 Second... 6, 29, 7, 12 Third... 9, 31, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	16	Old slip and Water street.....	First... 10, 32, 4 Second... 6, 29, 7, 12 Third... 9, 31, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
1	17	Old slip and South street.....	First... 10, 32, 4, 43 Second... 6, 29, 7, 12 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
..	18	.....	First... .. Second... .. Third... ..	.....	.....	.....
..	19	.....	First... .. Second... .. Third... ..	.....	.....	.....
3	21	West and Rector streets.....	First... 6, 10, 4, 43 Second... 29, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
7	22	Greenwich and Rector streets.....	First... 6, 4, 10 Second... 29, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	23	Broadway and Rector street.....	First... 6, 4, 10 Second... 29, 32, 7, 12 Third... 31, 27, 9, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
4	24	Nassau and Wall streets.....	First... 4, 6, 10 Second... 32, 29, 7, 12 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
7	25	William and Cedar streets.....	First... 4, 6, 32 Second... 10, 29, 12, 7 Third... 9, 31, 27, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	26	Wall, between William and Pearl streets.....	First... 4, 32, 10 Second... 6, 29, 7, 12 Third... 9, 31, 27, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
4	27	Wall and Water streets.....	First... 32, 10, 4 Second... 6, 29, 12, 7 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
3	28	Wall and South streets.....	First... 32, 10, 4, 43 Second... 6, 29, 12, 7 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	29	Maiden lane and Front street.....	First... 32, 4, 6, 43 Second... 10, 29, 12, 7 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
9	31	West and Cedar streets.....	First... 6, 29, 4, 43 Second... 10, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	32	Greenwich and Albany streets.....	First... 6, 29, 4 Second... 10, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
3	33	Church and Cedar streets.....	First... 6, 29, 4 Second... 10, 32, 7, 12 Third... 27, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
..	34	.....	First... .. Second... .. Third... ..	.....	.....	.....
9	35	Broadway and Maiden lane.....	First... 6, 4, 29 Second... 32, 7, 10, 12 Third... 31, 27, 9, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
10	36	Liberty, near Nassau street.....	First... 4, 6, 32 Second... 29, 10, 7, 12 Third... 31, 27, 9, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
8	37	Maiden lane and Pearl street.....	First... 32, 4, 6 Second... 10, 29, 12, 7 Third... 9, 31, 27, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
2	38	Burling slip, near Water street.....	First... 32, 4, 6, 43 Second... 10, 29, 12, 7 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
1	39	Fulton and South streets.....	First... 32, 4, 29, 43 Second... 12, 6, 10, 7 Third... 9, 31, 15, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	41	Washington and Fulton streets.....	First... 29, 6, 4, 43 Second... 7, 27, 32, 12 Third... 10, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
10	42	Greenwich and Cortlandt streets.....	First... 29, 6, 4, 43 Second... 7, 32, 10, 27 Third... 12, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
1	43	Church and Fulton streets.....	First... 29, 6, 4 Second... 7, 32, 12, 10 Third... 27, 31, 9, 13	10, 1 8, 6 9	1, 2 3, 4 5, 6	
3	44	Broadway and Vesey street.....	First... 29, 4, 6 Second... 7, 12, 32, 31 Third... 10, 27, 9, 13	10, 1 8, 6 9	1, 2 3, 4 5, 6	
8	45	Nassau and John streets.....	First... 4, 32, 29 Second... 6, 7, 12, 10 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
5	46	William and Fulton streets.....	First... 32, 4, 29 Second... 12, 7, 6, 10 Third... 31, 9, 27, 20	10, 1 8, 6 9	1, 2 3, 4 5, 6	
9	47	John and Gold streets.....	First... 32, 4, 6 Second... 29, 12, 7, 10 Third... 31, 9, 27, 17	10, 1 8, 6 9	1, 2 3, 4 5, 6	
3	48	Water, near Fulton street.....	First... 32, 4, 29 Second... 12, 6, 10, 7 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
6	49	Water and Beekman streets.....	First... 32, 4, 12 Second... 29, 7, 6, 10 Third... 9, 31, 27, 15	10, 1 8, 6 9	1, 2 3, 4 5, 6	
4	51	Washington and Barclay streets.....	First... 29, 6, 27, 43 Second... 7, 4, 12, 31 Third... 32, 10, 9, 30	10, 8 1, 9 6	1, 2 3, 4 5, 6	
9	52	Greenwich and Vesey streets.....	First... 29, 6, 4 Second... 27, 7, 12, 32 Third... 10, 31, 9, 30	10, 8 1, 9 6	1, 2 3, 4 5, 6	
4	53	Dey and West streets.....	First... 29, 6, 4, 43 Second... 7, 27, 32, 12 Third... 10, 31, 9, 30	10, 1 8, 6 9	1, 2 3, 4 5, 6	
10	54	Nassau and Beekman streets.....	First... 7, 4, 12 Second... 29, 6, 32, 31 Third... 9, 10, 27, 20	1, 10 8, 6 9	1, 2 3, 4 5, 6	
9	55	William and Spruce streets.....	First... 7, 12, 32 Second... 4, 29, 31, 6 Third... 9, 10, 27, 20	1, 10 8, 6 9	1, 2 3, 4 5, 6	
8	56	Beekman, between William and Gold streets.....	First... 12, 7, 32 Second... 4, 29, 6, 31 Third... 9, 10, 27, 20	1, 10 8, 6 9	1, 2 3, 4 5, 6	
7	57	Beekman and Cliff streets.....	First... 32, 4, 12 Second... 7, 29, 6, 9 Third... 31, 10, 27, 15	1, 10 8, 6 9	1, 2 3, 4 5, 6	
2	58	Peck slip and Pearl street.....	First... 32, 12, 4 Second... 7, 29, 9, 6 Third... 31, 10, 27, 15	1, 10 6, 8 9	1, 2 3, 4 5, 6	
4	59	Peck slip and South street.....	First... 32, 12, 4, 43 Second... 7, 29, 9, 6 Third... 31, 10, 27, 15	1, 10 6, 8 9	1, 2 3, 4 5, 6	

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
2	61	Murray, near West street.....	{ First... 29, 27, 6, 43 Second... 7, 4, 31, 12 Third... 32, 10, 30, 9	10, 8 1, 9 5, 6	1, 2 3, 4 5, 6		4	125	Broadway and White street.....	{ First... 31, 27, 7 Second... 13, 20, 12, 9 Third... 30, 29, 6, 4	8, 1 10, 9 10, 6	2, 3 1, 5 4, 6	
6	62	Greenwich and Murray streets.....	{ First... 29, 27, 6 Second... 7, 4, 31, 12 Third... 32, 10, 30, 9	10, 8 1, 9 5, 6	1, 2 3, 4 5, 6		10	126	Leonard, near Elm street.....	{ First... 31, 7, 12 Second... 27, 9, 20, 29 Third... 13, 30, 4, 32	1, 8 10, 9 10, 6	2, 3 1, 5 4, 6	
3	63	Murray, near Church street.....	{ First... 29, 7, 6 Second... 27, 12, 31, 4 Third... 32, 9, 10, 13	10, 1 8, 9 5, 6	1, 2 3, 4 5, 6		5	127	Walker and Elm streets.....	{ First... 31, 7, 12 Second... 20, 9, 27, 13 Third... 29, 30, 4, 17	1, 8 9, 10 10, 6	2, 3 1, 4 5, 6	
7	64	Church and Barclay streets.....	{ First... 29, 6, 7 Second... 4, 27, 12, 31 Third... 32, 10, 9, 13	10, 1 8, 9 5, 6	1, 2 3, 4 5, 6		2	128	Franklin and Centre streets.....	{ First... 31, 7, 12 Second... 9, 27, 20, 29 Third... 13, 4, 17, 32	1, 8 9, 10 10, 6	2, 4 1, 6 3, 5	
5	65	Broadway and Murray street.....	{ First... 7, 29, 12 Second... 31, 6, 4, 27 Third... 32, 9, 10, 13	1, 10 8, 9 5, 6	1, 2 3, 4 5, 6		3	129	Mulberry and Bayard streets.....	{ First... 31, 12, 9 Second... 7, 20, 27, 13 Third... 17, 32, 29, 15	1, 6 9, 8 10	2, 4 1, 6 3, 5	
..	66	Frankfort and Chatham streets.....	{ First... 7, 12, 29 Second... 4, 31, 6, 9 Third... 32, 27, 10, 20	1, 10 8, 6 9	1, 2 3, 4 5, 6		7	131	Elizabeth and Canal streets.....	{ First... 9, 31, 12 Second... 20, 7, 17, 15 Third... 27, 13, 30, 32	9, 6 1, 8 10	2, 4 1, 6 3, 5	
5	67	Frankfort and Gold streets.....	{ First... 12, 7, 32 Second... 4, 29, 31, 9 Third... 6, 10, 27, 17	1, 10 8, 6 9	1, 2 3, 4 5, 6		2	132	Bowery and Bayard street.....	{ First... 9, 12, 31 Second... 7, 17, 20, 15 Third... 27, 32, 29, 13	1, 6 9, 8 10	2, 4 1, 6 3, 5	
1	68	Frankfort and Pearl streets.....	{ First... 12, 32, 7 Second... 9, 4, 31, 29 Third... 6, 10, 17, 15	1, 10 8, 6 9	1, 2 3, 4 5, 6		7	133	Forsyth and Division streets.....	{ First... 9, 12, 17 Second... 31, 7, 15, 20 Third... 27, 32, 29, 4	6, 1 9, 8 10	2, 4 1, 6 3, 5	
11	69	Water and Dover streets.....	{ First... 12, 32, 7 Second... 9, 4, 31, 29 Third... 6, 10, 15, 17	1, 10 8, 6 9	1, 2 3, 4 5, 6		9	134	East Broadway, bet. Catharine and Market streets..	{ First... 9, 12, 7 Second... 31, 17, 15, 32 Third... 27, 29, 20, 4	1, 6 9, 8 10	2, 4 1, 6 3, 5	
4	71	West and Chambers streets.....	{ First... 27, 29, 7, 43 Second... 6, 12, 31, 4 Third... 30, 32, 9, 13	10, 8 1, 9 5	1, 2 3, 4 5, 6		16	135	Pike and Madison streets.....	{ First... 9, 15, 17 Second... 12, 7, 31, 32 Third... 20, 25, 11, 29	6, 1 9, 8 11	2, 4 1, 6 3, 5	
10	72	Greenwich and Reade streets.....	{ First... 7, 29, 7 Second... 31, 6, 12, 4 Third... 30, 32, 13, 9	10, 8 1, 9 5	2, 3 1, 5 4, 6		10	136	Pike and Cherry streets.....	{ First... 9, 15, 17 Second... 12, 7, 32, 31 Third... 4, 20, 25, 11	6, 1 9, 8 11	2, 4 1, 6 3, 5	
4	73	West Broadway and Chambers street.....	{ First... 27, 7, 29 Second... 12, 31, 6, 4 Third... 30, 9, 13, 32	1, 8 10, 9 5	1, 2 3, 5 4, 6		8	137	Monroe and Rutgers streets.....	{ First... 15, 9, 17 Second... 12, 7, 31, 32 Third... 11, 20, 25, 4	6, 1 9, 8 11	2, 4 1, 6 3, 5	
1	74	Broadway and Chambers street.....	{ First... 7, 12, 31 Second... 29, 27, 4, 6 Third... 9, 32, 10, 13	1, 10 8, 9 6	1, 2 3, 5 4, 6		16	138	Cherry and Jefferson streets.....	{ First... 15, 9, 17, 43 Second... 12, 7, 11, 32 Third... 31, 20, 25, 4	6, 1 1, 11 8	2, 4 3, 6 1, 5	
11	75	Centre and Chambers streets.....	{ First... 7, 12, 31 Second... 29, 9, 4, 6 Third... 27, 32, 20, 10	1, 10 8, 6 9	1, 2 3, 4 5, 6		11	139	South and Rutgers streets.....	{ First... 15, 9, 17, 43 Second... 12, 7, 32, 31 Third... 11, 4, 20, 25	6, 1 9, 8 11	2, 4 1, 6 3, 5	
..	76	.....	{ First... Second... Third...}	..... ..... .....	..... ..... .....		5	141	West and Hubert streets.....	{ First... 27, 30, 31, 43 Second... 13, 29, 24, 7 Third... 6, 12, 20, 4	8, 10 1, 5 9	2, 3 1, 5 4, 6	
3	77	Cherry and Roosevelt streets.....	{ First... 12, 7, 9 Second... 32, 4, 31, 29 Third... 6, 10, 27, 17	1, 10 6, 9 8	1, 2 3, 4 5, 6		3	142	Hudson and Beach streets.....	{ First... 27, 31, 30 Second... 13, 7, 29, 24 Third... 12, 20, 6, 9	8, 1 10, 5 9	2, 3 1, 5 4, 6	
9	78	South and Roosevelt streets.....	{ First... 12, 7, 32, 43 Second... 9, 4, 31, 29 Third... 10, 6, 15, 17	1, 10 6, 9 8	1, 2 3, 4 5, 6		6	143	North Moore street, near West Broadway.....	{ First... 27, 31, 30 Second... 13, 7, 29, 12 Third... 20, 9, 24, 6	8, 1 10, 9 5	2, 3 1, 5 4, 6	
10	79	James slip and Water street.....	{ First... 12, 9, 7, 43 Second... 32, 31, 4, 29 Third... 10, 6, 15, 17	1, 6 10, 9 8	1, 2 4, 6 3, 5		8	144	Church and Walker streets.....	{ First... 27, 31, 13 Second... 30, 7, 20, 29 Third... 12, 9, 6, 24	8, 1 10, 9 6	2, 3 1, 5 4, 6	
6	81	West and Harrison streets.....	{ First... 27, 31, 29, 43 Second... 7, 6, 12, 30 Third... 13, 4, 9, 24	8, 10 1, 5 9	2, 3 1, 5 4, 6		3	145	Broadway and Canal street.....	{ First... 31, 20, 13 Second... 27, 7, 30, 12 Third... 9, 33, 29, 17	8, 1 9, 10 6	2, 3 1, 4 5, 6	
11	82	Washington and Jay streets.....	{ First... 27, 31, 29, 43 Second... 7, 6, 12, 30 Third... 4, 13, 9, 24	8, 10 1, 5 9	2, 3 1, 5 4, 6		6	146	Centre and Howard streets.....	{ First... 31, 7, 20 Second... 12, 9, 27, 13 Third... 30, 17, 29, 33	8, 6 9, 1 10	2, 3 1, 4 5, 6	
3	83	Hudson and Duane streets.....	{ First... 27, 7, 31 Second... 29, 12, 6, 30 Third... 4, 13, 9, 32	8, 1 10, 9 5	2, 3 1, 5 4, 6		1	147	Canal and Baxter streets.....	{ First... 31, 12, 9 Second... 20, 7, 27, 13 Third... 17, 30, 15, 29	9, 6 1, 8 10	2, 4 1, 3 5, 6	
1	84	West Broadway and Worth street.....	{ First... 27, 31, 7 Second... 29, 12, 30, 13 Third... 9, 6, 4, 20	8, 1 10, 9 5	2, 3 1, 5 4, 6		5	148	Hester and Mott streets.....	{ First... 20, 31, 9 Second... 12, 17, 7, 13 Third... 15, 27, 30, 33	9, 6 8, 1 10	2, 4 3, 6 1, 5	
11	85	Church and Duane streets.....	{ First... 7, 31, 27 Second... 29, 12, 6, 4 Third... 9, 13, 30, 32	1, 8 10, 9 6	2, 3 1, 5 4, 6		17	149	Water and Clinton streets.....	{ First... 15, 17, 9, 43 Second... 11, 12, 7, 32 Third... 20, 31, 25, 28	6, 11 9, 1 8	2, 4 3, 6 1, 5	
8	86	Broadway and Thomas street.....	{ First... 31, 7, 27 Second... 12, 29, 9, 6 Third... 4, 13, 20, 32	1, 8 10, 9 6	1, 2 3, 4 5, 6		8	151	Canal and Eldridge streets.....	{ First... 9, 17, 15 Second... 12, 31, 7, 20 Third... 25, 27, 13, 32	6, 9 1, 8 11	2, 4 3, 6 1, 5	
4	87	Reade and Elm streets.....	{ First... 7, 31, 12 Second... 27, 29, 9, 4 Third... 6, 32, 20, 30	1, 10 8, 9 5	1, 2 3, 4 5, 6		9	152	Pike and Division streets.....	{ First... 9, 17, 15 Second... 12, 31, 7, 20 Third... 25, 32, 11, 27	6, 1 9, 8 11	2, 4 1, 6 3, 5	
6	88	Centre and Pearl streets.....	{ First... 7, 31, 12 Second... 9, 27, 29, 4 Third... 20, 6, 32, 17	1, 8 10, 9 6	1, 2 3, 4 5, 6		10	153	Canal and Division streets.....	{ First... 9, 17, 15 Second... 12, 7, 31, 20 Third... 11, 25, 32, 27	6, 9 1, 8 11	2, 4 3, 6 1, 5	
1	89	Baxter and Park streets.....	{ First... 12, 7, 31 Second... 9, 27, 20, 32 Third... 29, 4, 6, 17	1, 8 10, 6 9	2, 4 1, 6 3, 5		11	154	Madison and Clinton streets.....	{ First... 15, 17, 9 Second... 11, 12, 7, 31 Third... 20, 25, 32, 28	6, 9 11, 1 8	2, 4 3, 6 1, 5	
8	91	William, near Chambers street.....	{ First... 12, 7, 31 Second... 9, 29, 4, 32 Third... 6, 27, 20, 17	1, 10 8, 6 9	1, 2 3, 4 5, 6		17	155	Monroe and Montgomery streets.....	{ First... 15, 17, 9 Second... 11, 12, 7, 20 Third... 31, 25, 28, 32	6, 11 9, 1 8	2, 4 3, 6 1, 5	
2	92	New Bowery and Chambers street.....	{ First... 12, 7, 9 Second... 32, 31, 29, 4 Third... 6, 27, 17, 15	1, 10 6, 9 8	1, 2 4, 6 3, 5		16	156	South and Montgomery streets.....	{ First... 15, 17, 9, 43 Second... 11, 12, 7, 32 Third... 20, 31, 25, 28	6, 11 9, 1 8	2, 4 3, 6 1, 5	
10	93	Chatham and Worth streets.....	{ First... 9, 12, 7 Second... 31, 32, 27, 29 Third... 4, 20, 15, 6	1, 6 8, 10 9	2, 4 1, 6 3, 5		8	157	Madison and Scammel streets.....	{ First... 15, 17, 11 Second... 9, 12, 28, 7 Third... 20, 25, 31, 32	6, 11 9, 1 8	4, 6 2, 3 1, 5	
8	94	Catharine and Madison streets.....	{ First... 9, 12, 7 Second... 31, 32, 15, 17 Third... 4, 29, 27, 20	1, 6 9, 8 10	2, 4 1, 6 3, 5		18	158	Water and Scammel streets.....	{ First... 15, 17, 11, 43 Second... 9, 12, 7, 28 Third... 32, 20, 25, 31	6, 11 9, 1 8	4, 6 2, 3 1, 5	
7	95	James and Oak streets.....	{ First... 12, 9, 7 Second... 31, 32, 4, 29 Third... 6, 15, 27, 17	1, 6 10, 8 9	2, 4 1, 6 3, 5		16	159	Jackson and Front streets.....	{ First... 15, 11, 17, 43 Second... 9, 12, 28, 32 Third... 25, 20, 7, 31	6, 11 9, 1 8	4, 6 2, 3 1, 5	
4	96	Catharine and Cherry streets.....	{ First... 9, 12, 7 Second... 32, 31, 4, 15 Third... 29, 17, 6, 27	1, 6 10, 9 8	2, 4 1, 6 3, 5		9	162	West and Desbrosses streets.....	{ First... 27, 30, 24, 43 Second... 13, 31, 29, 7 Third... 20, 6, 12, 33	8, 10 5, 1 9	3, 5 1, 2 4, 6	
3	97	Catharine slip and South street.....	{ First... 9, 12, 7, 43 Second... 32, 31, 4, 15 Third... 29, 17, 6, 27	1, 6 10, 9 8	2, 4 1, 6 3, 5		7	162	Greenwich and Vestry streets.....	{ First... 27, 30, 24 Second... 13, 31, 29, 7 Third... 20, 6, 12, 33	8, 10 1, 5 9	2, 3 1, 5 4, 6	
7	98	Market and Monroe streets.....	{ First... 9, 12, 7 Second... 15, 17, 31, 32 Third... 29, 4, 20, 27	1, 6 9, 10 8	2, 4 1, 6 3, 5		5	163	Hudson and Canal streets.....	{ First... 30, 27, 13 Second... 24, 31, 20, 7 Third... 29, 33, 12, 18	8, 5 1, 9 10	3, 5 1, 2 4, 6	
9	99	Market slip and South street.....	{ First... 9, 7, 12, 43 Second... 32, 15, 17, 31 Third... 4, 29, 20, 6	1, 6 9, 10 8	2, 4 1, 6 3, 5		10	164	Hudson and Laight streets.....	{ First... 27, 30, 13 Second... 31, 24, 7, 20 Third... 29, 12, 6, 33	8, 1 10, 5 9	3, 5 1, 5 4, 6	
2	121	Washington and North Moore streets.....	{ First... 27, 31, 29, 43 Second... 30, 7, 13, 6 Third... 12, 24, 4, 9	8, 10 1, 5 9	2, 3 1, 5 4, 6		1	165	West Broadway and Canal street.....	{ First... 27, 13, 30 Second... 31, 20, 7, 24 Third... 33, 29, 12, 9	8, 1 9, 10 5	2, 3 1, 5 4, 6	
7	122	Hudson and Franklin streets.....	{ First... 27, 31, 7 Second... 30, 29, 13, 12 Third... 6, 9, 24, 20	8, 1 10, 9 5	2, 3 1, 5 4, 6		4	166	Grand and Greene streets.....	{ First... 13, 20, 30 Second... 31, 27, 33, 7 Third... 17, 9, 12, 24	8, 9 1, 10 6	3, 5 4, 6 1, 5	
2	123	Broome and Mercer streets.....	{ First... 13, 20, 30 Second... 33, 31, 17, 27 Third... 7, 9, 25, 24	9, 8 1, 6 10	2, 3 3, 5 1, 4		8	167	Broadway and Grand street.....	{ First... 20, 13, 31 Second... 30, 27, 33, 7 Third... 17, 12, 9, 29	8, 9 1, 6 10	2, 3 4, 6 1, 5	
124	124	Church and Leonard streets.....	{ First... 31, 27, 7 Second... 29, 12, 13, 30 Third... 9, 6, 20, 4	8, 1 10, 9 6	2, 3 1, 5 4, 6		7	168	Grand and Mulberry streets.....	{ First... 20, 31, 17 Second... 13, 12, 9, 7 Third... 30, 33, 27, 15	9, 8 6, 1 3	3, 4 3, 6 1, 5	

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
6	169	Bowery and Hester street.....	{ First ... 9, 17, 20 Second .. 12, 31, 7, 15 Third ... 13, 27, 25, 30	9, 6 1, 8 10	2, 4 3, 6 1, 5		21	226	Stanton and Attorney streets .....	{ First ... 11, 17, 15 Second .. 25, 28, 20, 9 Third ... 33, 13, 5, 12	6, 11 9, 3 1	4, 6 2, 3 1, 5	
16	171	Hester and Orchard streets .....	{ First ... 17, 9, 15 Second .. 12, 20, 25, 31 Third ... 7, 11, 13, 27	6, 9 1, 8 11	2, 4 3, 6 1, 5		11	227	Rivington and Willett streets .....	{ First ... 11, 15, 17 Second .. 28, 25, 9, 20 Third ... 13, 33, 12, 5	11, 6 9, 1 3	4, 6 2, 3 1, 5	
16	172	Grand and Essex streets .....	{ First ... 17, 15, 9 Second .. 20, 25, 12, 11 Third ... 31, 7, 13, 28	6, 9 1, 11 8	4, 6 2, 3 1, 5		21	228	Rivington and Cannon streets .....	{ First ... 11, 15, 17 Second .. 28, 25, 9, 20 Third ... 13, 33, 12, 5	11, 6 9, 1 3	4, 6 2, 3 1, 5	
17	173	Hester and Norfolk streets .....	{ First ... 17, 15, 9 Second .. 12, 17, 20, 7 Third ... 25, 31, 28, 13	6, 9 1, 11 8	2, 4 3, 6 1, 5		19	229	Stanton and Goerck streets .....	{ First ... 11, 15, 17, 43 Second .. 28, 25, 20, 9 Third ... 33, 13, 5, 12	11, 6 9, 3 1	4, 6 2, 3 1, 5	
18	174	Clinton, near Division street .....	{ First ... 15, 17, 9 Second .. 11, 12, 20, 25 Third ... 28, 7, 31, 13	6, 9 11, 1 8	2, 4 3, 6 1, 5		19	231	Washington and Clarkson streets .....	{ First ... 24, 30, 13, 43 Second .. 18, 27, 33, 20 Third ... 3, 31, 29, 25	5, 8 9, 12 10	3, 5 6, 7 2, 4	
17	175	Grand and Ridge streets .....	{ First ... 15, 17, 11 Second .. 9, 12, 20, 25 Third ... 28, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		11	232	Hudson and Clarkson streets .....	{ First ... 24, 30, 13 Second .. 18, 33, 27, 20 Third ... 3, 31, 25, 14	5, 8 9, 12 3	3, 5 6, 7 2, 4	
19	176	Henry, near Gouverneur street .....	{ First ... 15, 17, 11 Second .. 9, 12, 28, 7 Third ... 20, 31, 25, 13	6, 11 9, 1 8	2, 4 3, 6 1, 5		10	233	Varick and King streets .....	{ First ... 30, 24, 13 Second .. 18, 20, 33, 27 Third ... 31, 3, 25, 14	5, 8 9, 3 12	3, 5 2, 4 1, 6	
11	177	Grand and Jackson streets .....	{ First ... 15, 11, 17 Second .. 9, 12, 28, 25 Third ... 20, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		19	234	Bedford and West Houston streets .....	{ First ... 30, 24, 13 Second .. 33, 20, 18, 27 Third ... 25, 31, 14, 17	5, 9 8, 3 12	3, 5 2, 4 1, 6	
18	178	Monroe, between Corlears and Jackson streets .....	{ First ... 15, 11, 17 Second .. 9, 12, 28, 20 Third ... 25, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		7	235	Macdougall and Charlton streets .....	{ First ... 30, 13, 20 Second .. 24, 33, 18, 27 Third ... 31, 17, 25, 14	9, 8 5, 3 12	3, 5 2, 4 1, 6	
16	179	Grand and East streets .....	{ First ... 15, 11, 17, 43 Second .. 9, 28, 12, 25 Third ... 20, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		11	236	South 5th avenue and Houston street .....	{ First ... 13, 33, 30 Second .. 20, 24, 18, 27 Third ... 25, 31, 14, 17	9, 8 5, 3 6	3, 5 2, 4 1, 6	
2	181	Washington and Canal streets .....	{ First ... 30, 27, 24, 43 Second .. 13, 20, 31, 29 Third ... 7, 33, 18, 12	8, 5 9, 10 1	3, 5 2, 4 1, 6		16	237	Mercer, between Prince and Houston streets .....	{ First ... 13, 20, 33 Second .. 30, 24, 31, 25 Third ... 17, 27, 18, 7	9, 8 5, 3 6	3, 5 2, 4 1, 6	
10	182	Hudson and Dominick streets .....	{ First ... 30, 24, 13 Second .. 27, 20, 31, 18 Third ... 33, 7, 29, 17	8, 5 9, 1 10	3, 5 2, 4 1, 6		11	238	Broadway, between Prince and Houston streets .....	{ First ... 20, 13, 33 Second .. 30, 25, 31, 17 Third ... 24, 27, 18, 7	9, 8 3, 5 6	3, 5 2, 4 1, 6	
7	183	Watts and Sullivan streets .....	{ First ... 30, 13, 27 Second .. 20, 24, 31, 33 Third ... 7, 17, 18, 29	8, 9 5, 1 10	3, 5 2, 4 1, 6		16	239	Mulberry, between Houston and Bleecker streets .....	{ First ... 20, 33, 13 Second .. 25, 30, 17, 31 Third ... 24, 5, 18, 11	9, 3 5, 8 11	4, 6 3, 5 2, 8	
6	184	South Fifth avenue and Broome street .....	{ First ... 13, 30, 20 Second .. 27, 31, 33, 24 Third ... 17, 7, 18, 29	8, 9 1, 5 10	3, 5 2, 4 1, 6		8	241	Houston street and Bowery .....	{ First ... 20, 33, 25 Second .. 17, 13, 11, 5 Third ... 9, 28, 30, 15	9, 3 11, 6 5	4, 6 2, 3 1, 5	
3	185	Broadway, between Broome and Spring streets .....	{ First ... 20, 13, 30 Second .. 33, 31, 17, 27 Third ... 7, 9, 25, 24	9, 8 1, 6 10	3, 5 2, 4 1, 6		16	242	1st avenue and Houston street .....	{ First ... 25, 17, 11 Second .. 20, 33, 5, 28 Third ... 13, 9, 15, 30	9, 11 6, 3 5	4, 6 6, 3 1, 5	
2	186	Elm, near Broome street .....	{ First ... 20, 31, 13 Second .. 17, 30, 7, 33 Third ... 27, 12, 9, 25	9, 8 1, 6 10	3, 4 2, 6 1, 5		17	243	Avenue A and Houston street .....	{ First ... 17, 25, 11 Second .. 28, 20, 33, 15 Third ... 5, 9, 13, 12	9, 11 6, 3 5	4, 6 2, 3 1, 5	
7	187	Bowery and Broome street .....	{ First ... 17, 20, 9 Second .. 13, 12, 31, 25 Third ... 33, 7, 30, 15	9, 6 1, 8 3	4, 6 2, 3 1, 5		16	244	Avenue B and Houston street .....	{ First ... 11, 17, 25 Second .. 28, 15, 20, 33 Third ... 5, 9, 13, 12	11, 6 9, 3 5	4, 6 2, 3 1, 5	
9	188	Grand and Eldridge streets .....	{ First ... 17, 9, 20 Second .. 15, 12, 25, 31 Third ... 7, 13, 30, 33	6, 9 1, 8 11	4, 6 2, 3 1, 5		18	245	Avenue C and Houston street .....	{ First ... 11, 15, 28 Second .. 25, 17, 20, 33 Third ... 5, 9, 13, 12	11, 6 9, 3 5	4, 6 2, 3 1, 5	
1	189	Mott, between Broome and Spring streets .....	{ First ... 20, 17, 13 Second .. 33, 25, 30, 9 Third ... 31, 12, 15, 11	9, 6 3, 8 1	4, 6 2, 3 1, 5		19	246	Houston, near Columbia street .....	{ First ... 11, 15, 28 Second .. 25, 17, 20, 33 Third ... 9, 5, 13, 12	11, 6 9, 3 5	4, 6 2, 3 1, 5	
8	191	Forsyth and Delancey streets .....	{ First ... 17, 20, 9 Second .. 25, 13, 33, 15 Third ... 30, 12, 31, 11	9, 6 8, 11 1	4, 6 2, 3 1, 5		18	247	Houston and Mangin streets .....	{ First ... 11, 15, 28, 43 Second .. 25, 17, 20, 33 Third ... 9, 5, 13, 12	11, 6 9, 3 5	4, 6 2, 3 1, 5	
10	192	Ludlow and Delancey streets .....	{ First ... 17, 20, 15 Second .. 25, 9, 11, 13 Third ... 12, 33, 28, 30	6, 9 11, 1 8	4, 6 2, 3 1, 5		17	248	Stanton and Sheriff streets .....	{ First ... 11, 15, 17 Second .. 28, 25, 9, 20 Third ... 13, 33, 12, 5	11, 6 9, 1 3	4, 6 2, 3 1, 5	
8	193	Broome and Suffolk streets .....	{ First ... 17, 15, 9 Second .. 11, 20, 25, 28 Third ... 12, 13, 31, 7	6, 9 11, 1 8	4, 6 2, 3 1, 5		16	249	Rivington and Mangin streets .....	{ First ... 11, 15, 17, 43 Second .. 28, 25, 20, 9 Third ... 33, 13, 5, 12	11, 6 9, 3 1	4, 6 2, 3 1, 5	
11	194	Attorney, near Delancey street .....	{ First ... 17, 15, 11 Second .. 25, 28, 9, 20 Third ... 13, 12, 33, 5	6, 11 9, 1 3	4, 6 2, 3 1, 5		23	251	West and Morton streets .....	{ First ... 24, 30, 18, 43 Second .. 13, 33, 27, 3 Third ... 20, 31, 14, 19	5, 8 12, 9 3	3, 5 6, 7 2, 4	
18	195	Willett and Broome streets .....	{ First ... 15, 17, 11 Second .. 9, 28, 20, 25 Third ... 12, 31, 13, 7	6, 11 9, 1 8	4, 6 2, 3 1, 5		21	252	Washington and Christopher streets .....	{ First ... 24, 18, 30 Second .. 3, 33, 13, 27 Third ... 20, 14, 19, 25	5, 12 8, 3 9	3, 5 6, 7 2, 4	
19	196	Delancey and Columbia streets .....	{ First ... 11, 15, 17 Second .. 9, 28, 25, 20 Third ... 12, 13, 33, 7	11, 6 9, 1 8	4, 6 2, 3 1, 5		22	253	Morton, near Hudson street .....	{ First ... 24, 30, 18 Second .. 13, 33, 27, 3 Third ... 20, 31, 14, 25	5, 8 12, 9 3	3, 5 6, 7 2, 4	
17	197	Lewis and Broome streets .....	{ First ... 15, 11, 17 Second .. 9, 28, 25, 20 Third ... 12, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		20	254	Hudson and Grove streets .....	{ First ... 24, 18, 30 Second .. 33, 13, 3, 27 Third ... 20, 14, 19, 25	5, 12 8, 9 3	3, 5 6, 7 2, 4	
18	198	Delancey, near Tompkins street .....	{ First ... 11, 15, 17, 43 Second .. 28, 9, 25, 20 Third ... 13, 12, 33, 7	11, 6 9, 1 8	4, 6 2, 3 1, 5		22	255	Bleecker and Grove streets .....	{ First ... 18, 24, 33 Second .. 30, 13, 3, 14 Third ... 20, 25, 27, 19	5, 12 3, 9 8	3, 5 6, 7 2, 4	
17	199	Corlears and Water streets .....	{ First ... 15, 11, 17, 43 Second .. 9, 28, 12, 25 Third ... 20, 7, 31, 13	6, 11 9, 1 8	4, 6 2, 3 1, 5		21	256	Bedford and Leroy streets .....	{ First ... 24, 30, 18 Second .. 13, 33, 20, 27 Third ... 3, 25, 14, 31	5, 8 9, 12 3	3, 5 6, 7 2, 4	
23	212	West and Charlton streets .....	{ First ... 30, 24, 13, 43 Second .. 27, 20, 18, 33 Third ... 31, 29, 3, 7	8, 5 9, 10 1	3, 5 2, 4 1, 6		20	257	Bleecker and Cornelia streets .....	{ First ... 24, 18, 30 Second .. 33, 13, 20, 3 Third ... 25, 14, 27, 31	5, 9 8, 3 12	3, 5 6, 7 2, 4	
11	213	Greenwich and Vandam streets .....	{ First ... 30, 24, 13 Second .. 27, 20, 18, 31 Third ... 33, 29, 7, 3	8, 5 9, 10 1	3, 5 2, 4 1, 6		28	258	6th avenue and West 3d street .....	{ First ... 18, 33, 24 Second .. 30, 13, 20, 25 Third ... 14, 3, 27, 5	5, 9 3, 8 12	3, 5 6, 7 2, 4	
2	214	Hudson and Charlton streets .....	{ First ... 30, 24, 13 Second .. 27, 20, 18, 33 Third ... 31, 3, 7, 29	8, 5 9, 1 12	3, 5 2, 4 1, 6		..	259	.....	{ First ... .. Second .. .. Third ... ..	..... ..... .....	..... ..... .....	
9	215	Spring, near Varick street .....	{ First ... 30, 13, 24 Second .. 20, 27, 33, 31 Third ... 18, 17, 7, 29	8, 9 5, 1 10	3, 5 2, 4 1, 6		18	261	Macdougall and Bleecker streets .....	{ First ... 30, 33, 24 Second .. 13, 18, 20, 25 Third ... 27, 14, 3, 31	5, 9 8, 3 12	3, 5 6, 7 2, 4	
5	216	Spring and Sullivan streets .....	{ First ... 30, 13, 20 Second .. 24, 27, 33, 31 Third ... 18, 17, 7, 29	8, 9 5, 1 10	3, 5 2, 4 1, 6		20	262	Thompson and West 3d streets .....	{ First ... 33, 13, 18 Second .. 30, 24, 20, 25 Third ... 14, 27, 5, 31	5, 9 3, 8 12	3, 5 6, 7 2, 4	
2	217	Wooster, near Spring street .....	{ First ... 13, 30, 20 Second .. 33, 27, 31, 24 Third ... 17, 18, 25, 7	8, 9 5, 1 3	3, 5 2, 4 1, 6		17	263	Greene and Bleecker streets .....	{ First ... 33, 13, 20 Second .. 30, 24, 25, 18 Third ... 31, 14, 5, 27	9, 5 3, 8 11	3, 5 4, 6 2, 7	
1	218	Marion, between Spring and Prince streets .....	{ First ... 20, 13, 33 Second .. 30, 17, 31, 25 Third ... 7, 9, 12, 27	9, 8 1, 6 3	3, 4 2, 6 1, 5		23	264	Mercer, between 3d and 4th streets .....	{ First ... 33, 13, 20 Second .. 25, 18, 30, 5 Third ... 24, 14, 28, 31	9, 3 5, 8 11	5, 6 3, 4 2, 7	
6	219	Elizabeth, near Prince street .....	{ First ... 20, 17, 13 Second .. 33, 25, 30, 9 Third ... 31, 12, 15, 11	9, 6 3, 8 1	4, 6 2, 3 1, 5		21	265	Broadway, near Bleecker street .....	{ First ... 33, 20, 13 Second .. 25, 30, 24, 18 Third ... 5, 31, 14, 17	9, 3 5, 8 17	5, 6 3, 4 2, 8	
10	221	Bowery and Rivington street .....	{ First ... 20, 17, 13 Second .. 25, 33, 9, 30 Third ... 12, 31, 15, 11	9, 6 3, 1 8	4, 6 2, 3 1, 5		20	266	Lafayette place and 4th street .....	{ First ... 33, 25, 20 Second .. 5, 13, 17, 18 Third ... 14, 28, 11, 24	9, 3 11, 5 6	5, 6 3, 4 2, 8	
9	223	Chrystie and Stanton streets .....	{ First ... 20, 17, 25 Second .. 33, 13, 9, 11 Third ... 5, 30, 15, 12	9, 6 11, 3 1	4, 6 2, 3 1, 5		19	267	Bowery and 3d street .....	{ First ... 33, 25, 20 Second .. 13, 17, 5, 11 Third ... 14, 18, 30, 28	9, 3 11, 5 6	5, 6 3, 4 2, 8	
11	224	Rivington and Allen streets .....	{ First ... 17, 25, 20 Second .. 15, 9, 13, 11 Third ... 33, 5, 28, 12	9, 6 11, 3 1	4, 6 2, 3 1, 5		24	268	Junction 3d and 4th avenues, opposite 6th street .....	{ First ... 33, 25, 20 Second .. 13, 18, 5, 17 Third ... 30, 14, 11, 24	9, 3 11, 5 8	5, 6 3, 4 2, 8	
16	225	Rivington and Norfolk streets .....	{ First ... 17, 15, 25 Second .. 11, 20, 9, 28 Third ... 13, 33, 5, 12	6, 9 11, 1 3	4, 6 2, 3 1, 5		14	269	2d avenue and 1st street .....	{ First ... 25, 33, 20 Second .. 17, 13, 11, 5 Third ... 9, 28, 30, 15	9, 3 11, 6 5	4, 6 2, 3 1, 5	

## THE CITY RECORD.

## SUPPLEMENT.

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
21	271	2d avenue and 4th street.....	{ First ... 25, 33, 5 Second... 20, 17, 28, 11 Third... 13, 14, 18, 9	9, 3 11, 6 5	4, 6 3, 5 2, 8		19	326	Avenue A and 12th street .....	{ First ... 28, 5, 25 Second... 33, 17, 14, 11 Third... 16, 18, 20, 15	3, 11 9, 7 6	4, 6 5, 8 2, 3	
20	272	5th street, near 1st avenue.....	{ First ... 25, 5, 33 Second... 28, 17, 11, 20 Third... 14, 13, 18, 9	11, 9 3, 6 7	4, 6 5, 8 2, 3		20	327	11th street, near Avenue B.....	{ First ... 28, 5, 25 Second... 11, 17, 33, 15 Third... 14, 16, 18, 20	11, 3 6, 9 7	4, 6 5, 8 2, 3	
19	273	Avenue A and 3d street.....	{ First ... 25, 17, 11 Second... 28, 33, 5, 20 Third... 15, 9, 13, 14	11, 6 9, 3 7	4, 6 5, 8 2, 3		21	328	Avenue C and 12th street.....	{ First ... 28, 5, 11 Second... 25, 15, 17, 33 Third... 14, 16, 18, 20	11, 3 6, 9 7	4, 6 5, 8 2, 3	
21	274	Avenue B and 6th street.....	{ First ... 28, 25, 11 Second... 5, 17, 33, 15 Third... 20, 9, 14, 18	11, 6 9, 3 7	4, 6 5, 8 2, 3		16	329	Avenue D and 10th street .....	{ First ... 28, 11, 5, 43 Second... 25, 15, 17, 33 Third... 14, 16, 18, 20	11, 3 6, 9 7	4, 6 5, 8 2, 3	
20	275	Avenue C and 4th street.....	{ First ... 11, 28, 25 Second... 15, 17, 33, 5 Third... 20, 9, 13, 14	11, 6 9, 3 7	4, 6 5, 8 2, 3		22	331	11th avenue and 14th street.....	{ First ... 3, 18, 19, 43 Second... 24, 34, 14, 33 Third... 1, 30, 13, 5	5, 12 3, 9 7	5, 7 3, 6 2, 4	
17	276	5th street, near Avenue D.....	{ First ... 11, 28, 25 Second... 15, 17, 5, 33 Third... 20, 9, 13, 14	11, 6 9, 3 7	4, 6 5, 8 2, 3		23	332	10th avenue and Little 12th street.....	{ First ... 3, 18, 24, 43 Second... 19, 34, 14, 33 Third... 30, 1, 13, 5	5, 12 3, 9 7	5, 7 3, 6 2, 4	
21	277	Lewis and 4th streets.....	{ First ... 11, 28, 25, 43 Second... 15, 17, 33, 5 Third... 20, 9, 13, 14	11, 6 9, 3 7	4, 6 5, 8 2, 3		23	334	15th street and 10th avenue.....	{ First ... 3, 19, 18 Second... 24, 14, 34, 1 Third... 30, 33, 13, 5	12, 5 3, 9 7	5, 7 6, 8 3, 4	
..	278	.....	{ First ... Second... Third...}	.....	.....		22	335	Hudson and 13th streets.....	{ First ... 3, 18, 24 Second... 19, 14, 34, 30 Third... 33, 1, 13, 5	5, 12 3, 9 7	3, 5 3, 7 2, 4	
..	279	.....	{ First ... Second... Third...}	.....	.....		21	336	8th avenue and Jane street .....	{ First ... 18, 3, 24 Second... 19, 33, 14, 30 Third... 1, 13, 5, 34	5, 12 3, 9 7	3, 5 6, 7 2, 4	
19	281	West and Charles streets...	{ First ... 24, 18, 3, 43 Second... 30, 33, 13, 27 Third... 19, 20, 14, 25	5, 12 8, 3 9	3, 5 6, 7 2, 4		35	337	8th avenue and 14th street.....	{ First ... 3, 18, 19 Second... 24, 14, 1, 33 Third... 5, 30, 34, 13	12, 5 3, 9 7	5, 7 3, 6 2, 4	
23	282	West and Bank streets.....	{ First ... 24, 3, 18, 43 Second... 30, 33, 19, 13 Third... 14, 27, 20, 1	5, 12 3, 8 9	3, 5 6, 7 2, 4		20	338	14th street and 6th avenue.....	{ First ... 18, 14, 3 Second... 24, 5, 33, 1 Third... 19, 30, 25, 13	12, 3 5, 7 9	3, 5 3, 7 2, 4	
19	283	Greenwich and West 11th streets.....	{ First ... 24, 18, 3 Second... 30, 33, 19, 13 Third... 14, 27, 20, 1	5, 12 3, 8 9	3, 5 6, 7 2, 4		18	339	5th avenue and 14th street.....	{ First ... 14, 18, 5 Second... 33, 3, 25, 1 Third... 24, 16, 13, 28	3, 12 5, 7 9	5, 6 3, 7 2, 4	
23	284	Greenwich and West 10th streets.....	{ First ... 24, 18, 3 Second... 30, 33, 13, 27 Third... 14, 19, 20, 25	5, 12 3, 8 9	3, 5 6, 7 2, 4		17	341	Broadway and 14th street .....	{ First ... 14, 5, 33 Second... 18, 25, 16, 28 Third... 1, 3, 13, 20	3, 12 7, 5 9	5, 6 3, 8 2, 4	
21	285	Charles, near Bleecker street.....	{ First ... 18, 24, 3 Second... 30, 33, 13, 14 Third... 19, 20, 27, 25	5, 12 3, 8 9	3, 5 6, 7 2, 4		20	342	13th street, near 4th avenue.....	{ First ... 5, 14, 33 Second... 25, 18, 28, 16 Third... 20, 13, 1, 24	3, 7 9, 12 11	5, 6 3, 4 2, 8	
35	286	Christopher and 4th streets.....	{ First ... 18, 24, 33 Second... 3, 30, 13, 14 Third... 25, 20, 19, 27	5, 12 3, 9 8	3, 5 6, 7 2, 4		44	343	3d avenue and 14th street.....	{ First ... 5, 14, 16 Second... 33, 25, 28, 18 Third... 20, 13, 1, 3	3, 7 9, 12 11	6, 8 4, 5 2, 3	
18	287	6th avenue and Waverley place.....	{ First ... 18, 24, 33 Second... 3, 13, 14, 3 Third... 25, 20, 19, 5	5, 3 12, 9 8	3, 5 6, 7 2, 4		20	344	14th street, near 1st avenue.....	{ First ... 5, 25, 28 Second... 16, 14, 33, 17 Third... 18, 11, 20, 13	3, 7 11, 9 12	6, 8 4, 5 2, 3	
36	288	5th avenue and 8th street.....	{ First ... 18, 33, 14 Second... 13, 24, 25, 30 Third... 20, 5, 3, 28	3, 5 12, 9 8	3, 5 4, 6 2, 7		17	345	Avenue B and 14th street.....	{ First ... 28, 5, 25 Second... 11, 16, 14, 33 Third... 17, 15, 20, 18	3, 11 6, 7 9	6, 8 4, 5 2, 3	
37	289	Washington and University place.....	{ First ... 33, 13, 18 Second... 25, 14, 20, 24 Third... 30, 5, 28, 3	3, 5 9, 8 11	5, 6 3, 4 2, 7		19	346	14th street, between Avenues C and D.....	{ First ... 28, 5, 11, 43 Second... 25, 16, 15, 14 Third... 33, 17, 20, 18	11, 3 6, 7 9	6, 8 4, 5 2, 3	
22	291	Greene and 8th streets.....	{ First ... 33, 18, 25 Second... 14, 13, 5, 20 Third... 24, 28, 30, 3	3, 5 9, 12 11	5, 6 3, 4 2, 7		..	347	.....	{ First ... Second... Third...}	.....	.....	
22	292	Broadway, near Washington place.....	{ First ... 33, 25, 20 Second... 18, 13, 5, 14 Third... 24, 28, 30, 17	3, 9 5, 11 8	5, 6 3, 4 2, 8		..	348	.....	{ First ... Second... Third...}	.....	.....	
23	293	Broadway and 8th street.....	{ First ... 33, 25, 18 Second... 5, 14, 20, 13 Third... 28, 24, 30, 16	3, 9 5, 11 12	5, 6 3, 4 2, 8		..	349	.....	{ First ... Second... Third...}	.....	.....	
16	294	4th avenue and 9th street.....	{ First ... 33, 25, 5 Second... 18, 14, 28, 20 Third... 13, 17, 16, 11	3, 9 11, 5 7	5, 6 3, 4 2, 8		22	351	10th avenue and 18th street.....	{ First ... 3, 19, 34 Second... 18, 14, 1, 24 Third... 30, 26, 5, 16	12, 5 3, 7 4	5, 7 6, 8 3, 4	
23	295	2d avenue and 8th street.....	{ First ... 25, 5, 33 Second... 28, 14, 18, 20 Third... 17, 16, 11, 13	3, 9 11, 6 7	4, 6 3, 5 2, 8		12	352	17th street, between 9th and 10th avenues.....	{ First ... 3, 19, 18 Second... 14, 34, 24, 1 Third... 33, 26, 5, 16	12, 5 3, 7 4	5, 7 6, 8 3, 4	
16	296	Avenue A and 8th street.....	{ First ... 28, 25, 5 Second... 17, 11, 33, 14 Third... 18, 20, 15, 16	11, 3 9, 6 7	4, 6 5, 8 2, 3		36	353	9th avenue and 20th street.....	{ First ... 3, 19, 34 Second... 1, 18, 14, 24 Third... 16, 26, 30, 5	12, 5 3, 7 4	5, 7 6, 8 3, 4	
18	297	Avenue C and 8th street.....	{ First ... 28, 11, 25 Second... 5, 15, 17, 33 Third... 20, 14, 9, 16	11, 6 3, 9 7	4, 6 5, 8 2, 3		22	354	8th avenue and 18th street.....	{ First ... 3, 19, 14 Second... 18, 1, 34, 24 Third... 33, 26, 5, 16	12, 5 3, 7 4	5, 7 6, 8 3, 4	
19	298	Lewis and 8th streets.....	{ First ... 11, 28, 25, 43 Second... 15, 5, 17, 33 Third... 20, 9, 14, 16	11, 6 3, 9 7	4, 6 5, 8 2, 3		36	355	20th street, between 7th and 8th avenues .....	{ First ... 19, 3, 1 Second... 14, 18, 26, 34 Third... 24, 16, 5, 33	12, 5 3, 7 4	5, 7 6, 8 3, 4	
..	299	.....	{ First ... Second... Third...}	.....	.....		13	356	7th avenue and 19th street.....	{ First ... 14, 3, 1 Second... 19, 18, 24, 5 Third... 34, 26, 16, 33	12, 5 3, 7 4	5, 7 6, 8 3, 4	
22	312	West and Horatio streets.....	{ First ... 3, 24, 18, 43 Second... 19, 30, 14, 33 Third... 13, 1, 34, 27	5, 12 3, 8 9	3, 5 6, 7 2, 4		23	357	7th avenue and 16th street.....	{ First ... 18, 3, 14 Second... 1, 19, 24, 33 Third... 5, 26, 16, 34	12, 5 3, 7 4	5, 7 6, 8 3, 4	
23	313	Greenwich and West 12th streets.....	{ First ... 3, 24, 18 Second... 19, 33, 30, 14 Third... 13, 1, 34, 27	5, 12 3, 8 9	3, 5 6, 7 2, 4		22	358	6th avenue and 18th street .....	{ First ... 14, 18, 3 Second... 1, 19, 5, 16 Third... 33, 24, 26, 30	12, 3 5, 7 4	5, 7 6, 8 3, 4	
20	314	Bleecker and Bank streets.....	{ First ... 18, 24, 3 Second... 30, 19, 33, 13 Third... 14, 20, 1, 27	5, 12 3, 8 9	3, 5 6, 7 2, 4		23	359	5th avenue and 18th street.....	{ First ... 14, 18, 1 Second... 5, 16, 33, 3 Third... 25, 19, 24, 28	3, 12 7, 5 11	5, 6 7, 8 3, 4	
22	315	Perry and 4th streets.....	{ First ... 18, 24, 3 Second... 33, 30, 14, 19 Third... 13, 1, 25, 20	5, 12 3, 9 8	3, 5 6, 7 2, 4		18	361	4th avenue and 18th street.....	{ First ... 14, 5, 16 Second... 33, 1, 18, 25 Third... 3, 19, 24, 28	3, 7 12, 5 11	6, 8 5, 7 3, 4	
19	316	Greenwich avenue and 11th street.....	{ First ... 18, 3, 24 Second... 14, 33, 19, 30 Third... 1, 13, 5, 25	5, 12 3, 9 8	3, 5 6, 7 2, 4		23	362	Irving place and 16th street .....	{ First ... 14, 5, 16 Second... 33, 25, 18, 28 Third... 20, 1, 3, 11	3, 7 12, 5 11	6, 8 5, 7 3, 4	
21	317	Greenwich avenue and 10th street.....	{ First ... 18, 24, 33 Second... 14, 3, 30, 13 Third... 25, 19, 5, 1	5, 12 3, 9 8	3, 5 6, 7 2, 4		22	363	3d avenue and 18th street.....	{ First ... 14, 16, 5 Second... 33, 25, 28, 18 Third... 1, 3, 20, 21	3, 7 12, 11 9	6, 8 5, 7 3, 4	
36	318	6th avenue and 11th street.....	{ First ... 18, 14, 24 Second... 33, 3, 30, 5 Third... 1, 13, 19, 25	5, 3 12, 9 8	3, 5 6, 7 2, 4		18	364	2d avenue and 17th street.....	{ First ... 5, 16, 14 Second... 25, 28, 33, 18 Third... 1, 3, 21, 20	3, 7 12, 11 9	6, 8 5, 7 3, 4	
17	319	5th avenue and 12th street.....	{ First ... 14, 18, 33 Second... 5, 25, 13, 24 Third... 3, 30, 28, 20	3, 5 12, 9 7	3, 5 4, 6 2, 7		22	365	1st avenue and 18th street .....	{ First ... 5, 16, 14 Second... 25, 28, 33, 11 Third... 18, 17, 21, 3	3, 7 11, 12 9	6, 8 5, 7 3, 4	
21	321	University place and 11th street.....	{ First ... 14, 18, 33 Second... 5, 25, 13, 28 Third... 20, 24, 30, 16	3, 5 12, 9 7	5, 6 3, 4 2, 7		21	366	Avenue A and 16th street.....	{ First ... 5, 28, 25 Second... 16, 14, 11, 33 Third... 17, 18, 15, 21	3, 7 11, 6 12	6, 8 5, 7 3, 4	
19	322	Broadway and 11th street .....	{ First ... 33, 14, 18 Second... 5, 25, 20, 28 Third... 13, 16, 24, 30	3, 5 9, 12 7	5, 6 3, 4 2, 8		20	367	Avenue B and 18th street.....	{ First ... 28, 5, 16 Second... 25, 11, 14, 33, 43 Third... 15, 17, 21, 18	3, 11 7, 6 12	6, 8 5, 7 3, 4	
21	323	3d avenue and 11th street .....	{ First ... 5, 25, 14 Second... 33, 28, 18, 16 Third... 20, 13, 17, 24	3, 9 7, 5 11	5, 6 3, 4 2, 8		20	368	Avenue C and 16th street.....	{ First ... 28, 5, 11 Second... 25, 16, 14, 17, 43 Third... 33, 15, 21, 18	11, 3 7, 6 12	6, 8 5, 7 3, 4	
17	324	2d avenue and 12th street.....	{ First ... 5, 25, 28 Second... 33, 14, 16, 18 Third... 20, 13, 17, 11	3, 9 7, 11 5	4, 6 3, 5 2, 8		..	369	.....	{ First ... Second... Third...}	.....	.....	
18	325	1st avenue and 10th street .....	{ First ... 5, 25, 28 Second... 33, 17, 14, 16 Third... 18, 11, 20, 13	3, 11 9, 7 6	4, 6 5, 8 2, 3		12	371	13th avenue and 23d street }	{ First ... 19, 3, 34 Second... 1, 2, 14, 26, 43 Third... 18, 24, 16, 30	12, 5 7, 4 3	5, 7 6, 8 3, 4	
							37	1371	11th avenue and 21st street }	{ First ... Second... Third...}	.....	.....	

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
47	372	10th avenue and 24th street	First... 19, 3, 34 Second... 1, 2, 26, 14 Third... 18, 24, 16, 30	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	427			First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....
13	373	10th avenue and 22d street	First... 1, 19, 34 Second... 1, 18, 2, 26 Third... 14, 24, 16, 30	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	428	Broadway and 17th street	First... 14, 5, 33 Second... 18, 25, 16, 28 Third... 1, 3, 13, 20	3, 12 7, 5 9	5, 6 3, 8 2, 4	5, 6 3, 8 2, 4	5, 6 3, 8 2, 4
12	374	9th avenue and 23d street	First... 19, 3, 34 Second... 1, 18, 2, 26 Third... 2, 24, 16, 30	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	429	6th avenue and 30th street	First... 1, 26, 14 Second... 34, 19, 16, 21 Third... 18, 3, 5, 2	7, 12 4, 3 2	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
13	375	8th avenue and 23d street	First... 19, 3, 1 Second... 34, 14, 26, 18 Third... 16, 24, 2, 33	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	431	12th avenue and 31st street	First... 34, 19, 2 Second... 1, 3, 26, 14, 43 Third... 18, 23, 16, 24	12, 4 5, 7 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
35	376	7th avenue and 22d street	First... 1, 19, 14 Second... 3, 18, 26, 16 Third... 34, 24, 5, 33	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	432	11th avenue and 29th street	First... 34, 19, 1 Second... 2, 3, 26, 14, 43 Third... 18, 16, 23, 24	12, 4 5, 7 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
36	377	6th avenue and 23d street	First... 1, 14, 19 Second... 18, 16, 3, 26 Third... 34, 5, 33, 24	12, 3 7, 5 4	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	433	10th avenue and 31st street	First... 34, 19, 1 Second... 26, 2, 3, 14 Third... 18, 16, 21, 23	12, 4 5, 7 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
40	378	Broadway and 20th street	First... 14, 16, 1 Second... 5, 18, 19, 33 Third... 3, 25, 26, 28	3, 12 7, 5 4	5, 6 7, 8 3, 4	5, 6 7, 8 3, 4	434	33d street, between 9th and 10th avenues	First... 34, 19, 26 Second... 1, 2, 3, 14 Third... 18, 16, 23, 21	12, 4 7, 5 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
39	379	5th avenue, opposite 24th street	First... 14, 1, 16 Second... 19, 26, 5, 18 Third... 3, 33, 34, 21	7, 12 3, 5 4	5, 6 3, 4 3, 4	5, 6 3, 4 3, 4	435	9th avenue and 32d street	First... 34, 19, 1 Second... 26, 3, 2, 14 Third... 18, 16, 23, 21	12, 4 7, 5 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
14	381	4th avenue and 21st street	First... 14, 16, 5 Second... 1, 33, 18, 25 Third... 3, 19, 26, 21	3, 7 12, 5 11	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	436	8th avenue and 33d street	First... 34, 26, 1 Second... 19, 2, 3, 14 Third... 16, 23, 21, 18	12, 4 7, 5 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
24	382	4th avenue and 24th street	First... 16, 14, 1 Second... 19, 5, 21, 33 Third... 25, 26, 18, 3	7, 3 12, 5 11	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	437	8th avenue and 30th street	First... 1, 19, 34 Second... 26, 3, 2, 14 Third... 16, 18, 21, 23	12, 4 7, 5 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
15	383	Gramercy place and 21st street	First... 16, 14, 5 Second... 1, 33, 21, 18 Third... 19, 25, 28, 3	7, 3 12, 11 2	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	438	29th street, near 7th avenue	First... 1, 26, 19 Second... 34, 14, 3, 16 Third... 18, 21, 2, 23	12, 7 4, 3 5	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
39	384	3d avenue and 23d street	First... 16, 14, 5 Second... 21, 1, 28, 19 Third... 25, 33, 18, 3	7, 3 12, 2 11	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	439	32d street and 7th avenue	First... 1, 26, 34 Second... 19, 14, 16, 21 Third... 18, 3, 2, 23	12, 7 4, 3 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
15	385	25th street, between 2d and 3d avenues	First... 16, 5, 14 Second... 21, 1, 28, 25 Third... 19, 26, 18, 33	7, 3 12, 11 2	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	441	Broadway and 31st street	First... 1, 26, 14 Second... 34, 19, 16, 21 Third... 18, 3, 5, 2	7, 12 4, 3 2	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
24	386	2d avenue and 22d street	First... 16, 5, 14 Second... 25, 28, 21, 1 Third... 33, 11, 18, 19	7, 3 2, 12 11	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	442	5th avenue and 30th street	First... 1, 26, 14 Second... 16, 21, 19, 34 Third... 5, 18, 8, 3	7, 12 3, 4 2	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
49	387	1st avenue and 23d street	First... 16, 5, 14 Second... 25, 28, 21, 1 Third... 17, 19, 33, 11	7, 3 12, 11 2	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	443	4th avenue and 32d street	First... 16, 21, 1 Second... 26, 14, 34, 8 Third... 19, 5, 18, 3	7, 3 2, 12 4	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
15	388	Avenue A and 21st street	First... 5, 16, 28 Second... 14, 25, 11, 21, 43 Third... 17, 1, 33, 19	7, 3 11, 12 2	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	445	4th avenue and 29th street	First... 16, 1, 14 Second... 21, 26, 19, 5 Third... 34, 8, 18, 3	7, 3 12, 2 4	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
24	389	Avenue A and 24th street	First... 16, 5, 28 Second... 14, 25, 21, 11, 43 Third... 1, 17, 19, 33	7, 3 11, 12 2	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	446	Lexington avenue and 33d street	First... 21, 16, 1 Second... 26, 8, 14, 5 Third... 34, 19, 25, 28	7, 3 3, 12 4	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
..	391		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	447	3d avenue and 31st street	First... 16, 21, 1 Second... 14, 26, 8, 5 Third... 34, 19, 25, 28	7, 3 2, 12 4	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
..	392		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	448	2d avenue and 33d street	First... 21, 16, 5 Second... 1, 8, 26, 14 Third... 34, 25, 28, 19	7, 2 3, 12 4	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
..	393		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	449	1st avenue and 29th street	First... 16, 21, 5 Second... 1, 28, 14, 26, 43 Third... 8, 25, 19, 34	7, 3 2, 12 11	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
..	394		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	451	12th avenue and 34th street	First... 34, 2, 26 Second... 19, 1, 3, 23, 43 Third... 14, 18, 16, 21	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
..	395		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	452	11th avenue and 33d street	First... 34, 2, 26 Second... 19, 1, 3, 23, 43 Third... 14, 18, 16, 21	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
..	396		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	453	34th street and 10th avenue	First... 34, 2, 26 Second... 19, 1, 3, 23 Third... 14, 21, 16, 18	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
..	397		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	454	10th avenue and 37th street	First... 34, 2, 26 Second... 19, 1, 3, 23 Third... 21, 14, 16, 40	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
..	398		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	455	9th avenue and 36th street	First... 34, 26, 19 Second... 2, 1, 3, 23 Third... 14, 21, 16, 40	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
..	399		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	456	8th avenue and 35th street	First... 26, 34, 1 Second... 19, 2, 3, 14 Third... 23, 21, 16, 18	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
12	412	11th avenue and 25th street	First... 19, 34, 3 Second... 1, 2, 26, 14, 43 Third... 18, 16, 24, 23	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	457	37th street, between 7th and 8th avenues	First... 26, 1, 34 Second... 19, 2, 21, 23 Third... 3, 14, 16, 18	4, 12 7, 2 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
12	413	10th avenue and 27th street	First... 19, 34, 3 Second... 1, 2, 26, 14 Third... 18, 16, 24, 23	12, 5 7, 4 3	5, 7 6, 8 3, 6	5, 7 6, 8 3, 6	458	7th avenue and 35th street	First... 26, 1, 34 Second... 19, 21, 14, 2 Third... 3, 23, 16, 18	4, 12 7, 2 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
35	414	9th avenue and 25th street	First... 19, 3, 34 Second... 1, 26, 14, 2 Third... 18, 16, 24, 23	12, 5 7, 4 3	5, 7 6, 8 3, 4	5, 7 6, 8 3, 4	459	6th avenue and 34th street	First... 26, 1, 34 Second... 14, 19, 21, 16 Third... 18, 23, 2, 8	4, 7 12, 2 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
13	415	9th avenue and 28th street	First... 19, 34, 1 Second... 3, 26, 2, 14 Third... 18, 16, 24, 23	12, 7 4, 5 3	7, 8 5, 6 3, 6	7, 8 5, 6 3, 6	461	6th avenue and 37th street	First... 26, 1, 21 Second... 34, 19, 14, 23 Third... 16, 2, 8, 18	4, 7 12, 2 3	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
47	416	8th avenue and 27th street	First... 19, 1, 34 Second... 26, 3, 14, 18 Third... 2, 16, 24, 23	12, 7 5, 4 3	7, 8 5, 6 3, 6	7, 8 5, 6 3, 6	462	5th avenue and 35th street	First... 26, 1, 21 Second... 14, 16, 34, 8 Third... 19, 2, 23, 18	7, 2 4, 12 3	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
35	417	7th avenue and 26th street	First... 1, 19, 26 Second... 34, 14, 3, 18 Third... 16, 2, 24, 23	12, 7 5, 4 3	7, 8 5, 6 3, 4	7, 8 5, 6 3, 4	463	4th avenue and 37th street	First... 21, 26, 16 Second... 8, 1, 14, 34 Third... 19, 23, 5, 39	7, 2 4, 3 12	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
40	418	6th avenue and 26th street	First... 1, 19, 14 Second... 16, 26, 18, 34 Third... 3, 5, 21, 33	12, 7 3, 5 4	7, 8 5, 6 3, 4	7, 8 5, 6 3, 4	464	3d avenue and 35th street	First... 21, 16, 8 Second... 26, 1, 14, 34 Third... 5, 19, 39, 2	7, 2 3, 4 12	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
47	419	Broadway and 28th street	First... 1, 14, 26 Second... 16, 19, 34, 21 Third... 18, 5, 3, 33	7, 12 3, 4 5	7, 8 6 4, 5	7, 8 6 4, 5	465	2d avenue and 38th street	First... 21, 16, 8 Second... 26, 1, 5, 34 Third... 14, 39, 2, 19	7, 2 3, 4 12	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
24	421	Madison avenue and 28th street	First... 1, 16, 14 Second... 26, 19, 21, 5 Third... 34, 18, 3, 8	7, 3 12, 2 4	7, 8 6 4, 5	7, 8 6 4, 5	466	1st avenue and 38th street	First... 21, 16, 8 Second... 26, 1, 5, 34, 43 Third... 14, 28, 39, 19	7, 2 3, 4 11	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
14	422	4th avenue and 26th street	First... 16, 14, 1 Second... 19, 21, 5, 26 Third... 34, 33, 18, 8	7, 3 12, 2 5	7, 8 5, 6 3, 4	7, 8 5, 6 3, 4	467	1st avenue and 34th street	First... 21, 16, 5 Second... 8, 26, 1, 14, 43 Third... 34, 28, 25, 19	7, 2 3, 4 11	7, 8 6 4, 5	7, 8 6 4, 5	7, 8 6 4, 5
39	423	28th street, between 2d and 3d avenues	First... 16, 21, 1 Second... 14, 5, 26, 8 Third... 19, 25, 28, 33	7, 3 2, 12 11	7, 8 6 4, 5	7, 8 6 4, 5	468		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....
48	424	2d avenue and 27th street	First... 16, 21, 5 Second... 14, 1, 26, 19 Third... 8, 25, 28, 33	7, 3 2, 12 11	7, 8 6 4, 5	7, 8 6 4, 5	469		First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....
14	425	1st avenue and 26th street	First... 16, 5, 21 Second... 14, 1, 28, 25, 43 Third... 33, 19, 26, 8	7, 3 2, 12 11	6, 8 5, 7 3, 4	6, 8 5, 7 3, 4	471	38th street, between 11th and 12th avenues	First... 2, 34, 26 Second... 19, 1, 23, 3, 43 Third... 14, 21, 16, 40	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6
15	425	Bellevue Hospital gate	First... Second... Third...	..... ..... .....	..... ..... .....	..... ..... .....	472	42d street, between 11th and 12th avenues	First... 2, 34, 26 Second... 19, 1, 23, 3, 43 Third... 40, 21, 8, 14	4, 12 7, 5 2	7, 8 5 3, 6	7, 8 5 3, 6	7, 8 5 3, 6

Circuit	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
34	473	10th avenue and 40th street.....	{ First... 2, 34, 26 Second... 19, 1, 23, 3 Third... 21, 40, 8, 14	4, 12 2, 7 5	7, 8 5 3, 6	15	528	1st avenue and 47th street.....	{ First... 8, 21, 16 Second... 39, 26, 23, 2, 43 Third... 5, 1, 14, 34	2, 7 4, 3 13	7, 8 5 5, 9		
12	474	9th avenue and 40th street.....	{ First... 26, 2, 34 Second... 19, 1, 23, 3 Third... 21, 40, 8, 14	4, 12 2, 7 5	7, 8 5 3, 6	24	529	1st avenue and 44th street.....	{ First... 21, 8, 16 Second... 26, 39, 5, 2, 43 Third... 23, 1, 14, 34	2, 7 4, 3 13	7, 8 5 5, 9		
36	475	8th avenue and 42d street.....	{ First... 26, 2, 34 Second... 23, 1, 19, 21 Third... 8, 14, 3, 40	4, 12 2, 7 5	7, 8 5 3, 6	12	531	51st street, between 11th and 12th avenues.....	{ First... 2, 23, 40 Second... 34, 26, 8, 19, 43 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 6, 9		
13	476	8th avenue and 38th street.....	{ First... 26, 34, 1 Second... 2, 19, 23, 21 Third... 3, 14, 16, 8	4, 12 2, 7 5	7, 8 5 3, 6	47	532	11th avenue and 49th street.....	{ First... 2, 34, 23 Second... 40, 26, 8, 19, 43 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 6, 9		
35	477	7th avenue and 39th street.....	{ First... 26, 1, 34 Second... 2, 21, 19, 23 Third... 14, 8, 16, 3	4, 12 2, 7 3	7, 8 5 3, 6	35	533	10th avenue and 51st street.....	{ First... 2, 23, 40 Second... 34, 26, 8, 19 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 5		
37	478	Broadway and 42d street.....	{ First... 26, 2, 1 Second... 21, 23, 34, 8 Third... 19, 14, 3, 40	4, 2 7, 12 3	7, 8 5 3, 6	12	534	9th avenue and 51st street.....	{ First... 23, 2, 40 Second... 34, 26, 8, 19 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 6, 9		
..	479	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	41	535	8th avenue and 48th street.....	{ First... 23, 26, 2 Second... 34, 40, 8, 19 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 6, 9		
36	481	6th avenue and 40th street.....	{ First... 26, 21, 1 Second... 2, 23, 34, 8 Third... 16, 19, 14, 18	4, 2 7, 12 3	7, 8 5 3, 6	13	536	8th avenue and 50th street.....	{ First... 23, 26, 2 Second... 40, 34, 8, 19 Third... 21, 1, 3, 39	4, 2 12, 7 16	7, 8 5 6, 9		
24	482	5th avenue and 39th street.....	{ First... 21, 26, 1 Second... 8, 16, 2, 34 Third... 23, 14, 19, 18	4, 2 7, 3 12	7, 8 6 4, 5	40	537	7th avenue and 51st street.....	{ First... 23, 26, 8 Second... 40, 2, 1, 21 Third... 34, 19, 14, 39	4, 2 12, 7 16	7, 8 5 6, 9		
14	483	4th avenue and 42d street.....	{ First... 21, 8, 26 Second... 16, 1, 23, 14 Third... 2, 39, 34, 5	2, 7 4, 3 12	7, 8 6 4, 5	..	538	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....		
24	484	Lexington avenue and 39th street.....	{ First... 21, 8, 16 Second... 26, 1, 23, 14 Third... 34, 19, 5, 39	2, 7 4, 3 12	7, 8 6 4, 5	..	539	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....		
15	485	40th street, near 3d avenue.....	{ First... 21, 8, 16 Second... 26, 1, 23, 34 Third... 14, 5, 39, 2	2, 7 4, 3 12	7, 8 6 4, 5	36	541	6th avenue and 49th street.....	{ First... 8, 23, 26 Second... 2, 21, 1, 40 Third... 34, 14, 39, 19	4, 2 7, 12 3	7, 8 5 6, 9		
39	486	2d avenue and 42d street.....	{ First... 21, 8, 16 Second... 26, 5, 1, 39 Third... 14, 2, 23, 34	2, 7 4, 3 12	7, 8 6 4, 5	24	542	5th avenue and 48th street.....	{ First... 8, 21, 23 Second... 26, 2, 1, 39 Third... 34, 40, 14, 19	2, 4 7, 3 13	7, 8 5 5, 9		
49	487	1st avenue and 41st street.....	{ First... 21, 8, 16 Second... 26, 5, 1, 14, 43 Third... 39, 23, 2, 34	2, 7 4, 3 12	7, 8 6 4, 5	40	543	5th avenue and 51st street.....	{ First... 8, 23, 21 Second... 26, 39, 2, 1 Third... 40, 14, 16, 34	2, 4 7, 3 13	7, 8 5 5, 9		
..	488	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	39	544	Madison avenue and 49th street.....	{ First... 8, 21, 23 Second... 26, 39, 1, 2 Third... 16, 14, 40, 34	2, 4 7, 3 13	7, 8 5 5, 9		
..	489	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	15	545	Lexington avenue and 50th street.....	{ First... 8, 21, 39 Second... 23, 26, 16, 2 Third... 1, 14, 40, 34	2, 4 7, 3 13	7, 8 5 5, 9		
..	491	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	14	546	51st street, near 3d avenue.....	{ First... 8, 21, 39 Second... 23, 16, 26, 2 Third... 1, 40, 22, 5	2, 4 7, 3 13	7, 8 5 5, 9		
..	492	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	39	547	2d avenue and 50th street.....	{ First... 8, 21, 39 Second... 16, 23, 26, 5 Third... 2, 22, 40, 1	2, 7 4, 3 13	7, 8 5 5, 9		
..	493	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	49	548	1st avenue and 51st street.....	{ First... 8, 21, 39 Second... 23, 16, 26, 5, 43 Third... 2, 22, 40, 1	2, 7 4, 3 13	7, 8 5 5, 9		
..	494	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	..	549	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....		
..	495	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	13	551	55th street, between 11th and 12th avenues } 11th avenue and 53d street.....	{ First... 2, 23, 40 Second... 34, 26, 8, 19, 43 Third... 39, 1, 3, 21	4, 2 12, 16 7	7, 8 9 5		
..	496	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	12	552	57th street, between 10th and 11th avenues.....	{ First... 23, 40, 2 Second... 34, 26, 8, 39 Third... 19, 1, 3, 21	4, 2 16, 12 7	7, 8 9 5		
..	497	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	47	553	10th avenue and 55th street.....	{ First... 23, 2, 40 Second... 34, 26, 8, 19 Third... 39, 1, 3, 21	4, 2 16, 12 7	7, 8 9 5		
..	498	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	37	554	9th avenue and 54th street.....	{ First... 23, 40, 2 Second... 34, 8, 26, 19 Third... 39, 1, 21, 3	4, 2 12, 16 7	7, 8 9 5		
..	499	.....	{ First... Second... Third...	..... ..... .....	..... ..... .....	13	556	9th avenue and 57th street.....	{ First... 23, 40, 2 Second... 34, 8, 26, 39 Third... 19, 1, 21, 3	4, 2 16, 12 7	7, 8 9 5		
12	512	43d street, between 11th and 12th avenues.....	{ First... 2, 34, 26 Second... 23, 19, 1, 40, 43 Third... 21, 3, 8, 14	4, 12 2, 7 5	7, 8 5 6, 9	40	557	8th avenue and 55th street.....	{ First... 23, 40, 26 Second... 2, 8, 34, 39 Third... 19, 1, 21, 3	4, 2 12, 16 7	7, 8 9 5		
13	513	47th street, between 11th and 12th avenues } 11th avenue and 45th street.....	{ First... 2, 34, 26 Second... 23, 40, 19, 8, 43 Third... 1, 21, 3, 14	4, 2 12, 7 5	7, 8 5 6, 9	24	558	Broadway and 53d street.....	{ First... 23, 8, 40 Second... 26, 2, 1, 21 Third... 39, 34, 19, 14	4, 2 12, 7 16	7, 8 9 5		
13	514	43d street, between 10th and 11th avenues.....	{ First... 2, 34, 26 Second... 23, 19, 40, 21 Third... 1, 3, 8, 14	4, 2 12, 7 5	7, 8 5 6, 9	13	559	7th avenue and 56th street.....	{ First... 23, 40, 8 Second... 26, 2, 1, 39 Third... 21, 34, 19, 14	4, 2 12, 7 16	7, 8 9 5		
37	515	10th avenue and 45th street.....	{ First... 2, 34, 26 Second... 23, 40, 19, 21 Third... 1, 3, 8, 14	4, 2 12, 7 5	7, 8 5 6, 9	47	561	6th avenue and 52d street.....	{ First... 23, 8, 26 Second... 40, 21, 2, 1 Third... 39, 34, 14, 19	4, 2 12, 7 16	7, 8 9 5		
35	516	9th avenue and 47th street.....	{ First... 2, 23, 26 Second... 34, 40, 19, 8 Third... 1, 21, 3, 14	4, 2 12, 7 5	7, 8 5 6, 9	33	562	5th avenue and 55th street.....	{ First... 8, 23, 39 Second... 21, 40, 26, 2 Third... 1, 34, 14, 16	2, 4 7, 13 12	7, 8 9 6		
40	517	9th avenue and 44th street.....	{ First... 2, 26, 34 Second... 23, 19, 1, 40 Third... 21, 8, 3, 14	4, 2 12, 7 5	7, 8 5 6, 9	34	563	Madison avenue and 54th street.....	{ First... 8, 23, 39 Second... 21, 26, 40, 2 Third... 1, 14, 16, 34	2, 4 7, 13 12	7, 8 9 6		
40	518	7th avenue and 44th street.....	{ First... 26, 2, 1 Second... 23, 34, 21, 8 Third... 19, 40, 14, 3	4, 2 12, 7 3	7, 8 5 6, 9	39	564	4th avenue and 53d street.....	{ First... 8, 39, 21 Second... 23, 26, 40, 16 Third... 2, 1, 14, 22	2, 4 7, 13 3	7, 8 9 6		
36	519	7th avenue and 47th street.....	{ First... 26, 23, 2 Second... 8, 1, 21, 34 Third... 40, 19, 14, 3	4, 2 12, 7 3	7, 8 5 6, 9	15	565	3d avenue and 56th street.....	{ First... 8, 39, 21 Second... 23, 22, 16, 40 Third... 26, 2, 1, 14	2, 4 7, 13 3	7, 8 9 6		
47	521	6th avenue and 46th street.....	{ First... 26, 8, 23 Second... 21, 2, 1, 34 Third... 40, 14, 16, 19	4, 2 7, 12 3	7, 8 5 6, 9	14	566	2d avenue and 54th street.....	{ First... 8, 39, 21 Second... 23, 16, 22, 40 Third... 26, 2, 1, 5	2, 7 4, 13 3	7, 8 9 6		
35	522	6th avenue and 43d street.....	{ First... 26, 2, 21 Second... 1, 23, 8, 34 Third... 19, 14, 16, 40	4, 2 7, 12 3	7, 8 5 6, 9	39	567	1st avenue and 53d street.....	{ First... 8, 21, 39 Second... 23, 16, 22, 40, 43 Third... 26, 2, 1, 5	2, 7 4, 13 3	7, 8 9 6		
40	523	5th avenue and 44th street.....	{ First... 21, 8, 26 Second... 2, 1, 23, 16 Third... 14, 34, 39, 40	2, 4 7, 3 12	7, 8 6 5, 9	15	568	55th street, between 1st avenue and Avenue A.....	{ First... 8, 39, 21 Second... 23, 16, 22, 40, 43 Third... 26, 5, 2, 1	2, 7 4, 13 3	7, 8 9 6		
38	524	4th avenue and 46th street.....	{ First... 8, 21, 26 Second... 39, 23, 16, 2 Third... 1, 34, 14, 40	2, 4 7, 3 12	7, 8 6 5, 9	49	569	Blackwell's Island, opposite 62d street.....	{ First... 1, 16, 43 Second... 21, 39 Third...	7 ..... .....	8 9 .....		
14	525	Lexington avenue and 47th street.....	{ First... 8, 21, 39 Second... 26, 23, 16, 2 Third... 1, 14, 34, 5	2, 7 4, 3 13	7, 8 6 5, 9	35	571	11th avenue and 59th street.....	{ First... 23, 40, 2 Second... 34, 26, 8, 39, 43 Third... 19, 1, 3, 21	4, 2 16, 12 13	7, 8 9 5		
15	526	3d avenue and 45th street.....	{ First... 21, 8, 16 Second... 39, 26, 2, 23 Third... 1, 14, 5, 34	2, 7 4, 3 13	7, 8 6 5, 9	35	572	9th avenue and 60th street.....	{ First... 23, 40, 2 Second... 39, 34, 26, 8 Third... 19, 1, 21, 3	4, 2 16, 12 13	7, 8 9 5		
14	527	2d avenue and 46th street.....	{ First... 21, 8, 16 Second... 39, 26, 23, 2 Third... 5, 1, 14, 34	2, 7 4, 3 13	7, 8 6 5, 9	24	573	58th street, near Broadway.....	{ First... 23, 40, 8 Second... 2, 26, 39, 1 Third... 19, 21, 34, 3	4, 2 12, 16 13	7, 8 9 5		

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
47	574	6th avenue and 58th street.....	{ First... Second... Third... }	23, 8, 39 40, 26, 2, 21 1, 34, 14, 19	4, 2 13, 7 12	7, 8 9 5	46	629	Avenue A and 70th street.....	{ First... Second... Third... }	39, 44, 22 8, 23, 21 40, 16, 26	13, 2 7 16	8 7, 9 6
24	575	Madison avenue and 59th street.....	{ First... Second... Third... }	23, 39, 44 8, 21, 40, 22 26, 2, 1, 16	2, 4 13, 7 3	7, 8 9 6	34	631	Boulevard, between 77th and 78th streets.....	{ First... Second... Third... }	40, 23, 2 39, 22, 34 26, 8	16, 4 13 2	9 7, 8 8
40	576	Lexington avenue and 58th street.....	{ First... Second... Third... }	8, 39, 23 44, 21, 40, 22 16, 26, 2, 1	2, 4 13, 7 3	7, 8 9 6	..	632	9th avenue and 77th street.....	{ First... Second... Third... }	40, 23, 2 39, 22, 34 26, 8	16, 4 13 2	9 7, 8 8
39	577	58th street and 2d avenue.....	{ First... Second... Third... }	8, 39, 44 23, 21, 22, 40 16, 26, 2, 1	2, 13 4, 7 3	7, 8 9 6	33	633	5th avenue and 76th street.....	{ First... Second... Third... }	44, 39, 22 8, 23, 40 21, 26, 35	13, 2 4 16	9 8 7
14	578	1st avenue and 57th street.....	{ First... Second... Third... }	8, 39, 44 23, 21, 22, 40, 43 16, 26, 2, 1	2, 13 4, 7 3	7, 8 9 6	43	634	4th avenue and 71st street.....	{ First... Second... Third... }	39, 44, 22 8, 23, 40 21, 26, 35	13, 2 4 16	8 7, 9 6
49	579	Blackwell's Island, opposite 69th street.....	{ First... Second... Third... }	1, 16, 43 22, 8 .....	7 ..... .....	8 9 .....	48	635	4th avenue and 75th street.....	{ First... Second... Third... }	44, 39, 22 8, 23, 40 21, 35, 26	13, 2 4 16	9 8 7
59	581	10th avenue and 62d street.....	{ First... Second... Third... }	40, 23, 2 34, 26, 39 8, 19	4, 16 2 13	7, 9 5 5	46	636	3d avenue and 76th street.....	{ First... Second... Third... }	44, 22, 39 8, 21, 23 40, 35, 16	13, 2 4 16	9 8 7
..	582	8th avenue and 64th street.....	{ First... Second... Third... }	23, 40, 39 26, 2, 8 34, 19	4, 16 2 13	7, 9 5 5	45	637	2d avenue and 74th street.....	{ First... Second... Third... }	44, 39, 22 8, 23, 21 40, 35, 16	13, 2 7 16	9 8 7
34	583	5th avenue and 64th street.....	{ First... Second... Third... }	39, 23, 44 8, 40, 22 21, 26, 2	2, 13 4 16	8 7, 9 6	44	638	1st avenue and 76th street.....	{ First... Second... Third... }	44, 22, 39 8, 23, 21 40, 35, 16	13, 2 7 16	9 8 7
34	584	4th avenue and 61st street.....	{ First... Second... Third... }	39, 8, 44 23, 21, 40 22, 26, 16	2, 4 13 7	8 7, 9 6	49	639	Avenue A and 75th street.....	{ First... Second... Third... }	44, 39, 22 8, 23, 21 40, 35, 16	13, 2 7 16	9 8 7
14	585	3d avenue and 60th street.....	{ First... Second... Third... }	39, 8, 44 23, 21, 22 40, 16, 26	2, 13 4 7	8 7, 9 6	..	641	12th avenue and 79th street.....	{ First... Second... Third... }	40, 23, 22 2, 39, 8 34, 37	16, 4 13 2	9 7 8
15	586	3d avenue and 64th street.....	{ First... Second... Third... }	39, 44, 8 22, 23, 21 40, 16, 26	2, 13 4 7	8 7, 9 6	37	642	Boulevard and 81st street.....	{ First... Second... Third... }	40, 23, 22 2, 39, 8 34, 37	16, 4 13 2	9 7 8
24	587	2d avenue and 62d street.....	{ First... Second... Third... }	39, 8, 44 23, 21, 22 40, 16, 26	2, 13 4 7	8 7, 9 6	..	643	8th avenue and 81st street.....	{ First... Second... Third... }	40, 23, 22 39, 26, 8 2, 37	16, 13 4 2	9 7 8
46	588	1st avenue and 61st street.....	{ First... Second... Third... }	39, 8, 44 23, 21, 22 40, 16, 26	2, 13 4 7	8 7, 9 6	48	644	4th avenue and 82d street.....	{ First... Second... Third... }	22, 44, 39 8, 23, 40 21, 35, 26	13, 2 16 14	9 8 7
49	589	Blackwell's Island, opposite 76th street.....	{ First... Second... Third... }	1, 16, 43 22, 8 .....	7 ..... .....	8 9 .....	45	645	4th avenue and 79th street.....	{ First... Second... Third... }	22, 44, 39 8, 23, 40 21, 35, 26	13, 2 16 14	9 8 7
..	591	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	41	646	3d avenue and 82d street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 21, 36	13, 2 14 16	9 8 7
..	592	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	33	647	2d avenue and 79th street.....	{ First... Second... Third... }	44, 22, 39 8, 23, 21 40, 35, 36	13, 2 14 16	9 8 7
..	593	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	46	648	1st avenue and 82d street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 21, 36	13, 2 14 16	9 8 7
42	594	9th avenue and 71st street.....	{ First... Second... Third... }	40, 23, 39 2, 26, 8 44, 34, 22	16, 4 13 2	7 9 8	45	649	Avenue A and 79th street.....	{ First... Second... Third... }	44, 22, 39 8, 35, 23 40, 21, 36	13, 2 14 16	9 8 7
..	595	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	37	651	86th street, near 12th avenue.....	{ First... Second... Third... }	40, 23, 22 2, 37, 39 26, 36	16, 13 4 14	9 7 8
48	596	2d avenue and 84th street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 36, 21	13, 2 16 14	9 8 7	33	652	Boulevard and 86th street.....	{ First... Second... Third... }	40, 23, 22 37, 2, 39 26, 36	16, 13 4 14	9 7 8
..	597	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	43	653	9th avenue and 84th street.....	{ First... Second... Third... }	40, 23, 22 39, 37, 2 26, 36	16, 13 4 14	9 7 8
..	598	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	42	653	10th avenue and 83d street.....	{ First... Second... Third... }	40, 23, 22 39, 37, 2 26, 36	16, 13 4 14	9 7 8
..	598	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	37	654	8th avenue and 86th street.....	{ First... Second... Third... }	22, 40, 23 39, 37, 26 2, 36	16, 13 4 14	9 7 8
..	599	.....	{ First... Second... Third... }	..... ..... .....	..... ..... .....	..... ..... .....	38	655	5th avenue and 86th street.....	{ First... Second... Third... }	22, 44, 39 40, 23, 35 8, 36, 21	13, 16 2 14	9 8 7
..	612	12th avenue and 65th street.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 19	4, 16 2 13	7, 9 5 5	43	656	4th avenue and 86th street.....	{ First... Second... Third... }	22, 44, 39 35, 8, 23 40, 36, 21	13, 16 2 14	9 8 7
43	613	11th avenue and 69th street.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 19	4, 16 2 13	7, 9 5 5	44	657	3d avenue and 85th street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 36, 21	13, 2 16 14	9 8 7
42	614	65th street, between 10th and 11th avenues.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 19	4, 16 2 13	7, 9 5 5	44	658	Avenue A and 85th street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 36, 21	13, 2 16 14	9 8 7
37	615	Boulevard and 64th street.....	{ First... Second... Third... }	40, 23, 2 39, 26, 34 8, 19	4, 16 2 13	7, 9 5 5	49	659	Avenue B and 82d street.....	{ First... Second... Third... }	22, 44, 39 8, 35, 23 40, 21, 36	13, 2 16 14	9 8 7
..	616	8th avenue and 69th street.....	{ First... Second... Third... }	40, 23, 39 2, 26, 8 34, 19	4, 16 2 13	7, 9 5 5	..	661	Tenth avenue and 89th street.....	{ First... Second... Third... }	40, 22, 23 37, 39, 2 26, 36	16, 13 4 14	9 7 8
33	617	4th avenue and 65th street.....	{ First... Second... Third... }	39, 44, 8 23, 22, 40 21, 26, 16	2, 13 4 7	8 7, 9 6	..	662	9th avenue and 88th street.....	{ First... Second... Third... }	40, 22, 23 37, 39, 2 26, 36	16, 13 4 14	9 7 8
43	618	2d avenue and 66th street.....	{ First... Second... Third... }	39, 44, 8 22, 23, 21 40, 16, 26	2, 13 7 4	8 7, 9 6	42	663	9th avenue and 92d street.....	{ First... Second... Third... }	22, 40, 23 39, 37, 26 36, 2	16, 13 4 14	9 7 8
15	619	65th street, between 1st avenue and Avenue A.....	{ First... Second... Third... }	39, 44, 8 22, 23, 21 40, 16, 26	2, 13 7 4	8 7, 9 6	44	664	4th avenue and 90th street.....	{ First... Second... Third... }	22, 44, 39 35, 36, 8 40, 23, 21	13, 16 14 2	9 8 7
33	621	74th street, near 11th avenue.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 22	16, 4 13 2	9 7 8	33	665	87th street, between Lexington and 3d avenues.....	{ First... Second... Third... }	22, 44, 39 35, 8, 36 40, 23, 21	13, 16 14 2	9 8 7
37	622	Boulevard and 72d street.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 22	16, 4 13 2	9 7 8	46	667	2d avenue and 89th street.....	{ First... Second... Third... }	22, 44, 39 35, 8, 36 40, 23, 21	13, 16 14 2	9 8 7
34	623	Boulevard and 68th street.....	{ First... Second... Third... }	40, 23, 2 39, 34, 26 8, 22	16, 4 13 2	7, 9 5 5	45	668	1st avenue and 87th street.....	{ First... Second... Third... }	22, 44, 39 35, 8, 36 40, 23, 21	13, 16 14 2	9 8 7
44	624	8th avenue and 73d street.....	{ First... Second... Third... }	40, 23, 39 2, 26, 8 22, 34	16, 4 13 2	9 7 8	41	669	Avenue A and 88th street.....	{ First... Second... Third... }	22, 44, 39 35, 8, 36 40, 23, 21	13, 16 14 2	9 8 7
38	625	5th avenue and 71st street.....	{ First... Second... Third... }	39, 44, 23 22, 8, 40 21, 26, 2	13, 2 4 16	8 7, 9 6	37	671	Boulevard and 94th street.....	{ First... Second... Third... }	40, 37, 22 23, 39, 35 2, 36	16, 13 4 14	9 10 7
49	626	67th street, near 3d avenue.....	{ First... Second... Third... }	39, 44, 8 22, 23, 40 21, 16, 26	2, 13 4 16	8 7, 9 6	33	672	Boulevard and 99th street.....	{ First... Second... Third... }	37, 40, 22 23, 35, 39 2, 36	16, 13 14 4	9 10 7
44	627	3d avenue and 71st street.....	{ First... Second... Third... }	39, 44, 22 8, 23, 40 21, 16, 26	13, 2 7 16	8 7, 9 6	..	673	9th avenue and 96th street.....	{ First... Second... Third... }	40, 37, 22 23, 35, 39 2, 36	16, 13 14 4	9 10 7
..	628	1st avenue and 70th street.....	{ First... Second... Third... }	39, 44, 22 8, 23, 21 40, 16, 26	13, 2 7 16	8 7, 9 6	..	674	8th avenue and 96th street.....	{ First... Second... Third... }	22, 40, 37 23, 35, 39 36, 26	16, 13 14 4	9 10 7

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
43	675	5th avenue and 94th street.....	{ First ... Second... Third ..	22, 44, 35 39, 36, 23 40, 37, 8	13, 16 14 2	9 10 8	34	731	Boulevard and 115th street.....	{ First ... Second... Third ..	37, 35, 38 36, 40, 22 23, 44	16, 14 .... 13	9 10 7
..	676	4th avenue and 97th street.....	{ First ... Second... Third ..	22, 35, 44 39, 36, 37 40, 8, 23	13, 16 14 2	9 10 8	..	732	9th avenue and 116th street.....	{ First ... Second... Third ..	37, 35, 36 38, 40, 22 23, 44	16, 14 .... 13	9 10 7
45	677	3d avenue and 92d street.....	{ First ... Second... Third ..	22, 44, 39 35, 36, 8 40, 23, 37	13, 16 14 2	9 10 8	..	733	7th avenue and 116th street.....	{ First ... Second... Third ..	37, 35, 36 38, 22, 40 23, 44	14, 16 13 ....	9 10 7
34	678	3d avenue and 96th street.....	{ First ... Second... Third ..	22, 44, 35 39, 36, 8 40, 37, 23	13, 16 14 2	9 10 8	..	734	5th avenue and 116th street.....	{ First... Second... Third...	35, 36, 37 22, 38, 44 39, 40, 23	14, 13 16 ....	9 10 8
48	679	Avenue A and 92d street.....	{ First ... Second... Third ..	22, 44, 39 35, 36, 8 40, 23, 37	13, 16 14 2	9 10 8	48	735	4th avenue and 115th street.....	{ First... Second... Third...	35, 36, 37 22, 44, 38 39, 8, 40	14, 13 16 ....	9 10 8
..	681	11th avenue and 102d street.....	{ First ... Second... Third ..	37, 40, 35 22, 36, 38 23, 39	16, 13 14 ....	9 10 7	44	736	3d avenue and 115th street.....	{ First... Second... Third ..	35, 36, 22 37, 44, 39 38, 8, 40	14, 13 16 ....	9 10 8
37	682	100th street, between 9th and 10th avenues.....	{ First ... Second... Third ..	37, 40, 22 35, 36, 23 38, 39	16, 13 14 ....	9 10 7	45	737	1st avenue and 115th street.....	{ First... Second... Third ..	35, 36, 22 37, 44, 39 38, 8, 40	14, 13 16 ....	9 10 8
..	683	9th avenue and 103d street.....	{ First ... Second... Third ..	37, 40, 35 22, 36, 38 23, 39	16, 13 14 ....	9 10 ....	44	738	Avenue A and 118th street.....	{ First... Second... Third ..	35, 36, 22 37, 44, 39 8, 40	14, 17 16, 13 ....	9 10 8
44	684	8th avenue and 100th street.....	{ First ... Second... Third ..	37, 40, 22 35, 36, 23 39, 38	16, 13 14 ....	9 10 7	48	739	Randall's Island, opposite 121st street.....	{ First... Second... Third ..	35, 1, 16, 43 36 ....	14, 7 13 ....	9 10 ....
..	685	5th avenue and 100th street.....	{ First ... Second... Third ..	22, 35, 36 44, 39, 37 40, 23, 8	13, 16 14 2	9 10 8	..	741	119th street, near Boulevard.....	{ First ... Second... Third ..	37, 35, 38 36, 40, 22 23, 44	16, 14 .... 13	9 10 7
..	686	4th avenue and 103d street.....	{ First ... Second... Third ..	35, 22, 36 44, 39, 37 40, 8, 23	13, 14 16 2	9 10 8	..	742	10th avenue and 120th street.....	{ First ... Second... Third ..	37, 35, 38 36, 40, 22 23, 44	16, 14 .... 13	9 10 7
46	687	3d avenue and 102d street.....	{ First ... Second... Third ..	22, 35, 36 44, 39, 37 8, 40, 23	13, 14 16 2	9 10 8	..	743	9th avenue and 121st street.....	{ First ... Second... Third ..	37, 36, 35 38, 40, 22 23, 44	14, 16 .... 13	9 10 7
44	688	2d avenue and 97th street.....	{ First ... Second... Third ..	22, 35, 44 39, 36, 37 8, 40, 23	13, 14 16 2	9 10 8	..	744	8th avenue and 119th street.....	{ First ... Second... Third ..	37, 35, 36 38, 22, 40 23, 44	14, 16 .... 13	9 10 7
..	689	1st avenue and 100th street.....	{ First ... Second... Third ..	22, 35, 36 44, 39, 37 8, 40, 23	13, 14 16 2	9 10 8	38	745	7th avenue and 122d street.....	{ First ... Second... Third ..	37, 36, 35 38, 22, 40 23, 44	14, 16 .... 13	9 10 7
..	691	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	..	746	6th avenue and 119th street.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 40	14, 16 13 ....	9 10 8
..	692	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	34	747	4th avenue and 120th street.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 8	14, 17 16, 13 ....	9 10 8
..	693	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	43	748	118th street and 2d avenue.....	{ First ... Second... Third ..	35, 36, 37 22, 44, 39 38, 8	14, 17 16, 13 ....	9 10 8
..	694	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	46	749	1st avenue and 120th street.....	{ First ... Second... Third ..	35, 36, 37 22, 44, 39 38, 8	14, 17 16, 13 ....	9 10 8
..	695	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	..	751	12th avenue and 125th street.....	{ First ... Second... Third ..	37, 36, 38 35, 40, 22 23, 44	14, 16 .... 13	9 10 7
..	696	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	..	752	Boulevard and 122d street.....	{ First ... Second... Third ..	37, 36, 38 35, 40, 22 23, 44	14, 16 .... 13	9 10 7
59	697	3d avenue and 111th street.....	{ First ... Second... Third ..	35, 36, 22 44, 37, 39 8, 38, 40	14, 13 16 ....	9 10 8	34	753	8th avenue and 125th street.....	{ First ... Second... Third ..	37, 36, 35 38, 22, 40 23, 44	14, 16 .... 13	9 10 7
..	698	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	45	754	5th avenue and 124th street.....	{ First ... Second... Third ..	36, 35, 37 38, 22, 44 39, 40	14, 17 13 16	9 10 8
..	699	.....	{ First ... Second... Third ..	..... ..... .....	..... ..... .....	..... ..... .....	43	755	123d street and Lexington avenue.....	{ First ... Second... Third ..	36, 35, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
..	712	106th street, between 11th and 12th avenues.....	{ First ... Second... Third ..	37, 40, 35 36, 22, 38 23, 39	16, 14 13 ....	9 10 7	33	756	121st street and 3d avenue.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
34	713	10th avenue and 104th street.....	{ First ... Second... Third ..	37, 40, 35 22, 36, 38 23, 39	16, 14 13 ....	9 10 7	45	757	2d avenue and 125th street.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
43	714	9th avenue and 108th street.....	{ First ... Second... Third ..	37, 35, 40 36, 22, 38 23, 39	16, 14 13 ....	9 10 7	44	758	1st avenue and 124th street.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
..	715	8th avenue and 106th street.....	{ First ... Second... Third ..	37, 35, 40 36, 22, 38 23, 39	16, 14 13 ....	9 10 7	45	759	Avenue A and 122d street.....	{ First ... Second... Third ..	35, 36, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
..	716	5th avenue and 106th street.....	{ First ... Second... Third ..	35, 36, 22 37, 44, 39 40, 23, 38	13, 14 16 ....	9 10 8	33	761	Lawrence street, near Boulevard.....	{ First ... Second... Third ..	37, 36, 38 35, 40, 22 23, 44	14 16 13	9 10 7
34	717	3d avenue and 106th street.....	{ First ... Second... Third ..	35, 22, 36 44, 39, 37 8, 38, 40	13, 14 16 ....	9 10 8	34	762	Lawrence street, near 10th avenue.....	{ First... Second... Third ..	37, 36, 38 35, 40, 22 23, 44	14 16 13	9 10 7
48	718	2d avenue and 104th street.....	{ First ... Second... Third ..	35, 22, 36 44, 39, 37 8, 38, 40	13, 14 16 ....	9 10 8	33	763	9th avenue and 125th street.....	{ First ... Second... Third ..	37, 36, 38 35, 40, 22 23, 44	14 16 13	9 10 7
44	719	1st avenue and 106th street.....	{ First ... Second... Third ..	35, 22, 36 44, 39, 37 8, 38, 40	13, 14 16 ....	9 10 8	46	764	6th avenue and 125th street.....	{ First ... Second... Third ..	36, 37, 35 38, 22, 44 40, 39	14 16 13	9 10 8
33	721	Boulevard and 110th street.....	{ First ... Second... Third ..	37, 35, 40 36, 38, 22 23, 44	16, 14 .... 13	9 10 7	34	765	5th avenue and 128th street.....	{ First ... Second... Third ..	36, 35, 37 38, 22, 44 23, 39	14 13 16	9 10 8
..	722	10th avenue and 112th street.....	{ First ... Second... Third ..	37, 35, 36 38, 40, 22 23, 44	16, 14 .... 13	9 10 7	33	766	4th avenue and 125th street.....	{ First ... Second... Third ..	36, 35, 37 22, 38, 44 39, 8	14, 17 13 16	9 10 8
..	723	8th avenue and 113th street.....	{ First ... Second... Third ..	37, 35, 36 38, 40, 22 23, 44	16, 14 .... 13	9 10 7	44	767	3d avenue and 126th street.....	{ First ... Second... Third ..	36, 35, 37 22, 38, 44 39, 40	14, 17 13 16	9 10 8
44	724	6th avenue and 110th street.....	{ First ... Second... Third ..	35, 37, 36 22, 44, 38 39, 40, 8	14, 16 13 ....	9 10 8	46	768	2d avenue and 128th street.....	{ First ... Second... Third ..	36, 35, 37 22, 38, 44 39, 40	14, 17 13 16	9 10 8
..	725	5th avenue and 111th street.....	{ First ... Second... Third ..	35, 36, 37 22, 44, 39 38, 8, 40	14, 13 16 ....	9 10 8	..	769	138th street and Harlem river.....	{ First... Second... Third ..	41, 36, 47 35, 42 ....	17, 14 18 ....	10 9 ....
43	726	4th avenue and 110th street.....	{ First... Second... Third ..	35, 36, 22 37, 44, 39 38, 8, 40	14, 13 16 ....	9 10 8	59	771	Southern Boulevard and 3d avenue.....	{ First... Second... Third ..	36, 41, 47 35, 42 ....	17, 14 18 ....	10 9 ....
33	727	2d avenue and 110th street.....	{ First ... Second... Third ..	35, 36, 22 37, 44, 39 8, 38, 40	14, 13 16 ....	9 10 8	..	773	Southern Boulevard and Willis avenue.....	{ First... Second... Third ..	41, 36, 47 35, 42 ....	17, 14 18 ....	10 9 ....
48	728	Avenue A and 110th street.....	{ First... Second... Third ..	35, 36, 22 37, 44, 39 8, 38, 40	14, 13 16 ....	9 10 8	59	774	138th street and St. Ann's avenue.....	{ First... Second... Third ..	41, 36, 47 35, 42 ....	17, 14 18 ....	10 9 ....
48	729	Ward's Island, opposite 106th street.....	{ First ... Second... Third ..	35, 1, 16, 43 22 ....	13, 7 14 ....	9 10 ....	..	776	138th street and Southern Boulevard.....	{ First... Second... Third ..	41, 36, 47 35, 42 ....	17, 14 18 ....	10 9 ....

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
..	778	138th street and Walnut avenue.....	{ First... Second..	41, 36, 47 42	17, 14 18	10 9	41	837	McComb's lane and 155th street .....	{ First... Second.. Third..	38, 37 36, 35 22, 40	19 14 16	9 10 ....
..	779	132d street and Walnut avenue.....	{ First... Second..	41, 36, 47 42	17, 14 18	10 9	..	838	161st street and River avenue.....	{ First... Second..	41, 42 47, 38	18, 19 ....	10 9
..	781	12th avenue and 132d street.....	{ First... Second.. Third..	37, 38, 36 35, 40, 22 23, 44	14 16 13	9 10 7	43	839	165th street, at entrance to Fleetwood Park .....	{ First... Second..	42, 41 38, 46, 47	18, 19 ....	10 9
34	782	130th street, between Boulevard and 12th avenue ...	{ First... Second.. Third..	37, 38, 36 35, 40, 22 23, 44	14 16 13	9 10 7	38	841	158th street, near 12th avenue .....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
43	783	132d street and Bloomingdale road.....	{ First... Second.. Third..	37, 38, 36 35, 40, 22 23, 44	14 16 13	9 10 7	42	842	162d street, near 12th avenue.....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
..	784	St. Nicholas avenue and 129th street.....	{ First... Second.. Third..	37, 36, 38 35, 40, 22 23, 44	14 16 13	9 10 7	..	843	12th avenue and 158th street.....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
34	785	8th avenue and 133d street.....	{ First... Second.. Third..	37, 36, 38 35, 40, 22 23, 44	14 16 13	9 10 7	38	844	Kingsbridge road, near 165th street.....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
33	786	7th avenue and 129th street.....	{ First... Second.. Third..	37, 36, 35 38, 22, 40 44, 23	14 16 13	9 10 7	41	845	10th avenue and 162d street .....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
45	787	6th avenue and 133d street.....	{ First... Second.. Third..	36, 37, 35 38, 22, 40 44, 23	14 16 13	9 10 8	..	846	Boulevard and 158th street .....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
43	788	4th avenue and 130th street.....	{ First... Second.. Third..	36, 35, 37 38, 22, 40 39, 40	14, 17 13 16	9 10 8	..	847	Boulevard and 165th street .....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....
45	789	3d avenue and 129th street.....	{ First... Second.. Third..	36, 35, 37 22, 38, 44 39, 40	14, 17 13 16	9 10 8	..	848	158th street and Morris avenue .....	{ First... Second..	42, 47, 47 36, 46	18 17	10 9
43	791	149th street and Mott avenue.....	{ First... Second..	41, 36, 47 42, 35	17, 14 18	10 9	..	849	154th street and Courtland avenue .....	{ First... Second..	41, 42, 47 36, 46	17, 18 14	10 9
..	792	143d street and 3d avenue.....	{ First... Second..	41, 36, 47 35, 42	17, 14 18	10 9	..	851	River and 173d streets .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	793	144th street and Willis avenue.....	{ First... Second..	41, 47, 36 42, 35	17, 14 18	10 9	..	852	Boulevard and 170th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	794	143d street and Cypress avenue.....	{ First... Second..	47, 47, 42 36	17, 18 14	10 9	42	853	176th street, between 12th avenue and Boulevard....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	795	148th street and 3d avenue.....	{ First... Second..	41, 47, 42 36, 35	17, 18 14	10 9	..	854	11th avenue and Kingsbridge road .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	796	149th street and Brook avenue.....	{ First... Second..	47, 47, 42 36, 35	17, 18 14	10 9	41	855	172d street and Kingsbridge road .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	797	149th street and Cypress avenue—Quarters Engine Co. 47.....	{ First... Second..	47, 47, 42 36, 35	17, 18 14	10 9	38	856	177th street and Kingsbridge road .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	798	147th street and Beach avenue.....	{ First... Second..	47, 47, 42 36	17, 18 14	10 9	41	857	11th avenue and 176th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	799	144th street and Southern Boulevard.....	{ First... Second..	47, 47, 42 36	17, 18 14	10 9	42	858	10th avenue and 174th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	812	12th avenue and 138th street.....	{ First... Second.. Third..	37, 38 36, 35 40, 22	14 16 13	9 10 ....	..	859	High Bridge.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	813	Boulevard and 135th street.....	{ First... Second.. Third..	37, 38 36, 35 40, 22	14 16 13	9 10 7	38	861	River and 180th streets.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
46	814	Boulevard and 140th street.....	{ First... Second.. Third..	37, 38 36, 35 40, 22	14 16 13	9 10 ....	..	862	Boulevard and 186th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	815	10th avenue and 137th street.....	{ First... Second.. Third..	37, 38 36, 35 40, 22	14 16 13	9 10 ....	41	863	12th avenue and 185th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	816	St. Nicholas avenue and 137th street.....	{ First... Second.. Third..	37, 38 36, 35 40, 22	14 16 13	9 10 ....	42	864	180th street and Kingsbridge road .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
42	818	6th avenue and 140th street.....	{ First... Second.. Third..	36, 37 38, 35 22, 44	14 13 16	9 10 ....	38	865	187th street and Kingsbridge road.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
46	819	5th avenue and 135th street.....	{ First... Second.. Third..	36, 35 37, 38 22, 44	14 13 16	9 10 8	..	866	11th avenue and 183d street .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
43	821	143d street, between Public Drive and 12th avenue..	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	41	867	10th avenue and 181st street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
42	822	Boulevard and 150th street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	868	River drive and 185th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
41	823	10th avenue and 143d street .....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	59	869	159th street and Washington avenue.....	{ First... Second..	41, 42, 47 36, 46	18, 17 14	10 9
..	824	St. Nicholas avenue and 145th street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	871	Boulevard and 192d street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
45	825	8th avenue and 142d street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	42	872	190th street, bet. Boulevard and Kingsbridge road..	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	826	7th avenue and 148th street.....	{ First... Second.. Third..	38, 37 36, 35 22, 40	.... 14 16	9 10 ....	..	873	194th street and Kingsbridge road .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	827	6th avenue and 145th street.....	{ First... Second.. Third..	36, 38 37, 35 22, 40	.... 14 13	9 10 ....	..	874	Dyckman and 200th streets.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	828	5th avenue and 142d street.....	{ First... Second.. Third..	36, 38 37, 35 22, 44	14 .... 13	9 10 ....	..	875	11th avenue and 193d street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
59	829	Ogden avenue and Wolf street.....	{ First... Second..	38, 42 41, 47	19, 18 ....	10 9	..	876	River drive and 197th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
41	831	River and 152d streets.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	877	10th avenue and 189th street .....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
38	832	10th avenue and 152d street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	878	156th street and St. Ann's avenue.....	{ First... Second.. Third..	41, 42, 47 36, 45	18, 17 14	10 9
41	833	10th avenue, between 154th and 155th streets.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	879	163d street and Union avenue.....	{ First... Second..	42, 41, 47 45	18, 17 14	10 9
..	834	9th avenue and 150th street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	38	881	River and 206th streets.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
..	835	155th street, between 8th and 9th avenues.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	..	882	Boulevard and 201st street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....
42	836	10th avenue and 158th street.....	{ First... Second.. Third..	38, 37 36, 35 40, 22	.... 14 16	9 10 ....	42	883	Bolton avenue and 214th street.....	{ First... Second.. Third..	38 36, 35, 37 22, 40	.... 14 16	9 10 ....

## THE CITY RECORD.

## SUPPLEMENT

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.	Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
41	884	204th street and Kingsbridge road .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	951	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	885	208th street and Kingsbridge road .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	952	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	886	205th street, between Kingsbridge road and Harlem River street .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	953	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	887	210th street, between Kingsbridge road and Harlem River street .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	954	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	889	204th and Harlem River streets .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	955	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	891	Sedgwick avenue and Highbridge—east end .....	{ First ... Second ...	42, 46 41, 47	19, 18 ....	10 9	..	956	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	892	167th street and Central avenue .....	{ First ... Second ...	42, 46 41, 47	19, 18 ....	10 9	..	957	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	893	169th street and Morris avenue .....	{ First ... Second ...	42, 46 41, 47	18 19	10 9	..	958	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	894	167th street and 4th avenue .....	{ First ... Second ...	42, 41 46, 47	18, 17 19	10 9	..	959	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	895	166th street and 3d avenue .....	{ First ... Second ...	42, 41, 47 46, 45	18, 17 14	10 9	..	960	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	896	169th street and 3d avenue .....	{ First ... Second ...	42, 46, 47 41, 45	18, 17 14	10 9	..	961	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	897	169th street and Boston avenue .....	{ First ... Second ...	42, 45 41, 46, 47	18 17	10 9	..	962	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	898	Westchester avenue and Southern Boulevard .....	{ First ... Second ...	47, 45, 42 41, 46	18 17	10 9	..	963	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	899	Gas Works, West Farms Village .....	{ First ... Second ...	45, 42 46, 48	18 17	10 9	..	964	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	912	River and 217th streets .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	965	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	913	12th avenue and 212th street .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	966	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	914	River and 218th streets .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	967	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
38	915	216th street and Kingsbridge road .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	968	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	916	213th and Harlem River streets .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	969	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	917	220th street and Kingsbridge road .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	970	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	918	River and 222d streets .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	971	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
42	919	224th street and Kingsbridge road .....	{ First ... Second ... Third ...	38 36, 35, 37 22, 40	.... 14 16	9 10 ....	..	972	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	921	Undercliff avenue, opposite Ogden's residence .....	{ First ... Second ...	42, 46 41, 48	19 18	10 9	..	973	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	922	Spring street and Monroe avenue, Tremont .....	{ First ... Second ...	46, 42 45, 48	18 19	10 9	..	974	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	923	H. R. R. Shops, Tremont .....	{ First ... Second ...	46, 42 41, 48	18 17	10 9	..	975	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	924	School-house No. 1, 3d avenue, Tremont .....	{ First ... Second ...	46, 42 45, 48	18 17	10 9	..	976	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	925	Corner of Woodruff and Prospect avenues .....	{ First ... Second ...	46, 45 48	18 17	10 9	..	977	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	926	Quarters Engine Co. 45, West Farms Village .....	{ First ... Second ...	45, 46 42, 48	18 17	10 9	..	978	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	927	Waverly street and Central avenue .....	{ First ... Second ...	46, 48 42, 41	19 18	10 9	..	979	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	928	Waverly street and Monroe avenue .....	{ First ... Second ...	46, 42 41, 48	19 18	10 9	..	980	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	929	Quarters Engine Co. 46, Tremont .....	{ First ... Second ...	46, 42 45, 48	18 19	10 9	..	981	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	931	Clinton street and Central avenue .....	{ First ... Second ...	46, 48 41, 42	19 18	10 9	..	982	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	932	1st street and Valentine avenue, Fordham .....	{ First ... Second ...	48, 46 45, 42	18 19	10 9	..	983	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	933	House of Incurables, Kingsbridge road, Belmont .....	{ First ... Second ...	48, 46 42, 45	18 17	10 9	..	984	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	934	Kingsbridge road and Southern Boulevard .....	{ First ... Second ...	45, 48 42, 46	18 17	10 9	..	985	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
59	935	Samuel street and Boston road, West Farms .....	{ First ... Second ...	45, 46 42, 48	18 17	10 9	..	986	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	936	Fordham Landing road and Central avenue .....	{ First ... Second ...	48, 46 42, 41	19 18	10 9	..	987	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	937	Fordham station, N. Y. & H. R. R. .....	{ First ... Second ...	48, 46 42, 45	18 19	10 9	..	988	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	938	Broadway, Fordham and Pelham avenues .....	{ First ... Second ...	48, 45 46, 42	18 17	10 9	..	989	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	939	Spuyten Duyvil Village .....	{ First ... Second ...	48 46	19 18	10 9	..	990	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	941	Kingsbridge Police station .....	{ First ... Second ...	48 46	19 18	10 9	..	991	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	942	Kingsbridge road and Croton aqueduct .....	{ First ... Second ...	48 46	19 18	10 9	..	992	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	943	Southern Boulevard and Central ave., Jerome Park .....	{ First ... Second ...	48, 46 42, 45	19 18	10 9	..	993	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	944	Southern Boulevard and N. Y. & H. R. R. .....	{ First ... Second ...	48, 46 45	18 19	10 9	..	994	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....
..	945	Williamsbridge R. R. station .....	{ First ... Second ...	48, 46 45	18 17	10 9	..						
..	946	Woodlawn R. R. station .....	{ First ... Second ...	48 46	18 17	10 9	..						
..	947	Riverdale and Moshulu avenues .....	{ First ... Second ...	48 46	18 19	10 9	..						
..	948	Broadway and Moshulu avenue .....	{ First ... Second ...	48 46	18 19	10 9	..						
..	949	.....	{ First ... Second ... Third ...	..... ..... .....	..... ..... .....	..... ..... .....	..						

Circuit.	Box No.	LOCATION.	Alarm.	Engine Companies.	H. & L. Companies.	Battalion Chiefs.
..	995	.....	{ First... Second... Third..	..... ..... .....	..... ..... .....	..... ..... .....
..	996	.....	{ First... Second... Third..	..... ..... .....	..... ..... .....	..... ..... .....
..	997	.....	{ First... Second... Third..	..... ..... .....	..... ..... .....	..... ..... .....
..	998	.....	{ First... Second... Third..	..... ..... .....	..... ..... .....	..... ..... .....

NOTE.—Stations marked † are duplicate boxes. Stations without circuit number have no boxes.

Should the services of Engine Company No. 43 be required at a station, at which it is not assigned, the officer in charge at the fire will send, or cause to be sent, the special call signal from the street box.

The companies assigned to duty at stations on Blackwell's, Ward's, and Randall's Islands, will respond to alarms as follows: For Signal Stations 569, 579, 589, 729 and 739, Engine Co's Nos. 1, 16, and H. & L. Co. No. 7, will respond on receipt of either of the above signals, at the foot of Twenty-sixth street, E. R., where transportation will be furnished by the Commissioners of Charities and Correction to either Blackwell's, Ward's, or Randall's Islands, the location of the signal station. Engine Co. 35 and H. & L. Co. 13 for Station 729 at the foot of East One Hundred and Tenth street, and Engine Co. 35 and H. & L. Co. 14 for Station 739 at the foot of East One Hundred and Twenty-second street, leaving one officer, drivers, and tillermen in quarters with apparatus.

When responding to signals, as required by this order, the apparatus of H. & L. Co. No. 7 will return to quarters in charge of one officer (if both are present), the driver and tillerman, and the remainder of the company, with such implements as may be required, will proceed to the fire. The commanding officers of Engine Co's Nos. 5, 8, 21, 39, and H. & L. Co's Nos. 2 and 3, will immediately, on receipt of either of the above signals, detail one man to report at the quarters of H. & L. Co. No. 7 to perform duty with the apparatus until the return of the company.

In case of the absence from quarters of either of the engine companies designated to respond to the stations mentioned, special call signals for the next nearest engine companies will be sent, and the companies will respond in the manner above prescribed; and should assistance be required at any fire on either of the Islands, the officer in command will make use of the special call signals for the purpose of obtaining it.

LVIII.—Chiefs of Battalion will perform fire duty within the limits prescribed for them respectively, as follows, and will refer to the assignment list for their boundary stations:

#### CHIEF OF FIRST BATTALION.

*On First Alarms.*—North river, Chambers street, Broadway, Pearl, Chambers street, James slip, and East river. *On Second Alarms.*—South of Desbrosses, Canal, and Rutgers streets. *On Third Alarms.*—South of Houston street.

#### CHIEF OF SECOND BATTALION.

*On First Alarms.*—North river, Desbrosses, Canal, Greene, Grand, Gouverneur streets, and East river. *On Second Alarms.*—South of Houston street. *On Third Alarms.*—South of Fourteenth street.

#### CHIEF OF THIRD BATTALION.

*On First Alarms.*—North river, Fourteenth street, Fifth avenue, Eighth street, University place, Bleecker, Mulberry, Grand, Centre, Pearl, Broadway, Chambers street, and North river. *On Second Alarms.*—North river, Fourteenth street, Second avenue, Houston street, East river, Rutgers, Canal, Centre, Pearl, Broadway, Chambers streets, James slip, and East river. *On Third Alarms.*—North river, Forty-second street, Sixth avenue, Twenty-sixth street, and East river.

#### CHIEF OF FOURTH BATTALION.

*On First Alarms.*—East river, Fourteenth street, Second avenue, Second street, Bowery, Bleecker, Crosby, Grand, Centre, Pearl, Chambers streets, James slip, and East river. *On Second Alarms.*—East river, Fourteenth street, Fifth avenue, South Fifth avenue, Houston street, North river, Desbrosses, Canal, Centre, Pearl, Broadway, Chambers streets, and North river. *On Third Alarms.*—East river, Forty-second street, Sixth avenue, Twenty-sixth street, and North river.

#### CHIEF OF FIFTH BATTALION.

*On First Alarms.*—North river, Twenty-sixth street, Sixth avenue, Twenty-first street, Fourth avenue, Fourteenth street, Second avenue, Second street, Bowery, Bleecker, Crosby, Grand, Greene, Canal, Desbrosses streets, and North river. *On Second Alarms.*—North river, Fifty-first street, Sixth avenue, Twenty-sixth street, East river, Houston, Crosby, Grand, Centre, Pearl, Broadway, Chambers street, and North river. *On Third Alarms.*—North river, Seventy-first street, Eighth avenue, Fifty-ninth street, Sixth avenue, Fifty-first street, and East river.

#### CHIEF OF SIXTH BATTALION.

*On First Alarms.*—East river, Twenty-sixth street, Fourth avenue, Twenty-first street, Sixth avenue, Fourteenth street, Fifth avenue, Eighth street, University place, Bleecker, Mulberry, Grand, Gouverneur streets, and East river. *On Second Alarms.*—East river, Fifty-first street, Sixth avenue, Twenty-sixth street, North river, Houston, Crosby, Grand, Centre, Pearl, Chambers streets, James slip, and East river. *On Third Alarms.*—East river, Seventy-first street, Fifth avenue, Fifty-ninth street, Sixth avenue, Fifty-first street, and North river.

#### CHIEF OF SEVENTH BATTALION.

*On First Alarms.*—North river, Seventy-first street, Eighth avenue, Fifty-ninth street, East river, Twenty-sixth street, Fourth avenue, Twenty-first street, Sixth avenue, Fourteenth street, and North river. *On Second Alarms.*—North river, Ninety-first street, Eighth avenue, Seventy-first street, East river, Fourteenth street, Fifth avenue, South Fifth avenue, Houston street, and North river. *On Third Alarms.*—North river, One Hundred and Thirty-fifth street, Seventh avenue, One Hundred and Tenth street, Eighth avenue, Ninety-first street, East river, Fourteenth street, Broadway, Houston street, and North river.

#### CHIEF OF EIGHTH BATTALION.

*On First Alarms.*—East river, Seventy-first street, Fifth avenue, Fifty-ninth street, North river, Twenty-sixth street, Sixth avenue, Twenty-first street, Fourth avenue, Fourteenth street, and East river. *On Second Alarms.*—East river, Ninety-first street, Fifth avenue, Seventy-first street, North river, Fourteenth street, Second avenue, Houston street, and East river. *On Third Alarms.*—East river, One Hundred and Thirty-fifth street, Seventh avenue, One Hundred and Tenth street, Fifth avenue, Ninety-first street, North river, Fourteenth street, Broadway, Houston street, and East river.

#### CHIEF OF NINTH BATTALION.

*On First Alarms.*—All stations north of Seventy-first street, south and west of Harlem river. *On Second Alarms.*—All stations north of Fifty-first street. *On Third Alarms.*—All stations north of Forty-second street.

#### CHIEF OF TENTH BATTALION.

*On First Alarms.*—All stations north and east of Harlem river. *On Second Alarms.*—All stations north of Ninety-first street.

(General Orders No. 26.)

#### CARE AND KEEPING OF HORSES.

1. Horses may be fed with three quarts of oats, morning and noon; in the evening three quarts of fine feed mixed with six quarts of cut hay, and occasionally some salt will be given. At nine o'clock at night bedding will be spread and horses cared for for the night; about eight pounds of loose hay may be given at that time. A fixed rule cannot be made as to quantity of feed, some horses requiring more and some less, commanding officers and drivers will therefore learn from personal observation the proper quantity for each particular animal and feed accordingly, without waste and taking care not to fatten. Horses shall be watered frequently with pure fresh water, in moderate quantities, and shall not be fed nor watered when warm.

2. Commanding officers will carefully examine and have weighed in their presence all hay, straw, oats, and feed that may be delivered at their quarters; see that it is correct as to weight,

count, and measure, and refuse to receive or receipt for any that does not fully and positively comply with the following standard:

Hay—To be best marketable, sweet timothy.

Oats—To be best white oats, clean and weigh 80 lbs. per bag.

Fine feed—To be fresh and free from foreign substances, and weigh 60 lbs. per bag.

Straw—To be best, long, clean rye.

3. Horses when in good health shall be exercised two hours each day, except Sunday or in weather unfit to do so, in the immediate vicinity of quarters; in cold weather with blankets on, and at no time faster than a walk. Commanding officers will cause them to be taught and practiced to quickly take their places at the pole and shafts on the sound of the gong while being exercised. When they go out to an alarm for fire in the morning or afternoon that part of the exercising may be dispensed with.

4. On arriving at a fire in cold or wet weather, the horses must be blanketed, and shall also, if practicable, be housed in the nearest company quarters; if that cannot be done they must be kept walking in the immediate vicinity of the fire. As soon as practicable after arrival at a fire, the driver shall examine their feet for nails, stones, injury by shoe caulks, etc., rub their legs well with his hands, and wash them when sufficiently cool to do so, removing thoroughly all mud, mortar, snow, ice, or anything improper to be on them, if possible.

5. On returning from an alarm for fire, the horses must not be driven faster than an ordinary trot or walk, as the commanding officer may direct, and immediately on reaching quarters (and also on their return from exercise) they must be rubbed until quite dry, particular care being taken to rub their legs until they are warm, and have their feet and legs well washed with water and sponge. Commanding officer will detail two men to each horse that the work may be well, thoroughly, and quickly done.

6. Every morning before feeding, the horses shall be groomed, outside of quarters when weather will permit. Sufficient time must be taken and patience exercised to do the work in the most thorough and careful manner, making them scrupulously clean in all their parts. Coat must be kept dry, clean, and glossy (good rubbing opens the pores and produces free and healthy action of the skin, and stimulates the circulation).

7. Each morning, when the weather will permit, the bedding should be aired on the house top if no better place can be found; it may be hoisted by roof rope in a sheet supplied for that purpose. At 9 o'clock at night the bedding should be spread with dry clean straw, and in a proper manner—manure shall be immediately taken up and placed in manure box or pit at once. Stalls must be kept clean and neat.

8. Officers and drivers will, as soon as possible, from personal study, observation, or otherwise, learn the disposition, habits, and peculiarities of their horses, treat them kindly, humor them when necessary, teach them by kindness (not the lash) to come promptly to the pole when the gong sounds, and submit to be harnessed and hitched with the least possible delay.

9. Men and horses shall be exercised in hitching at least for ten minutes each morning and afternoon, except Sunday, or when fatigued from duty at fire, and the quickest time made at each practice entered on the Company Journal. The commanding officer will strike the gong, unloose the horses or cause it to be done, when every officer and man except the house-watchman will spring to the work of hitching, the driver in every case will mount the seat of engine, tender, and hook and ladder truck, and when the hitching is all complete, will call in loud voice, "Ready!" The commanding officer will promptly rebuke any want of celerity, carelessness, or attempt at deception.

10. Commanding officers and drivers will see that they have the bit best adapted to the mouth of each particular horse (as a disagreeable bit makes a horse restless); see that the harness and collars fit properly (ill-fitting harness is always a source of annoyance to the horse); be very particular to know that each and every horse is properly shod, the paring of hoof properly done and particular attention paid to size and shape of hoof and its peculiarities—the shoe must fit the foot; promptly report any horseshoer who does the work carelessly or improperly, through the proper channels, to the Board.

11. Horses may be clipped in the autumn, but always under the direction and by and with the advice and consent of the Superintendent of Horses; said consent and date of clipping must be written in the Company Journal by the Superintendent of Horses. Drivers will be responsible for the care of their horses in the most minute particulars, and commanders of companies will see that drivers and others do their full duty to the horses under any and all circumstances.

12. When a horse becomes sick or lame, or injured in any way, the commanding officer will immediately report by telephone, dial, or the quickest possible way to his Chief of Battalion and the Superintendent of Horses and take such prompt action to relieve the horse as may be at his command, and immediately procure another to do duty with.

13. When the purchase of a horse becomes necessary, the Superintendent of Horses having complied with all rules and forms, will select what he believes to be a proper animal for the duty to be performed, have him sent to Headquarters for examination by the Commissioners, and, if satisfactory, sent to the company on trial for one month, during which time the commanding officer shall cause the horse to be tried every way necessary—test his speed, power of endurance, and eyesight—see that he is free from hoof cracks or blemishes of any kind, that he does not interfere, does not balk, that he is not a kicker, and that he has no vicious habits; that he is always able, ready, and willing to do his work, and sufficiently intelligent to learn it, and teach him to come to pole or shafts properly and promptly. He should be driven to the apparatus on a walk at first, then at a slow trot, then faster, then at the top of his speed; two days should be occupied in each process of driving. Unless when answering an alarm for fire a horse should not be put to his utmost speed except as above directed. As soon as it becomes apparent that the horse will not answer the needs of the company (not waiting for the month to expire), the commanding officer will at once report, through the proper channels, to the Board, and ask for another. But if near the end of month the horse is found to be sound and kind and a proper animal for use in the Department, the commanding officer will notify the Board, through the proper channels, stating fully and in detail his good qualities and faults.

(General Orders No. 22.)

#### ORGANIZATION OF THE "CORPS OF SAPPERS AND MINERS."

The Assistant Chief of Department is Chief Officer of the Corps, and will perform the duties of that position under the orders of the Board of Commissioners and the Chief of Department.

The Corps will consist of four companies of sixteen (16) members each, represented by all the Assistant Foremen of the Department, as follows:

Company A.—The Assistant Foremen of Engine Companies 4, 6, 7, 9, 10, 12, 15, 27, 29, 31, 32, 43, and Hook and Ladder Companies 1, 6, 8, 10.

Company B.—The Assistant Foremen of Engine Companies 5, 11, 13, 14, 17, 18, 20, 24, 25, 28, 30, 33, and Hook and Ladder Companies 3, 5, 9, 11.

Company C.—The Assistant Foremen of Engine Companies 1, 2, 3, 8, 16, 19, 21, 23, 26, 34, 39, 44, and Hook and Ladder Companies 2, 4, 7, 12.

Company D.—The Assistant Foremen of Engine Companies 22, 35, 36, 37, 38, 40, 41, 42, 45, 46, and Hook and Ladder Companies 13, 14, 16, 17, 18, 19.

In case the Corps is required for instruction the companies will report in classes, as follows:

Companies A and C will form the first class.

Companies B and D will form the second class.

(General Orders No. 18.)

#### IN RELATION TO PLACES OF AMUSEMENT.

I.—The Chiefs of Battalion shall detail men for duty at theatres and places of public amusement where scenery and stage machinery are used in their battalion districts, as they may be directed by the Assistant Chief of Department. Such details shall be their best, most reliable, cool, discreet, and experienced men, who have served two years or more in the uniformed force of this Department.

They shall be on the stage a half hour before the performance commences, and remain after its close a sufficient time to make proper examination and assure themselves that all is secure from fire; shall continue on or about stage while on duty, always on the alert to prevent or extinguish fire, being careful not to cause panic or alarm by any hasty or ill-advised action, but in case of panic or alarm from any cause, be bold, firm, and give assurance by their presence that there is no immediate danger or cause for alarm (if that be the case); shall before and after the play examine stage, wings, traps, openings on stage, flies, shields over border lights, and all dangerous places and appurtenances, see that they are swept and kept clean, especially when explosions, fire-arms, colored fire or other dangerous substances may be used; shall direct that pails of water be at hand in which to throw the residue of colored fire, etc., also to cool shovel blade or such other article as they may be fired from; examine gas pipe and gas fixtures for leaks; have the gas man stop all leaks in pipe immediately, and be in readiness to turn off gas on wings, border or stage lights, which may be extinguished by explosion, etc.; shall cause all laws, rules, and directions to be complied with and properly carried out regardless of incurring displeasure of those so directed; examine the programme or bill of the play and see if it is in compliance with law and directions of the Board; test fire-alarm box on stage, and in case of fire or panic (if necessary) send alarm from nearest box immediately; shall not receive nor ask favors for self or others; remember that they are not there to witness the play nor talk with those on stage, and that prompt, instantaneous action is necessary to success.

II.—It shall be the duty of the Assistant Chief of Department to detail as many Assistant Foremen, as inspecting officers, to places of amusement, as may be necessary, and no such detail shall be made from any other grade. They shall make inspections during the performance, at irregular times

as directed, at least twice in each week; learn if detailed men are at their post and do their duty fully and in a proper manner, and report to the Board, through regular channels by proper and well sustained charge, all delinquents. They may recommend additions to appliances and correction of anything they see improper.

Inspecting officers and men detailed to places of amusement shall make written report immediately on their return to quarters, stating time of leaving quarters, name and location of place to which detailed, time on duty, where stationed, time of return to quarters, violation of any law, direction, or regulation; any obstructions to aisles or exits, whether by camp-stools or by persons standing therein; all fires, how caused, how and by whom extinguished; panic or alarm from any cause; leaks in gas pipe or fixtures; the condition of fire-alarm box on stage, and of all appliances for preventing or extinguishing fire, or extraordinary circumstances of any nature; together with a copy of each new issue of programme or bill of the play. Such report shall be forwarded on the following morning, through the regular channels, to the Assistant Chief of Department, who will forward to the Board all information he may think necessary for their information or action.

III.—Commanding officers of companies will immediately report to Assistant Chief of Department, through their respective Chiefs of Battalion, all new places of amusement in their company districts, stating name of house, its location, when opened, by whom, name of owner, lessee, and manager.

IV.—The following laws in relation to theatres will be observed and enforced:

CHAPTER 742, LAWS OF 1871.  
*Combustibles, Fires, Lights, etc.*

§ 5. No person shall kindle any fire nor furnish the materials nor in any way authorize or allow any fire to be made in any street, road, alley, lane, or upon any pier, wharf, or bulkhead in said city, except under such regulations as shall be established by said commissioners, under a penalty of ten dollars for each and every such offense.

All lights used in theatres and all other places of public amusement, manufactories, stables, or in show-windows, shall be properly protected by globes, glass coverings, or in such other manner as said commissioners shall prescribe, under the penalty of ten dollars for each omission to do so.

The proprietors of all manufactories, hotels, tenement-houses, boarding and lodging-houses, warehouses, stores and offices, theatres and music halls, and the authorities having charge of the public schools and other public buildings, churches, and other places where large numbers of persons are congregated for purposes of worship, instruction, or amusement, shall provide such means for communicating alarms and extinguishing fires, and communicating necessary information to the police, as said commissioners and the police commissioners shall prescribe. And said commissioners may detail, not to exceed two members of the fire department, at each and every place of amusement where machinery and scenery are used, while such place is open to the public, whose duty it shall be to guard against fire, and have charge and control of the means provided for its extinguishment, and shall have the control and direction of the employees of the place to which they may be detailed for the purpose of extinguishing any fire which may occur therein.

CHAPTER 279, LAWS OF 1881.

*An Act relating to Exits from Theatres in the City of New York.*

SECTION 1. The owner, lessee, manager, or other person or persons having charge or control of any theatre in the city of New York shall cause each and every door and means of exit to be used in case of fire or panic to be conspicuously numbered so as to be visible to the audience by whom the same may be used, and shall have or cause to be printed in conspicuous type a plan or diagram and explanation, showing each of said exits thereon and referring to the numbers aforesaid, and the same shall be printed in conspicuous type as aforesaid on the programme or bill of the play.

§ 2. Any and all persons who shall violate any of the provisions of the foregoing section, or fail to comply therewith, or any requirements thereof, shall severally, for each and every violation and non-compliance, respectively forfeit and pay a penalty in the sum of fifty dollars, to be sued for and recovered in the same manner as violations of the building laws in the city of New York are now sued for and recovered by the fire department in the city of New York.

§ 3. This act shall take effect immediately.

V.—Inspecting officers and men detailed to places of amusement will read this order before each tour of duty, until they make themselves thoroughly familiar with all its provisions.

VI.—All orders heretofore issued appointing inspecting officers and detailing men to places of amusement are countermanded.

(General Orders No. 24.)

DRILL EXERCISES AND FORMS OF CEREMONY.

I.—Titles of organization, officers and men.

1. An engine or hook and ladder company is composed of the following officers and men:

- One Captain.
- One Lieutenant.
- One Sergeant.
- One Corporal, and generally
- Eight privates.

2. A battalion is composed of four or six companies (generally of four engine and two hook and ladder companies), commanded by a Chief of Battalion.

3. A brigade is composed of two or more battalions, commanded either by the Chief of Department or the Assistant Chief of Department.

4. In the absence of either of the officers herein designated, an officer of the grade next below shall be detailed to perform his duties.

DRILL EXERCISES.

II.—Position and carriage of the body at attention.

1. Heels on the same line and as near each other as the formation of the man permits.
2. Toes turned out equally, forming an angle of about sixty degrees.
3. Legs straight without constraint or stiffness.
4. Body erect on hips, the part above the waist inclining slightly forward.
5. Arms hanging straight and naturally.
6. Elbows near the body.
7. Palms of hands turned slightly to the front, the little fingers just behind the seam of the trousers.
8. Head erect and square to the front.
9. Eyes looking straight to the front at a point on the ground about fifteen yards distant, or nearly horizontally.
10. This position must be maintained at all times when under instruction or during drills and parades, except as otherwise hereinafter directed.

III.—Manner of giving and executing commands.

1. Whenever the command consists of more than one part, as, for instance, 1. Right, 2. Face, the last is the command of execution, and all the preceding parts are preparatory commands.

2. The preparatory commands are printed in *italics*, and the commands of execution in **SMALL CAPITALS**.

3. The tone of command must be distinct, and its loudness graduated to the size of the organization and to the circumstances.

4. The preparatory commands indicate what the movement is to be, and they must be pronounced deliberately and distinctly.

5. The commands of execution indicate the precise time when the movement is to be executed, and they must be pronounced in a firm but brief and decisive manner.

IV.—Formation and alignment.

1. At the command **FORM COMPANY!** it will form in one rank, the Lieutenant on the right, the tallest member on his left, and so on to the shortest, the Sergeant on the extreme left.

2. The Lieutenant and the man next to him being first established on the proposed line, at the command 1. *Right*, 2. **DRESS!** the men will move up successively on the line, and look to the right, without unnecessary derangement of the position of the head, so as to enable them to see the coat buttons of the second man from them, touching elbows with the man next to them on the right, the arms hanging naturally as prescribed in Paragraph II. of this order.

3. At the command **FRONT!** given when the alignment is complete, the position of the head as prescribed in Paragraph II. of this order will be resumed.

4. If necessary, the company may be aligned to the left by the command 1. *Left*, 2. **DRESS!** by the same means, substituting the Sergeant for the Lieutenant and left for right throughout.

5. It may also be aligned to the rear, by the command 1. *Right (or left) backward*, 2. **DRESS!** in the same manner, the men stepping back a little beyond the proposed line, and then dressing slowly up to it.

6. At the command **COUNT OFF!** the member next to the Lieutenant will, in an audible voice, count "one," the next one will count "two," the third will count "three," and so on to and including the one next to the Sergeant. (See Fig. 1 in the next paragraph.) When a company is formed for parade, with its apparatus, the driver and tillerman will be designated by the Captain and ordered to mount before counting off.

V.—Changing front.

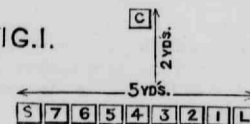
1. At the command 1. *Right*, 2. **FACE!** slightly raise the right foot, turn to the right on the left heel, slightly elevating the toe of the left foot, and quickly replace the right foot, the heels touching and on the same line.

2. Facing to the left is executed by turning to the left upon the same heel as in facing to the right.

3. At the first command of 1. *About*, 2. **FACE!** turn on the left heel so as to bring the toes directly to the front, carry the right foot to the rear and place it square with the left foot, the hollow opposite and three inches behind the left heel. At the second command turn on both heels, the toes a little raised, and when the turn is nearly completed raise the right foot and replace it heel to heel with the left.

4. At the command 1. *Double Files*, 2. *Right*, 3. **FACE!** the Lieutenant and Sergeant and all the odd-numbered men will face to the right as prescribed in Section I of this paragraph, the Lieutenant advancing sixteen inches, the even-numbered men will face to the right in the same manner, and briskly step with the right foot obliquely to the right and front so as to take position on the right of the odd-numbered men, promptly bringing the left foot to its proper position. In case the left file is an odd-numbered one, the Sergeant will take the place of the even-numbered file. The following diagram illustrates the formation of the company in line as per Paragraph IV. of this order and the formation in double files faced to the right, as prescribed in this section:

FIG. 1.



Explanation—Captain.....C  
Lieutenant.....L  
Sergeant.....S  
Private.....1

5. The face to the left, two abreast, is accomplished in the same manner, substituting *left* for *right* in the second command, the even-numbered men merely facing to the left and the odd-numbered men moving up on the left of the even-numbered men.

6. When faced to the right in double files at the command 1. *Front*, 2. **FACE!** all face to the left, and the even-numbered men resume their position on the left of the odd-numbered men as above prescribed. At the same command, when faced to the left, all face to the right, and the odd-numbered men resume their position on the right of the even-numbered men.

VI.—The step.

1. The standard length of the step is twenty-eight inches from heel to heel in both slow and quick time, and thirty-three inches in double time or trot.

2. The time or cadence (number of steps per minute) is ninety for slow time, one hundred and ten for quick time, and one hundred and sixty-five for double time.

3. At the first command of 1. *Forward*, 2. **MARCH!** put the weight of the body on the right leg without deranging the position, so as to enable prompt execution of the second command, at which advance the left leg, the knee a little bent and turned slightly outward, the sole of the foot near the ground, the toes a little lower than the heel, the weight of the body thrown forward, and put down the foot without shock, the weight of the body bearing upon it; then advance the right leg in like manner and continue the march.

4. At the command **HALT!** given the instant when either foot is brought to the ground, place the foot in rear in its position alongside of the other without shock, and remain motionless.

5. Slow time is to be used in the preparatory exercises; at all other times, unless otherwise specially directed, all exercises and manoeuvres will be executed in quick time.

6. At the first command of 1. *Trot*, 2. **MARCH!** to be given when the company is in motion in quick time and as the right foot is coming to the ground, put the weight of the body on the right leg without derangement of position; raise the hands so that the forearms will be horizontal, elbows to the rear, and clinch the hands with the finger nails inward; at the second command quickly advance the left leg, raising the knee as much as practicable, the leg below the knee remaining vertical, the toes depressed, and put down the foot, toes first, throwing the weight of the body upon it; then advance the right leg in like manner and continue the march, allowing a natural swinging motion of the arms.

7. At the first command of 1. *Walk*, 2. **MARCH!** prepare to resume the march in quick time, and at the instant the second command is given put down the foot then raised and with the other foot resume the step in quick time, dropping the hands by the side.

8. At the command **HALT!** given when the company is moving on the trot (or double time), put down the foot then raised, completing the step; put the other foot alongside the first, drop the hands by the side and remain motionless.

9. At the command 1. *Mark time*, 2. **MARCH!** to be given as one foot is coming to the ground, advance the other foot about half its length and replace it alongside of the first, alternating thus with both feet, without gaining or losing ground and preserving the cadence or time, until the command 1. *Forward*, 2. **MARCH!** (or **HALT!**) is given, which will be executed as before prescribed.

VII.—Marching.

1. Marching in line the guide will habitually be on the right. The guide may, however, also be on the left; and it will always be indicated by the Captain by the command **GUIDE RIGHT** (or **LEFT**)!

2. A constant touch of elbow toward the guide will be maintained, the alignment will be preserved, and any pressure from the flank opposite the guide will be resisted.

3. Marching by the flank facing distance will be preserved between the files; that is, the distance required to resume the position in line, and care must be taken not to increase it.

4. The habitual position of the Captain is two yards in front of the centre of the company when in line, and abreast of and near the outside of the Lieutenant or Sergeant, as the case may be, when in column of files; but for purposes of instruction he may take any other necessary position.

VIII.—Wheeling.

1. The company being in line and in motion, at the command 1. *Right wheel*, 2. **MARCH!** the Sergeant on the outer or marching flank will continue to take the full standard step, the Lieutenant on the inner or pivot flank will shorten his step to eleven inches, and the men will shorten their step according to their position in line; all will gradually turn to the right, preserve a touch of elbow toward the pivot and resist all pressure from and look toward the outer flank, except the Sergeant, who will look toward the pivot.

2. At the command 1. *Forward*, 2. **MARCH!** to be given when the company fronts in the direction required, all will promptly resume the full step directly to the front, the Captain indicating the guide.

3. The company being in line at a halt, the command 1. *Right wheel*, 2. **MARCH!** is executed in the same manner, except that the Lieutenant marks the time with both feet without changing his position either forward or backward, but simply turns gradually with the line.

4. The wheel to the left is executed in the same manner as the wheel to the right, by the substitution of *Left* for *Right* in the command and instruction, and Lieutenant for Sergeant.

5. The company may be brought to a halt at the conclusion of the wheel, by the command **HALT!**

IX.—Change of direction in column.

1. The company being in column of files (single rank faced to the right or left), and in motion, at the commands 1. *Column right (or left)*, 2. **MARCH!** or, 1. *Column half right (or half left)*, 2. **MARCH!** the leading file turns in the direction indicated, each succeeding file turning in the same direction at the same point.

2. The company being in column of double files, the same commands are used in changing direction as in the preceding section, and it is executed in the same manner, except that each file turns on a movable pivot, the inner or pivot man taking shorter steps, regulated so as to keep abreast of the man on the outer flank.

3. The direction of the march of the column is reversed at the command 1. *Right about*, 2. **MARCH!** (to be given when the right foot is about to be placed on the ground) by advancing the left foot, turning to the right about on the balls of both feet, and stepping off in the new direction with the left foot.

X.—Change of direction by the flank.

1. The company being in line and in motion, at the command 1. *Right (or left) flank*, 2. **MARCH!** all turn simultaneously in the direction indicated; and to resume the march in line, the same commands are used, according to the direction desired, and they are executed in the same manner.

2. At the command 1. *Double files*, 2. *Right or left flank*, 3. **MARCH!** the company being in line, is formed in double files, the command being executed as is prescribed in Sections 4 and 5 of Paragraph V. of this order, except that the march is continued.

3. When marching in column of files direction may be changed by the flank into line, and the company be instantly halted by the command 1. *Right (or left) flank*, 2. *HALT!* or, if the company be in line it may be brought into column of files and instantly halted by the same command, or into column of double files by the command 1. *Double files*, 2. *Right (or left) flank*, 3. *HALT!*

4. The company being in column of files and in motion, may be brought into line by the commands 1. *Right (or left) into line*, 2. *MARCH!* at which all except the guide make a half face to the right or left, as indicated by the command, and move rapidly forward into line in an oblique direction, taking the step from the guide, who continues to march straight forward without changing direction or step.

XI.—Change of direction obliquely.

1. Marching in line at the command 1. *Right (or left) oblique*, 2. *MARCH!* each file makes a half turn in the direction indicated, and marches straight in the new direction, looking along the shoulders of the nearest files toward the guide who is always upon the flank to which the company is obliquing, so regulating the step that his shoulders are always behind those of the next man, and that his head conceals the heads of the other men on that side. The same length of step and a uniform degree of obliquity must be maintained, in order that the line may remain parallel to its original direction, which is resumed by the command 1. *Forward*, 2. *MARCH!*

2. Marching in column of files the company obliquing by the same commands and means as when in line, the leading file being the guide.

XII.—The salute and recover.

1. The salute will be executed with either hand, in two motions, as follows: At the command 1. *Right (or left)*, 2. *SALUTE!* the first motion is to raise and extend the arm indicated by the preparatory command horizontally and pointing in the same direction as the foot on the same side, the fingers and thumb extended and closed together, the palm of the hands down; the second motion is to bring the hand up perpendicularly to and at right angles with the cap visor or hat brim, by bending the arm at the elbow and wrist, the thumb and forefinger touching the lower edge of the visor or brim, at the same time turning the head a little to the side opposite to the hand.

2. At the command *RECOVER!* the first motion is to bring the head, hand, and arm back to the position of the first motion of the salute; the second motion is to drop the arm quickly by the side.

3. Officers and members (whether in or out of uniform), when meeting their superiors will invariably salute them, using the hand farthest from them, and they will recover when their salute has been acknowledged; superiors will acknowledge salutes by saluting in return, executing the salute and recover together without pause.

4. Indoors an officer or member without particular occupation at the time, on the approach of a superior, rises if seated and faces toward him and salutes. When not wearing the hat or cap, no salute can be given, but the officer or member must face the superior and stand at attention. The compliment need not be repeated while the superior remains in quarters; and if at work it will not be necessary to cease it unless addressed by the superior.

5. On occasions of ceremony the salute will always be given with the right hand.

6. Officers will salute, on occasions of ceremony, with the trumpet, which will habitually be carried in the bend of the left arm, the left hand grasping it about five inches from the mouth-piece, bell upwards; at the command *SALUTE!* seize the trumpet as near the mouth-piece as practicable, bringing it to a perpendicular position in front of the right eye, the hand (back outwards) level with and three inches from the chin, and drop the left hand quickly by the side.

7. At the command *RECOVER!* replace the trumpet into the bend of the left arm, the left hand grasping it about five inches from the mouth-piece, and drop the right hand quickly by the side.

XIII.—To rest.

1. At the command 1. *Parade*, 2. *REST!* place the right foot, pointing in the same direction, six inches in rear of the left heel, bend the left knee naturally, cross the hands (palms inward) in front, the left hand upon the right, the arms hanging naturally, and stand at attention, maintaining perfect silence and steadiness.

2. At the command 1. *In place*, 2. *REST!* take the same position as at parade rest, without maintaining silence and steadiness.

3. At the command *REST!* any position may be taken and neither silence, steadiness, or alignment need be maintained.

4. At the command *ATTENTION!* the position prescribed in Paragraph II. must be promptly resumed, the hands, if at either parade rest or in place rest, being quickly dropped by the side and the right foot simultaneously brought to its proper position.

XIV.—Officers and men must be instructed separately in the position and carriage of the body, changes of front, the step, the salute and recover and the rests, until thoroughly familiar with them, and in addition to the exercises hereinbefore prescribed, the companies must also be drilled in quarters in the positions with apparatus as hereinafter provided for double time, and in mounting and dismounting from the apparatus as hereinafter prescribed for the gallop.

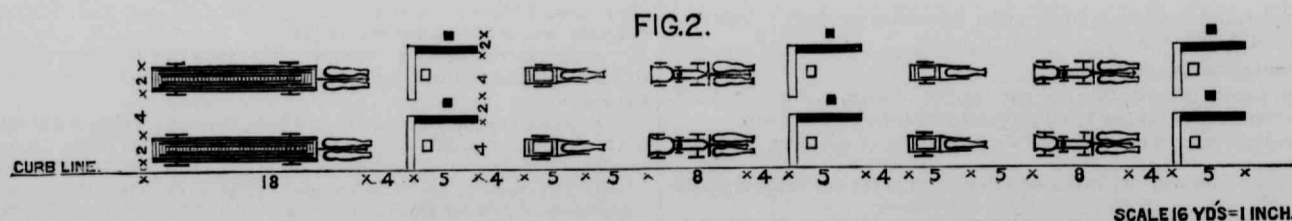
#### FORMS OF CEREMONY.

XV.—General rules for reviews of a brigade or battalion with apparatus.

##### Upon Streets, Avenues, or Plazas.

1. The brigade or battalion will be formed in two lines, the engine companies always on the right and as enumerated in the order for the parade, the apparatus of each company in column, the head of column toward the right of the line; the hubs of the apparatus of the second line one yard from and parallel to the curb or other line of demarcation; the apparatus of the two lines four yards apart from hub to hub; the distance from the ash pan of engine to the head of the tender horse five yards, from the rear step of the tender to the heads of the horses of the engine or truck of the next company thirteen yards, and from the rear of the apparatus of one battalion to the heads of the horses of the next battalion twenty yards.

2. The companies will be formed in line, parallel to the column of apparatus, one yard in front of the left side of the apparatus, the left flank four yards to the right of the engine horses, and they will be aligned under the direction of the battalion commander, by establishing the sergeant and number 1, of the right company of each line, as markers, four yards apart and facing each other, upon the proposed line; when the markers of the right companies are in place, those of the left companies will be successively established upon the same line facing to the right; and each company will be dressed up against its markers as soon as they are established. If there be more than one battalion, the brigade commander will indicate to the chief of the first battalion the direction of the line, and the chiefs of the remaining battalions will see that their lines conform to those of the first battalion. The annexed diagram illustrates the formation of a battalion of six companies and the movement of the companies into column as prescribed in this and the preceding section of this paragraph:



3. Chiefs of battalion will also see that the apparatus is properly placed and aligned.

4. The position of the battalion commander is four yards to the right of the right flank of the right company of the first line, and one yard in advance of the line of captains; and that of the brigade commander is four yards to the right of the chief of the first battalion, and one yard in advance of the line of battalion commanders.

5. When the alignment is completed the brigade or battalion commander takes his proper position, faces to the left and commands 1. *Markers*, 2. *POST!* at which the markers resume their positions in line, and if the reviewing personage has not then arrived, he may command 1. *Parade* (or 1. *In place*), 2. *REST!*

6. Seeing the reviewing personage approach, the brigade or battalion commander will face to the left and command 1. *Brigade* (or 1. *Battalion*), 2. *ATTENTION!* and when the reviewing personage has arrived at a point in front of and twenty yards distant from the right of the first line, he will command 1. *Prepare for review*, 2. *SALUTE!* himself face the reviewing personage and salute. The reviewing personage having advanced a few yards towards the brigade or battalion commander and acknowledged the salute by raising his hat or cap, the latter will recover his trumpet, face to the left and command *RECOVER!* and when the command is executed resume his position.

7. The reviewing personage then advances towards the brigade or battalion commander (who joins and accompanies him, marching on his right), and passes along the front of the first line to and around the left flank of both lines and along the rear of the second line to and around the right flank, where the brigade or battalion commander, having indicated to the reviewing personage the point of review, salutes him and resumes his position.

8. If the reviewing personage is accompanied by official or distinguished persons, they march two abreast in rear in passing around the lines, and form in one rank in rear at the point of review.

9. The point of review will be established in front of the centre of the lines if practicable (and in that case the positions of the brigade and battalion commanders are in front of the centre of their respective commands as hereinafter prescribed for the review in line), but otherwise it will be fixed at a point on the right side of the proposed route of march, and be indicated by a flag.

10. To pass in review the brigade or battalion commander will command 1. *Double column of companies to pass in review*, 2. *MARCH!* which will be executed as follows: At the first command captains will command 1. *Left*, 2. *FACE!* and add, 1. *Forward*, 2. *Column left*, 3. *MARCH!* and when the centre files of their companies arrive at a point opposite the centre of the apparatus they will command 1. *Left flank*, 2. *HALT!* they will then command 1. *Forward*, and promptly repeat the second command 2. *MARCH!* when given by the brigade or battalion commander.

11. To gain the centre or crown of the street or avenue the brigade or battalion commander will command 1. *Left oblique*, 2. *Guide left*, 3. *MARCH!* which will be executed as prescribed in Paragraph XI. of this order; the right companies conforming to the movements of the left and preserving the proper interval between them (which, if the companies have the full complement of officers and men, will be one yard between flanks), the drivers and tillermen conforming to the movements of their companies. When sufficient ground has been gained to the left the direct march will be resumed by the command 1. *Forward*, 2. *Guide right*, 3. *MARCH!* given by the brigade or battalion commander.

12. Before the column reaches the point of review the brigade or battalion commander places himself at its head, six yards in front of the commander of the leading organization.

13. All officers will salute the reviewing personage at four yards distance from him and recover when four yards beyond him, turning the head toward and looking at the reviewing personage during the salute.

14. Brigade and battalion commanders after saluting, immediately turn out of the column and take position successively near to and on the right of the reviewing personage, remaining until the rear of the column has passed. The ceremony is then concluded by a salute of the reviewing personage by the brigade and battalion commanders unless it be desired to have the column pass also at a trot and gallop, or at a trot alone, in which case the captain of the leading company of the column on the right flank will conduct his company through the adjacent streets and avenues to the place of original formation, the other companies conforming to its movements, where the column will be rejoined by the brigade and battalion commanders.

15. When the column has arrived at or near its original position the brigade or battalion commander will command 1. *Trot*, 2. *MARCH!* At the first command the captains will command 1. *To your posts*, 2. *Trot*, 3. *MARCH!* which will be executed as follows:

##### In Engine Companies.

At the first command the lieutenants and numbers 1, 2, 3, 4, 5, and 6 face to the right, and number 7 and the sergeants face to the left; at the second command the directions given in Section 6 of Paragraph VI. of this order will be observed, and at the third command, all will take position as follows:

The lieutenants three yards in advance and directly in front of the tender, face to the front.

No. 1, opposite the rear step of the tender, on the off side.

" 2, " front " " " "

" 3, " head of the tender horse " " "

" 4, " hub of the hind wheel of the engine on the off side.

" 5, " hub of the forward wheel of the engine on the off side.

" 6, " heads of the horses of the engine on the off side.

" 7, " hub of the forward wheel of the engine on the nigh side.

The sergeants opposite the hub of the hind wheel of the engine on the nigh side. All to be one yard from the apparatus, and to face to the front, each man covering the man in front. The captains, seeing the command executed, also face to the front.

In companies having six men in line, the position of No. 7 will be left vacant; and in companies having five, Nos. 6 and 7 will be dispensed with, and the position of the numbers will be changed as follows:

No. 5 to the position of No. 6.

" 4 " " vacated by No. 5.

" 3 " " " " 4.

" 2 " " " " 3.

The position of the lieutenants, sergeants, and No. 1 remaining the same.

For diagram showing position of officers and men on the trot see Fig. 3 in Section 16 of this paragraph.

##### In Hook and Ladder Companies.

At the first command the lieutenants and numbers 1, 2, 3, and 4 face to the right, and the sergeants and numbers 5, 6, and 7 face to the left; at the second command the directions given in Section 6 of Paragraph VI. of this order will be observed, and at the third command all will take position as follows:

The lieutenants behind the captains, and three yards in front of the horses' heads.

No. 1, opposite the rear step of the truck on the off side.

" 2, " centre of the truck on the off side.

" 3, " hub of the forward wheel on the off side.

" 4, " head of the off horse.

" 5, " head of the nigh horse.

" 6, " hub of the forward wheel on the nigh side.

" 7, " centre of the truck on the nigh side.

Sergeants " rear step of the truck on the nigh side.

All to be one yard from the apparatus, and to face to the front, each man covering the man in front; the captains seeing the command executed, also face to the front.

In companies having six men in line, the position of No. 7 will be left vacant, and in companies having only five, the position of the numbers will be changed as follows:

No. 2, opposite the front step of the truck on the off side.

" 3, " head of the off horse.

" 4, " head of the nigh horse.

" 5, " front step of the truck on the nigh side.

The position of the lieutenants, sergeants, and No. 1 remaining the same. At the second command 2. *MARCH!* the column moves off on a trot.

For diagram showing position of officers and men on the trot see Fig. 4 in Section 16 of this paragraph.

FIG. 2.

16. After the passage on a trot, if the column is also to pass on a gallop, the command 1. *Gallop*, 2. *MARCH!* is given by the brigade or battalion commander upon the arrival of the column. At or near the place of original formation, to which it will be conducted by the shortest practicable route, if necessary on a walk, in all cases, however, resuming the trot before the gallop. At the first command the captains will command *MOUNT!* which will be executed as follows:

##### In Engine Companies.

All will mount to their positions on the apparatus as follows:

No. 1, on the front seat of the tender, next to and on the left of the driver.

" 2, " " " over the nigh wheel of the tender.

" 3, " " " off " " " "

" 4, " rear " " " " " " "

" 5, " " " " nigh " " " "

" 6, " " " step of the tender on the nigh side.

The lieutenants on the rear step of the tender on the off side.

The sergeants on the nigh side of the ash pan of the engine.

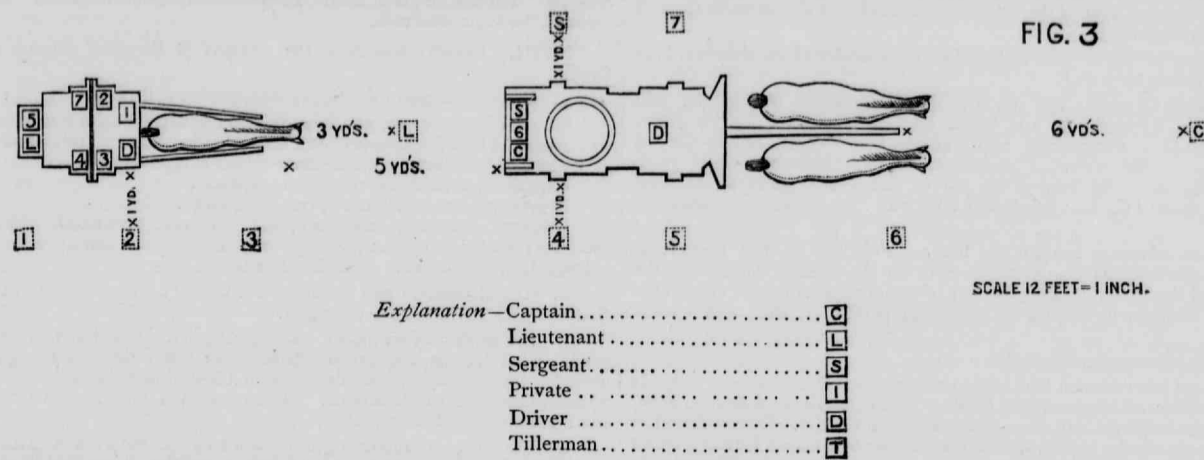
No. 6, in the centre of the ash pan of the engine.

All will mount the tender by the rear step, Nos. 1, 2, and 7 on the left side, and Nos. 3 and 4 on the right side, and all officers and men will sit or stand erect, the head and body square to the front or rear, the hands grasping the railing of the seats or the stanchions.

The lieutenants will take their position as soon as all the men assigned to the tender are mounted, and the captains will mount to their position on the off side of the ash pan of the engine as soon as they see that all are mounted.

In smaller companies (five or six men in line), the officers and men will take the same positions, leaving the places of the vacant numbers unoccupied.

The following diagram illustrates the position of the officers and men on the trot (in dotted lines), as prescribed in Section 15 of this paragraph, and also mounted for the gallop, as prescribed in this paragraph :



#### In Hook and Ladder Companies.

All will mount to their positions on the truck as follows :

- No. 1, on the right over the hind axle.
- " 2, on the right over the rear step.
- " 3, on the right just in rear of the front step.
- " 4, on the right over the forward axle.
- " 5, on the left over the forward axle.
- " 6, on the left just in rear of the front step.
- " 7, on the left over the rear step.

The sergeants on the left over the hind axle.  
The lieutenants on the left over the front step.

All will mount by the steps nearest to their positions on the truck, and will sit on the ladders, the head directly to the front, the body erect and turned to the front as much as practicable, the legs on the outside of the ladders, and the hands grasping the rungs of the ladders.

The captains will mount to their position on the right over the forward step, as soon as they see that all are mounted.

In companies with six men in line, they take the same positions mounted, leaving No. 7's place vacant ; in companies of five, the positions of all remain the same, except that No. 3 takes the position of No. 4, over the forward axle on the right, and No. 4 that of No. 5, over the forward axle on the left, and No. 5 that of No. 7, over the rear step on the left, the former positions of Nos. 3 and 6 remaining vacant.

At the second command 2. MARCH! given by the brigade or battalion commander when all are mounted, which will be promptly repeated by all subordinate commanders, the horses will be instantly started on a gallop.

The annexed diagram illustrates the position of the officers and men on the trot (in dotted lines), as prescribed in Section 15 of this paragraph, and also mounted for the gallop, as prescribed in this paragraph :

commander at the instant the companies are all in line, when all will resume the march in quick time, the drivers quickly reining in their horses to a walk.

19. In passing at a gallop the brigade and battalion commanders will mount on one of the apparatus of the leading company on the right in their respective brigades or battalions.

20. In passing in review on a trot or a gallop none of the officers salute, nor do either the brigade or battalion commanders turn out of the column at the point of review.

21. The changes of direction in the march of the column on a trot or a gallop are made by the command 1. Column right (or left), 2. MARCH!

22. In moving on a trot, care will be taken not to exceed the prescribed length and cadence of the double time or trot step, and while it may be lengthened or shortened if necessary, the walk or quick time must not be resumed without orders ; and if distance is lost it must be gradually regained, to avoid alternate crowding up and opening out of distances.

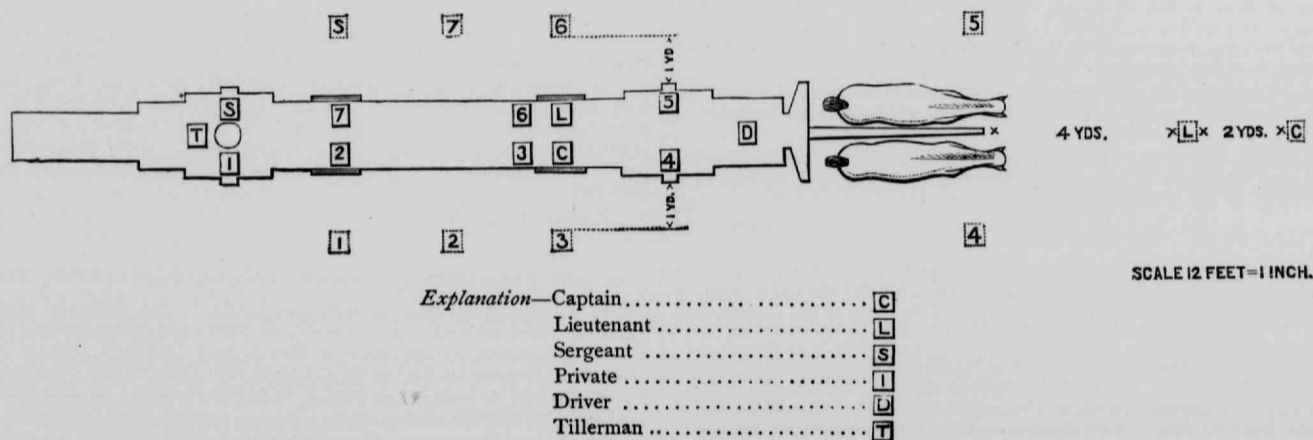
23. In mounting and dismounting from the apparatus extreme caution must be used to avoid accidents.

24. Officers who may fail to hear the commands of their superiors, will conform their movements to those of the battalion or company next to them.

25. During the ceremonies of review, more particularly than at other times, officers and men must maintain the prescribed position of body motionless, and with heads and eyes straight to the front. Drivers and tillermen must sit erect in their seats, square to the front, with both hands grasping the reins or tiller wheel, and with the legs extended and the feet braced against the foot board, the drivers with the foot upon the brake.

26. When marching, drivers will carefully regulate the gait of their horses, conforming to the march of their companions in quick and double or trot time, and to the movement of the preceding apparatus (if there be one) when on the gallop, and in all cases preserving the proper distances. In quick time the pole of the engines and trucks must be kept directly in rear of the centre of the company and the tender directly in rear of the engine.

FIG. 4



17. When the brigade or battalion commander commands 1. Trot, 2. MARCH! the captains will quickly dismount at the first command, and immediately command 1. Prepare to dismount, and repeat the second command 2. MARCH! at which the drivers will at once rein in their horses to a trot, and all officers and men will immediately dismount and hasten to the positions prescribed for them on the trot, in the manner following :

#### In Engine Companies.

The sergeants and Nos. 2, 3, 5, and 6 dismount together.

The sergeants and No. 6 will step off the ash pan of the engine diagonally facing the front and side toward their positions, and Nos. 2 and 3 will spring forward and outward from the front wheel seats of the tender, and the lieutenants and No. 5 will step off the rear step of the tender, diagonally facing the front and right.

Nos. 1, 4, and 7 then dismount together.

No. 1 will spring from the front seat of the tender forward and outward (to the left) and Nos. 4 and 7 will step off the rear step of the tender diagonally, facing the front and right and left, respectively and simultaneously.

#### In Hook and Ladder Companies.

With seven men in line, the lieutenants and Nos. 2 and 7 will dismount simultaneously by the steps facing to the front a little outward, with the outer foot striking the ground first ; the sergeants and Nos. 1, 3, and 6 will then dismount simultaneously, the first two by the rear steps, the others by the front steps in the same manner ; and following them Nos. 4 and 5 simultaneously by the front steps in the same manner.

With five men in line, the lieutenants and Nos. 2 and 5 dismount simultaneously, and the sergeants and Nos. 1, 3, and 4 also simultaneously ; all in the manner prescribed above.

18. When the brigade or battalion commander commands 1. Walk, 2. MARCH! the captains will at the first command turn out to the right, partly face their companies, and command FORM COMPANY! at this command officers and men will quicken their pace directly to the front (the lieutenants of engine companies turning out to the right) and successively taking their positions in line will continue the trot, until the second command 2. MARCH! given by the brigade or battalion

27. Drivers will be careful to wait for the command of execution in changing from and to the walk, trot, and gallop, and will keep their horses firmly in hand to avoid gaining or losing distance.

28. In column the guide will habitually be on the right and the step will be taken from the leading company on the right.

29. Officers will carry their trumpets on all occasions of ceremony and in the manner prescribed in Sections 6 and 7 of Paragraph XII. of this order ; but on occasions of long street parades they may be carried either in the same relative position in the bend of the right arm, or they may be dropped between the arm on either side and the body, bell upward and to the front. The position prescribed in the sections and paragraph referred to must, however, always be resumed on arriving at a point fifty yards distant from the point of review.

30. If by reason of the length of the line or column, or other causes, the voice cannot be readily heard, commands of execution may be given with the trumpet.

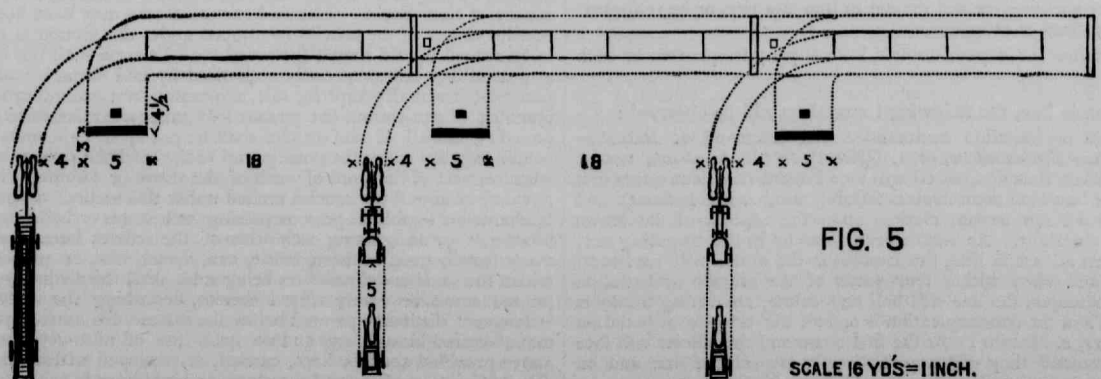
31. In all cases, unless other commands are prescribed for them, all subordinate commanders will promptly repeat the commands of superiors.

32. Brigade and battalion commanders will always see that the prescribed preliminary movements begun on the commands of the captains, are finished, before giving the final command of execution.

33. At the termination of the review, unless otherwise directed, captains will march their companies to quarters by the nearest practicable routes, and they may be either marched in line, the apparatus following, or they may be mounted on the apparatus as prescribed for the gallop, with or without increasing the gait, as may be necessary and proper.

#### Upon Parade Grounds.

34. The brigade or battalion will be formed in line as follows : Each company as prescribed in Paragraph IV. of this order, its engine or truck four yards to the left, and the heads of the horses three yards in rear of the company line, the tenders five yards in rear of the engines. The interval between companies will be twenty yards from the left of the apparatus of the right company to the right flank of the company next on the left. The interval between battalions in line will be thirty yards. The following diagram illustrates the formation of a battalion of three companies and their movement into column as prescribed in this section :



35. The line will be established in the manner prescribed in sections 2 and 3 of this paragraph.

36. The position of the battalion commander when the formation is completed is six yards in front of the centre of the line of captains, and that of the brigade commander is six yards in front of the centre of the line of battalion commanders.

37. The point of review, to be fixed by the brigade or battalion commander about sixty yards in front of his own position, will be indicated by a flag.

38. On the approach of the reviewing personage the brigade or battalion commander will command 1. *Brigade (or Battalion)*, 2. *ATTENTION!* and when he has taken his position at the point of review, the brigade or battalion commander will command 1. *Prepare for review*, 2. *SALUTE!* face to the front and salute; the reviewing personage having advanced a few yards towards the line and acknowledged the salute by raising his hat or cap, the brigade or battalion commander will recover his trumpet, face to the line, command *RECOVER!* and seeing the command executed, again face the front.

39. The reviewing personage then advances towards the line and is joined by the brigade or battalion commander, who accompanies him, marching on his right to the right of the line, thence along the line of officers to and around the left and along the rear of the apparatus to and around the right, where the brigade or battalion commander salutes the reviewing personage, and both resume their positions.

40. Section 8 of this paragraph is also applicable to this form.

41. When the reviewing personage has resumed his position at the point of review the brigade or battalion commander will face the line and command 1. *Column of companies to pass in review*, 2. *MARCH!* At the first command the captains will face about and command 1. *Forward*, and at the second command, promptly repeated by the captains, the companies will march forward about seven paces, and then wheel to the right as prescribed in Paragraph VIII. of this order. The brigade or battalion commanders will then command 1. *Forward*, 2. *MARCH!* the first command to be given when the wheel is nearly completed, and the second the instant it is completed, the commands to be instantly repeated by the captains.

42. The points where the column is to change direction to the left will be fixed by the brigade or battalion commander, and each will be indicated by a marker, and captains will wheel their companies to the left at these points without waiting for the brigade or battalion commander's commands to change direction of column.

43. When the changes of direction are completed the guide will invariably be on the right.

44. Brigade and battalion commanders, after saluting, immediately turn out of the column and take position near to and on the right of the reviewing personage, remaining until the rear of their respective commands have passed.

45. Sections 12 and 13 of this paragraph are referred to and will be observed in this form.

46. The points where the column is to change direction to the left to re-form the line are indicated by markers posted by the brigade or battalion commander, the last one to be at a point between thirty and forty yards in rear of the original line.

47. When the column has arrived nearly opposite its position in line, the brigade or battalion commander will command 1. *Form line*, 2. *MARCH!* At the first command the captains will command 1. *Left wheel*, and at the second command, promptly repeated by the captains, the companies will wheel to the left, and when the wheel is nearly completed the brigade or battalion commander will command 1. *Forward* (to be instantly repeated by the captains), and follow it by the command 2. *MARCH!* the instant it is completed; following that, when the companies have arrived near the original position and their apparatus has straightened out to the front, with the command 1. *Brigade (or Battalion)*, 2. *HALT!*

48. The line will be re-formed and aligned in the manner prescribed in Sections 2 and 3 of this paragraph, and the brigade or battalion commander will then command 1. *Brigade (or Battalion)*, 2. *SALUTE!* face to the front and salute, and when the reviewing personage has acknowledged the salute, recover his trumpet, face the line, and command *RECOVER!* and 1. *In place*, 2. *REST!* which ends the review unless it be desired to have the passage also at a trot and gallop, or at a trot alone, in which case the line will not be re-formed, but the column will continue the march on the trot, observing the directions contained in Section 15 of this paragraph.

49. After the passage on a trot, if the column is also to pass on a gallop, the brigade or battalion commander commands 1. *Gallop*, 2. *MARCH!* when the column has arrived nearly opposite its position in line. At the first command the captains command *MOUNT!* which will be executed as prescribed in Section 16 of this paragraph.

50. When the last company has passed the first wheeling point beyond the point of review, the brigade or battalion commander will command 1. *Trot*, 2. *MARCH!* which will be executed as prescribed in Section 17 of this paragraph.

51. After the head of the column has passed the last wheeling point, the brigade or battalion commander commands 1. *Walk*, 2. *MARCH!* which will be executed as prescribed in Section 18 of this paragraph.

52. The directions contained in Sections 19 to 33, both inclusive, of this paragraph are referred to, and will also be observed.

53. In the review of a brigade passing at a gallop, each battalion will be wheeled to the left at the first wheeling point beyond the point of review, at least twelve yards beyond the point at which the preceding battalion wheeled, in order that the passage in review of the rear of the column may not be checked.

54. All reviews in line, whether the last passage in review is in quick time, on a trot or gallop, will end as prescribed in the first part of Section 48 of this paragraph, unless otherwise directed.

55. In a review of two or more battalions together, if it be impracticable to form a brigade line, they will be formed in separate lines at thirty yards distance. The brigade will salute as such at the command of the brigade commander, and the reviewing personage may either pass around the brigade as a whole, or along the front and rear of each battalion as he may elect.

56. In passing in review the first battalion proceeds as prescribed for the review in single line in Section 41 of this paragraph, and when the rear of its column has uncovered the right company of the second battalion, that battalion will be advanced in line by its commander at the command 1. *Forward*, 2. *Guide right*, 3. *MARCH!* the line guiding on and taking the step from the right company, and when it arrives at the position in line occupied by the first battalion, he will break it into column as prescribed in Section 41 of this paragraph without halting. If there be a third battalion it will be advanced simultaneously with the second battalion until it occupies the ground vacated by that battalion, where it will be halted until its front is uncovered, when it will be again advanced to the position of the first battalion, and there broken into column as prescribed for the second battalion.

#### XVI.—Form of Inspection.

1. An inspection is, when practicable, preceded by a review, tendered to the inspecting officer, unless he is junior in grade to the officer commanding the brigade or battalion, in which case the inspecting officer accompanies the commanding officer, who takes the review himself.

2. At the termination of the review the commanding officer accompanies the inspecting officer to the right of the line. Each captain seeing the inspecting officer approach his company, brings it to attention, and himself salutes.

3. The inspecting officer, accompanied by the captain, thereupon minutely inspects the officers and men, their uniforms, badges, telegraph keys, hydrant wrenches, and their bearing and general appearance, the condition of horses, harness, and apparatus.

4. When the inspection of a company is completed it will be directed to return to its quarters forthwith, and when all have been inspected the inspecting officer will go to the company's quarters, accompanied by the brigade or battalion commander, and will make a thorough inspection of everything connected with or pertaining to the company or its management, which has not already been inspected on the parade ground. The entire inspection may be made in quarters if the weather is inclement, or it is deemed desirable for other reasons to do so.

5. When the inspecting officer appears at the quarters of a company for the purpose of inspecting it, the company will be quickly formed in line with the right resting near the main doors (which will be opened), and the company will salute. The inspecting officer having halted at the entrance and acknowledged the salute, the company will recover and remain in line at a rest, or be re-formed when the inspecting officer passes out, and stand at attention.

6. The inspecting officer shall also require the captain to drill his company in quarters in such movements as he may prescribe.

#### XVII.—To communicate with officers when in line, the following instructions will be observed:

1. If it be a single line, the brigade or battalion commander will command 1. *Battalion Commanders (or 1. Battalion and Company Commanders, or 1. Officers), to the front and centre*, 2. *MARCH!* At the first command, the officers thus designated will face inward (the lieutenants first moving forward to the line of captains, the battalion commanders forming another line in front), and at the second command they march toward the centre, closing upon the captain of the centre company, or the one next to the centre on the right. As each officer closes up to the preceding one, he will halt and face to the front, and when all are in line, the captain in the centre will command 1. *Forward*, 2. *Guide centre*, 3. *MARCH!* and when within four yards of the brigade or battalion commander, he will command *HALT!* whereupon the line will halt and salute, recovering trumpets as soon as the salute is acknowledged. When the communication is ended, the brigade or battalion commander will command 1. *To your posts*, 2. *MARCH!* At the first command the officers will face about to the right, and at the second command they will march directly toward the line, and on arriving at two yards distance from it will turn outwards and resume their positions.

2. If there be more than one line, the officers of the interior lines will pass out to the front through the intervals on the right of their respective companies at the first command, and the second command will not be given until all are on the line faced inward. They will return to their positions through the same intervals.

#### XVIII.—Funeral honors to the remains of deceased officers and members of the uniformed force.

1. The funeral escort for the various grades will be as follows:

Chief of Department, one brigade of three battalions of four companies each.  
Assistant Chief of Department, one brigade of two battalions of four companies each.

Chief of Battalion, one battalion of four companies.

Captain, one battalion of three companies,

Lieutenant, one battalion of two companies.

Sergeant, corporal, or private, one company, commanded by a lieutenant; in all other cases the escort shall be commanded by an officer of the same grade as that to which the deceased belonged, or of the grade next above or below.

2. Six pall-bearers will be selected from the same grade or from the grade next above or below that to which the deceased belonged.

3. The funeral of an officer will be attended by as many officers in uniform, according to the grade of the deceased, as can be spared, and the funeral of a sergeant, corporal, or private will be attended by as many of the members of these grades in uniform as can be excused for the purpose without detriment to the service. Officers or men will form four abreast in rear of the hearse in the inverse order of their rank.

4. The badge of mourning to be worn by the escort and pall-bearers is a piece of black crape tied with a bow knot around the left arm above the elbow, and in the case of officers a piece of black crape will be similarly tied around the trumpet near the mouth-piece.

5. The escort in one rank will take position about fifteen yards in front of and facing the house from which the remains are to be escorted, the centre opposite the entrance, and at parade rest. If there is music it will form on the right of the line.

6. When the remains are brought out the officer commanding the escort will command *ATTENTION!* and *SALUTE!* and if there be music it will then play an appropriate air until the remains have been placed in the hearse, when it will cease. The commanding officer will then command *RECOVER!* and if there be a band it will then at once pass along the front to the left of the escort, where it will take post. The commanding officer will then command 1. *Company (or 1. by Company) left wheel*, 2. *MARCH!* and 1. *Column forward*, 2. *Guide right*, 3. *MARCH!* and when it has moved far enough to permit the hearse and carriages to form in rear, he will halt it.

7. The pall-bearers take their position in equal numbers on either side of the coffin at the entrance, accompany it to the hearse, and then take position alongside the hearse in the same relative positions.

8. The column will be marched in slow time to solemn music, and when the place of burial is reached, the commanding officer will so direct it as to bring the guides (right flank) next to the grave or vault, and when its centre is opposite the grave or vault, he will command 1. *Column*, 2. *HALT!* and 1. *Into line*, 2. *Right wheel*, 3. *MARCH!* The remains are then brought along the front of the line to the opposite side of the grave or vault (the music playing), and the commanding officer commands *SALUTE!* and when they reach the grave he commands *RECOVER!* and 1. *Parade*, 2. *REST!* At the last command the music ceases.

9. When the funeral ceremonies have been performed, and the remains have been deposited in the grave or vault, the commanding officer commands *ATTENTION!* and 1. *Company (or 1. by Company) right wheel*, 2. *MARCH!* and when the wheel is completed 1. *Forward*, 2. *Guide left*, 3. *MARCH!* in quick time.

10. The national standard, appropriately draped, will always be carried on the left flank of the centre or right centre company where the escort consists of more than two companies, and in a battalion of two companies by the right or first company, and in case of a single company it will be carried by the centre file. Whenever the escort salutes, the standard will be lowered directly to the front by extending the left arm, and it will be elevated to a perpendicular position at the command *RECOVER!* The standard-bearer does not salute with the hand.

11. When the burial place is far from the point where the remains are received, the column may be marched in quick time, or without regard to cadence of step, merely preserving the order in column, but the march in slow time must be resumed on approaching the cemetery.

12. If the burial takes place out of the city, the escort may leave the procession at the wharf or ferry, in which case it is formed into line as prescribed in Section 8 of this paragraph, and salute, while the hearse is passing along its front, the band (if there be one) playing appropriate music. When the hearse has passed the line the commanding officer will command *RECOVER!* and re-form the column as prescribed in Section 9 of this paragraph, marching it in quick time to the place of dismissal.

(General Orders No. 27.)

#### IN RELATION TO COMBUSTIBLES, EXPLOSIVES, FIREWORKS, ETC.

I.—Company officers shall make inspections in their company districts, and report all places where fireworks are sold without permit, all places and persons selling kerosene oil without having a license, and persons having vegetable fibre in their buildings without a permit, and shall see that permits and licenses are for the current year, and properly and conspicuously displayed; shall also see that persons making fire in street have permit to do so; all such permits and licenses to be issued from this Department.

#### II.—All notices from the Bureau of Combustibles must be served in the following manner:

1. By delivering the notice to the person to whom it is directed, or to some person of suitable age and discretion (in the employ of such person) on the premises.

2. If the person to whom the notice is directed has removed from the address given, make diligent inquiry in the neighborhood and ascertain if possible the present whereabouts of the person or persons addressed. Also ascertain the full name or names of the person or firm occupying the premises at the address given, the nature of the business carried on there, and the date when such business was commenced, giving full particulars in the return.

3. In serving a firm or partnership, ascertain the full names of the persons composing the firm, and state the same in the return.

4. In serving a corporation, ascertain the full names and the official titles of the officers thereof, and state the same in the return.

5. Proper report respecting all notices sent for service from the Bureau of Combustibles must be promptly returned to said Bureau. The fact of service, or in case of failure to serve any notice, the cause of such failure must be stated in the return. All returns must be written in ink and signed by the party detailed to make the service.

III.—Attention is directed to the following provisions of law, and it shall be the duty of company officers to promptly report to the Board any and all violations of the same:

#### CHAPTER 742, LAWS OF 1871.

SECTION 1. The following regulations are hereby established for storage and the keeping and sale of combustible materials in the city of New York:

##### GUNPOWDER, NITRO-GLYCERINE, ET CÆTERA.

§ 2. No person shall manufacture, have, keep, sell, or give away any gunpowder, blasting powder, gun-cotton, nitro-glycerine, dualin, or any explosive oils or compounds within the corporate limits of the city of New York, or waters adjacent thereto, except in the quantities limited, in the manner and upon the conditions herein provided, and under such regulations as the fire commissioners of the city of New York shall prescribe; and said commissioners shall make suitable provision for the storage and safe-keeping of gunpowder and other dangerous and explosive compounds or articles, enumerated under this act, beyond the interior line of low-water mark in the city and county of New York. The said commissioners may issue licenses to persons desiring to sell gunpowder or any of the articles mentioned under this section at retail, at a particular place in said city, to be named in said license (provided that the same shall not be in a building used in any part thereof as a dwelling, unless specially authorized by said license), and persons so licensed may have on their premises, if actually kept for sale, a quantity, not exceeding at any one time, of nitro-glycerine, five pounds; of gun-cotton, five pounds; of gunpowder, fourteen pounds; blasting powder, twenty-five pounds; and all of said articles shall be put up in tight metallic canisters, containing, or capable of containing, not more than one pound each; and the persons so licensed shall place on some conspicuous part of the front of each of the stores or buildings in which they may be licensed to sell powder, or any of the articles named under this section, a sign, on which shall be distinctly printed, in characters legible to persons passing such stores or buildings, the words "Licensed to sell gunpowder," or designating such other of the articles herein named as is there offered for sale; and every barrel, cask, canister, bottle, can, vessel, box, or parcel in which the same is sold, or into which the same is delivered on being sold, shall be distinctly labeled with a printed sign or label, printed upon or firmly affixed thereto, describing the article contained therein, with the word "danger" distinctly painted below the same. No nitro-glycerine, dualin, or gunpowder shall be manufactured in said city, and no quantities of nitro-glycerine, dualin, or gunpowder greater than above provided shall be kept, carried, or conveyed within said city; except that for the purposes of distribution to or delivery from stores and buildings in said city, a quantity not more than five quarter-

casks may be carried at any one time during the daytime, for the purpose of transportation from any vessel, or sending the same to said stores or buildings, or any vessel or place without said city; provided, that in the carrying or conveying the same it shall be protected by being completely and securely covered with a leather or canvas cover or case, and marked "gunpowder." The commander, owner or owners of any ship or other vessel arriving in the harbor of New York, and having more than twenty-eight pounds of gunpowder, duolin, or nitro-glycerine on board, shall, within forty-eight hours after the arrival, and before such ship or vessel shall approach nearer than three hundred yards of any wharf, pier, or slip, to the southward of a line drawn through the centre of Seventy-third street in said city, immediately give a written notice to the said commissioners of the fact that such powder or nitro-glycerine is on such vessel; but it shall be lawful either to proceed with such ship or vessel to sea, within forty-eight hours after her arrival, or to transship such gunpowder, duolin, or nitro-glycerine from one ship or vessel to another, for the purpose of immediate transportation, without landing the same; provided, however, that the provision of this section shall not apply to any vessel receiving gunpowder on freight on any one day, provided such vessel do not remain at any wharf of the said city, or be within three hundred yards thereof after sunset. All gunpowder, gun-cotton, blasting powder, duolin, nitro-glycerine, or other explosive compound, found in violation of this section, shall be forthwith seized and safely stored, and be sold upon three days' notice to the owner or claimant, and the proceeds of such sale, after deducting all expenses, shall be forfeited and paid over to and for the use and benefit of the relief fund of the fire department in the city of New York. Nothing contained in this section shall be construed to apply to any ship or vessel of war in the service of the United States or any foreign government, while lying distant three hundred yards or upwards from the wharves, piers, or slips of the said city.

## FIREWORKS, CHEMICALS, ACIDS, ET CÆTERA.

§ 3. No fireworks, detonating works, cartridges, powder train, percussion caps, collodion, nitrate of soda, nitrate of silver, ether, phosphorus, matches, or explosive compounds shall hereafter be manufactured, stored, or kept upon sale in the city of New York, except at such places, in such manner, and in such quantities as shall be determined by the said commissioners in the exercise of their discretion, under a permit by them granted therefor, and subject to be revoked at any time by said commissioners. Fireworks consisting of chinese crackers, rockets, blue-lights, candles, colored pots, lance-wheels, and other works of brilliant-colored fires, may be kept upon sale intervening the tenth day of June and the tenth day of July in each year, by retail dealers, under such reasonable regulations as said commissioners may prescribe, under a permit issued therefor; and no quantity of the following-named chemicals, acids, and combustible materials, greater than is hereinafter enumerated, shall be stored or kept in or upon any one building within the city of New York, namely: sulphur, one thousand pounds; manufactured matches, five hundred pounds; saltpetre, nitrate of soda, five hundred pounds in the whole; nitrate of silver, collodion, ether, phosphorus, fifty pounds in the whole; cartridges, percussion caps, powder train, one hundred pounds in the whole; aquafortis, muriatic acid, nitric acid, and sulphuric acid, not exceeding one thousand pounds in the whole; tar, pitch, resin, turpentine, one hundred barrels in the whole, except the same shall be stored and kept in such building and manner as said commissioners may require, under a special permit by them issued therefor.

## PETROLEUM, KEROSENE, ET CÆTERA.

§ 4. No person shall have, keep upon sale, or store in any place or building within the corporate limits of the city of New York, any crude petroleum, coal, or any similar oil, nor any of their products, either of which shall emit an inflammable vapor at a temperature below one hundred degrees, Fahrenheit, except under the following provisions: these oils, or any of their products, may be stored in detached and properly ventilated warehouses, the outer walls of which shall be stone, brick, or iron, especially adapted for the purpose, by having raised sills at least two feet high, or the ground floor of which shall be at least two feet below the level of the street or adjoining yard, or so constructed as to actually prevent the overflow of such substances beyond the premises where the same may be kept or stored; which said warehouses shall not be occupied in any part as a dwelling; and if less than fifty feet from any adjacent dwelling, the same must be separated by a brick or stone wall at least ten feet in height and sixteen inches thick, constructed in such manner as said commissioners may prescribe, but the same may be stored in such other manner as said commissioners may designate under special permit issued therefor.

No refined petroleum, kerosene, coal, or similar oil, or any product thereof to be used for illuminating or heating purposes, which shall emit an inflammable vapor at a temperature below one hundred degrees, Fahrenheit, shall be kept upon sale or stored within the corporate limits of the city of New York. All said articles shall be tested and their quality determined by sanitary surveyors authorized by said commissioners, using G. Tagliabue's instruments, or such other instruments as may be designated by said commissioners.

No refined petroleum, kerosene, gasoline, naphtha, or benzene, benzole, camphene, or burning fluid, or products or compounds containing any of said substances, when temporarily placed above the cellar or basement of any building, and in barrels of not over forty-five gallons each, or in metallic vessels or tanks, shall exceed in the whole quantity the contents of fifty said barrels; provided, however, that the whole quantity of said refined oils that may be so kept or stored over night shall not exceed the contents of ten said barrels, unless stored in the manner provided for storing crude petroleum; and when stored in cellars or basements surrounded by walls of brick or stone, and at least two feet below the level or grade of the sidewalk, street, or land adjacent, the whole quantity shall not exceed the contents of one hundred and fifty barrels, unless stored in warehouses specially adapted for that purpose, as required for the storage of crude petroleum under this section; provided, also, that no quantity of said oils greater than one barrel shall be stored or kept in any building occupied in any part thereof as a dwelling.

No refined petroleum, kerosene, gasoline, naphtha, benzene, benzole, camphene, burning fluid, or product or compounds containing any of said substance, shall be kept or stored, on or above the first story or floor of any building, exceeding in the whole quantity the contents of five barrels, of forty gallons each. In no case shall any of the articles named in this section be allowed to remain on the sidewalk beyond the front line of any building, or in or upon the streets, docks, piers, bulkheads, slips, highways, or public places, a longer time than is actually necessary for the removal or loading of the same; and said commissioners may establish and enforce general regulations, and issue such orders and special directions relative to the handling, lightering, carting, loading, unloading, and transportation of the several articles named under this section, as in their discretion shall be deemed necessary for the public protection; and said commissioners may issue special permits authorizing the keeping of any of the articles enumerated under this section in buildings, tanks, or structures fire-proof throughout, in such quantities, in such manner, and subject to such regulations as shall tend to secure the same against danger. No person shall sell at retail any kerosene or other product of petroleum, or any similar oil to be used for heating or illuminating purposes, without first obtaining a license therefor from said commissioners, to be issued with the consent of the Mayor, under such rules and regulations as they may prescribe, which license shall be for the term of one year, and shall not be transferable; and for every such license, and for every renewal of the same, the said commissioners shall demand and receive the sum of ten dollars. Said license shall be posted in a conspicuous place in the store of the person or persons to whom the same is issued, and may be revoked for cause by said commissioners. Any person who shall sell any of the compounds above mentioned in this section without first obtaining a license therefor, shall forfeit and pay the sum of twenty-five dollars. In case any person is burned by the explosion of any compound, the sale of which is prohibited by any section of this act, or has not been subjected to sanitary survey or licensed as therein provided, and death ensues therefrom, the person found guilty of selling the same shall be deemed guilty of a felony, and upon conviction shall be punished by a fine of not less than one thousand dollars nor more than five thousand dollars, or by imprisonment in the State Prison for a term not less than one year nor more than five years; and in case of a bodily injury, the party injured may maintain an action for damages against the party violating the provisions of this act. And any dealer who shall present and deliver for sanitary survey a sample of oil different from and which does not represent the quality of oil actually kept by him or her for sale, and not taken from the actual stock being offered for sale, and of the same quality therewith, shall forfeit and pay the additional sum of fifty dollars. If any fire insurance company organized under the laws of this State, or any insurance company of any other State, or any foreign insurance company authorized to do the business of insurance in this State, shall indorse upon any policy issued by them the right or privilege to keep, deal in, give away, sell, or use any article or compound of a combustible or explosive character, the sale of which is made unlawful by any act of the legislature of this State, or shall cause or permit such indorsement to be made by others upon their policies of insurance, they shall for each and every such offense forfeit and pay a fine of five hundred dollars.

## COMBUSTIBLES, FIRES, LIGHTS, ET CÆTERA.

§ 5. No person shall kindle any fire nor furnish the materials nor in any way authorize or allow any fire to be made in any street, road, alley, lane, or upon any pier, wharf, or bulkhead in said city, except under such regulations as shall be established by said commissioners, under a penalty of ten dollars for each and every such offense.

All lights used in theatres and all other places of public amusement, manufactories, stables, or in show-windows, shall be properly protected by globes, glass coverings, or in such other manner as said commissioners shall prescribe, under the penalty of ten dollars for each omission to do so.

The proprietors of all manufactories, hotels, tenement-houses, boarding and lodging houses, warehouses, stores, and offices, theatres, and music halls, and the authorities having charge of the public schools and other public buildings, churches, and other places where large numbers of persons are congregated for purposes of worship, instruction, or amusement, shall provide such means for communicating alarms and extinguishing fires, and communicating necessary information to the police, as said commissioners and the police commissioners shall prescribe. And said commissioners may detail, not to exceed two members of the fire department, at each and every place of amusement where machinery and scenery are used, while such place is open to the public, whose duty it shall be to guard against fire, and have charge and control of the means provided for its

extinguishment, and shall have the control and direction of the employees of the place to which they may be detailed for the purpose of extinguishing any fire which may occur therein.

## FIRE-HYDRANT OBSTRUCTIONS.

§ 6. No person shall in any manner obstruct the use of any fire-hydrant in said city, or allow any snow or ice to be thrown or piled upon or around the same, or have or place, or allow to be placed, any material in front thereof from the curb line to the centre of the street, and to within ten feet from either side thereof, and all snow or ice accumulating within such space shall be removed by the owner or owners, lessee or lessees, of the premises fronting the same in the same manner as is prescribed for the keeping clear of the sidewalk, under a penalty of ten dollars for each and every such offense; and any and all material found as an obstruction as aforesaid may be forthwith removed by the officers or employees of said commissioners, and at the risk, cost, and expense of the owner or claimants, and said commissioners may take all proper measures to keep said hydrants from freezing and in proper condition for use at all times.

## FIRE-ALARM TELEGRAPH.

§ 7. Said commissioners shall have exclusive right and power from time to time to designate and fix the location of all fire-alarm telegraph signal and alarm stations in the city of New York, and to have access to and the control of the same for the purposes of the department; to fix upon and adopt the colors or combination of colors in painting the poles, boxes, and fixtures thereof, and the kind or style of keys and appliances by which to operate the same; to select and designate the places of deposit for keeping the keys of the various stations, and to designate the officers and persons who shall be intrusted with duplicate keys and authorized to use the same, and to make from time to time such rules and regulations governing the possession, return, or use thereof, and as to the use and control of said telegraph, as they may deem necessary; and no person other than the said commissioners or their officers and their employees specially authorized to operate said telegraph, or to use the same for instruction or drill, or policemen or citizens using the same for communicating an actual alarm of fire, shall make use thereof; and no person shall use the keys or appliances thereof for communicating a false alarm, or experimenting or tampering with the same for any purpose whatever, or have or possess any key thereof, without such authority; and no person, association, corporation, or company shall post, paint, impress, or in any way affix to any pole connected with said fire-alarm telegraph, or any box, wire, or other appliance connected therewith, any placard, sign, broadside, notice, or announcement of any kind, or cut, mutilate, alter, mar, deface, cover, obstruct, or interfere with the same in any manner whatsoever, or paint, or cause to be painted, the poles of any other telegraph, or any other poles on the lines thereof, of a similar color or colors, or in imitation thereof, nor consent, allow, or be privy to any of said things being done for them or upon their behalf; and any offense against the provisions of this section shall be punished as a misdemeanor, and subject the party or parties violating the same to an additional penalty of one hundred dollars. No kite shall be flown, raised, or put up in the streets or avenues adjacent to the lines of said telegraph in the city of New York, or allowed to become entangled with the wires or apparatus of said telegraph, under a penalty of ten dollars for every such offense; and the commissioners of police and their officers are specially charged and directed to aid in the enforcement of this section.

## HOISTWAYS, WELL-HOLES, IRON SHUTTERS, ET CÆTERA.

§ 8. All hoistways, well-holes, trap-doors, and iron shutters shall be closed at the completion of the business of each day by the occupant of the building having use or control of same, and in case of a violation of this provision, such occupant having the use or control thereof shall forfeit and pay a penalty of fifty dollars for each and every neglect or omission so to do. And for any accident or injury to life or limb, resulting directly or indirectly from any neglect or omission to properly comply with any of the requirements of this section, the person or persons culpable or negligent in respect thereto shall be liable to pay to any officer, agent, or employee of said commissioners injured, or whose life may be lost (resulting from such neglect or omission) while in discharge or performance of any duty imposed by said commissioners, or to the wife and children, or to the parents, or to the brothers and sisters, being the surviving heirs-at-law of any deceased person thus having lost his life, a sum of money in case of injury to person not less than one thousand dollars, and in case of death not less than five thousand dollars, such liability to be determined and such sums recovered in an action to be instituted by said commissioners for and in behalf of any person injured, or the family or relatives of any person killed as aforesaid; and any and all persons for any fire resulting from his or their willful or culpable negligence, or criminal intent or design, shall in addition to the present provisions of law for the punishment of persons convicted of arson be liable in a civil action for the payment of any and all damages to person and property the result of such fire, and also for the payment of all costs and expenses of said commissioners incurred in and about the use of employees, apparatus, and materials, in the extinguishment of any fire resulting from such cause, the amount of such costs and expenses to be fixed by said commissioners, and when collected shall be paid into the relief fund of said department herein created; and shall also be liable for injury to person or loss of life of any officer, agent, or employee of said commissioners, in the same manner and like extent, and to be sued for in like manner as in the preceding part of this section provided for.

## GENERAL POWERS, ET CÆTERA.

§ 9. The said commissioners and their officers or agents, under the direction of said commissioners, or either of them, are hereby empowered at any and all times to enter into and examine all buildings, livery and other stables, hay-boats or vessels, and places where any merchandise, gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings or other combustible materials may be lodged, and deliver a written or printed notice, containing an extract from this act, of the provisions in reference thereto, and notice of any violation thereof, and notice to remove, amend, or secure the same within a period to be fixed therein. And in case of neglect or refusal on the part of such occupant or of the possessor of such combustible materials, or any of them, so to remove, amend, or secure the same within the time and in the manner directed by the said commissioners in such notice, the party offending shall forfeit and pay, in addition to any penalty hereinbefore imposed, the sum of twenty-five dollars and the further sum of five dollars for every day's neglect to remove, amend, or secure the same after being so notified. All persons or corporations who shall be required to have and obtain permits shall furnish such information as may be required, touching the condition of any building and the business therein proposed to be conducted, preliminary to obtaining such permit. In case any chimney or flue within the corporate limits of the city shall take fire, the person or persons using said chimney or flue shall forfeit and pay a fine of five dollars, unless cause for the same shall be shown to the satisfaction of said commissioners.

The said fire commissioners are hereby authorized and empowered to permit the metropolitan fire extinguishing company to lay pipes through and along any of the streets, lanes, avenues, alleys, or roads in the said city, for the purpose of extinguishing fires, under such rules and regulations as shall be prescribed by the commissioner of public works.

The said commissioners are empowered to provide for the laying on the railway tracks of the city over the hose used by the department for the extinguishment of fires such hose-bridges as they may deem necessary; and the various horse and steam railway companies running cars within the limits of the city of New York shall, after the passage of this act, provide and use such hose-bridges as may be designated by the commissioners of the fire department. Such bridges shall be paid for by the railway companies using the same.

## EXAMINATIONS, DETAILS, AND MANAGEMENT OF FIRES.

§ 10. Said commissioners are hereby authorized and empowered to investigate, examine, and inquire into the origin, details, and management of fires in said city, and also of any supposed cases of violations of any of the provisions of this act, or of any of the several regulations, orders, or special directions issued by said commissioners for the purpose of the discovery of any delinquency in the non-performance of duty or violation of discipline on the part of any officer, agent, or employee of said commissioners, or any supposed cases of arson or incendiarism which may be brought to their notice; and said commissioners, in and about any examination, investigation, or inquiry, authorized hereby, touching any matter or thing therewith connected, may subpoena and compel the attendance of any person or persons, and the production of any books, papers, archives, or documents in his or their possession, or under his or their control, in the judgment of said commissioners connected with and necessary to such examination, investigation, or inquiry, before them, at the time and place therein named; and for the purpose aforesaid their attorney may at any time obtain to be issued subpoenas out of the supreme court, tested under the name of a justice of said court, in like form and with like effect as though issued by said justice in any action pending in a court of record; and said subpoena may be served, and proof of such service may be made, in the same manner as now by law provided for the service of subpoenas out of the said court; and upon proof of service and proof of non-compliance, failure to attend and testify on the part of any person or persons, as required by said subpoena, or a failure or refusal on the part of said person or persons to produce any such books, papers, archives, or documents in his or their possession, or under his or their control, or a failure or refusal on his or their part to answer any question put to him or them, and pertinent thereto, upon any examination, inquiry, or investigation as aforesaid, application may be made before any justice of said court, who shall, in case he shall decide such question pertinent and proper to be answered, thereupon cause to be arrested, and may punish as for a contempt of the orders of said court, the person or persons named in said subpoena, and in such case the laws, rules, and proceedings relating to punishments for contempts, and usual in said court, or before any justice thereof, shall be applicable thereto.

Said commissioners, in conducting any examination or inquiry as aforesaid, are hereby authorized to administer any oath or affirmation in the matter, and any false swearing under said oath or affirmation thus administered shall be perjury, and punishable as such in such manner as now provided under the laws applicable thereto; and said examination or investigation may be continued and adjourned by the said commissioners conducting the same, from time to time, and at such time and place as shall be designated, and any person subpoenaed as aforesaid shall attend and testify

upon said adjourned day or days, and at the time and place designated, and of which they shall have been notified, as though the same had been named in said subpoena, and with like effect as to any failure to appear and answer under the requirements therein contained; provided, that any testimony or evidence taken as aforesaid shall be for the information and instruction of said commissioners in the discharge of their duties, and in the prevention of future fires, and the protection of property, and shall be carefully kept in the archives and possession of said commissioners, and shall in no manner be used in any criminal proceeding or action, but may be placed before any grand jury in said city or county of New York; but nothing in this section contained shall be construed to interfere with the rights, powers, and duties of the fire marshal of the city of New York, who shall at all times have access to and the authority to unite in such examinations and investigations, and the same shall not be construed to interfere with his rights, privileges, perquisites, or duties in investigating, as heretofore, the origin and causes of fires.

## PENALTIES.

§ 11. Any person, persons, or corporation, for the violation of, or non-compliance with, any of the several provisions of the several sections of this act, when the penalty is not therein specially provided, shall severally forfeit and pay a fine or penalty in the sum of fifty dollars for each and every such offense, or shall forfeit and pay the penalties respectively imposed under any of said sections, and shall also be severally liable for the removal, amendment or abatement of any violation of, or non-compliance with, any requirement under said sections, and shall also be severally liable for the payment of the further penalty of the sum of fifty dollars for any violation of, or non-compliance with, any regulation, order, or special direction issued by said commissioners as authorized under this act. Said commissioners may, in their discretion, pay a portion of a fine or penalty, when collected, not to exceed one-half thereof, to an informer.

## ENFORCEMENT OF LAW.

§ 12. The board of fire commissioners of the city of New York are hereby authorized, empowered, and specially charged with the duties of enforcing the several provisions of this act, and may incur any expense necessary and proper therefor; and as to the location of any matter, place, or thing under the several sections of this act, they shall severally be taken and construed to be located within, or apply to, said city of New York; and said board of fire commissioners are hereby authorized and empowered to receive and collect all license fees herein mentioned, and to sue for, and shall have the exclusive right of recovery of, any and all penalties imposed under this act, and may sue for and recover and collect the same, with costs, in the manner provided for in actions under the code of procedure, and shall apply the same to the uses and purposes of the relief fund of the fire department of the city of New York, and said board of fire commissioners may, in their name, bring any suit or action authorized; and any action to recover any fee, fine, or penalty under this act may be brought in any of the district courts in said city; and the corporation attorney shall, under the direction of said commissioners, take charge of the prosecution of all suits or proceedings instituted for the recovery and collection of penalties, and the enforcement of the several provisions of this act; collect and receive all moneys upon judgments, suits, or proceedings so instituted; pay all costs and disbursements, and discontinue suits and proceedings, and execute satisfaction of judgments upon payment of penalties or costs, and in compliance with orders made in such suits and proceedings; shall keep a correct and accurate register of all suits and proceedings, and account for all moneys received and paid out thereon; and shall pay over to the treasurer of the relief fund herein created the amount of all license fees, penalties, and moneys received and collected by him, after deducting the amount of all costs and disbursements actually made; provided that nothing herein contained shall be construed to increase or alter the compensation of the attorney of said board as now fixed, and the said commissioners are authorized to settle or compromise any such suit or judgment for less than the amount of the same, in case in their judgment they are satisfied that payment of the full amount cannot be collected.

## CHAPTER 584, LAWS OF 1871.

§ 2. All carpenters or others in said city making or using shavings shall, respectively, at the close of each day, cause the same to be securely stowed in some safe place remote from danger by means of fire, under the penalty of ten dollars for each omission so to do.

§ 3. It shall be the duty of the inspector of combustibles,\* or his officers and agents, when authorized by him in writing so to do, to enter into any building or premises within said city for the purpose of examining, or causing to be examined, the stoves and pipes thereto, ranges, furnaces, and heating apparatus of every kind whatsoever, including the chimneys, flues, and pipes with which the same may be connected, engine-rooms, boilers, ovens, kettles, and also all chemical apparatus, or other things which in his opinion may be dangerous in causing or promoting fires, or dangerous to firemen or occupants in case of fire; and upon finding any of them defective or dangerous, or in any manner exposed or liable to fire from any cause, he shall report the same to the fire commissioner† of the city of New York, who may thereupon issue such orders or special directions, either printed or written, directing the owner or occupant to alter, remove, or remedy the same in such manner and within such reasonable time as may be necessary, and in respect thereto may authorize and direct the use of such materials and appliances as shall be deemed proper and necessary; and in case of neglect or refusal so to do within the time prescribed by such orders or directions, the inspector of combustibles,\* under the direction of said board, shall cause such alteration, removal, or other necessary act or work to be done, and the expense thereof shall be charged to the party so offending, to be sued for and recovered in the manner herein provided for the recovery of fines and penalties under this act.

## CHAPTER 873, LAWS OF 1866.

§ 52. Any quantity of combustible material, other than those heretofore enumerated under section fifty, may be kept or stored within the city, provided the same shall be upon an open space of ground, surrounded by a wall constructed entirely of fire-proof materials, at least twelve feet high and twelve inches thick; or within a fire-proof building, remote or distant at least fifty feet from any adjacent building.

§ 55. No quantity of the following named chemicals and combustible materials greater than as hereinafter enumerated, shall be stored or kept in or upon any one building within the city of New York, namely, \* varnish, twenty barrels; \* alcohol, pure spirits, five barrels in the whole; \* unslaked lime, ten barrels; \* loose wood shavings, one hundred pounds; \* except the same shall be stored and kept as required under section fifty-two.

§ 56. (As amended by chapter 467, Laws of 1881.)

No quantity of cotton, hay, straw, flax, hemp, husks, rushes, oakum, rags, sea-weed, jute, or other vegetable fibre when pressed or baled, greater than twenty tons in the whole, shall be stored or kept in any building within the city of New York, unless kept in a building fire-proof throughout, or in the manner prescribed under section fifty-two of this act, or in a building approved by the New York board of underwriters or the commissioners of the fire department, and of which approval a certificate shall have been issued by either of said boards, and shall not have been revoked; and none of the articles enumerated in this section, when loose or not baled, shall be kept as aforesaid in quantity exceeding one thousand pounds in the whole; excepting in private stable, in which may be kept such loose hay and straw in quantity not exceeding twenty-five hundred pounds in the whole. No person shall have, put, or keep any hay or straw uncovered in any stack or pile, or in any other way exposed, within one hundred yards of any building in said city, or shall have, put, or keep within said city any hay, straw, hemp, flax, shavings, or rushes in any buildings not built of stone or brick or iron, and covered with tile or slate or other fire-proof material, which is or shall be within ten feet of any dwelling-house or chimney whatsoever.

§ 57. It shall be the duty of the fire commissioners or their officers or agents, under the direction of said commissioners, to examine the dwelling-houses and other buildings in said city, for the purpose of ascertaining all violations of any of the several provisions of sections \* \* \* \* \* fifty-five, fifty-six, and fifty-seven of this act, \* \* \* \* \* and also the places where ashes may be deposited, and upon finding any of them defective or dangerous, said commissioners shall direct the owner or occupant, either by a printed or written notice, to alter, remove, or amend the same, in such manner and within such reasonable time as they may deem necessary; and in case of neglect or refusal so to do, the party offending shall forfeit and pay twenty-five dollars; and for every day after the time allotted as aforesaid to alter, remove, or amend the same in conformity with the direction aforesaid, the party so offending shall forfeit and pay the further sum of five dollars; and all the expenses of any removal, alteration, or amendment as aforesaid, shall be paid in the first instance by the occupant, but shall be chargeable against the owner of such dwelling-house or other building, and shall be deducted from the rent of the same unless such expense be rendered necessary by the act or default of such occupant, or unless there be a special agreement to the contrary between the parties.

§ 58. Any person, persons, or corporation for the violation of any of the several provisions of sections fifty to fifty-eight, inclusive, of this act, when not therein otherwise provided, shall severally forfeit and pay a fine or penalty in the sum of fifty dollars for each and every such offense, and shall also forfeit and pay the penalties respectively imposed under any of said sections, and shall also be severally liable for the removal or abatement of said violations respectively under said sections.

(General Orders No. 25.)

\* In the original law the fire marshal was charged with these duties, and under the provisions of sec. 28, chapter 335, Laws 1873, the duties were devolved, by the board of fire commissioners with the consent of the board of estimate and apportionment, upon the inspector of combustibles.  
† In the original law the fire marshal was directed to report to the board of police; by sec. 76, chapter 335, Laws 1873, was placed under jurisdiction of fire commissioners.

## IN RELATION TO THE INSPECTION OF BUILDINGS.

I.—Chapter 521, Laws of 1883, confers on the Fire Department the powers and duties heretofore by law conferred on the Department of Buildings, viz.: "And the said powers and duties are hereby transferred to the Fire Department of the City of New York, and devolved on the officers thereof."

II.—The Inspector of Buildings is hereby authorized and empowered to perform the duties and exercise the power and authority conferred by law upon the Superintendent of the late Department of Buildings in so far as such laws are not inconsistent with the provisions of chapter 521 of the Laws of 1880, with the proviso, that no liabilities for the expenditure of money shall be incurred by the said Inspector of Buildings without the sanction of this Board, and that the requisitions upon the Comptroller, referred to in section 38, chapter 625 of the Laws of 1871, shall be made through the Board.

III.—The Inspector of Buildings is required and directed to make reports of the operations and business transacted in his bureau as soon after the close of each calendar month and of each quarter ending March 31, June 30, September 30, and December 31, as may be practicable, and he shall make immediate report in writing of all matters of extraordinary interest or importance requiring the attention or action of the Board. He shall issue all notices and other documents in the name of the Board.

IV.—The Inspector of Buildings shall be directly responsible to the Board of Commissioners for the proper conduct and management of his bureau. He is charged with the prompt execution and enforcement of all laws and ordinances, also all rules, regulations, and orders of the Board of Fire Commissioners, general or special, so far as they are applicable to himself or his bureau, and he shall keep an accurate record in convenient form for reference of the public business transacted therein, shall prescribe all necessary rules for the government of his employees, and dismiss from service in department any examiner or other employee, except clerks, who does not do his full duty or who may transgress any law, ordinance, rule, or order.

V.—The uniformed force (Bureau Chief of Department) will assist the Bureau of Inspection of Buildings in the discharge of its duty, and to that end the Chief and Assistant Chief of Department, chiefs of battalion, foremen and assistant foremen of companies are empowered and directed to examine all buildings in course of erection, construction, or alteration, and report any violation or evasion of law to the Fire Commissioners without delay. The power of the Chief and Assistant Chief of Department shall extend throughout the City of New York; chiefs of battalion to battalion districts; company officers to company districts.

VI.—Persons desirous of making complaints of violations or evasions of any law the Fire Commissioners are charged with administering, may make such complaints to the Chief or Assistant Chief of Department, to either of the chiefs of battalion, or at the quarters of any fire company to the commanding officer on duty at the time; such complaint shall be received and entered in full on the company or battalion journal and shall be promptly reported.

VII.—Company officers will make inspections of all new buildings and alterations to buildings in their company districts, not thereby interfering with the more important duty of preventing and extinguishing fire. Each and every inspection made shall be entered in the journal with date and time. Report within twenty-four hours to the Board, through the proper channels, whenever any building shall be commenced to be built, altered, or repaired. This is not intended to prevent complaints to the Bureau of Inspection of Buildings or any officer thereof, nor in any way to interfere with the powers and duties of that bureau, but to be auxiliary only.

VIII.—All notices of violations of law, and such other notices as may be necessary, shall be served by the members of the uniformed force, or any employee of the Bureau of Inspection of Buildings, in a careful, exact, and proper manner, and the proper returns of service of such notices shall be made immediately.

IX.—Battalion and company commanders will be held responsible for the manner in which the messenger and other service shall be performed in their respective battalion and company districts. Special attention must be given to this branch of the service that it may be performed in a proper and lawful manner.

X.—The following instructions for making service of notices from Bureau of Inspection of Buildings must be strictly observed:

1st. Find the person addressed in the notice; inquire if he or she is interested in the property as stated, and if so interested serve the notice upon the person by delivering it to and leaving it with that person.

2d. Do not leave the notice with any other than the person addressed.

3d. If there is any error as to ownership, leaseholdship, executorship, etc., in the notice, return it with a memorandum of the correction required.

4th. In the event of failure to find the person or persons addressed in the notice as owner or owners, after making diligent search and inquiry, post the notice in a conspicuous place on the premises described therein.

5th. Make affidavit of service of notice, stating manner, time and place of such service, or in the event of failure to find the person or persons addressed, the particulars of the search and inquiry made and of the posting of the notice on the premises described. The affidavit must be in the following form when the notice is served personally, viz.:

## SERVICE OF NOTICE.

Violation,  
Unsafe,  
Fire Escape,

Record No. .... (insert number).

City and County of New York, ss.:

..... of said city and county, being duly sworn, says that he is (foreman, fireman, or private of Engine or Hook and Ladder Co. No. ...., or ..... in the Bureau of Inspection of Buildings, as the case may be), in the Fire Department of the City of New York, and was duly authorized to serve the within notice; that on the ..... day of ....., 188 .., at ..... M., he served upon ..... therein named, by delivering to and leaving with said ..... in person, a notice, of which the within is a true and correct copy, and that he knows the person so served to be the same person described in said notice; and said ..... admitted to deponent that he was (owner, or builder, or agent, etc., as the case may be), of the building therein described.

Subscribed and sworn to before me, }  
this ..... day of ..... 188 .., }

Notary Public, New York County.

6th. The affidavit must be in the following form when the notice is served by posting the notice upon the premises, viz.:

## SERVICE OF NOTICE.

Violation,  
Unsafe,  
Fire Escape,

Record No. .... (insert number).

City and County of New York, ss.:

..... of said city and county, being duly sworn, says that he is (foreman, fireman, or private of Engine or Hook and Ladder Co. No. ...., or ..... in the Bureau of Inspections of Buildings, as the case may be), in the Fire Department of the City of New York, and was duly authorized to serve the within notice; that on the ..... day of ....., 188 .., he posted a notice, of which the within is a true and correct copy, on the building therein described, having been unable to find (insert name) therein named, after diligent search for (him or her or them) (insert here the particulars of search and inquiry).

Subscribed and sworn to before me, }  
this ..... day of ..... 188 .., }

Notary Public, New York County.

7th. If the notice to be served is for the survey of an unsafe building (as provided in section 37 of chapter 625 of the Laws of 1871), service must be made in the manner heretofore prescribed at least twenty-four hours before, but not more than three days before the time fixed in said notice for such survey.

8th. If a firm is addressed in a notice, personal service upon one member thereof is sufficient. In serving a firm or partnership ascertain the names of the persons composing the firm, and state in the affidavit of service the name of the particular person served.

9th. Where the party addressed is a corporation the notice must be served upon an officer thereof.

10th. In serving corporations be particular to insert the name and title of the person served in the affidavit of the service.

XI.—All reports and returns of service of notices, etc., herein required, shall be forwarded direct to the Inspector of Buildings.

(General Orders No. 28.)

## IN RELATION TO GRADES OF PRIVATES.

I.—From and after the date of the receipt of this order all privates in this Department shall be graded as follows:

1. All who have served as privates less than two years, and all serving in companies located north of Forty-first street, shall receive salary at the rate of eight hundred (800) dollars per annum, and be known and designated as privates of the third grade.

2. All who have served as privates more than two and less than four years, when serving in companies located south of Forty-first street, shall receive salary at the rate of nine hundred (900) dollars per annum, and be known and designated as privates of the second grade.

3. All who have served as privates more than four years, when serving in companies located south of Forty-first street, shall receive salary at the rate of one thousand (1,000) dollars per annum, and be known and designated as privates of the first grade.

II.—The advancement from the third to the second and from the second to the first grade, in case of becoming eligible on the first day of any month, shall take effect on that day, and in case of becoming eligible upon any other day of any month, it shall take effect on the first day of the following month.

III.—Application in writing for the advancement herein provided for must be made by the private affected thereby at least ten days prior to the date when they may become eligible thereto.

IV.—In case of transfer of privates of the first or second grades from companies located south of Forty-first to those located north of that line (which shall in no case be ordered except upon their own application in writing or as a punishment for offenses committed and proven on trial), they shall be reduced to the third grade, to take effect from the date of the transfer.

V.—Upon the pay-rolls and rosters privates of the several grades will be distinguished as private 1st grade, private 2d grade, or private 3d grade, and upon the pay-rolls they will be entered in that order.

VI.—Firemen shall receive pay at the rate of twelve hundred dollars per annum, and shall be entered on the pay-rolls preceding the privates 1st grade.

VII.—Officers and engineers shall receive pay as follows:

If appointed to the uniformed force before May 29, 1880, and promoted to either of the following grades at any time thereafter, at the following rates per annum:

Chief of Battalion.....	Two thousand five hundred dollars.
Foreman.....	One thousand five hundred dollars.
Assistant Foreman.....	One thousand three hundred dollars.
Engineer of Steamer.....	One thousand three hundred dollars.
Assistant Engineer of Steamer.....	One thousand two hundred and fifty dollars.

If appointed to the uniformed force after May 29, 1880, and promoted to either of the following grades at any time thereafter, at the following rates per annum:

Chief of Battalion.....	Two thousand dollars.
Foreman.....	One thousand four hundred dollars.
Assistant Foreman.....	One thousand three hundred dollars.
Engineer of Steamer.....	One thousand two hundred dollars.
Assistant Engineer of Steamer.....	One thousand one hundred dollars.

They shall be entered on the pay-rolls in the order named preceding the firemen.

(General Orders No. 35.)

## NATIONAL STANDARDS.

I.—All the National Standards in the Department will be displayed from sunrise to sunset as follows:

1. On January 1, February 22, May 30, July 4, November 25, December 25, and on such other holidays as may be designated by the President of the United States, or the Governor of the State of New York.

2. On occasions of parade of one or more battalions of the Department.

3. On formal visits of the Governor of the State of New York, Mayor of the City, a Fire Commissioner or an Inspecting Officer, and when officially directed to do so by the Board or the President.

II.—They will be displayed at half mast, as follows:

1. Upon the receipt of official notice of the death of an officer holding a distinguished position in the General, State, or City Government, a Fire Commissioner, an officer of the Department, or any member of the uniformed force who may lose his life in discharge of duty at fires, until sunset on the day of the funeral.

2. Upon the death of a member of the uniformed force from natural causes the company to which he was attached will display its flag at half mast until sunset on the day of the funeral.

III.—The National Standard will not be displayed at any other time, nor under any circumstances before sunrise or after sunset, nor will it ever be loaned.

(General Orders No. 16.)

## QUALIFICATIONS FOR MEMBERSHIP IN UNIFORMED FORCE.

I.—That hereafter all persons appointed to membership in the uniformed force shall possess the following qualifications:

1. No person shall ever be appointed to membership in the Fire Department, or continue to hold membership therein, who is not a citizen of the United States, or who has ever been convicted of crime, or who cannot read and write understandingly in the English language, or who shall not have resided within the State one year. (Chapter 335, Laws 1873, section 78, as amended by section 11, chapter 757, Laws 1873.)

2. They shall not be less than five feet seven inches in height, or weight and circumference of chest below that marked as the minimum accompaniment of the height in the following tables:

HEIGHT.	MINIMUM WEIGHT.	CIRCUMFERENCE OF CHEST. (QUIESCENT.) (There should be a difference, at least, of two inches at forced expiration and on full inspiration.)
5 feet 7 inches.	135 pounds.	33 inches.
5 " 8 "	140 "	34 "
5 " 9 "	145 "	34½ "
5 " 10 "	150 "	35 "
5 " 11 "	155 "	35½ "
6 " — "	160 "	36 "
6 " 1 "	165 "	36½ "
6 " 2 "	170 "	37 "
6 " 3 "	175 "	37½ "
6 " 4 "	180 "	38 "

3. They shall not be more than thirty years of age.

4. Deception or attempt at deception shall be cause for rejection.

5. Previous dismissal from the Police or from any Fire Department shall be cause for rejection.

6. Obesity shall be regarded a good cause for rejection.

7. Syphilitic taint in the applicant shall be regarded a good cause for rejection.

8. The respiring murmur must be clear and distinct over both lungs, its character full, easy, and regular, and the organs of respiration and their appendages free from any indications of disease.

9. The character of the heart's action must be uniform, free, and steady, its sound and rhythm regular and normal, and without indications of disease of the heart or blood vessels.

10. The condition of eyes and ears must be perfect.

11. The brain and nervous system must be in a healthy state, and the brain and spinal cord must not have been diseased.

12. There must not be any predisposition, either hereditary or acquired, to any constitutional diseases, such as phthisis, scrofula, or rheumatism.

13. Habits must be good and moderate as to use of stimulants and tobacco.

14. The effects of serious illnesses or injuries must not be perceptible in the heart, lungs, liver, kidneys, or other abdominal organs, or in the skin, eyes, ears, limbs, etc.

II.—No member of the uniformed force shall be promoted who does not possess all the qualifications required for appointment in the uniformed force, with the exception of those enumerated in sections 2 and 3 of the foregoing paragraph, or unless, in the opinion of the medical officer, the applicant is physically qualified to sustain the labors and exposures and perform the duties of the grade to which promotion is sought.

III.—All applicants for appointment and promotion shall be examined by the Medical Officer as to their physical condition, at the time of their appointment or promotion or within ten days thereof, and report of such examination shall be immediately made by the Medical Officer to the Board on Form 5, Medical Officer.

IV.—All applications for examination with a view to appointment shall be hereafter made on the forms now in use and approved, to wit: Forms 5, 6 and 7, Office of the Board.

(General Orders No. 23.)

## EXAMINING BOARD.

It is hereby announced to the Department that the "Examining Board" and the "Examining Board of Engineers," heretofore existing as separate boards, are consolidated and will be hereafter known as the Examining Board, to be composed of the following named officers of the uniformed force:

Assistant Chief of Department	Charles O. Shay.
Chief of Battalion	Hugh Bonner,
" "	William Rowe,
" "	John J. Bresnan, and
" "	Francis J. Reilly.

The Examining Board will hereafter meet for the transaction of such business as may be referred to it, at the quarters of Engine Company No. 31, upon the call of the senior officer.

(General Orders No. 33.)

## LEAVES OF ABSENCE.

Leaves of absence are classified as follows:

I.—Regular leaves of absence are such as may be granted with full pay for purposes of recreation, as follows:

1st. Officers may obtain as many regular leaves of absence as may be practicable under the provisions of this order, not, however, to exceed seventy-two hours in the aggregate in any one month (except for the period commencing on the 6th day of June and ending on the 15th day of September, when no leave of absence shall be granted to company officers of less than twenty-four hours duration), and each other member may obtain as many regular leaves of absence of not more than twenty-four hours duration each as may be practicable; in no case, however, is the number of such leaves to exceed three in each calendar month, and all such leaves (including those granted to officers) shall be made to terminate at or before 8 o'clock A. M.

2d. Regular leaves of absence may be granted, commencing on the 6th day of June and ending on the 15th day of September, to those only who shall have been members of the Department on the 1st day of January previous, as follows:

To the Chief of Department, for a period not exceeding twenty days; to the Assistant Chief of Department, for a period not exceeding twenty days; to each chief of battalion, for a period not exceeding fifteen days; to each company officer, for a period not exceeding ten days; to each other member, for a period not exceeding seven days.

During this period no application to transfer from one company to another will be entertained.

3d. For the purpose of getting meals not more than three separate hours daily may be allowed to each officer and member; but by special permission of the officers authorized to grant these leaves, two leaves of one and a half hours duration each, or one of two and one-half hours duration, may be allowed in lieu thereof. In regulating meal hours commanding officers will see that members obtain their meals as regularly every day as circumstances will permit. When necessary they may change the housewatchman for the purpose, always entering the change and the cause thereof on the company journal.

4th. In case of dangerous illness of the wife, child, parent, brother or sister of an officer or member, excises from duty for reasonable periods may be granted, and in case of death of any of the foregoing relatives of an officer or member, leaves of absence for a proper period may be granted, such leaves, however, not to exceed three days in duration.

II.—Special leaves of absence are such as may be granted (without pay) for the purpose of business or recreation, but no such leaves shall be granted for a period less than one-half day, nor for a fractional part of a day exceeding one-half day, and if for more than five days the application shall be forwarded to the Chief of Department for his action before being granted.

III.—Sick leaves of absence and excises from fire and other duties are such as may be granted to officers and members, on recommendation of either of the medical officers, being rendered necessary by physical disability.

1st. All such leaves shall be on half-pay, except in case of injury received or of serious sickness immediately (within twelve hours) incurred in the discharge of duty; in every case the recommendation of either of the medical officers shall state the cause of the disability and its nature, and in all cases where the same is permanent the medical officers shall make a full and detailed report to the Board.

2d. In the event of sudden sickness or accident, immediate report thereof shall be made by the officer or member to his commanding officer, who shall, if upon inquiry and investigation it may seem proper, issue a short leave of absence or excuse from fire duty in writing to such officer or member pending the granting of a leave upon the recommendation of either of the medical officers, who shall be notified of the occurrence without delay. Such notice shall state whether the case is urgent or otherwise, and whether the officer or member is able to report in person or not, and if not, where he can be found.

The medical officers shall, if necessary, recommend to the officer authorized to grant leaves of absence under Paragraph XI. of this order, a leave to his patient for an indefinite period, and the commanding officer shall grant such leave to terminate immediately on notice from either of the medical officers.

3d. In case no leave of absence or excuse from fire duty granted upon the recommendation of the medical officers, covering the period for which an officer or member reports sick, is subsequently received, or notice that no leave of absence or excuse from fire duty will be granted is received, such officer or member shall be accounted for, deemed to be and reported as absent without leave.

4th. All officers or members while on the sick list shall, so far as their medical treatment is concerned, obey the orders, directions and instructions of the medical officers, and shall remain in quarters unless the medical officers shall order otherwise during their illness, and the medical officers shall promptly report all violations of this rule to the Chief of Department, who, upon such report, shall cause proper charges to be preferred against the officer or member without delay.

5th. No officer or member while on sick leave shall dispense with any portion of the uniform as prescribed, when appearing on the streets, without special permission in writing from the Chief of Department.

IV.—All leaves of absence provided for in Paragraph I. of this order must be applied for to the officer authorized to grant them at least twenty-four hours before 8 A. M. of the day upon which the leave applied for is to begin, except in case of dangerous illness or death in family.

V.—Leaves of absence for purposes of recreation or business, as provided for in Paragraphs I. and II. of this order, shall not be granted for or during the same period to either the Chief or Assistant Chief of Department, nor any two chiefs of battalion assigned to duty at the same stations on first, second, and third alarms for fire, nor commanding officers of companies in the same battalion whose districts adjoin, nor both officers of the same company, nor both engineers of steamer of the same company, nor more than one-third of each grade of company officers or engineers of steamer in each battalion.

VI.—Leaves of absence shall be so regulated that there shall at all times be available for fire duty in each company not less than one officer, one engineer of steamer and a number of men sufficient to properly man and operate the apparatus.

VII.—Companies will be permitted to have one officer and one member absent on regular leaves at the same time, except those having an aggregate of ten officers and men or less, in which but one such leave, including officers and members, can be granted for or during the same period. But between the 5th of June and the 15th of September one additional regular leave may be granted to a member in such company.

VIII.—Extensions of special leave of absence shall not be granted without the approval of the Board or the President, and regular leaves of absence cannot be extended under any circumstances.

IX.—If from any cause, such as accidents or sudden illness of any officer or member, or other extraordinary circumstances beyond the control of any officer who is herein made responsible for the observance of these conditions, it should at any time become impracticable to enforce them, it is hereby made the duty of such officer to make immediate report of the circumstances to his next superior officer, who shall, if it be practicable, make all necessary details of officers, engineers of steamer or other members from one organization to another, and in the event of his inability to do so he shall at once report the same to the Chief of Department, who shall make the necessary details for the purpose.

X.—Battalion and company commanders will note upon the back of their respective morning reports the names of all officers and members to whom leaves have been granted for any portion of the twenty-four hours, beginning at 8 A. M. of the day on which the report is made, and in case it shall be necessary to grant any leave after the morning report has been forwarded, it shall be noted on the back of the morning report of the following day. The duration of such leave and if granted without pay shall be stated, and the Chief of Department shall note upon the back of his consolidated morning report the number of officers and members respectively in each battalion to whom such leaves have been granted.

XI.—Leave of absence shall be granted:

To the Chief of Department by the Board or the President.

To the Assistant Chief of Department and the chiefs of battalion by the Chief of Department.

To the company officers by the chiefs of battalion.

To all other members by the company commanders.

To heads of bureaus, clerks, etc., by the Board or the President.

XII.—Any officer or member who may while on leave of absence and before its expiration return to quarters and report himself present for duty to the officer in command (which in the case of sick leaves must not be done without the sanction of the medical officers), shall be deemed to

have abandoned the unexpired portion of such leave of absence and shall be regarded as present for duty.

XIII.—All officers and members will be held responsible for any disorderly, disgraceful or unlawful conduct while on leave of absence, whether they are in uniform or not.

XIV.—Upon the return to duty of commanding officers of any grade from leaves of absence, detailed or detached service, of more than twenty-four hours duration, they shall report such return to the next superior in command at the time they resume their duties, in person, or if that be impracticable, by telegraph, messenger or otherwise.

XV.—Upon the back of the reports of operations at fires the company commanders will record the number of officers and members accompanying the apparatus when leaving quarters, the number on duty at the fire or station, and the names of the absentees in each case, with the cause and period of absence.

XVI.—On all leaves of absence, except those granted for the purpose of getting meals, and on sick leaves, the uniform need not be worn.

XVII.—All deductions of pay incurred under the operations of this order will be made by the proper officers upon the monthly pay-roll.

XVIII.—Officers and members absent on leaves granted under the provisions of section 3 of Paragraph I of this order, will, upon learning of an alarm for fire proceeding from a station at which they are assigned to duty, immediately report to their proper commanding officer for duty.

XIX.—No member of the uniformed force, head of bureau, clerk, or other employee of the Department can excuse himself from duty; absence without leave shall be cause for dismissal from the service or such other penalty as the Board may inflict.

(General Orders No. 20.)

#### CHARGES AND SPECIFICATIONS.

I.—The following rules will be observed in making complaints of violations of law, ordinances, rules, regulations, orders, and directions, on the part of officers and members:

1. They will generally be preferred by the immediate commanding officer of the officer or member accused, but may also be preferred by one member against another, or in extraordinary cases, when an officer fails to prefer a proper charge, by a subordinate against a superior officer.

2. The officer first receiving a charge must first carefully examine it to see that it is drawn in proper form, and if necessary cause it to be corrected, then investigate the circumstances upon which it is founded, and finally forward it to his next superior in command, with his opinion and approval or disapproval indorsed thereon. Where the accuser and accused belong to different companies, in the same battalion, the investigation shall be made by the Chief of Battalion, and where they belong to different battalions, by the Chief of Department. They will always be promptly forwarded through the regular channels of communication to the Board, each officer in turn indorsing his opinion and approval or disapproval thereon. They shall not under any circumstances be withheld or suppressed by any officer.

3. Charges may be drawn as a violation or transgression of law, ordinance, rule, regulation or order, general, special, or verbal, stating carefully and particularly what rule, etc., has been violated, or "disobedience of orders," "absence without leave," "under the influence of liquor," "neglect of duty," "disrespect to superior officers," "conduct unbecoming an officer and a gentleman," "conduct prejudicial to good order or discipline," etc. If more than one charge is made they shall be numbered *charge 1st, charge 2d, etc.* If there be more than one specification to each charge they shall be numbered *specification 1st, specification 2d, specification 3d, etc.* The person making a charge must sign his name and grade, and must affix the names, grade, etc., of all witnesses.

#### FORM I.

CHARGE AND SPECIFICATION REFERRED AGAINST FIREMAN JOHN DOE, ENGINE COMPANY NO. 90.

*Charge*—Absence without leave.

*Specification*—That Fireman John Doe, of Engine Company No. 90, was absent from his company, without permission from proper authority, for fifteen minutes; this between 12 o'clock M. and 12:15 o'clock P. M. on the 10th day of August, 1881, at the quarters of Engine Company No. 90, No. 155 Mercer street.

JOHN DRYDEN,

Foreman Engine Company No. 90.

*Witnesses:*

Assistant Foreman Darius A. Livingston, Engine Company No. 90.

Fireman Karl Cline, Engine Company No. 90.

Denis O'Malley, No. 499 East Seventeenth street.

#### FORM 2.

CHARGES AND SPECIFICATIONS REFERRED AGAINST PRIVATE RICHARD ROE OF HOOK AND LADDER COMPANY NO. 30.

*Charge 1*—Under the influence of liquor.

*Specification 1*—That Private Richard Roe of Hook and Ladder Company No. 30 was so much under the influence of an intoxicating beverage, drug or compound as to be unable to discharge his duty in a proper manner; this between the hours of 1 and 2 o'clock P. M., on the 10th day of August, 1881, at the quarters of Hook and Ladder Company No. 30, No. 357 Mercer street.

*Witnesses:*

Fireman Mortimer Brockholst, Hook and Ladder Company No. 27.

Private Phelim O'Dowd, Engine Co. No. 57.

*Specification 2*—That Private Richard Roe of Hook and Ladder Company No. 30 was so much under the influence of an intoxicating beverage, drug or compound as to be unable to act as tillerman of the apparatus at the alarm for fire, signal station 238; this at 3:45 o'clock P. M., August 10, 1881, at the quarters of Hook and Ladder Company No. 30, at No. 357 Mercer street.

*Witness:*

Private Collin McKenzie, Hook and Ladder Company No. 30.

*Charge 2*—Disobedience of Orders.

*Specification 1*—That Private Richard Roe of Hook and Ladder Company No. 30, having been ordered by his commanding officer, Foreman Edgar A. Poe of Hook and Ladder Company No. 30, to exercise the horses, did willfully neglect and refuse to obey said order, and did reply in words to wit: "I will not do it," or words to that effect; this at 1:30 o'clock P. M., August 10, 1881, at the quarters of Hook and Ladder Company No. 30, at No. 357 Mercer street.

*Witness:*

Private Samuel Primrose, Hook and Ladder Co. No. 30.

*Specification 2*—That Private Richard Roe of Hook and Ladder Company No. 30, having been ordered by his commanding officer, Assistant Foreman Robin Adair of Hook and Ladder Company No. 30, to assist in replacing ladders on the truck, did willfully refuse to obey said order, and did reply: "Wait awhile; I will return in a few minutes," or words to that effect; this at a fire, signal station 238, at 4 o'clock P. M., August 10, 1881.

EDGAR A. POE,

Foreman Hook and Ladder Co. No. 30.

*Witness:*

Private Dietrich Ochslager, Hook and Ladder Company No. 30.

4. The accused shall have at least twenty-four hours' notice of his trial; and all such notices must be served by officers as soon as received.

5. When notices of trial are received, it shall be the duty of the immediate commanding officer to forthwith serve a copy of the charges upon the accused.

II.—An officer or member of the Department who, when called upon to testify on the trial of charges, may withhold testimony to shield the accused, shall have charges preferred against him.

III.—Any officer who shall fail to promptly prefer charges as the rules require, or who shall fail to produce proper evidence to convict on charges preferred by him, shall have charges preferred against him.

(General Orders No. 14.)

#### PAY-ROLLS.

I.—Pay-rolls will hereafter be made and forwarded to headquarters on the morning of the 26th day of each month, except when that day falls on either a Sunday or a legal holiday, when they shall be forwarded on the 25th. This applies to all pay-rolls except those of the Repair Shops and Extra Telegraph Force, which will, as heretofore, be made out and forwarded on the last day of each month.

II.—All deductions from pay of which notice is received after the pay-rolls are forwarded as required in the foregoing paragraph, will be recorded upon the pay-rolls of the next succeeding month.

III.—In cases of unauthorized absence continuing until after roll-call on the morning of the last day of the month, or of resignation, discharge, dismissal, or death, at any time after the forwarding of the pay-rolls and before the first day of the succeeding month, immediate notice shall be given thereof, by telegraph or otherwise, in order that the pay-rolls may be properly corrected.

IV.—For every absence without leave occurring in the uniformed force the commanding officer shall deduct upon the pay-roll one day's pay for every day of absence or fractional part thereof exceeding more than one-half of a day, and if it be less than one-half day's absence, one-half day's pay, such deductions to be made without reference to the penalty which may be imposed upon trial.

V.—The Chief of Department will cause the immediate examination and comparison of the pay-rolls with the rolls and other records of his office, and will forward the same on the morning of the day after their receipt by him, together with a statement showing all transfers, appointments, promotions, dismissals, resignations, retirements, reliefs from fire duty, deaths, fines, deductions of

pay on extraordinary leaves of absence or leaves of absence or excuses from fire duty granted on recommendation of the Medical Officer, and all absences without leave, with dates, occurring since the pay-rolls of the last preceding month were received by him.

VI.—The Bookkeeper shall examine all pay-rolls as to the correctness of the rate of pay, extensions, deductions, and additions, and in all cases where officers or members have left the service of the Department, he shall obtain from the Property Record Clerk a certificate showing that the officer or member has, or has not (as the case may be), properly turned over all public property for which he is accountable, which certificate shall be attached to the appropriate pay-roll, and in case it shall show that the officer or member is in arrears for any public property, his name shall be stricken from the pay-roll and his pay shall be withheld until he shall have satisfactorily accounted for the deficiency. The Bookkeeper shall, when the pay-rolls are found to be correct, so certify by placing his initials upon them, and present them for certification by the Commissioners on the morning of the last day of the month.

VII.—All officers will be held to strict accountability for the observance of the foregoing rules, as well as for the accuracy of the pay-rolls, which must be legibly and neatly written; and they will be liable to complaint if, upon examination, it appears that the pay-rolls are inaccurately or negligently prepared.

(General Orders No. 9.)

#### IN RELATION TO THE PUBLIC PROPERTY IN THE DEPARTMENT.

To regulate the uses of and insure proper accountability for the public property of this Department, the following rules, adopted by the Board of Commissioners, hereby promulgated, will be observed:

#### ARTICLE I.

##### RESPONSIBILITY FOR PUBLIC PROPERTY.

I.—The attention of all officers and employees is particularly directed to the fact that, under the system herein prescribed, they are individually liable and responsible for the property intrusted to their care and issued to them for Department uses; that it is indispensably necessary, as well to insure their own security as a correct accountability for the Department property, that they do not part with any property for which they are responsible without directions from competent authority and the exchange of the papers herein prescribed; and that these forms must in all cases and at all times be rigidly observed, except when the performance of fire or other imperative duty prevents, in which case the business should be attended to at the earliest practicable time thereafter.

II.—Officers and employees are responsible and accountable for the public property in this Department, as follows:

The Secretary of the Board for all office furniture, fixtures, books, etc., in the offices of the Board, and elsewhere in the Headquarters building which are not properly accounted for by heads of bureaus and others.

The Chief of Department for all office furniture, fixtures, books, etc., in the office of his bureau, and for all horses, harness and wagons in his possession, or which may be or come into his possession or use hereafter.

The Assistant Chief of Department, as Chief of the Corps of Sappers and Miners, for all instruments, implements, materials, etc., used for or by that corps, and for such other property as may come into or be in his possession or use.

The Chiefs of Battalion for all apparatus, horses, implements, etc., in their possession or use, or in use by the uniformed force in their respective battalions which are not accounted for or used exclusively by any of the companies belonging to their battalions.

The Company Commanders for all apparatus, horses, implements, tools, supplies, furniture, etc., in their possession or in use by their companies in their respective quarters.

The Inspector of Combustibles for all office furniture and fixtures, books, etc., in the office of his bureau, and which may be in his use or possession elsewhere.

The Fire Marshal for all office furniture and fixtures, books, etc., in the office of his bureau, and which may be in his use or possession elsewhere.

The Inspector of Buildings for all office furniture and fixtures, books, etc., in the office of his bureau or pertaining thereto, and for all horses, harness and wagons in his possession or use, and which may be in his use or possession elsewhere.

The Attorney to the Department for all office furniture and fixtures, books, etc., in his possession or use elsewhere.

The Superintendent of Telegraph for all office furniture and fixtures, instruments, poles, wires, horses, wagons, books, supplies, etc., in the telegraph office, the battery-room, the store-room, the bell-towers (excepting Spring street and Jefferson market), on the various telegraph lines, or which may be in his possession or use by or for the fire alarm telegraph elsewhere.

The Medical Officer for all office furniture and fixtures, instruments, books, etc., in his office or in his possession or use elsewhere.

The Chief of Battalion in charge of the Repair Shops for all machinery, tools, materials, horses, harness and wagons, supplies, etc., in the Repair Shops, or in his use or possession elsewhere.

The Superintendent of Horses for all books, horses, harness, wagons, supplies, medicines, etc., at the Hospital Stables, or in his possession or use elsewhere, and for all horses, wagons, etc., not in use or accounted for by any of the officers herein enumerated.

The Superintendent of Repairs to Buildings for all books, tools, implements, materials, supplies, horses, wagons, etc., which may be in his use, possession or control.

The Bookkeeper for all office furniture, books, etc., in his office, or in his possession or use, not accounted for by the Property Record Clerk.

The Property Record Clerk for the books, buttons, keys, and devices, etc., in his possession, as well as for all articles and materials condemned and turned over to him under the provisions of this order.

The Supply Clerk for all books, articles, supplies, materials, etc., in the store-room, or in his care, possession or use elsewhere.

#### ARTICLE II.

##### ANNUAL INVENTORIES.

I.—On the 31st day of December of each year every head of bureau, superintendent, officer or employee having in his use or possession any public property, shall make an accurate and minute inventory of such property, without reference to the property returns, and the same shall be subscribed and sworn to before a notary public, in the manner following:

I, ....., being duly sworn, do depose and say that the foregoing inventory is an accurate and minute list of all public property pertaining to the Fire Department, in use by me, or in my possession, or under my control, on the 31st day of December, 18..

Subscribed and sworn to before me, {  
this ....., day of ....., 18.. }

Notary Public.

II.—These inventories shall be carefully verified by actual count and inspection, as follows:

Those of the companies, by their respective chiefs of battalion.

Those of the chiefs of battalion, by the Assistant Chief of Department.

Those of the heads of bureaus, superintendents and other officers and employees, by the Property Record Clerk.

The verification shall be in the following form, and shall be indorsed upon the inventories:

I, ....., being duly sworn, do depose and say that I have this day carefully inspected the public property in use by, or in the possession, or under the control of ....., and verified the within inventory thereby, and find the same to be correct and accurate except in the following particulars:

Subscribed and sworn to before me, {  
this ....., day of ....., 18.. }

Notary Public.

III.—The inventories shall be made in duplicate (the articles being enumerated in the same order as in the property returns), the original forwarded to the Board on or before the fifteenth day of January next following, the copy to be retained.

IV.—The "CITY RECORD," printed orders, and circulars, compilation of laws, annual reports, and such other printed matter as may be furnished, must be kept on file and taken up in the inventories.

V.—Blank books issued for use as company journals shall be invoiced and accounted for as "blank journals" until their use is commenced, when they shall be expended as such and taken up as company journals; and all company journals now in possession of the several companies shall be numbered consecutively and so marked, and be taken up on the next inventory and return, and each company journal shall hereafter, as it is put in use, be likewise numbered and marked.

#### ARTICLE III.

##### PROPERTY RETURNS.

I.—For the quarters ending, respectively, on the last day of March, June, September, and December in each year, the officers, employees, etc., enumerated in Article I. of this order shall account for the property in their possession upon a property return (Form 1) which shall be made out in duplicate as hereinafter prescribed, one copy to be retained and the other to be forwarded to the Property Record Clerk on or before the fifth day after the expiration of each quarter, except that the return for the quarter ending on December 31 shall be forwarded simultaneously with the annual

inventory. The returns of the company commanders shall be examined and verified by inspection by the battalion commanders, and be indorsed by them with a statement that this requirement has been complied with.

II.—All the returns, papers, etc., relating to the rendition of the property returns shall be forwarded through the proper channels of communication, except as herein otherwise expressly directed.

III.—The property returns (Form 1) shall be made as follows:

The first entry, entitled "on hand at the last return," must correspond to the last entry in the last return, entitled "on hand on" (inserting the date).

The second entry, entitled "received since last return," must correspond to the articles received, manufactured, or taken up during the period for which the return is made, as shown by the accompanying invoices of such articles, which shall be the vouchers therefor.

The third entry, entitled "total to be accounted for," will be the sum of the first and second entries added together.

The fourth entry, entitled "expended, issued, transferred, condemned, and turned over, sold, and lost or destroyed," must correspond to the articles which have passed out of the possession of the officer making the return in either of the ways following:

1st. By expenditure in the manner prescribed in Article VI. of this order, on Form 4.

2d. By issue upon requisition (Form 2), for which the voucher shall be the requisition properly approved and receipted.

3d. By transfer upon the order of the proper officer, for which the voucher shall be the order directing the transfer with a receipt on Form 6 attached.

4th. By turning over to the Property Record Clerk after being inspected and condemned (as prescribed in Article IX. of this order), for which the voucher shall be the certificate of inspection, Form 5, made by the proper officer, and the Property Record Clerk's receipt therefor attached.

The fifth entry will be the amount remaining after deducting the quantities in the fourth entry from those in the third entry, and must correspond to the quantities on hand on the last day of the quarter.

#### Property on Hand not Previously Accounted for.

IV.—All public property found to be in use by or in the possession or under the control of heads of bureaus, superintendents, officers or employees on December 31 of each year, which was not upon their property return for the quarter ending on the 30th day of September last preceding, or which was not received and invoiced to them since that date, will be taken up on such returns under the head of "received since last return," and the voucher therefor shall be a list of such property sworn to as follows:

I, ....., being duly sworn, depose and say that the articles enumerated in this list comprise all the public property that was found to be in my possession or use or under my control, on December 31, 18...., not accounted for on my property return for the quarter ending on September 30 of this year, or received by and invoiced to me since that date.

Subscribed and sworn to before me  
this ..... day  
of ..... 18....

Notary Public.

#### Fire Engines and Horses.

V.—All fire engines will be accounted for by the manufacturer's name and registered number on the property returns, and all horses by the registered numbers prescribed in Paragraph IV. of Article XIII. of this order, and they will be so specified in case of issue, transfer, etc., upon the proper papers.

#### Stationery, etc.

VI.—All stationery, blank forms, and blank books will be received by, accounted for, and issued by the Supply Clerk.

#### Final Return in Case of Transfer, etc.

VII.—In case an officer accountable for public property vacates the position held by him, either by transfer, promotion, reduction, resignation, discharge, dismissal, or by being relieved from fire service or by retirement, he shall make a final property return to the date of his leaving in the same manner as is prescribed for the regular quarter-yearly property returns in this article, which return is also to be verified in the same manner and to be indorsed with a receipt in the following form, signed by his successor in office or by the officer to whom he may be directed to make the transfer of his property:

Received of ....., the property enumerated in the fifth entry of this return.

A copy of this return shall be at once forwarded to the Property Record Clerk, who shall immediately examine it, and issue the required notice or certificate as provided in Article XI. of this order.

The officer receiving the property shall immediately take the same up on a form of property return in the first entry, completing the return at the end of the quarter.

In the event of the death of an officer responsible for public property, the return required by the preceding paragraph shall be made by his successor and verified as in the case of transfer, etc., and the Property Record Clerk shall examine it, and if there be any deficiencies immediately report them to the Board.

#### ARTICLE IV.

##### REQUISITIONS.

I.—All articles, materials, and supplies required by any of the officers or employees of the Department responsible for public property shall be called for by them on requisition (Form 2) made and forwarded in duplicate to the office of the Board, through intermediate officers, with their approval or disapproval indorsed thereon, and the same shall, if approved by the Chairman of the appropriate Committee, be referred to the Supply Clerk for issue.

In case the articles called for are in the possession of other officers of the Department, the Supply Clerk shall issue his order therefor upon the proper officer, who shall take a receipt for the articles at the time of their issue.

#### Quarterly Requisitions.

II.—For all articles of supply specified in the subjoined list and used by the companies of the uniformed force and others, requisition shall be made quarter-yearly (enumerating the articles in the same order) and be forwarded on the first Monday of January, April, July, and October. The maximum allowance for engine and hook and ladder companies, respectively, is noted in this list. Commanding officers of companies will, when practicable, call for smaller quantities.

	Maximum allowance per quarter, except where otherwise stated.	Engine Co.	Hook and Ladder Co.
Egg coal, tons per annum.....	20	20	20
Stove coal, tons per annum.....	12	12	12
Wood, cords per annum.....	*	*	1/2
Hay, lbs. per horse.....	1,200	1,200	1,200
Straw, lbs. per horse.....	100	100	100
Oats, bags per horse.....	9	9	9
Fine feed, bags per horse.....	6	6	6
Foolscap paper, quires.....	3	3	3
Letter paper, quires.....	3	3	3
Note paper, quires.....	3	3	3
Official envelopes, number.....	50	50	50
Letter envelopes, number.....	50	50	50
Black ink, bottles.....	1	1	1
Red ink, bottles.....	1	1	1
Mucilage, bottles.....	1	1	1
Blotters, number.....	24	24	24
Steel pens, dozens.....	2	2	2
Lead pencils, number.....	3	3	3
Cotton waste, lbs.....	30	20	20
Rotten stone, lbs.....	10	5	5
Oil meal, lbs. per horse.....	5	5	5
Salt, qts. per horse.....	4	4	4
Stove polish, papers per annum.....	4	4	4
Sponges, number.....	6	5	5
Emery cloth, sheets.....	48	24	24
Axle grease, boxes.....	1	1	1
Matches, doz. boxes.....	3	3	3
Common soap, lbs.....	20	20	20
Castile soap, bars per horse.....	1/2	1/2	1/2
Kerosene wicks, dozen.....	1	1	1
Kerosene oil, gallons.....	5	5	5
Lubricating oil, gallons.....	3	1	1
Neatsfoot oil, pints.....	2	2	2

\* As much as may be necessary.

#### Special Requisitions.

III.—All other articles which are not enumerated in the preceding paragraph must be called for on separate special requisitions whenever required.

IV.—In case the maximum allowance of the articles enumerated in Paragraph II. of this article should prove insufficient, the additional quantities required shall be called for on a separate special requisition whenever they may become necessary, and the circumstances rendering the same necessary must be stated upon the requisition or in a communication attached thereto. These requisitions must not be made at the same time that the quarterly requisitions are called for.

V.—All special requisitions must be so indorsed on the outside and be in duplicate.

VI.—Separate special requisitions will also be made on or before the 15th day of each month for the quantity of gas and horseshoeing required for the next month.

#### ARTICLE V.

##### INVOICES.

I.—For all articles issued a receipt shall be given upon the original requisition by the officer receiving them, and as promptly as practicable, but on or before the expiration of the quarter, the duplicate, corrected to conform to the receipted requisition, shall be transmitted to the officer receiving the articles issued as an invoice.

#### Articles Manufactured, etc.

II.—Articles, such as apparatus, implements, tools, etc., manufactured in the Repair Shops or elsewhere within the Department, must be taken up on the property return of the officer under whose direction they were made, in the second entry as per an "invoice of articles manufactured" (Form 3), to accompany the return, specifying the number of each particular kind of article so manufactured, and certified to as follows:

I certify on honor that this invoice contains all the articles manufactured in the ..... during the quarter ending.....

III.—Parts of apparatus, implements, etc., which may be replaced by new ones in making repairs and remnants of materials used in manufacturing and repairing which cannot advantageously be used for any purpose in the Department, shall be taken up in the second entry of the return of the officer making the articles or repairs and a special invoice, enumerating such parts of apparatus or implements or remnants of materials, shall be the voucher therefor which invoice shall be certified to as follows:

I hereby certify on honor that this invoice includes all the articles received by being replaced in making repairs and all remnants of materials used in manufacturing or repairing, during the quarter ending.....

#### Receipts Without Invoice.

IV.—In case any articles are received by any officer of the Department without the proper invoices as prescribed in this article, it is hereby made the duty of such officer to make immediate report thereof to the Board.

#### ARTICLE VI.

##### EXPENDITURES.

I.—All articles enumerated in paragraph II. of Article IV. of this order, and also all other articles, such as Cannel or Cumberland coal, blank forms, stationery, fire-extinguisher charges, chemicals, etc., etc., which have been totally consumed in the service and for Department purposes, are to be accounted for as expended, upon a certificate of expenditure (Form 4). All the articles comprised in the following list, when worn out by use, so as to be unfit for their original purposes, are to be accounted for as expended, upon a separate certificate of expenditure, which must be certified by the inspecting officer at the time of the verification of the property returns, as follows:

I hereby certify that I have this ..... day of ..... 18...., inspected the articles enumerated in this certificate, and that the same appear to have been worn out in the service of the Department, and I therefore approve the expenditure.

Bedding,	Horse blankets,	Feather dusters,
Brushes (all kinds),	Horse sheets,	Dust pans,
Curry combs,	Whips,	Stove pokers,
Stove shovels,	Butt straps,	Coal hods,
Stable brooms,	Ladder straps,	Cans,
House brooms,	Sieves,	Towel rollers,
Whisk brooms,	Oak buckets,	Door mats,
Mop yarns,	Four-quart measures,	Spittoons,
Mop sticks,	Two-bushel baskets,	Ash kettles,
Face toweling,	Handles,	Drinking cups.
Chamois skins,		

The remnants of the articles above enumerated may be utilized for other purposes, or if unfit for any further use they may be otherwise disposed of.

#### Expenditure in Manufacturing, etc.

II.—Articles, materials, etc., used in the manufacture of apparatus, implements, tools, harness, etc., or in making repairs thereto or to buildings, etc., must be expended upon a separate certificate of expenditure (Form 4), to be entitled "certificate of expenditure in manufacturing and repairing," enumerating first the articles, etc., expended in manufacturing, and second those expended in making repairs.

The "receipt for repairs" (Form 9) shall accompany the return of the officer making the repairs as a sub-voucher to the "certificate of expenditure of articles used in repairing" (Form 4).

III.—Telegraph poles, which in the opinion of the Superintendent of Telegraph are valueless for telegraph purposes when taken down, may be expended by him on a separate certificate of expenditure and sent to the nearest engine company, where they shall be used for firewood.

#### ARTICLE VII.

##### ISSUES.

I.—The issue of supplies, etc., upon the regular quarter-yearly requisition prescribed in paragraph II., Article IV. of this order, shall begin on the third Monday of the months of January, April, July, and October, and the supplies shall be delivered by a wagon to be furnished by the officer in charge of the repair shops for that purpose.

#### ARTICLE VIII.

##### TRANSFERS OF PROPERTY.

I.—Transfers of property (except condemned property), from one officer in the Department to another, shall be made only upon the following authority:

In the uniformed force, by the Chief of Department, subject to the provision that, except in emergencies, he shall not order the transfer of horses without the recommendation of the Superintendent of Horses addressed to him in writing which may be sent to him direct. Horse-collars shall always be transferred with the horses and in case of death the collar shall be turned in to the Superintendent of Horses.

In all other parts of the Department, by the Board.

And in all cases of transfer invoices and receipts shall be exchanged, and the same shall accompany the property returns.

#### ARTICLE IX.

##### CONDEMNED PROPERTY.

I.—At the time of the verification of the property returns, as prescribed in paragraph I., Article III. of this order, if any property on hand (except articles which under preceding provisions of this order can be expended) is found entirely unfit for further use in the Department or if it cannot advantageously be repaired, the officer making the inspection shall give to the officer responsible for the property a "certificate of inspection" (Form 5) specifying the articles unfit for use and directing that they be turned over to the Property Record Clerk. The property thus inspected and condemned shall at the time of the delivery of the supplies provided for, be turned in to the Property Record Clerk with the certificate of inspection and upon verifying the same with the condemned property received, the Property Record Clerk shall send to the officer turning over the property a "receipt" for the same on Form 6. Condemned articles which are too bulky for transportation in the manner herein prescribed will be specially sent for.

II.—Any property which may be found to be of no further use where it may be located, but which, in the opinion of the inspecting officer, may be of use in other companies or branches of the Department, must not be condemned, but if in the uniformed force, it must be reported by the inspecting officer to the Chief of Department and in all other cases to the Board, with recommendations for its disposition.

III.—Horses shall be condemned only on the report and recommendation of the Superintendent of Horses and after inspection by the Commissioners or upon their order, and if not already in the possession of the Superintendent of Horses, they shall be turned over to him at once, with their collars, and be sold without delay in the manner prescribed by law.

IV.—For heads of bureaus and all others responsible for property, except in the uniformed force, the Property Record Clerk shall, when requested to do so, make the inspection called for in paragraph I. of this article, and for all, except the company commanders, in the uniformed force the Assistant Chief of Department shall be the inspecting officer.

V.—All condemned property turned over to the Property Record Clerk shall be inspected by him after its receipt, and if any shall be found fit for use in any branch of the Department, he shall report the same (specifying from whom it was received) to the Board, for such disposition as it may order. The articles thus received by the Property Record Clerk shall be accounted for by him upon a special property return of condemned articles, in the manner hereinbefore prescribed for property returns, and the same shall be examined by the Bookkeeper, and all deficiencies shall be by him reported to the Board.

#### Sale of Condemned Property.

VI.—The Property Record Clerk shall then immediately prepare a list of the articles entirely unfit for further use in the Department, and upon his report of the same to the Board, such articles shall be sold without delay in the manner prescribed by law.

VII.—Condemned horses and other property thus sold shall be accounted for in the fourth entry of the property return of the Superintendent of Horses and Property Record Clerk respectively, the voucher therefor being a certificate from the Treasurer of the Board that the same have been sold and that the proceeds of the sale have been turned over to the City Chamberlain.

#### ARTICLE X.

##### DEFICIENCIES.

I.—All public property accounted for on property returns for the quarter ending on September 30, which at the time of making the inventory on December 31 as required by Article II. of this order, cannot be found or be otherwise properly accounted for under the rules herein prescribed, shall be accounted for on the property return for the quarter ending on December 31, under the head of "deficiency," and the voucher for such entry shall be a statement showing as nearly as may be practicable the circumstances, time and place of the loss or destruction of the property enumerated in such statement; and the same shall be sworn to before a notary public in the manner following:

I, ..... being duly sworn, do depose and say that the foregoing statement is true and correct.  
Subscribed to and sworn before }  
me this ..... day }  
of ..... 18..... }

Notary Public.

#### ARTICLE XI.

##### EXAMINATION AND COMPILATION OF RETURNS.

I.—The returns when received shall without delay be examined by the Property Record Clerk and if found correct he shall send to the officer making the return a certificate to that effect (provided that if an officer leaves the service the certificate shall not be issued until he has returned the telegraph keys issued to him), and if found incorrect he shall send back the return for correction without delay. In case the returns are not promptly received or re-forwarded when sent back for correction, or in case of any deficiency or any extraordinary entry therein, he shall promptly report the same to the Board in writing. When corrections are made care must be taken to correct the retained copy also.

II.—The Property Record Clerk shall immediately upon the completion of the examination of the returns compile the same (except the part accounting for blank forms) in the Consolidated Property Return Book, and report the completion of the compilation to the Board.

##### Schedule of Property Lost or Destroyed.

III.—The Property Record Clerk shall upon the completion of the examination of the returns prepare a schedule of all articles reported therein as lost or destroyed and forward the same to the Board, together with the affidavits pertaining to the same, for approval or disapproval.

##### Arrears.

IV.—An officer reported as in arrears, either in the matter of the rendition of the returns or of deficiencies therein, shall have his pay then due withheld until the returns are correctly rendered. And the cost value of all articles which cannot be accounted for in accordance with the provisions of this order shall be deducted from the pay which may then be due or which may become due, to such officer.

#### ARTICLE XII.

##### REPAIRS.

I.—Repairs shall be called for on an "order for repairs" (Form 8), on which shall be specified the article requiring repairs and the nature of the repairs required, and which shall be approved by the intermediate officers and the Chairman of the appropriate committee. Upon the completion of the repairs, a receipt for the articles so repaired (Form 9), specifying that they have been received and properly repaired, and signed by the officer receiving the same, shall be given to the officer under whose direction the repairs were made.

II.—If in making repairs to ladders the length is reduced, the change must be made upon the property returns, and a certificate stating the circumstances of the alteration must accompany the return. This provision also applies to other articles the description of which upon the property returns may be changed.

#### ARTICLE XIII.

##### EXPENDITURE OF MONEY.

##### Purchase of Materials and Supplies.

I.—In case articles called for on requisition are not on hand in the Department the Supply Clerk shall make requisition therefor, with an estimate of their cost in detail, and forward the same to the Board through the Chairman of the appropriate committee, who shall indorse his recommendation thereon. If the purchase of the articles is ordered the requisition shall be referred back to the Supply Clerk for that purpose, or if it be necessary to obtain them under contract based upon proposals and advertisements, the requisition shall be referred to the Secretary for preparation of form of contract and advertisement.

##### Bills.

II.—All articles, materials, and supplies obtained by purchase under contract or otherwise for this Department, shall in all cases be accompanied by bills in triplicate at the time of their delivery, and if found to be in good condition and in accordance with the bills, they shall be certified to by the officer receiving the articles, as follows:

##### FIRE DEPARTMENT, City of New York.

The articles named in this bill of ..... 18.....  
amounting to \$..... have been received in good order and condition, are correct as to weight, measure and count, and are for the exclusive use of this Department.

When so certified, the bills shall be immediately transmitted to the Supply Clerk (unless the Supply Clerk is himself the receiving officer), who shall, if the prices are found to be correct and as per his estimate, certify to them as follows:

##### FIRE DEPARTMENT, City of New York.

I hereby certify that the prices herein charged for the articles enumerated in this bill of ..... 18.....  
amounting to \$..... are correct, reasonable, and just; and that the purchase of the same was duly authorized (as per requisition, contract, or resolution), dated ..... 18.....

##### Supply Clerk.

III.—The bills shall thereupon be transmitted by the Supply Clerk to the Bookkeeper, who shall examine the same as to their correctness of extension, etc., compare them with the requisition, contract, or resolution, and prepare the original for audit by the Board; and when the same shall have been audited, the Bookkeeper shall file the duplicate in the invoice book, and turn over the triplicate to the Property Record Clerk, who shall thereupon, by attaching the same to a form of invoice (Form 3), invoice the articles to the Supply Clerk or other proper officer, who may have received the same for use or issue.

##### Horses.

IV.—In the purchase of horses the following rules shall be observed: The requisition for the purchase shall be made upon the Board by the Superintendent of Horses, accompanied with a statement showing the necessity for the purchase, and if the horses are intended to replace others, what became of such other horses, and an estimate of cost. He shall, if the Board so orders, select the horses for inspection by the Commissioners, and if they are deemed satisfactory for the purpose they shall be placed on trial for thirty days with the company or person requiring them.

Upon receipt of a report that horses are suitable and satisfactory the Supply Clerk may then be directed by the Board to purchase, and the bills therefor shall be rendered, certified to and audited, and the horses shall be invoiced to the Superintendent of Horses as provided in this order for other public property. When a horse is ordered to be purchased, the Property Record Clerk shall be notified thereof, and he shall at once assign to such horse the number next highest to that last used and shall mark the horse with that number in the manner prescribed in the next paragraph, and

in his certificate of receipt for the horse, the Superintendent of Horses shall designate the horse by that number.

V.—All the horses belonging to the Department shall have a registered number, commencing with number one, which shall be stamped upon one side of a metal seal fastening together the ends of a leather strap encircling the neck of the horse just behind the head, sufficiently loose to permit of grooming. The letters F. D. N. Y. shall be stamped on the other side of the seals, and they shall be put on by the Property Record Clerk, who shall keep a register of the number of each horse, its location and the officer responsible for it.

The sealing instruments, seals and straps shall be in the custody of the Property Record Clerk, who shall see to it that none of the numbers once used are ever duplicated.

In the event of a horse losing its seal in any manner, or if it should become worn out or illegible, or if the strap should be broken or worn out, the officer accountable for the horse shall at once make a report thereof to the Board in writing, stating the circumstances of the occurrence in detail.

In cases of death or sale, the seals shall be turned in to the Property Record Clerk, who shall make the proper record thereof upon a book provided for that purpose.

Lost seals and straps and those turned in to the Property Record Clerk shall be expended by him.

##### Horseshoeing.

VI.—All bills for horseshoeing shall state specifically the registered number of each horse shod and the date when the work was done. In cases where horses are on trial or hired (having no registered number) that fact will be stated. The bills must be rendered monthly in duplicate, dated the last day of the month in which the work was done, certified "correct" over the signature of the officer having charge of the horse, and be forwarded promptly on the first day of the next month.

##### Fuel.

VII.—All fuel furnished to the Department shall be of the following standard:

Anthracite coal of the best quality Pittston, Scranton, or Lackawanna Valley, well screened, and free from slate.

Bituminous coal, of the best quality of Cumberland, or of such quality of Cannel as may be ordered.

Wood of the best quality Virginia pine, 128 cubic feet to the cord, cut twice.

All coal is to be weighed at the time and place of delivery under the supervision of an inspector designated for that purpose, upon scales provided by the Department.

Discrepancies in quality or quantity of coal or wood furnished will be promptly reported to the Supply Clerk, who will require the substitution of the standard article therefor and make immediate report to the Board of any failure on the part of the contractor to carry out the terms of the contract.

A receipt will be given to the contractor at the time of delivery, specifying the exact quantity of coal in pounds as weighed, and a copy to be marked "duplicate" will be immediately sent to the Supply Clerk. Both original and duplicate will be written in ink, plainly and without erasures, and will be indorsed across the face with the word "correct" and the signature of the inspector.

##### Repairs not made in the Department.

VIII.—In case repairs are called for on "an order for repairs" which cannot be made in the Department, the proper officers shall, under the direction of the appropriate committee, make requisition therefor with an estimate of the cost, which shall be forwarded to the Board through the chairman of such committee, who shall indorse his recommendation thereon.

##### Bills for Repairs.

IX.—If, upon such a recommendation, the Board orders the repairs to be made, the bill therefor shall be rendered in the manner provided for the rendition of bills in paragraph II. of this article (except that they shall be in duplicate), and if found to be correct they shall be certified to by the officer under whose directions such repairs have been made, in the form following:

##### FIRE DEPARTMENT—CITY OF NEW YORK, }

I hereby certify that the repairs and work charged for in this bill of ..... 18.....  
amounting to \$..... have been properly made as per the specifications or estimate therefor made by me under date of ..... that they were exclusively for the purposes of this Department, that the prices charged for such work and repairs are correct, reasonable, and just, and that they were duly authorized (upon requisition or contract or by resolution), under date of .....

Upon being so certified to these bills shall be transmitted to the Bookkeeper, who shall proceed therewith in the manner provided in paragraph III. of this article, omitting the action on the triplicate copy therein referred to.

##### Requisitions for Purchases or Repairs.

X.—No purchases shall be made, or repairs ordered, nor shall any liability for expenditure of any money appropriated for this Department be incurred by any one without the authority of the Board, or of the President upon the recommendation or with the sanction of one of the Commissioners, indorsed upon a requisition, made as prescribed in paragraph I. of this article, or by resolution of the Board.

Requisition upon which expenditures are authorized shall be numbered consecutively in a separate series for each year, and entered by the bookkeeper as liabilities in a book kept for that purpose, before they are referred for purchase, etc.; and when the directions indorsed thereon have been complied with, they shall be forthwith sent direct to the Bookkeeper.

##### Incidental Expenses.

XI.—Heads of Bureaus and others will make requisition for the amount required to defray the incidental expenses of their offices for each month on or before the 15th day of the next preceding month.

#### ARTICLE XIV.

##### MISCELLANEOUS.

I.—All forms referred to in this order are of the series entitled "Property Returns and Accounts."

II.—Violations of the rules herein prescribed or neglect to comply with their requirements, are punishable in the same manner as other delinquencies of that nature.

III.—All rules, regulations, circulars, and general orders issued from the offices of the Board of Commissioners, or Chief Engineer, or Chief of Department, promulgated prior to January 1, 1881, and General Orders Nos. 3, 5, 6, 8 and 10, and Section 4, Article VI., General Orders No. 30, current series, O. B. C., and General Orders Nos. 3, 4 and 6, current series, Office Chief of Department, are hereby repealed, countermanded and rendered null and void and of no force or effect whatever.

(General Orders No. 31.)

##### AMENDMENTS TO RULES.

II.—All substitutes for sections, paragraphs and parts of orders will, upon their receipt, be cut out and neatly pasted in the margin so as to lie over the portion of the order countermanded thereby, in such a manner that the obsolete provision may be referred to if necessary. A copy of the new order will at the same time be put on the regular file, and for this purpose two copies of such order will be furnished for each file.

(General Orders No. 34.)

##### BLANK FORMS.

The blank forms now in use by this Department will be re-numbered and divided into series as follows, and they will be known and designated by these numbers, on and after the receipt of this order:

##### OFFICE OF THE BOARD.

Form No.	Description	formerly No.
1.	Notice of appointment	31
2.	Notice to accused of trial on charges	32
3.	Notice of time of trial to officers preferring charges	33
4.	Special orders of Board	36
5.	Preliminary examination of candidates for appointment in uniformed force	48 a
6.	Order for examination of candidates by Medical Officer	48 b
7.	Application for appointment in uniformed force	48 d
8.	Application for badges	66
9.	Contract	50
10.	Proposal	52
11.	Order of appointment	55
12.	Resolutions ordering examination for retirement, etc.	54 a
13.	Certificate of service	54 c
14.	Resolution retiring from all service	substituted for No. 54 d, e, f, and g
15.	Resolution relieving from fire service	54 h, i, k, and l
16.	Order leave of absence on recommendation of Medical Officer	formerly No. 57
17.	Order excuse from fire duty on recommendation of Medical Officer	" 58
18.		

Form No. 35.....  
 " 36.....  
 " 37.....  
 " 38.....  
 " 39.....  
 " 40.....

## BUREAU OF FIRE-MARSHAL.

Form No.	1.	Notice to appear before Fire Marshal	.....	formerly No.	23	<i>A</i>
"	2.	Subpoena to appear before Fire Marshal	.....	"	23	
"	3.	Affidavit	.....	"	67	
"	4.	Report	.....	"	65	
"	5.	"	.....			
"	6.	"	.....			
"	7.	"	.....			
"	8.	"	.....			
"	9.	"	.....			
"	10.	"	.....			

## BUREAU OF INSPECTION OF BUILDINGS.

Form No. 1. Detailed statement of specifications—new buildings.  
 " 2. Detailed statement of specifications—alterations.  
 " 3. Report of examination, etc.—general violations.  
 " 4. Report of examination, etc.—unsafe buildings.  
 " 5. Report of examination, etc.—fire escapes, etc.  
 " 6. Application for erection of frame structures.  
 " 7. Complaint of violation.  
 " 8. Report on violations and unsafe buildings.  
 " 9. Monthly report of examiners on condition of structures.  
 " 10. Notice and summons—unsafe building.  
 " 11. Application for testing of iron beams, etc.  
 " 12. Notice of alterations, etc., required in places of amusement, etc.  
 " 13. Notice in relation to obstructions in aisles, etc., in places of amusement, etc.  
 " 14. Notice to examiner to make examination.  
 " 15. Affidavit of owner of proposed new structure, etc.  
 " 16. Notice to remove violation relative to sustaining strength of floors.  
 " 17. Monthly report of unsafe buildings.  
 " 18. Notice to remove violation—iron shutters.  
 " 19. Notice to remove violation.  
 " 20. Report of survey.  
 " 21. Affidavit of service of notice.  
 " 22. Report of examiner on violation.  
 " 23. Notice relating to unsafe building excavations.  
 " 24. Notice relating to unsafe buildings.  
 " 25. Report of examiner on unsafe buildings.  
 " 26. Notice in relation to means of escape in case of fire.  
 " 27. Report of examiner on means of escape in case of fire.  
 " 28. Notice of expiration of time allowed to make secure.  
 " 29. Notice of refusal of permit—frame structures.  
 " 30. Notice to amend detailed statement of specifications.  
 " 31. Notice of meeting of Board of Examiners.  
 " 32. Notice to examiner relative to detailed statement of specifications.  
 " 33. Specifications of fire escapes.  
 " 34. ....  
 " 35. ....  
 " 36. ....  
 " 37. ....  
 " 38. ....  
 " 39. ....  
 " 40. ....  
 " 41. ....  
 " 42. ....  
 " 43. ....  
 " 44. ....  
 " 45. ....  
 " 46. ....  
 " 47. ....  
 " 48. ....  
 " 49. ....  
 " 50. ....

Form No.	1. Summons and complaint—Injunction.....	substituted for No.	75
"	2. " " " " Order to remove.....	" "	75
"	3. " " " " District Court penalty.....	New	"
"	4. " " " " " fire escape.....	"	"
"	5. " " " " Combustible Laws.....	formerly No.	83
"	6. Order to show cause.....	"	76
"	7. Application for order.....	"	77
"	8. Order to remove violation.....	"	78
"	9. Notice of pendency of action.....	"	79
"	10. Affidavit for injunction.....	"	80
"	11. Injunction order.....	"	81
"	12. Affidavit of service.....	New	"
"	13. Precept.....	"	"
"	14.....	"	"
"	15.....	"	"
"	16.....	"	"
"	17.....	"	"
"	18.....	"	"
"	19.....	"	"
"	20.....	"	"

FIRE ALARM TELEGRAPH.

FIRE ALARM TELEGRAPH.		
Form No.	1. Reports of fires and alarms received.....	formerly No. 34
"	2. Report of verbal alarms received.....	" 68
"	3. Report of Lineman.....	" 63
"	4. Blank message.....	" 69
"	5.....	
"	6.....	
"	7.....	
"	8.....	
"	9.....	
"	10.....	

Form No.		formerly No.
1.	Recommendation for leave of absence.....	19
2.	Recommendation for extension of leave of absence.....	45
3.	Recommendation for excuse from fire duty.....	46
4.	Recommendation for extension of excuse from fire duty.....	47
5.	Report of examination for appointment.....	48 <i>c</i>
6.	Sick list.....	74
7.	Report of examination for retirement, etc.....	54 <i>b</i>
8.	.....	
9.	.....	
10.	.....	
11.	.....	
12.	.....	
13.	.....	
14.	.....	
15.	.....	

SUPERINTENDENT OF HORSES.

Form No.	1. Weekly report.....	New
“	2.....	
“	3.....	
“	4.....	
“	5.....	

(General Orders No. 1.)

## Appropriations and Expenditures.

TITLE OF APPROPRIATION.	AMOUNT OF APPROPRIATION.	EXPENDITURE.	BALANCE.
<b>For Salaries—</b>			
Headquarters .....	\$45,710 00	\$42,090 09	\$3,619 91
Bureau Chief of Department *.....	935,441 00	908,491 08	26,949 92
Bureau Inspector of Combustibles .....	12,200 00	12,200 00	.....
Bureau Fire Marshal.....	7,200 00	7,200 00	.....
Bureau Inspection of Buildings .....	36,000 00	32,391 01	3,608 99
Attorney.....	4,000 00	4,000 00	.....
Fire Alarm Telegraph .....	19,740 00	18,905 02	834 98
Repair Shops.....	46,000 00	46,008 72	28
Hospital Stables.....	7,000 00	6,954 00	46 00
<b>Total salaries.....</b>	<b>\$1,113,300 00</b>	<b>\$1,078,239 92</b>	<b>\$35,060 08</b>
<b>For Apparatus, Supplies, Buildings, etc.—</b>			
Apparatus, supplies, etc.....	\$230,000 00	\$229,888 60	\$111 40
Alterations to houses †.....	44,709 50	44,709 50	.....
New houses ‡.....	94,699 50	94,699 50	.....
New engines.....	26,250 00	26,250 00	.....
One floating engine.....	60,000 00	925 00	59,075 00
<b>Total apparatus, supplies, buildings, etc.....</b>	<b>\$455,659 00</b>	<b>\$395,472 60</b>	<b>\$59,186 40</b>
<b>Total appropriation.....</b>	<b>\$1,568,959 00</b>	<b>\$1,474,712 52</b>	<b>\$94,246 48</b>

\* The amount originally appropriated was \$939,850, of which \$4,409 were subsequently transferred to the appropriation for "new houses."

† The amount originally appropriated was \$60,000, of which \$15,209.50 were subsequently transferred to the appropriation for "new houses."

‡ The amount originally appropriated was \$75,000, to which \$4,409 from the appropriation for salaries of the Bureau Chief of Department (company pay-rolls), and \$15,209.50 from the appropriation for "alterations to houses," in all \$19,609.50, were subsequently transferred.

§ This includes outstanding liabilities, partly estimated.

The unexpended balance of the appropriation for the Bureau Chief of Department (uniformed force) resulted from the consolidation of companies and from the delay in obtaining quarters for new companies, which the appropriation covered for the entire year.

The appropriation for the floating engine was intended for an iron-hull vessel, and an effort was made early in the year to obtain proposals therefor, in the manner prescribed by law. Partly because iron shipbuilders were too much occupied with other contracts, but mainly because the conditions imposed under the system prescribed by law and ordinance were objectionable to many builders, no bids were received. The effort was repeated in August, with the result of obtaining two bids, both of which were informal and exceeded in amount, for the vessel alone, without the necessary fire-pumps, the sum appropriated for both. Another attempt was made in December, resulting, like the first, in no proposals being received. The amount expended out of this appropriation was for necessary models and engineers' fees for extra specifications, etc. The transfer of the balance to the appropriation for 1882, for the same purpose, will be applied for.

Of the amounts expended outside of salaries, the following were under contracts awarded on proposals duly advertised for as the law provides:

Appropriation for apparatus, supplies, etc.:	
For forage.....	\$23,210 00
For fuel.....	14,094 00
For hose.....	14,250 00
For new boilers.....	3,900 00
	<b>\$55,454 00</b>
Appropriation for alterations to houses.....	48,390 00
"    new houses.....	90,190 00
"    new engines.....	26,250 00
<b>Total.....</b>	<b>\$220,284 00</b>

Pay-rolls and bills were audited and forwarded to the Finance Department for payment, as follows:

	PAY-ROLLS, 1881.	BILLS PAYABLE FROM APPROPRIATION FOR 1881.	BILLS PAYABLE FROM APPROPRIATION FOR 1880.
First quarter.....	\$267,087 02	\$32,018 52	\$33,826 45
Second quarter.....	270,113 95	62,754 14	10,545 54
Third quarter.....	270,043 16	69,481 24	10,390 96
Fourth quarter.....	270,995 79	121,228 97	5,702 68
<b>Total.....</b>	<b>\$1,078,239 92</b>	<b>\$285,482 87</b>	<b>\$60,465 63</b>

Cash received for sales of condemned horses, material, etc., at auction, and turned in to the City Treasury, \$2,295.61.

## Number and Character of Alarms, Manner of Receipt, and Cause.

ALARMS.	MANNER OF RECEIPT.					CAUSE.																					
	From Department Street Alarm Boxes.	Special Department Telegraph Signals.	Verbally.	Automatic Telegraph.	Total.	Bursting of Water-main.	Carelessness.	Cry of "Fire."	Error.	Exhibition of Department.	Explosions.	Fire outside of city.	Fireworks.	Heat (Automatic Telegraph).	Heat of Furnace.	Malicious mischief.	Not ascertained.	Reflection from stoves, etc.	Reflection of distant fire.	Smoke issuing from premises.	Smoke of distant fire.	Sparks from chimney.	Steam issuing from premises.	Telegraph out of order.	Fire.	Total.	
Unnecessary.....	44	5	11	22	82	1	12	5	2	6	..	1	..	..	2	13	38	..	2	..	..	..	..	..	..	..	82
Indication of fire.....	84	2	66	3	155	..	..	..	..	..	2	..	1	2	..	..	..	10	..	131	2	1	5	1	..	155	
Fires.....	1,014	22	747	2	1,785	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,785	1,785	
Total.....	1,142	29	824	27	2,022	1	12	5	2	6	2	1	1	2	2	13	38	10	2	131	2	1	5	1	1,785	2,022	

244 alarms were communicated by attachés of this Department, of which 225 were fires.

496	"	"	Police	"	465	"
550	"	"	District Key-holders,	"	497	"
56	"	"	Citizen	"	50	"
676	"	"	all other means,	"	548	"

2,022 alarms.

of which 1,785 were fires.

## STATISTICS OF FIRES.

	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	YEAR.		FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	YEAR.
<b>In buildings—</b>						<b>Extent of damage to buildings and vessels—</b>					
Confined to point of starting.....	439	353	348	412	1,552	Brick, stone, or iron:					
"    building.....	41	14	18	36	109	Slight.....	244	155	116	139	654
Extended to other buildings.....	5	10	4	14	33	Considerable.....	16	10	12	32	70
<b>In vessels.....</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>17</b>	Destroyed.....	2	1	..	8	11
<b>In other places (woods, etc.).....</b>	<b>7</b>	<b>22</b>	<b>29</b>	<b>16</b>	<b>74</b>	Wood:					
<b>Total.....</b>	<b>501</b>	<b>401</b>	<b>400</b>	<b>483</b>	<b>1,785</b>	Slight.....	49	48	20	26	143
<b>How discovered—</b>						Considerable.....	2	7	7	11	27
By attachés of Fire Department.....	64	60	44	57	225	Destroyed.....	..	2	3	4	9
By attachés of Police Department.....	136	107	101	121	465	<b>Total number of buildings and vessels damaged—</b>					
By district key-holders.....	131	113	113	140	497	Slight.....	293	203	136	165	797
By citizen key-holders.....	5	9	19	17	50	Considerable.....	18	17	19	43	97
By all other means.....	165	112	123	148	548	Destroyed.....	2	3	3	12	20
<b>Total.....</b>	<b>501</b>	<b>401</b>	<b>400</b>	<b>483</b>	<b>1,785</b>	<b>Contents only damaged, buildings or vessels not damaged.....</b>	<b>313</b>	<b>223</b>	<b>158</b>	<b>220</b>	<b>914</b>
<b>How extinguished—</b>						<b>Total buildings, vessels, and contents damaged.....</b>	<b>496</b>	<b>396</b>	<b>365</b>	<b>482</b>	<b>1,739</b>
With buckets of water, etc.....	331	293	286	311	1,221						
With one engine stream.....	84	57	74	85	300						
With two or three engine streams.....	58	38	29	63	188						
With more than three engine streams.....	28	13	11	24	76						
<b>Total.....</b>	<b>501</b>	<b>401</b>	<b>400</b>	<b>483</b>	<b>1,785</b>						

The difference between the number of fires occurring in buildings and vessels, as given in the first part of the foregoing table, and the number reported damaged in the last part of the table, is accounted for by the number of buildings to which fires extended.

Number of Fires Occurring on Each Day of the Week and During the Several Hours of the Day, by Months.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Monday .....	27	20	17	22	19	16	24	17	14	22	31	26	255
Tuesday .....	31	15	22	22	18	12	14	22	14	21	25	20	236
Wednesday .....	29	29	19	28	16	12	16	23	15	18	21	14	240
Thursday .....	28	30	20	22	16	27	22	22	29	22	26	26	286
Friday .....	24	23	16	18	16	15	18	16	28	26	18	19	237
Saturday .....	39	23	17	35	18	15	20	16	20	32	24	30	289
Sunday .....	34	20	18	22	22	10	21	12	24	25	19	15	242
Total .....	212	160	129	169	125	107	135	128	137	173	160	150	1,785

BETWEEN THE HOURS OF—	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
12 midnight and 1 A. M. ....	5	4	3	2	3		1	6	5	3	4	4	44
1 A. M. " 2 " .....	3	3	5	4	1	3	2	5	5	4	4	4	43
2 " " 3 " .....	4	5	3	2	2	1	4	3	2	4	1	3	34
3 " " 4 " .....	3	1	1	2	3	1	2	4	3	1	2	2	25
4 " " 5 " .....	7	4	1	3	3	1	3	7	2	1	1	..	33
5 " " 6 " .....	6	6	1	4	3	1	2	3	2	4	2	3	37
6 " " 7 " .....	3	4	2	3	2	1	..	1	4	6	4	..	30
7 " " 8 " .....	4	6	2	2	..	4	1	2	3	1	4	3	32
8 " " 9 " .....	4	4	7	8	5	2	7	2	1	6	2	3	51
9 " " 10 " .....	7	9	4	3	6	2	6	4	6	9	4	1	61
10 " " 11 " .....	13	8	6	5	6	2	6	7	3	6	12	4	78
11 " " 12 M. ....	12	7	2	8	9	9	12	6	5	5	3	6	84
12 M. " 1 P. M. ....	11	9	9	4	4	6	8	2	9	10	4	4	80
1 P. M. " 2 " .....	6	5	3	7	5	6	8	4	9	4	5	10	72
2 " " 3 " .....	8	5	2	13	5	5	7	3	5	12	12	9	86
3 " " 4 " .....	6	7	4	12	2	2	2	3	4	8	8	5	63
4 " " 5 " .....	8	7	5	7	4	8	3	3	11	11	6	9	82
5 " " 6 " .....	16	12	8	10	12	1	5	8	6	13	14	12	117
6 " " 7 " .....	25	14	11	15	11	6	6	10	11	14	15	14	152
7 " " 8 " .....	20	11	13	15	9	10	9	6	10	15	11	12	141
8 " " 9 " .....	14	11	12	20	6	12	16	16	10	11	12	18	158
9 " " 10 " .....	8	4	11	6	10	9	14	7	11	17	17	8	122
10 " " 11 " .....	13	9	8	10	8	7	3	7	5	3	6	12	91
11 " " 12 midnight .....	6	5	6	4	6	4	8	9	5	5	7	4	69
Total .....	212	160	129	169	125	107	135	128	137	173	160	150	1,785

12 midnight and 3 A. M. ....	12	12	11	8	6	8	7	14	12	11	9	11	121
3 A. M. " 6 " .....	16	11	3	9	9	3	7	14	7	6	5	5	95
6 " " 9 " .....	11	14	11	13	7	7	8	5	8	13	10	6	113
9 " " 12 M. ....	32	24	12	16	21	13	24	17	14	20	19	11	223
12 M. " 3 P. M. ....	25	19	14	24	14	17	23	9	23	26	21	23	238
3 P. M. " 6 " .....	30	26	17	29	18	11	10	14	21	30	30	26	262
6 " " 9 " .....	59	36	36	50	26	28	31	32	31	40	38	44	451
9 " " 12 midnight.....	27	18	25	20	24	20	25	23	21	25	30	24	282
12 midnight and 6 A. M. ....	28	23	14	17	15	11	14	28	19	17	14	16	216
6 A. M. " 12 M. ....	43	38	23	29	28	20	32	22	22	33	29	17	336
12 M. " 6 P. M. ....	55	45	31	53	32	28	33	23	44	56	51	49	500
6 P. M. " 12 midnight.....	86	54	61	70	50	48	56	55	52	65	68	68	733
12 midnight and 12 M. ....	71	61	37	46	43	31	46	50	41	50	43	33	552
12 M. and 12 midnight.....	141	99	92	123	82	76	89	78	96	121	119	117	1,233
6 A. M. and 6 P. M. ....	98	83	54	82	60	48	65	45	66	89	80	66	836
6 P. M. " 6 A. M. ....	114	77	75	87	65	59	70	83	71	82	82	84	949

The foregoing tables show that for the seven months of October, November, December, January, February, March, and April, during the greater part of which stoves, furnaces, and other apparatus for heating are in use, the number of fires was 1,152, and exceeded by nearly 112 the proportionate number (7-12) for the entire year, and that, consequently, for the remaining five months of May, June, July, August, and September, there was a corresponding decrease.

## Losses and Insurance.

	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	YEAR.
Estimated loss—					
On buildings and vessels .....	\$207,345	\$57,577	\$38,778	\$422,591	\$726,291
On stock .....	752,511	220,430	184,648	3,936,379	5,093,968
Total .....	\$959,856	\$278,007	\$223,426	\$4,358,970	\$5,820,259

	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	YEAR.
Estimated insurance—					
On buildings and vessels .....	\$3,448,550	\$1,184,225	\$1,180,700	\$2,450,150	\$8,263,625
On stock .....	3,909,946	1,394,163	1,435,175	5,699,188	12,438,472
Total .....	\$7,358,496	\$2,578,388	\$2,615,875	\$8,149,338	\$20,702,097
Estimated uninsured loss—					
On buildings and vessels .....	\$41,105	\$5,625	\$993	\$7,170	\$54,893
On stock .....	14,980	9,082	9,637	1,028,815	1,062,514
Total .....	\$56,085	\$14,707	\$10,630	\$1,035,985	\$1,117,407
Average loss per fire .....	\$1,915 88	\$693 28	\$558 56	\$9,024 78	\$3,260 65

The loss at fires was less than \$100 at .....	332	293	312	339	1,276
" " between \$100 and \$1,000 at .....	93	76	56	84	309
" " " 1,000 " 5,000 at .....	42	21	21	32	116
" " " 5,000 " 10,000 at .....	13	5	6	14	38
" " " 10,000 " 20,000 at .....	10	2	3	7	22
" " " 20,000 " 30,000 at .....	3	2	1	1	7
" " " 30,000 " 40,000 at .....	3	1	..	..	4
" " " 40,000 " 50,000 at .....	2	..	1	..	3
" " " 50,000 " 60,000 at .....	..	1	..	1	2
" " " 60,000 " 70,000 at .....	1	..	..	..	1
" " " 70,000 " 80,000 at .....	1	..	..	..	1
" " " 80,000 " 90,000 at .....	..	..	..	1	1
" " " 90,000 " 100,000 at .....	..	..	..	..	..
" " " 100,000 " 200,000 at .....	1	..	..	1	2
" " 262,350 at .....	..	..	..	1	1
" " 1,025,800 at .....	..	..	..	1	1
" " 2,392,691 at .....	..	..	..	1	1
	501	401	400	483	1,785

Table showing Population, Number of Firemen, Number of Fires, Amount of Loss by Fire, the Number of Inhabitants to each Fireman, the Number of Inhabitants to each Fire, the Amount of Loss by Fire to each Inhabitant, and the Average Loss per Fire, for each Census Year since the Organization of this Department.

YEAR.	Population.	Number of Firemen.	Number of Fires.	Amount of Loss.	Number of Inhabitants to each Fireman.	Number of Inhabitants to each Fire.	Amount of Loss to each Inhabitant.	Average Loss per Fire.
1866 .....	*769,533	1964	796	\$6,428,000 00	798	967	\$8 35	\$8,075 38
1870 .....	942,292	596	964	2,120,212 00	1,581	977	2 25	2,199 39
1875 .....	1,041,286	748	1,418	2,472,536 00	1,392	734	2 37	1,743 67
1880 .....	1,206,299	748	1,783	3,183,440 00	1,613	676	2 64	1,785 44

\* Based on the State Census of 1865.  
† Includes about 400 volunteers.

## Origin and Cause of Fires.

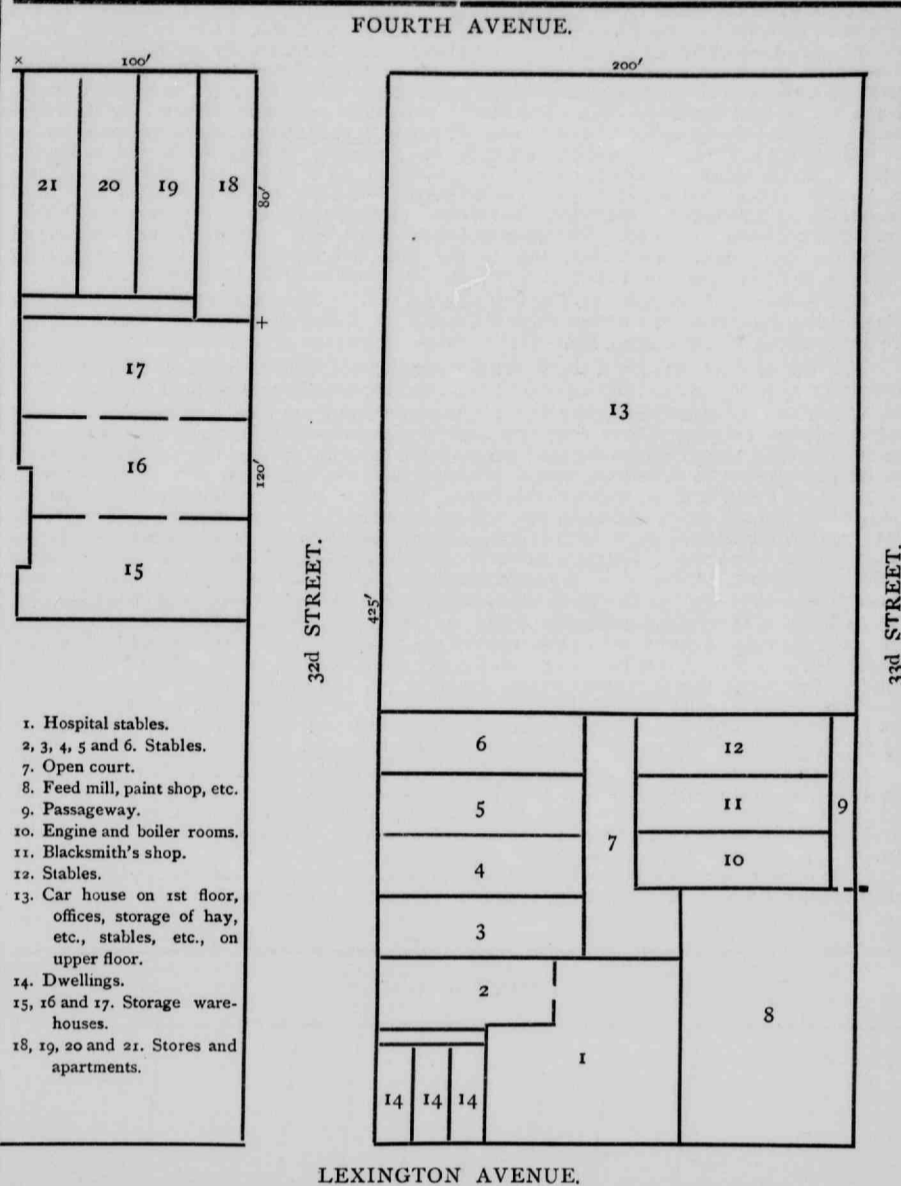
ORIGIN.	CAUSE.							Total.
	Accidental.	Carelessness.	Defective Construction.	Mischievousness.	Maliciousness.	Incendiarism.	Not ascertained.	
<i>In Heating.</i>								
Beams built into chimneys and under grates.....	..	..	15	..	..	..	..	15
Chimneys, fire-places, flues, and grates .....	..	..	57	..	..	..	..	57
Foul chimneys.....	..	185	..	..	..	..	..	185
Hot coals, falling from grates and stoves, igniting floors } and woodwork.....	15	..	..	..	..	..	..	15
Kerosene oil used in lighting fires.....	..	1	..	..	..	..	..	1
Kerosene stove igniting woodwork.....	..	2	..	..	..	..	..	2
Matches used in lighting fires.....	..	6	..	..	..	..	..	6
Soot from chimneys and fire-places igniting woodwork.....	..	43	..	..	..	..	..	43
Sparks from stoves, furnaces, fire-places and stove-pipes } igniting drapery, rubbish, woodwork, etc.....	31	7	3	..	..	..	..	41
Steam-pipes igniting clothing, shavings, woodwork, etc.....	..	2	6	..	..	..	..	8
Stoves upsetting.....	5	3	..	..	..	..	..	8
Stoves, stove-pipes, boilers, drapery, clothing, furnaces, etc., } igniting cotton, felted around boilers, goods, wood- } work, etc.....	3	81	43	..	..	..	..	127
Water-back of range bursting.....	2	..	..	..	..	..	..	2
Total in heating. . . . .	56	330	124	..	..	..	..	510
<i>In Illuminating.</i>								
Calcium light, lime igniting.....	1	..	..	..	..	..	..	1
Candles, lamps, etc., igniting bedding, clothing, etc.....	..	78	..	..	..	..	..	78

(38)

## CAUSES AND ORIGIN.

	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	Aggre- gate.
Malicious mischief.....	1	..	2	12	15	31	36	28	31	15	24	12	29	13	249
Mice and rats gnawing matches.....	2	2	..	4	10	6	11	4	6	6	12	3	2	4	72
Matches igniting accidentally.....	..	..	..	..	..	..	3	..	1	..	1	4	..	1	10
Meat in oven taking fire.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Not ascertained.....	41	114	34	16	52	36	30	31	70	131	99	141	168	633	633
Naphtha lamps exploding.....	..	..	..	..	1	..	1	..	..	..	..	..	1	..	3
Overheated stoves, stove-pipes, steam- pipes, journals, etc.....	19	46	59	73	105	94	103	99	45	46	64	58	46	43	901
Overheated drying-rooms.....	..	1	..	1	..	1	1	..	1	2	..	..	2	..	9
Overheated smoke-house.....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Overheated gas stove.....	..	..	..	..	..	1	..	..	..	1	..	..	..	..	2
Overheated oil vat.....	..	..	..	..	..	..	..	..	2	..	1	1	..	..	4
Oil pipes leaking.....	..	..	1	..	..	..	..	..	1	..	1	..	..	..	3
Phosphorus igniting.....	1	..	..	..	..	1	..	4	1	2	1	..	2	5	17
Phosphorus thrown in oil.....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Pistol discharged.....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Paper balloon igniting.....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Rekindling of previous fires.....	..	..	..	2	..	..	2	..	..	..	1	7	11	23	23
Rubbish, etc., taking fire, cause unknown	..	..	..	..	3	..	..	..	..	..	1	2	4	10	10
Sparks from chimneys, forges, steam- ers, furnaces, cotton pickers, loco- motives, engines, previous fires, stoves, stove-pipes, kilns, grates, smoke-houses, etc.....	20	20	2	51	70	64	75	66	86	82	127	116	121	113	1,013
Sparks from metal or stone coming in contact with teeth of cotton picker or cleaner.....	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2
Sparks from electric light wires.....	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
Slaking of lime.....	1	..	1	2	1	4	1	5	..	4	2	3	6	4	34
Scenery in theatre igniting from flash light.....	..	..	..	..	..	..	..	..	1	1	..	4	6	12	12
Spontaneous combustion of manure.....	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
Spontaneous combustion of oily mate- rials, silk twist, rubbish, etc.....	14	31	6	26	68	44	35	40	25	35	44	40	49	39	496
Soot in chimneys and fire-places fall- ing and igniting.....	..	..	..	2	..	5	2	..	3	12	18	17	41	100	100
Settling of walls.....	..	..	2	..	..	..	..	..	..	..	..	..	..	..	2
Spirit lamp igniting partition.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Superheated steam.....	..	..	1	12	1	..	..	..	..	..	..	..	..	14	14
Sun's rays setting fire to awning.....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Stoves upsetting.....	..	..	1	2	2	4	4	4	..	1	5	8	8	..	39
Starch falling on stove.....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Sulphur igniting.....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Thieves with matches and candles.....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Vapor of naphtha, alcohol, benzine, gasoline, ether, and other oils, etc.....	3	1	3	9	8	9	12	5	4	5	3	8	18	17	105
Vagrants, thieves, etc., building fires in dwelling and unoccupied houses.....	..	..	..	5	4	1	2	1	..	..	1	4	13	31	31
Window curtains, goods in stores or show windows, Christmas trees, clothing, drapery, netting, paper, woodwork, etc., taking fire from gas jets, candles, lamps, etc.....	16	23	43	88	83	82	60	70	63	97	88	79	115	99	1,006
Waste cotton on storage.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Waste cotton in furnace.....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Workmen burning rubbish.....	..	..	..	..	..	..	..	..	..	..	..	..	7	..	7

The following is a diagram showing the buildings destroyed and damaged by this fire :



The fire was first discovered, and probably originated, in the building marked 1 on the diagram, used as a hospital stable, and thence spread with great rapidity through the buildings 2, 3, 4, 5 and 6, used as stables, into the feed-mill, paint shop, etc., 8, and across the open court 7, into the engine and boiler room, blacksmith shop and stables, 10, 11, and 12, and through the main building 13, used as a car house below, and for office and storage purposes, and stables, above. It also extended across Thirty-second street, into the Morrell storage warehouses 15, 16 and 17, which, together with the series of buildings before enumerated belonging to the New York and Harlem Railroad Company, were totally destroyed. The dwelling houses on the northwest corner of Lexington avenue and Thirty-second street, the stores and apartments on the southeast corner of Thirty-second street and Fourth avenue, and a few of the buildings adjoining the Morrell warehouses on the east, were more or less damaged by fire or falling walls. The direct cause of the fire could not be ascertained, but the investigation showed conclusively, that after its discovery by the employees, some minutes were worse than wasted in the vain effort to extinguish the fire without calling the Fire Department, with the customary disastrous result. The several buildings comprising the series of structures used by the New York and Harlem Railroad Company were nearly all connected by open archways and ventilating windows having neither sashes nor shutters, through which the flames therefore communicated with great ease and rapidity, finding everywhere materials of a very inflammable nature to feed upon and increase them. Upon the arrival of the first Chief Officer, who, having received verbal notice of the fire at his quarters in the immediate vicinity, was on his way before the first telegraphic alarm was sounded, flames were coming out of every window of the hospital stable, and the door of the loft was already burned through; and, after sending out the second alarm, this officer immediately went through the stables into the open court (7), and finding the fire very rapidly spreading through the stables and into the other buildings, at once returned to the alarm box and sent out the third alarm. The Chief of Department, who at the time of the outbreak of this fire was at the fire on the corner of Greenwich avenue and West Eleventh street, where the alarm was communicated to him, reports that upon his arrival at the fire (within twenty minutes after the first alarm was sent) he found all the buildings of the railroad company a mass of flame, which had already communicated to the Morrell storage warehouses, out of which it had been found impossible to keep the vast body of fire from the stables surging solidly against the front of these buildings, the windows of which were not protected by shutters, and which were filled with a large quantity of household goods and other articles of an exceedingly combustible nature. Concerning the construction of the railroad company's buildings, it should be stated that the exterior as well as the interior walls were perforated with numerous large and small openings for doors and windows, affording vent to the great body of fire within and menacing the unprotected buildings opposite. The loss by this fire was the largest on record at any single fire since 1865, the year of the organization of the paid Fire Department, and probably, with the exception of a fire in that year, since the conflagration in 1845. The enormous loss was distributed as follows :

New York and Harlem Railroad Co.'s stables, etc.—	
On buildings.....	\$150,000 00
On contents.....	93,953 00
Total.....	\$243,953 00
Morrell's storage warehouses—	
On buildings.....	\$128,000 00
On contents.....	2,000,000 00
Total.....	\$2,128,000 00
Buildings adjoining the warehouses—	
On buildings.....	\$13,973 00
On contents.....	6,665 00
Total.....	20,638 00
Making an aggregate loss on buildings of.....	\$292,073 00
And on contents of.....	2,100,618 00
Total loss.....	\$2,392,691 00
The insurance on the stables, etc., was.....	\$150,000 00
On the warehouses.....	866,000 00
And on the adjoining buildings.....	229,300 00
Leaving an uninsured loss on the stables of.....	\$93,953 00
And on the warehouses of.....	1,262,100 00
—of which all but \$62,100 was on the very valuable contents, consisting of costly furniture, plate, works of art, and household effects, placed there on storage, in many cases, it seems, under the	

## The Largest Fires of the Year.

The loss exceeded \$100,000 at the following fires :

January 27. Nos. 365 and 367 Broadway, loss.....	\$188,202 00
October 10. Fourth avenue, Thirty-second and Thirty-third streets, and Lexington avenue, loss.....	2,392,691 00
December 17. No. 452 Broadway, loss.....	262,350 00
“ 24. No. 359 Broadway, loss.....	195,500 00
“ 24. Nos. 71 to 74 South street, loss.....	1,025,800 00
Total loss at five fires.....	\$4,064,543 00

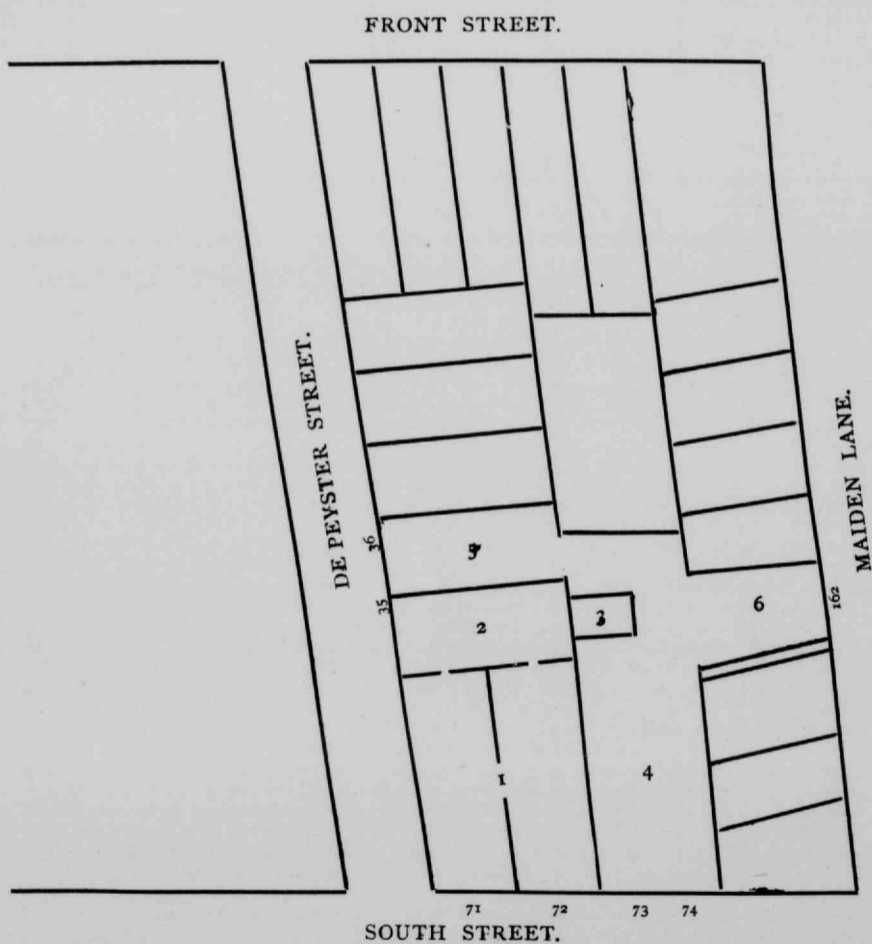
The alarm for the first of these fires (which altogether involved nearly 70 per cent. of the loss for the whole year) was received at 6.14 P. M., on January 27, from alarm box 125 (corner of Broadway and White street), and was found to be on the fourth floor of the six-story brick and brown-stone front building, Nos. 365 and 367 Broadway, situated on the northeast corner of Franklin street and Broadway, 50x150 feet in area, and occupied, on the third, fourth, and fifth floors, by dealers in shirts, drawers, and overalls, and on the lower floors by dealers in laces, white goods, etc. A third alarm was sent at 6.20 P. M., making in all eleven engine and five hook and ladder companies called to the fire, which extended to the fifth and sixth floors, damaging the former considerably and the latter slightly. The fire, which was found to have been caused by carelessness in the use of a lighted taper, was extinguished at about midnight.

On October 10, at 6.46 P. M., an alarm was received from box 443 (corner of Thirty-second street and Fourth avenue), which proved to be for a fire discovered by an employee of the New York and Harlem Railroad Company, on the second story of a two-story brick building, 75x80 feet (204 to 208 Lexington avenue), used as a hospital stable and for storage of hay, etc., by that company, whose buildings, occupied as stables, etc., for their Fourth and Madison avenue horse-car lines, extended over the entire block, bounded by Fourth and Lexington avenues, and Thirty-second and Thirty-third streets, 200x425 feet, with exception of the three small dwellings on the northwest corner of Lexington avenue and Thirty-second street. Two minutes after the receipt of the first alarm, i. e., at 6.48 P. M., a second alarm was sent by the Chief of the Eighth Battalion (who was the first to arrive), and at 6.51 P. M. a third alarm was sent by the same officer, both from alarm box No. 446, corner of Lexington avenue and Thirty-third street. At 7.08 P. M. the call for the companies due on the first, second, and third alarms at station 341 (Fourteenth street and Broadway) to station 446 was sent, followed, at 7.11 P. M., by the signal for increased water pressure and the call for two additional engine companies at 7.23 and 7.25 P. M., respectively. Altogether seventeen engine and six hook and ladder companies responded to these alarms, and all remained at work until about 11 P. M., when they were gradually relieved and returned to quarters. At the time this fire was discovered two companies were still at work at another fire at Greenwich avenue and West Eleventh street, making the number of companies available for service in the part of the city bounded by Canal street on the south and Fifty-ninth street on the north, from river to river, five engine and one hook and ladder. To more fully cover the large section thus left insufficiently protected in case of other fires therein, companies were called from other points to locate, during the continuance of the fire, in the vacant quarters, and respond to alarms therefrom, as follows :

From south of Canal street, two engines.

From north of Fifty-ninth street, two engines and two hook and ladder; while two engines and one hook and ladder companies of those remaining in quarters in the district referred to were temporarily shifted to other quarters therein. Of the entire number composing the fire extinguishing force, exactly one-half (32) were either at work at the fire itself or called elsewhere in consequence of the same.

At 8.54½ P. M. an alarm was received from box 29 (Maiden lane and Front street), for a fire discovered in the warehouses Nos. 71 and 72 South street, on the northwest corner of South and De Peyster streets, a four-story brick and granite front structure, with an extension No. 35 De Peyster street, five-story brick with granite front, and connected by a light shaft and hoistway with Nos. 73 and 74 South street, a five-story, brick, granite front, which extended at the rear on the one side to De Peyster street (No. 33), and on the other to and forming No. 162 Maiden lane, both of the latter being five-story brick buildings, as shown in the subjoined diagram :



- The fire originated on the second floor of Nos. 71 and 72 South street, and 35 De Peyster street, which were both burned out down to the basement, and communicated through the shaft (?) into

The details of the operations at each fire, with the location of the same, description of the structure, cause and origin, amount of loss occasioned thereby, etc., etc., are appended to this report. (Exhibit B.)



## Inventory of Hose.

	COMBINATION RUBBER, 2½ IN.	COTTON RUBBER LINED, 2½ IN.	LINEN, 2½ IN.	1 IN. RUBBER FOR CHEMICAL ENGINE.
Serviceable.....	29,950 feet.	59,150 feet.	3,700 feet.	5,900 feet.
Unserviceable.....	7,600 "	8,850 "	2,000 "	250 "
Total.....	37,550 feet.	68,000 feet.	5,7	6,150 feet.

## Description of Steam Fire Engines.

COMPANY.	SIZE.	STYLE.	MANUFACTURER.	MANU- FACTURER'S NUMBER.	WHEN PLACED IN SERVICE.
Engine Co. No. 1.....	2d	Crane neck.....	Amoskeag Mfg. Co.....	437	June, 1873
" 2.....	2d	U tank.....	"	166	Aug., 1866
" 3.....	2d	Crane neck.....	"	441	Sept., 1873
" 4.....	4th	"	Clapp & Jones Mfg. Co...	359	July 11, 1881
" 5.....	2d	Straight frame.....	Amoskeag Mfg. Co.....	301	Sept., 1868
" 6.....	2d	Crane neck.....	"	361	March, 1871
" 7.....	1st	"	Clapp & Jones Mfg. Co...	352	Nov., 1880
" 8.....	1st	{ Crane neck, self- propelling..... }	Amoskeag Mfg. Co.....	493	Sept., 1874
" 9.....	2d	Crane neck.....	"	438	June, 1873
" 10.....	2d	Straight frame.....	"	296	Sept., 1868
" 11.....	1st	{ Crane neck, self- propelling..... }	"	494	" 1874
" 12.....	2d	Crane neck.....	"	439	July, 1873
" 13.....	1st	"	Ahrens Mfg. Co.....	252	Sept., 1880
" 14.....	2d	Straight frame.....	Amoskeag Mfg. Co.....	302	Nov., 1868
" 15.....	2d	Crane neck.....	"	360	Feb., 1871
" 16.....	2d	U tank.....	"	148	Nov., 1865
" 17.....	2d	Crane neck.....	"	363	March, 1871
" 18.....	2d	Straight frame.....	"	227	" 1867
" 19.....	2d	U tank.....	"	158	Dec., 1865
" 20.....	1st	Crane neck.....	"	527	March, 1879
" 21.....	2d	Straight frame.....	"	228	" 1867
" 22.....	2d	U tank.....	"	164	April, 1866
" 23.....	2d	Straight frame.....	"	295	Aug., 1868
" 24.....	1st	{ Crane neck, self- propelling..... }	"	492	Oct., 1874
" 25.....	2d	Straight frame.....	"	229	April, 1867
" 26.....	2d	"	"	230	May, 1867
" 27.....	2d	Crane neck.....	"	359	Feb., 1871
" 27.....	4th	"	Clapp & Jones Mfg. Co...	371	Nov., 1881
" 28.....	2d	Straight frame.....	Amoskeag Mfg. Co.....	226	March, 1867
" 29.....	2d	Crane neck.....	"	440	Sept., 1873
" 30.....	2d	"	"	362	March, 1871
" 31.....	4th	"	Clapp & Jones Mfg. Co...	365	July, 1881
" 32.....	1st	{ Crane neck, self- propelling..... }	Amoskeag Mfg. Co.....	491	Sept., 1874
" 33.....	1st	Crane neck.....	Clapp & Jones Mfg. Co...	351	Oct., 1880
" 34.....	2d	U tank.....	Amoskeag Mfg. Co.....	159	Jan., 1866
" 35.....	2d	"	"	157	Dec., 1865
" 36.....	2d	Harp tank.....	"	132	Jan., 1869
" 37.....	3d	"	"	517	Feb., 1877
" 38.....	2d	"	"	519	" 1877
" 39.....	2d	Crane neck.....	"	455	Sept., 1873
" 40.....	2d	U tank.....	"	165	April, 1866
" 41.....	3d	Harp tank.....	"	516	Dec., 1876
" 42.....	3d	"	"	36	May, 1861
" 43.....	"	{ Fire boat..... (Pumps..... )	Wood, Dialogue & Co... Amoskeag Mfg. Co.....	147 513 and 514	" 1875
" 44.....	4th	Crane neck.....	Clapp & Jones Mfg. Co...	362	July 1881
" 45.....	4th	"	"	375	Dec., 1881
" 46.....	4th	"	"	368	Oct., 1881
" 48.....	4th	"	"	370	Nov., 1881

\* Temporarily in the company's quarters.

## In Reserve.

COMPANY.	SIZE.	STYLE.	MANUFACTURER.	MANU- FACTURER'S NUMBER.	WHEN PLACED IN SERVICE.
2d Battalion.....	1st	{ Straight frame, self-propelling. }	Amoskeag Mfg. Co.....	284	Oct., 1872
"	2d	U tank.....	"	160	Jan., 1866
3d ".....	1st	Barrel tank.....	"	191	Sept., 1866
"	2d	U tank.....	"	162	Feb., 1866
4th ".....	1st	Barrel tank.....	"	193	Oct., 1866
"	2d	U tank.....	"	161	Feb., 1866
5th ".....	1st	Barrel tank.....	"	192	Sept., 1866
6th ".....	1st	"	"	195	Nov., 1866
"	2d	U tank.....	"	19	Dec., 1860
7th ".....	1st	Barrel tank.....	"	142	Sept., 1865
"	2d	U tank.....	"	147	Oct., 1865
8th ".....	2d	"	"	163	March, 1866
(Blackwell's Isl'd)	3d	Straight frame.....	M. R. Clapp.....	None.	Aug., 1865
(Ward's Island)	1st	Barrel tank.....	Amoskeag Mfg. Co.....	143	Sept., 1865
9th ".....	2d	Crane neck.....	Gould.....	7	Nov., 1868
"	3d	Harp tank.....	Amoskeag Mfg. Co.....	520	Feb., 1877

## OPERATIONS UNDER THE LAWS REGULATING THE STORAGE OF COMBUSTIBLES AND EXPLOSIVE MATERIALS, ETC., ETC., FOR THE YEAR.

NATURE OF COMPLAINTS OF VIOLATIONS, ETC.	Pending Decem- ber 31, 1881.	Received since.	Total to be Disposed of.	DISPOSITION.						Now Pending.
				Complied on Notice.	Unfounded.	Penalties Collected.	Penalties Remitted.	Prosecution Recommended.	Total Dis- posed of.	
Selling kerosene oil below test.....	17	17	34	..	..	9	11	10	30	4
Selling kerosene oil without license.....	..	142	142	..	..	..	..	142	142	..
Chimney fires.....	52	190	242	..	..	58	145	17	220	22
Hoistways found open after conclusion of business.....	9	13	22	..	..	1	16	3	20	2
Fire-hydrants obstructed.....	..	264	264	259	..	..	..	5	264	..
Lights unprotected and want of fire extin- guishing appliances.....	5	38	43	31	..	..	..	..	31	12
Combustible material in excessive quantity.....	1	..	1	1	..	..	..	..	1	..
Kerosene, naphtha, etc., in excessive quan- tity.....	4	11	15	7	8	..	..	..	15	..
Fireworks, chemicals, matches, etc., kept without permit.....	..	1	1	1	..	..	..	..	1	..
Selling percussion caps, etc., without license..	..	3	3	1	1	..	..	1	3	..
Chimneys, flues, heating apparatus, etc., unsafe.....	5	107	112	80	27	..	..	2	109	3
Shavings improperly stored.....	..	5	5	5	..	..	..	..	5	..
Ashes in wooden boxes, etc.....	1	128	129	55	74	..	..	..	129	..
Hay, straw, cotton, rags, etc., stored in excessive quantities.....	32	66	98	54	4	..	..	11	69	29
Lime and spirits stored in excessive quan- tities.....	1	6	7	6	..	..	..	..	6	1
Total.....	127	991	1,118	500	114	68	172	191	1,045	73

Special surveys of premises made to determine their fitness for the storage of combustibles and explosives..... 295  
Samples of kerosene oil collected and tested..... 9,269

Money Received for Licenses and Permits Issued, Penalties Collected, and Sales of Explosives, etc., Seized, etc., and turned over to Relief Fund.

For 3,118 kerosene oil licenses issued, at \$10.....	\$31,180 00
" 93 powder licenses issued, at \$2.....	186 00
" 185 special permits issued, at \$2.....	370 00
" 24 wholesale fireworks permits issued, at \$2.....	48 00
" 5 retail fireworks permits issued, at \$1.....	5 00
" 20 retail fireworks permits issued, at 50 cents.....	10 00
" 1,385 retail fireworks permits issued, at 25 cents.....	346 25
" 130 kindling fire in streets permits issued, at 50 cents.....	65 00

Total for licenses and permits..... \$32,210 25

" 9 penalties collected for selling kerosene oil below test, at \$50..... \$450 00

" 58 penalties collected for chimney fires, at \$5..... 290 00

" 1 penalty collected for hoistway left open, at \$50..... 50 00

Total for penalties collected..... 790 00

For sale of "gluckodine" seized..... \$20 00

For sale of powder seized..... 43 25

Total for sale of explosives seized..... 63 25

For sale of old safe..... 50 00

Total received and turned over to Relief Fund..... \$33,113 50

## INDICTMENTS AND CONVICTIONS FOR ARSON, INCENDIARISM, ETC.

DESCRIPTION OF PERSON.					NATURE OF CHARGE AND CIRCUMSTANCES.	NATURE OF INDICTMENT AND DATE.	WHEN AND OF WHAT CONVICTED.	SENTENCE AND REMARKS.
NAME.	AGE.	SEX AND COLOR.	NATIVITY.	OCCUPA- TION.				
Louis Werbin.....	24	Male, white.....	Pole.....	Peddler...	Setting fire to and burning contents of his dwelling, No. 51 Ludlow street, on September 24, 1880.....	Arson, 1st degree, December 2, 1880.....	January 27, 1881, arson, 3d degree.....	State Prison for four years.
Charles Boskey....	14	" ".....	American..	Clerk.....	Setting fire to and burning contents of window-glass store, No. 74 Maiden lane, owned by Abraham Fine, on January 26, 1881.....	Arson, 2d degree, February 11, 1881.....	March 11, 1881, arson, 2d degree.....	Suspended.
Mamie Dooley.....	20	Female, white....	"	Servant....	Setting fire to and burning dwelling of Charles E. Crawford, Morris avenue and 161st street, on January 18, 1881.....	Arson, 1st degree, February 17, 1881.....	.....	Acquitted.
Henry Stelljes.....	28	Male, ".....	German...	Grocer....	Setting fire to and burning building occupied by him as a grocery, No. 111 West 24th street, on April 10, 1881.....	Arson, 1st degree, April 12, 1881.....	May 23, 1881, arson, 3d degree.....	State Prison for four years.
Marie Varin.....	35	Female, ".....	French....	Cook.....	Setting fire to and burning contents of restaurant, No. 352 Sixth avenue, occupied by her, on May 31, 1881.....	Arson, 1st degree, June 7, 1881.....	.....	Jury disagreed, June 28, 1881.
Charles Petra, Jr....	9	Male, ".....	American..	None.....	Setting fire to and burning out-house belonging to his father, at 186th street, near Tenth avenue, on May 4, 1881.....	.....	May 6, 1881, arson, 4th degree.....	Committed to Juvenile Asylum by Police Justice.

OPERATIONS UNDER THE LAWS RELATING TO THE ERECTION AND ALTERATION OF  
BUILDINGS, UNSAFE BUILDINGS, Etc.  
Plans and Specifications for New Buildings.

CLASSIFICATION.	Pending Dec. 31, 1881.	Received since.	Total to be disposed of.	DISPOSITION.				Now Pending.	ESTIMATED COST OF NEW BUILDINGS.
				Approved.	Amended and Approved.	Disapproved.	Total disposed of.		
Dwelling-houses, estimated cost over \$50,000 each	2	14	16	11	5	..	16	..	\$1,713,000
Dwelling-houses, estimated cost between \$20,000 and \$50,000 each	1	156	157	116	40	1	157	..	3,966,500
Dwelling-houses, below \$20,000 each	..	767	767	629	119	19	767	..	6,841,650
Flats, estimated cost over \$15,000 each	2	354	356	258	66	25	349	7	8,088,480
Tenement-houses, estimated cost below \$15,000 each	8	800	808	607	175	21	803	5	8,284,100
Hotels and boarding-houses	..	9	9	6	3	..	9	..	923,700
Stores, estimated cost over \$30,000 each	..	33	33	15	15	3	33	..	3,010,000
Stores, estimated cost between \$15,000 and \$30,000 each	..	20	20	12	7	1	20	..	416,000
Stores, estimated cost below \$15,000 each	..	70	70	50	14	4	68	2	217,550
Office buildings	..	23	23	9	9	4	22	1	4,153,500
Manufactories and workshops	..	116	116	61	44	11	116	..	1,723,935
School-houses	..	6	6	3	3	..	6	..	217,000
Churches	..	6	6	5	..	1	6	..	216,000
Public buildings—Municipal	..	8	8	8	..	..	8	..	185,000
Public buildings—Places of amusement	..	21	21	14	6	..	20	1	1,963,000
Stables	..	137	137	85	43	9	137	..	739,315
Frame dwellings	..	101	101	93	2	6	101	..	195,725
Other frame structures	..	1	27	22	1	5	28	..	236,845
Total	14	2,668	2,682	2,004	552	110	2,666	16	\$43,391,300

## Plans and Specifications for Alteration to Buildings.

CLASSIFICATION.	Pending Dec. 31, 1881.	Received since.	Total to be disposed of.	DISPOSITION.				Now Pending.	ESTIMATED COST.
				Approved.	Amended and Approved.	Disapproved.	Total.		
Dwelling-houses	..	411	411	333	58	20	411	..	\$919,064
Flats	..	45	45	29	13	2	44	1	224,192
Tenement-houses	..	250	250	188	47	15	250	..	398,568
Hotels and boarding-houses	..	62	62	39	18	5	62	..	454,286
Stores	..	125	126	83	29	14	126	..	288,933
Office buildings	..	56	56	37	14	5	56	..	493,451
Manufactories and workshops	..	191	192	121	47	18	186	6	673,471
School-houses	..	11	11	8	2	1	11	..	100,900
Churches	..	17	17	13	3	1	17	..	39,195
Public buildings	..	42	42	28	13	1	42	..	248,325
Stables	..	55	55	45	6	3	54	1	109,342
Frame buildings	..	229	230	184	24	21	229	1	192,343
Total	3	1,494	1,497	1,108	274	106	1,488	9	\$4,142,070
Special applications for erection of small frame structures, etc.	6	590	596	378	..	215	593	3	..

## Violations of Law.

NATURE.	Pending Dec. 31, 1880.	Received since.	Total for Disposition.	DISPOSITION.				Total—Final Disposition.	Pending Dec. 31, 1881.	Forwarded for Prosecution.
				Removed before action in Courts.	Removed on Order of Courts.	Dismissed by Courts.	Discontinued.			
Defective construction, materials, etc.	398	437	835	468	1	2	8	479	356	216
Erecting, altering, and removing without permit or after disapproval	98	312	410	313	30	4	6	353	57	162
Fire escapes, exits, etc.	398	556	954	828	1	..	2	831	123	330
Unsafe buildings	111	920	1,031	565	1	..	..	566	465	15
Total	1,005	2,225	3,230	2,174	33	6	16	2,229	1,001	723

## Complaints Received and Investigated.

NATURE.	Pending Decem-ber 31, 1880.	Received since.	Total for Disposition.	Unfounded.	Remedied on Verbal Notice.	Transferred to "Violations."	Total disposed of.	Pending Decem-ber 31, 1881.
Buildings improperly constructed	..	8	8	4	1	3	8	..
Bad material and workmanship	..	2	2	2	..	..	2	..
Defective flues	4	95	99	52	34	8	94	5
Defective gutters and leaders	..	6	6	3	1	1	5	1
Defective hot air pipes	..	1	1	1	..	..	1	..
Erecting and altering buildings without permit	..	43	43	29	2	11	42	1
Erecting frame structures without permit	2	186	188	72	13	95	180	8

NATURE.	Pending Decem-ber 31, 1880.	Received since.	Total for Disposition.	Unfounded.	Remedied on Verbal Notice.	Transferred to "Violations."	Total Disposed of.	Pending Decem-ber 31, 1881.
Furnace built on floor without permit	..	1	1	..	..	1	1	..
Foundation not laid on proper bottom	..	2	2	2	..	..	2	..
Gas jets unprotected	..	1	1	1	..	..	1	..
Hoistway openings unguarded	7	16	23	8	6	7	21	2
Insufficient means of escape, fire-escapes out of repair, etc.	346	3,156	3,502	736	217	873	1,826	1,676
Improper materials used in construction	..	1	1	1	..	..	1	..
Inserting beams in flues	..	1	1	..	1	..	1	..
Iron shutters (front), not opening from outside	25	16	41	12	2	18	32	9
Iron shutters wanting	..	2	2	..	..	2	2	..
Chimney wanting	..	1	1	1	..	..	1	..
Steam-pipes against woodwork	..	1	1	..	1	..	1	..
Unsafe buildings	21	1,475	1,496	610	151	646	1,407	89
Using bad brick and mortar	..	4	4	4	..	..	4	..
Woodwork too near flues or furnaces	1	5	6	..	3	2	5	1
Walls not of proper thickness	..	4	4	2	..	2	4	..
Walls not coped	..	1	1	..	..	1	1	..
Wooden cornice built	..	1	1	1	..	..	1	..
Weight that floor will sustain not posted up	..	1	1	..	1	..	1	..
Total	406	5,030	5,436	1,541	433	1,670	3,644	1,792

Number of notices issued..... 4,442.

## Action of Board of Examiners.

Number of meetings held	30
Number of examinations, candidates for appointment as examiners	25
Of which were found qualified	10
And disqualified	15

## Petitions for Modifications of Law acted upon.

	APPROVED.	DISAPPROVED.	TOTAL.
New buildings	225	21	246
Alterations	165	11	176
Iron shutters	31	2	33
Front iron shutters	12	..	12
Total	433	34	467

## Statement showing Number of Plans Filed for New Buildings and Alterations, with Estimated Cost; Number of Complaints Received, and Number of Cases Recommended for Prosecution Annually, during the last Ten Years.

YEAR.	PLANS FILED FOR NEW BUILDINGS.		PLANS FILED FOR ALTERATIONS TO BUILDINGS.		NUMBER OF COMPLAINTS RECEIVED.	NUMBER OF CASES RECOMMENDED FOR PROSECUTION.
	Number.	Estimated Cost.	Number.	Estimated Cost.		
1872	1,728	\$27,884,870 00	1,318	\$2,788,379 00	No record.	107
1873	1,311	24,936,535 00	1,311	3,496,995 00	"	247
1874	1,388	16,667,417 00	1,429	3,532,147 00	583	247
1875	1,406	18,226,870 00	1,258	3,200,438 00	600	628
1876	1,379	15,903,880 00	1,177	3,635,478 00	383	412
1877	1,432	13,365,114 00	1,308	3,215,125 00	487	200
1878	1,672	15,219,680 00	1,209	2,621,046 00	394	291
1879	2,065	22,567,312 00	1,373	3,300,110 00	499	240
1880	2,252	29,115,335 00	1,352	3,862,111 00	1,884	375
1881	2,682	43,391,300 00	1,497	4,142,070 00	5,030	723
Total for 10 years	17,315	\$227,278,313 00	13,232	\$33,793,899 00	* 9,860	3,470

\* For eight years only.

The preceding statement shows the enormous increase of business in the past year, as compared with former years, which has, moreover, been attended to with greatly decreased expense to the city, as the following facts show:

For the nine years ending with 1880, the average annual appropriation for the Department of Buildings was \$85,841.85.

The amount appropriated for 1881 (limited by law) was \$36,000.

The proportional percentage of the ten years' business transacted in the two periods respectively, the aggregate cost of administration for each, and the cost per centum in each period, are shown by the following statement:

	PERCENTAGE OF TEN YEARS' BUSINESS TRANSACTED.	AGGREGATE COST OF ADMINISTRATION.	COST PER CENTUM OF TEN YEARS' BUSINESS TRANSACTED.
For the nine years, 1872-1880, both inclusive	77	\$772,576 64	\$10,033 46
For the year 1881	23	36,000 00	1,565 21

The statement of business transacted from 1872-1881, inclusive, is confined to the most important and largest items, and the "cost per centum" in the last column of the last preceding statement does not therefore represent the actual cost to the city of the labor involved in the transaction of the four items of business given only, but the "cost per centum" of all the work done; a full comparative statement of the entire work done would, however, show substantially the same result.

The appropriation, which, as before stated, is limited by law to \$36,000 per annum, prevents the employment of a sufficient number of examiners, clerks, etc., to enable a proper and thorough performance of the duties devolving upon this Bureau, and an increase of the present force, with adequate pay, is deemed an absolute necessity.

FIRE ALARM TELEGRAPH.

ALARMS AND CALLS RECEIVED AT HEADQUARTERS.	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	TOTAL FOR THE YEAR.
First alarms, from street boxes.....	290	256	250	331	1,127
“ “ bell towers.....	3	3	..	..	6
“ “ Police Headquarters.....	1	..	1	3	5
“ “ citizens (verbal).....	1	..	1	2	4
“ “ Automatic Signal Telegraph Co.....	7	5	9	9	30
Second alarms.....	22	12	10	21	65
Third alarms.....	12	6	3	18	39
Special calls for companies.....	47	37	24	94	202
“ distant companies simultaneously.....	1	..	..	1	2
“ officers.....	1	..	..	3	4
“ increased water-pressure.....	7	..	..	9	16
“ Insurance Patrol.....	20	15	8	20	63
“ ambulances.....	18	33	33	42	126
“ corps of Sappers and Miners.....	..	..	..	1	1
Total.....	430	367	339	554	1,690
Messages transmitted.....	1,221	1,168	1,027	1,249	4,665
“ received.....	1,075	1,007	1,061	1,239	4,382
Total.....	2,296	2,175	2,088	2,488	9,047
Notices received of companies leaving quarters on verbal alarms.....	235	192	191	195	813

*Bell-Towers.*

Bell-tower and lookout rear of 253 Spring street, quarters of Engine Co. No. 30.  
 " " on Mount Morris square.

Lookout southwest corner of Tenth street and Sixth avenue, Jefferson Market Court-house.

*Combination Alarm and Talking Instruments.*

The following companies were supplied with instruments of this class during the year : Engine Co. No. 16 and Hook and Ladder Co. No. 17.

Six street alarm boxes of a pattern different from the standard box of the Department, furnished for test in 1879, having been found unreliable, were replaced by new ones of the standard kind. Eighteen new boxes were located and connected with the system, and seven of the boxes heretofore located inside the public buildings on Blackwell's, Ward's, and Randall's Islands, were changed to poles outside.

The cable connecting with Blackwell's Island was broken on the first day of the year, and, on examination, found to be unfit for repairs. A new 7-conductor cable was purchased and laid.

An independent circuit connecting the gate-house in Central Park (for increased water-pressure signals) was constructed. Circuits 32, 57, and 58 were extended to the quarters of the new engine company (No. 48), Thomas avenue, near Kingsbridge road (Fordham). Circuits 32, 42, and 46 were renewed. During the drought in October, telegraphic connection was established with Hunter's Point, via Blackwell's Island and Ravenswood, and with (Williamsburgh) Brooklyn, via the Brooklyn Bridge and Headquarters of the Fire Department of that city, for the purpose of signaling the tug-boats placed at the disposal of this Department as hereinbefore reported.

Thirty-five telephone instruments were added to the number on hand at the close of the year 1880, making fifty-six (56) in use in various parts of the Department.

The alteration of the locks on the inner doors, involving also a change in the device for holding the keys in the locks of the outer doors of the boxes, which was found to be necessary in consequence of the occurrence of a number of cases of tampering with the alarm boxes, is nearly completed.

The Superintendent of Telegraph invites attention to the constant and increasing liability of interruptions and damage to the fire alarm telegraph system from the electric light wires, and suggests that restrictions should be placed upon the locating of poles and wires among and over the wires of the Department by the electric lighting companies.

It is convincing proof of the good material used in constructing and repairing the telegraph lines of this Department, and of their general excellent condition, that the severe sleet storm of January 21 caused by far less damage to them than to those of the various telegraph companies, but eleven out of over five thousand poles being broken, though nearly all the Department circuits were at one time rendered useless by the poles of other telegraphs breaking and falling upon them, and other wires falling upon and becoming entangled with the fire alarm telegraph wires. Within two days after the storm one-half of the system was again in working order and the whole within a week. Owing to the great amount of reconstructing in progress by the various telegraph and telephone companies, the system was liable to constant interruptions for several weeks more, compelling the employment of an extra force to maintain it in serviceable condition.

*Summary of Work Performed in the Maintenance, Repairs, and Alterations of the Telegraph Lines and in the Construction of New Ones.*

	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.	TOTAL FOR THE YEAR.
New poles set .....	21	129	87	127	374
Old poles taken down .....	24	81	64	66	235
Old poles reset .....	1	17	13	4	35
Poles painted .....	18	261	395	311	985
Box poles painted .....	..	54	115	35	204
Miles of new wire strung .....	22	41	28	37½	128½
Miles of old wire strung .....	11½	..	..	32	43½
Miles of old wire taken down .....	22	41	23	30	116

The materials and labor included in the foregoing statement, which were not used in the work before enumerated, were expended in general repairs and extensions, etc., in various parts of the city.

* Balance to be turned over to Finance Department .....	\$524 39
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Cash received for penalties, violations of combustible laws.....	\$40 00
Paid to Treasurer N. Y. F. D. Relief Fund, pursuant to law .....	40 00

\* This amount was paid to the Finance Department on January 18, 1882.

## Telegraph Apparatus, etc., in Company Quarters.

Telegraph Apparatus, etc., in Company Quarters.															
No.	COM-PANY.	LOCATION.	NEAREST STREET BOX NUMBER.	LARGE GONG AND STRIKER.	COMBINATION INSTRUMENT.	DIAL INSTRUMENT.	TELEPHONE INSTRUMENT.	No.	COM-PANY.	LOCATION.	NEAREST STREET BOX NUMBER.	LARGE GONG AND STRIKER.	COMBINATION INSTRUMENT.	DIAL INSTRUMENT.	TELEPHONE INSTRUMENT.
1..	Engine.	165 West Twenty-ninth street .....	438	25	53	50	50	34..	Engine.	440 West Thirty-third street.....	434	25	53	56	..
2..	"	530 West Forty-third street.....	514	32	53	56	56	35..	"	223 East One Hundred and Nineteenth street	748	27	54	57	57
3..	"	417 West Seventeenth street.....	352	25	53	..	65	36..	"	2333 Fourth avenue .....	766	27	54	..	..
4..	"	39 Liberty street.....	36	30	52	55	55	37..	"	83 Lawrence street .....	762	27	54	57	57
5..	"	340 East Fourteenth street.....	344	26	53	50	50	38..	"	{ Tenth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets .....	833	27	54	57	..
6..	"	100 Cedar street .....	33	30	52	..	..	39..	"	159 East Sixty-seventh street.....	626	32	58	56	..
7..	"	22 Chambers street .....	75	29	52	{ See H. }	..	40..	"	{ Sixty-eighth street, between Tenth avenue and Boulevard.....	615	23	54	56	..
8..	"	165 East Fifty-first street.....	546	28	54	..	..	41..	"	501 North Third avenue.....	795	27	54*	..	..
9..	"	55 East Broadway.....	134	29	52	55	..	42..	"	{ Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets .....	896	32	58*	57	..
10..	"	8 Stone street .....	7	31	52	55	..	43..	"	Pier 1, North river (Fire boat).....	5	31	52	..	55
11..	"	437 East Houston street.....	246	31	52	55	55	44..	"	221 East Seventy-fifth street .....	636	28	58	..	57
12..	"	261 William street.....	91	29	52	..	..	45..	"	Division street, near Boston road .....	926	32	58*	57	..
13..	"	99 Wooster street.....	217	29	52	..	..	46..	"	Morris street, near Washington avenue.....	929	32	58*	57	..
14..	"	14 East Eighteenth street.....	359	28	53	50	50	47..	"	{ One Hundred and Forty-ninth street, between Eagle and Robbins avenues.....	797	32	58*	57	..
15..	"	269 Henry street.....	176	30	52	55	55	48..	"	Thomas avenue, Fordham.....	937	32	58	57	57
16..	"	223 East Twenty-fifth street .....	385	26	54*	..	65	1..	H. & L.	26 Chambers street .....	75	29	52	55	55
17..	"	91 Ludlow street.....	192	29	52	55	..	2..	"	126 East Fiftieth street .....	545	26	54	56	56
18..	"	132 West Tenth street.....	317	25	53	50	65-50	3..	"	108 East Thirteenth street .....	342	26	54	50	50
19..	"	355 West Twenty-fifth street.....	414	28	53	50	50	4..	"	788 Eighth avenue .....	535	25	54	56	56
20..	"	47 Marion street .....	218	29	52	..	50	5..	"	96 Charles street.....	285	25	53	50	50
21..	"	216 East Fortieth street.....	485	28	54	56	..	6..	"	77 Canal street.....	151	31	52	55	55
22..	"	159 East Eighty-fifth street.....	657	27	58	..	57	7..	"	217 East Twenty-eighth street .....	423	28	54	56	56
23..	"	235 West Fifty-eighth street.....	573	25	54	56	56	8..	"	7 North Moore street .....	143	29	52	55	55
24..	"	78 Morton street.....	253	25	53	55	55	9..	"	195 Elizabeth street.....	219	30	52	55	55
25..	"	342 Fifth street .....	272	26	53	50	..	10..	"	191 Fulton street.....	43	30	52	55	55
26..	"	220 West Thirty-seventh street.....	457	25	53	56	56	11..	"	742 Fifth street .....	276	26	53	50	50
27..	"	173 Franklin street.....	122	31	52	..	..	12..	"	243 West Twentieth street .....	355	28	53	50	..
28..	"	604 East Eleventh street.....	327	26	53	..	50	13..	"	159 East Eighty-seventh street.....	665	27	54	57	..
29..	"	193 Fulton street.....	43	30	52	{ See H. }	..	14..	"	120 East One Hundred and Twenty-fifth street	755	27	54	57	57
30..	"	253 Spring street.....	215	31	52*	55	55	15..	"	{ Tenth avenue, between Ninety-seventh and Ninety-eighth streets.....	672	28	54	57	..
31..	"	116 Leonard street.....	126	30	52	55	55	16..	"	{ One Hundred and Forty-third street, near Third avenue.....	792	27	54*	57	57
32..	"	108 John street.....	47	31	52	55	55	17..	"	{ One Hundred and Sixty-sixth street, between Washington and Third avenues....	895	32	58*	..	..
33..	"	252 Mercer street.....	264	26	53*	50	50	18..	"	{ Ogden avenue, between Birch and Union streets.....	829	32	58	58	..

An \* denotes a small bell instrument in place of regular combination instrument. Where the number of the circuit does not appear no instrument is supplied of the class named in the heading.

## SANITARY CONDITION OF THE UNIFORMED FORCE, ETC.

Number of Cases of Injuries and Diseases, with Loss of Time, by Companies and Grades, during the Year.

COMPANY.	CAUSE.	FOREMEN.		ASSISTANT FOREMEN.		ENGINEERS OF STEAMERS.		ASSISTANT ENGINEERS OF STEAMERS.		FIREMEN.		PRIVATES.		TOTAL INJURIES.		TOTAL DISEASES.		AGGREGATE INJURIES AND DISEASES.	
		No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.
Engine 1.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	5	2	14	3	19	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	2	8	1	2	..	..	3	10	6	29
" 2.....	{ Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	1	2	1	7	..	..	..	..	2	9	2	9
" 3.....	{ Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	2	33	..	..	..	..	2	33	2	33
" 4.....	{ Injuries.....	..	..	..	..	..	..	1	27	1	14	..	..	2	41	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	1	45	..	..	..	..	..	..	1	45	3	86
" 5.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	5	..	..	1	5	..	..	..	..
	{ Diseases .....	..	..	2	89	..	..	1	7	1	9	..	..	..	..	4	105	5	110
" 6.....	{ Injuries.....	1	5	..	..	1	5	..	..	1	10	1	17	4	37	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	9	144	1	8	..	..	10	152	14	189
" 7.....	{ Injuries.....	..	..	..	..	..	..	1	8	..	..	4	105	5	113	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	3	13	2	56	..	..	5	69	10	182
" 8.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	3	..	..	..	..	1	3	1	3
	{ Diseases .....	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..	..	..	..
" 9.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	1	1	1	2	2	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	2	23	..	..	..	..	2	23	4	25
" 10.....	{ Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Diseases .....	2	54	1	87	..	..	1	5	3	126	..	..	..	..	7	272	7	272
" 11.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	8	..	..	1	8	..	..	..	..
	{ Diseases .....	..	..	1	3	..	..	1	5	1	7	..	..	..	..	3	15	4	23
" 12.....	{ Injuries.....	..	..	..	..	..	..	..	..	1	43	2	29	3	72	..	..	..	..
	{ Diseases .....	1	8	1	5	1	4	1	6	2	100	..	..	..	..	6	123	9	195
" 13.....	{ Injuries.....	..	..	1	93	1	10	1	11	..	..	1	23	4	137	..	..	..	..
	{ Diseases .....	3	84	1	12	..	..	..	..	2	16	1	19	..	..	7	131	11	268
" 14.....	{ Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Diseases .....	1	8	..	..	..	..	..	..	1	52	..	..	..	..	2	60	2	60
" 15.....	{ Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	..	..	1	15	..	..	..	..	1	15	1	15
" 16.....	{ Injuries.....	..	..	1	8	..	..	..	..	2	7	..	..	3	15	..	..	..	..
	{ Diseases .....	..	..	..	..	..	..	1	2	2	16	..	..	..	..	3	18	6	33

COMPANY.	CAUSE.	FOREMEN.		ASSISTANT FOREMEN.		ENGINEERS OF STEAMERS.		ASSISTANT ENGINEERS OF STEAMERS.		FIREMEN.		PRIVATES.		TOTAL INJURIES.		TOTAL DISEASES.		AGGREGATE INJURIES AND DISEASES.	
		No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.
Engine 17.....	Injuries.....	1	7	..	..	..	..	..	..	3	59	..	..	4	66	..	..	..	..
	Diseases.....	1	10	..	..	..	..	1	3	1	1. d.	..	..	..	..	3	13	7	79
" 18.....	Injuries.....	..	..	..	..	..	..	..	..	1	1	..	..	1	1	..	..	..	..
	Diseases.....	..	..	..	..	2	48	..	..	1	2	..	..	..	..	3	50	4	51
" 19.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	1	8	..	..	..	..	2	8	..	..	..	..	3	16	3	16
" 20.....	Injuries.....	..	..	..	..	2	15	..	..	2	15	..	..	4	30	..	..	..	..
	Diseases.....	..	..	..	..	..	..	2	16	2	13	3	10	..	..	7	39	11	69
" 21.....	Injuries.....	..	..	..	..	..	..	..	..	1	13	..	..	1	13	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	..	2	108	..	..	2	108	3	121	
" 22.....	Injuries.....	..	..	..	..	..	..	..	..	1	40	..	..	1	40	..	..	..	..
	Diseases.....	1	15	..	..	..	..	..	..	4	94	..	..	..	..	5	109	6	149
" 23.....	Injuries.....	..	..	..	..	..	..	..	..	2	9	..	..	2	9	..	..	..	..
	Diseases.....	2	45	..	..	..	..	3	15	5	66	..	..	..	..	10	126	12	135
" 24.....	Injuries.....	..	..	..	..	..	..	..	..	1	20	..	..	1	20	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	1. d.	..	..	..	..	..	..	1	..	2	20
" 25.....	Injuries.....	1	25	..	..	1	18	..	..	..	..	..	..	2	43	..	..	..	..
	Diseases.....	1	7	..	..	..	..	..	..	1	2	..	..	..	..	2	9	4	52
" 26.....	Injuries.....	..	..	..	..	..	..	1	22	..	..	..	..	1	22	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	22	..
" 27.....	Injuries.....	1	2	..	..	1	10	..	..	3	23	3	92	8	127	..	..	..	..
	Diseases.....	1	15	..	..	..	..	..	..	..	..	..	..	..	..	1	15	9	142
" 28.....	Injuries.....	1	5	..	..	..	..	..	..	2	146	..	..	3	151	..	..	..	..
	Diseases.....	1	69	2	10	..	..	..	..	4	60	..	..	..	..	7	139	10	290
" 29.....	Injuries.....	2	25	..	..	..	..	..	..	..	5	39	7	64	..	..	..	..	..
	Diseases.....	1	10	..	..	..	..	..	..	..	4	43	..	..	5	53	12	117	..
" 30.....	Injuries.....	1	3	..	..	..	..	..	..	2	27	..	..	3	30	..	..	..	..
	Diseases.....	1	8	..	..	..	..	2	36	2	16	..	..	..	..	5	60	8	90
" 31.....	Injuries.....	..	..	..	..	1	83	..	..	..	2	10	3	93	..	..	..	..	..
	Diseases.....	..	..	..	..	1	5	..	..	2	89	2	9	..	..	5	103	8	196
" 32.....	Injuries.....	1	4	..	..	..	..	1	7	4	23	1	40	7	74	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	7	130	..	..	..	..	7	130	14	204
" 33.....	Injuries.....	1	8	..	..	1	11	..	..	..	..	..	..	2	19	..	..	..	..
	Diseases.....	2	10	..	..	1	4	..	..	1	119	1	5	..	..	5	138	7	157
" 34.....	Injuries.....	..	..	..	..	..	..	1	5	5	150	1	5	7	160	..	..	..	..
	Diseases.....	1	3	..	..	..	..	..	..	..	..	..	..	..	..	1	3	8	163
" 35.....	Injuries.....	..	..	..	..	..	..	1	10	2	10	..	..	3	20	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	31	1	5	..	..	..	..	2	36	5	56
" 36.....	Injuries.....	..	..	..	..	..	..	..	..	1	25	..	..	1	25	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	85	..	..	..	..	3	85	4	110
" 37.....	Injuries.....	1	60	..	..	..	..	..	..	2	8	..	..	3	68	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	2	23	..	..	..	..	2	23	5	91
" 38.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	19	1	3	1	6	..	..	3	28	3	28
" 39.....	Injuries.....	..	..	1	6	..	..	..	..	1	20	..	..	2	26	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	2	4	27	..	..	..	..	5	29	7	55
" 40.....	Injuries.....	..	..	..	..	..	..	..	..	1	113	..	..	1	113	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	54	..	..	..	..	3	54	4	167
" 41.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	1	1	..	..	..	..	1	5	..	..	..	..	2	6	2	6
" 42.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	3	1	8	..	..	..	..	2	11	2	11
" 43.....	Injuries.....	1	5	..	..	..	..	1	8	..	..	*1	..	2	13	..	..	..	..
	Diseases.....	..	..	..	..	..	..	2	6	..	..	..	81	..	..	3	87	5	100
" 44.....	Injuries.....	..	..	1	40	..	..	..	..	1	2	..	..	2	42	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	16	..	..	..	..	3	16	5	58
" 45.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	..	..	..	..	1	5	..	..	1	174	..	..	2	179	2	179
Hook and Ladder 1.....	Injuries.....	1	68	..	..	..	..	..	..	4	102	1	11	6	181	..	..	..	..
	Diseases.....	1	50	..	..	..	..	..	..	..	..	..	..	..	..	1	50	7	231
" 2.....	Injuries.....	..	..	..	..	..	..	..	..	1	30	..	..	1	30	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	2	7	..	..	..	..	2	7	3	37
" 3.....	Injuries.....	..	..	1	50	..	..	..	..	1	6	..	..	2	56	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	6	2	53	..	..	5	59	7	115
" 4.....	Injuries.....	..	..	..	..	..	..	..	..	1	18	..	..	1	18	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	8	70	..	..	..	..	8	70	9	88
" 5.....	Injuries.....	..	..	..	..	..	..	..	..	2	150	..	..	2	150	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	2	11	1	3	..	..	3	14	5	164
" 6.....	Injuries.....	..	..	..	..	..	..	..	..	5	111	3	24	8	135	..	..	..	..
	Diseases.....	2	10	..	..	..	..	..	..	4	52	..	..	..	..	6	62	14	197
" 7.....	Injuries.....	..	..	..	..	..	..	..	..	4	142	2	51	6	193	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	2	25	..	..	..	..	2	25	8	218
" 8.....	Injuries.....	..	..	..	..	..	..	..	..	5	170	1	30	6	200	..	..	..	..
	Diseases.....	..	..	1	110	..	..	..	..	2	97	..	..	..	..	3	207</		

\* Pilot.

COMPANY.	CAUSE.	FOREMEN.		ASSISTANT FOREMEN.		ENGINEERS OF STEAMERS.		ASSISTANT ENGINEERS OF STEAMERS.		FIREMEN.		PRIVATES.		TOTAL INJURIES.		TOTAL DISEASES.		AGGREGATE INJURIES AND DISEASES.	
		No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.	No. Cases.	No. Days Lost.
Hook and Ladder 11.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	1	71	1	5	..	..	..	..	1	8	2	19	..	..	5	103	5	103
" 12.....	Injuries.....	..	..	..	..	..	..	..	..	2	18	..	..	2	18	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	4	125	..	..	..	..	4	125	6	143
" 13.....	Injuries.....	..	..	..	..	..	..	..	..	6	99	..	..	6	99	..	..	..	..
	Diseases.....	..	..	1	6	..	..	..	..	1	10	..	..	..	..	2	16	8	115
" 14.....	Injuries.....	..	..	..	..	..	..	..	..	5	77	..	..	5	77	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	1	83	..	..	..	..	1	83	6	160
" 15.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	30	1	4	..	..	4	34	4	34
" 16.....	Injuries.....	..	..	..	..	..	..	..	..	1	5	..	..	1	5	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	1	40	1	2	..	..	2	42	3	47
" 17.....	Injuries.....	1	25	..	..	..	..	..	..	2	50	4	88	7	163	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	3	85	..	..	..	..	3	85	10	248
" 18.....	Injuries.....	..	..	..	..	..	..	..	..	1	24	..	..	1	24	..	..	..	..
	Diseases.....	1	31	..	..	..	..	..	..	2	18	..	..	..	..	3	49	4	73
" 19.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	4	55	..	..	..	..	4	55	4	55
Companies.....	Injuries.....	14	242	5	197	8	152	8	98	87	1,837	41	677	163	3,203	..	..	..	..
	Diseases.....	24	508	14	339	5	61	23	208	135	2,177	33	637	..	..	234	3,930	397	7,133
Chiefs of Battalion.....	Injuries.....	..	..	..	..	..	..	..	..	..	..	..	..	3	188	..	..	..	..
	Diseases.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	208	7	396
Total.....	Injuries and Diseases.....	38	750	19	536	13	213	31	306	222	4,014	74	1,314	166	3,391	238	4,138	404	7,529

## Number of Cases of Injury and Disease, and Loss of Time, for Five Years.

	INJURIES.		DISEASES.		AGGREGATE.	
	No.	Days Lost.	No.	Days Lost.	No.	Days Lost.
During 1877.....	59	1,818	144	1,170	203	2,988
" 1878.....	74	1,374	146	2,379	220	3,753
" 1879.....	153	2,670	205	2,086	358	4,756
" 1880.....	188	3,879	207	2,916	395	6,795
" 1881.....	166	3,391	238	4,138	404	7,529
Total for five years.....	640	13,132	940	12,689	1,580	25,821

## Examination of Candidates for Appointment.

Number found qualified.....	93
" disqualified.....	99
Total examined.....	192

## Comparative Classification of Diseases and Injuries for the Years 1881, 1880, 1879, 1878, and 1877.

	1881.	1880.	1879.	1878.	1877.
Abscess of arm.....	..	2	1	2	1
" ear.....	..	..	..	1	1
" face.....	4	1	2	..	1
" foot.....	2	1	1	2	1
" hand.....	4	4	3	1	..
" nose.....	..	1	1	2	1
" thigh.....	2	5	..	1	..
Apoplexy.....	..	..	1	1	..
Bronchitis, acute.....	47	41	30	15	16
Burns, severe.....	12	10	9	11	15
Conjunctivitis, acute.....	8	15	10	12	11
Contusions, severe.....	54	64	51	20	13
Cystitis, acute.....	..	4	..	2	..
Concussion of brain.....	..	4	..	..	1
" spine.....	1	..	..	..	..
Diarrhoea.....	15	24	21	21	4
Dislocation of ulna.....	2	3	1	2	4
" shoulder.....	..	3	2	2	1
" wrist.....	..	1	..	..	..
" ankle.....	..	2	..	2	..
Dysentery.....	6	1	4	2	1
Diphtheria.....	1	3	4	3	..
Erysipelas, facial.....	1	1	2	1	1
Epistaxis.....	2	2	..	2	..
Epididymitis.....	1	..	..	..	..
Epilepsy.....	..	..	2	1	1
Fracture of femur.....	..	..	1	..	..
Fracture of fingers, simple.....	..	..	1	..	..
" " compound comminuted.....	..	4	..	..	..
" humerus.....	..	1	2	..	..
" radius.....	1	1	..	..	1
" base of skull.....	..	..	2	..	..
" clavicle.....	1	..	..	..	1
" sternum.....	..	..	..	2	..
" ribs.....	1	2	3	2	2
" thigh.....	..	..	..	1	..
" fibula.....	1	2	1	..	1
" tibia.....	2	1	1	2	..
" fibula, simple.....	..	1	2	..	..
" fibula, compound comminuted.....	..	1	..	..	..
" fibula and tibia, compound comminuted.....	1	..	..	..	..
" ulna.....	1	..	..	..	..
" patella.....	1	..	1	2	1
Frost bite, hands.....	1	..	..	..	..
Gastritis, acute.....	21	25	18	16	18
Gangrene of lung.....	1	..	1	..	..
Hæmoptysis.....	..	2	4	3	5
Hæmorrhoids.....	7	..	..	..	..
Inflammation of bowels.....	..	5	..	..	..
Iritis.....	1	..	..	..	..
Laryngeal hæmorrhage.....	..	..	1	..	..
Laryngitis, acute.....	34	30	18	20	21
Measles.....	1	1	..	..	..
Mania, acute.....	..	2	..	1	..
Meningitis, acute.....	1	1	1	2	..
Malarial fever.....	10	10	11	13	9
Melancholia, acute.....	..	1	1	..	..
Neuralgia, facial.....	4	2	1	2	..
Overcome by heat and smoke.....	9	22	18	20	16
Peri-typhilitis.....	2	2	2	..	..
Pemphigus.....	..	..	..	..	1
Phthisis.....	9	9	3	4	6
Pleurisy.....	7	10	4	6	5
Pleurodynia.....	..	..	1	2	1
Pneumonia.....	5	14	10	11	6
" pleuro.....	..	3	3	4	2
Prolapsus ani.....	..	..	..	1	..
Remittent fever.....	1	1	2	1	3
Renal colic.....	2	..	..	..	..
Rheumatism, acute articular.....	10	6	5	3	6
" lumbar.....	8	16	14	17	9
Synovitis, acute traumatic.....	..	6	..	..	..
Scarlet fever.....	1	..	..	..	..
Sciatica.....	..	2	1	2	..
Softening of the brain.....	1	..	..	..	..

	1881.	1880.	1879.	1878.	1877.	NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF RETIREMENT.	CAUSE OF RETIREMENT.	DIED.
Sprained ankles.....	16	20	21	16	12	Frederick Lord.....	Fireman.....	H. & L. 13...	May 11, '66	Feb. 1, '78	Phthisis.....	
" wrist.....	2	7	3	"	"	Thomas Henry.....	"	" 13...	Sept. 18, '65	April 1, '78	Chronic rheumatism	
Stone in bladder.....	1	"	"	"	"	William Bower.....	"	Engine 17...	Oct. 1, '69	" 1, '78	General paresis....	Dec. 28, '78
Tonsillitis, acute.....	21	24	19	21	20	Samuel L. Hunt.....	"	H. & L. 14...	Sept. 15, '65	June 1, '78	Phthisis.....	
Ulcer of the stomach.....	"	"	"	"	"	William F. Wilson..	{ Ass't Engineer of Steamer.. }	Engine 5....	" 18, '65	April 4, '79	Dilated heart.....	
Vertigo.....	3	"	"	"	"	William Gallagher..	Fireman.....	" 41...	Feb. 1, '73	June 15, '79	Chronic rheumatism	
Wound of abdomen.....	1	"	"	"	"	Michael Purcell....	Eng'r of Steamer..	" 15...	Mar. 15, '73	July 1, '79	Phthisis.....	June 6, '81
" face.....	2	9	2	2	4	Dennis J. Leary.....	Fireman.....	" 10...	" 1, '73	" 1, '79	Chronic rheumatism	
" foot.....	8	2	1	2	4	Winfield S. Rowland.	"	H. & L. 13...	" 1, '73	" 1, '79	Phthisis.....	Aug. 27, '79
" groin.....	2	4	4	2	"	Malachi Haley.....	"	Engine 12...	Oct. 20, '65	Aug. 1, '79	Chronic rheumatism	
" hand.....	10	15	16	12	17	Francis Murray.....	"	H. & L. 18...	Sept. 29, '65	Oct. 1, '79	Varicose ulcers....	
" knee.....	2	6	2	4	1	Edward McGaffney..	"	Engine 33...	Jan. 15, '68	" 1, '79	{ Total loss of eye- sight..... }	
" scalp.....	1	7	11	8	6	Albert Hallenback..	{ Ass't Engineer of Steamer.. }	" 32...	Mar. 20, '76	" 1, '79	Chronic sciatica...	
" thigh.....	"	3	3	1	"	James McLane.....	Fireman.....	" 19...	Aug. 12, '68	" 1, '79	Hemiplegia.....	
" scrotum.....	"	"	1	"	"	John B. Wilson.....	"	" 13...	Oct. 20, '65	Jan. 1, '80	Epilepsy.....	
" cornea.....	"	"	"	2	"	William H. Adams....	"	H. & L. 11...	July 20, '66	Mar. 11, '80	Varicose ulcers....	
" chest.....	"	1	"	"	"	James A. Cullen.....	"	" 14...	Oct. 8, '70	" 11, '80	Phthisis.....	
" arm.....	"	"	"	"	1	Wm. A. Robinson....	"	" 16...	May 15, '69	June 1, '80	"	
						Owen J. Shanley....	"	" 7...	Jan. 9, '69	July 1, '80	Loss of eyesight...	
						Alexander Sharp....	"	Engine 39...	Nov. 15, '71	" 1, '80	Chronic sciatica....	
						Benjamin C. Dean....	"	" 15...	Oct. 2, '65	Nov. 18, '80	Insufficient eyesight	
						John Shaller.....	"	" 39...	Sept. 15, '71	Jan. 1, '81	General paresis....	
						John H. Ward.....	"	" 9...	Feb. 1, '73	" 1, '81	Phthisis.....	
						Luke Smith.....	Private.....	" 38...	Dec. 5, '77	" 1, '81	"	Mar. 23, '81
						William H. Guy.....	Fireman.....	H. & L. 15...	Aug. 15, '72	" 1, '81	"	
						Joseph Linder.....	"	" 4...	Nov. 17, '65	" 1, '81	"	
						And. C. McKelvey..	"	Engine 18...	Oct. 1, '69	" 1, '81	"	
						James Horn.....	Ass't Foreman...	" 1...	Sept. 11, '65	" 1, '81	Chronic sciatica....	
						John P. Flood.....	"	H. & L. 7...	" 1, '72	May 5, '81	Phthisis.....	Nov. 1, '81
						Elisha Van Brunt....	Fireman.....	Engine 34...	" 29, '65	" 5, '81	Amputation of leg..	
						Robert J. Gould....	"	" 33...	July 3, '72	" 5, '81	Phthisis.....	
						August Moehring....	"	" 32...	Sept. 1, '75	" 5, '81	Bright's disease....	June 22, '81
						Albert Cox.....	"	" 22...	Jan. 1, '66	" 5, '81	Phthisis.....	
						John McKowen.....	"	H. & L. 8...	Sept. 8, '65	" 5, '81	"	
						Peter Van Orden....	Pilot.....	Engine 43...	Apr. 20, '75	" 5, '81	"	
						Geo. W. Quackenbush	Foreman.....	" 10...	Oct. 16, '65	July 13, '81	Chronic rheumatism	
						William W. Rhodes..	Chief of Battalion.	10th Battal'n.	Sept. 7, '65	Oct. 14, '81	Paralysis.....	
						Wm. S. Schoonmaker	Fireman.....	Engine 36...	Feb. 1, '74	Nov. 30, '81	Dilation of heart...	
						Joseph R. Harway..	"	H. & L. 6...	Mar. 17, '69	Dec. 2, '81	Paralysis.....	
						Robert Black.....	Eng'r of Steamer..	Engine 18...	Aug. 15, '69	" 31, '81	Softening of brain..	

## Deaths in the Uniformed Force.

GRADES.	CAUSE ATTRIBUTABLE TO DUTY.				CAUSE NOT ATTRIBUTABLE TO DUTY.				TOTAL.
	Apoplexy.	Phthisis.	Pneumonia.	Total.	Cancer of Stomach.	Stab Wound.	Typhilitis.	Total.	
Chief of Battalion.....	"	"	"	"	1	"	"	1	1
Foreman.....	1	"	"	1	"	"	"	"	1
Engineer of Steamer.....	"	"	1	1	"	"	"	"	1
Assistant Engineer of Steamer.....	"	"	1	1	"	"	"	"	1
Fireman.....	"	1	"	1	"	1	1	2	3
Total.....	1	1	2	4	1	1	1	3	7

## Retired from all Service.

GRADE.	CAUSE ATTRIBUTABLE TO DUTY.							CAUSE NOT ATTRIBUTABLE TO DUTY.	Aggregate.
	Bright's Disease.	Chronic Rheumatism.	Dilation of Heart.	Paralysis.	Phthisis.	Softening of the Brain.	Total.	Amputation of Leg.	
Chief of Battalion.....	"	"	"	1	"	"	1	"	1
Foreman.....	"	1	"	"	"	"	1	"	1
Assistant Foreman.....	"	"	"	"	1	"	1	"	1
Engineer of Steamer.....	"	"	"	"	"	1	1	"	1
Firemen.....	1	"	1	1	3	"	6	1	7
Pilot.....	"	"	"	"	1	"	1	"	1
Total.....	1	1	1	2	5	1	11	1	12

## Relieved from Service at Fires.

GRADE.	CAUSE ATTRIBUTABLE TO DUTY.							CAUSE NOT ATTRIBUTABLE TO DUTY.	Aggregate.
	Bright's Disease.	Hæmorrhoids.	Mental Aberration.	Near-Sightedness.	Rheumatism.	Chronic Meningitis.	Total.	Amputation of Leg.	
Chief of Battalion.....	"	1	"	"	"	"	1	"	1
Assistant Foreman.....	"	"	"	1	"	"	1	"	1
Firemen.....	"	"	1	"	1	1	3	"	3
Private.....	1	"	"	"	"	"	1	"	1
Total.....	1	1	1	1	1	1	6	"	6

Statistics, relating to the retirements, relieved from service at fires, and deaths which occurred in the uniformed force of the Department since its organization in 1865:

## Members Retired from all Service.\*

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF RETIREMENT.	CAUSE OF RETIREMENT.	DATE.
John McNamara....	Fireman.....	H. & L. 10...	Oct. 20, '65	Sept. 5, '73	Hernia.....	
John J. Cooper.....	"	Engine 10...	Mar. 13, '68	June 1, '77	Acute mania.....	June 30, '78
James Commisky....	Ass't Foreman..	" 29...	" 1, '73	Sept. 27, '77	"	
John F. Beechinor..	Fireman.....	" 29...	Dec. 1, '70	Nov. 1, '77	Epilepsy.....	
James Buckley.....	"	H. & L. 13...	May 4, '75	Jan. 1, '78	"	Feb. 26, '80
John Cotton.....	"	Engine 23...	Oct. 1, '65	" 1, '78	General paresis....	
Richard Webb.....	"	Chem Eng. 3.	June 17, '67	" 1, '78	"	Mar. 9, '78
Wm. D. Clendenning	"	Engine 36...	Jan. 16, '73	" 1, '78	Phthisis.....	" 21, '80
Wm. K. Ransom....	"	" 38...	Oct. 2, '65	" 1, '78	"	
George W. Berrien..	{ Ass't Engineer of Steamer.. }	" 31...	Aug. 13, '65	" 1, '78	"	

\* No retirements for disability were made prior to 1873.

NAME.	GRADE.	Co.	DATE OF APPOINTMENT.	WHEN RELIEVED.	CAUSE.	REMARKS.
Benjamin C. Dean.	Fireman.....	Engine 15	October 2, 1865.	Dec. 31, '77.	Near-sightedness.	{ Retired from all service Nov. 18, '80. Retired from all service Aug. 1, '79. Retired from all service Feb. 1, '78. Retired from all service Oct. 1, '79.
Malachi Haley....	"	" 12	" 20, 1865.	" 31, '77.	Rheumatism.....	
Frederick Lord....	"	H. & L. 13	May 11, 1866....	" 31, '77.	Phthisis.....	
James McLane....	"	Engine 19	August 12, 1868..	" 31, '77.	Paralysis.....	
Michael Pettit....	"	" 19	October 17, 1870..	" 31, '77.	Heart disease....	
Wm. H. Renoud....	Private.....	" 45	{ August 3, 1875 } { as hoseman }	Sept. 30, '81.	Bright's disease...	
Gilbert J. Orr....	{ Chief of Bat- talion..... }	"	September 7, 1865	Nov. 1, '81.	Hæmorrhoids....	
David Closey....	Fireman.....	H. & L. 12	{ Sept. 29, 1865 } { original app't }	Dec. 1, '81.	Mental aberration	
Bernard Conway..	"	Engine 7	April 1, 1870....	" 1, '81.	Rheumatism.....	
William Fogarty..	"	" 10	September 27, 1865	" 1, '81.	Chronic meningitis	
James H. Conklin {	Asst. Fore- man..... }	" 38	December 22, 1866	" 31, '81.	Near-sightedness.	

## Classification of Causes of Members Retired and Relieved from Service at Fires, 1873-1881.

	RETIRED.	RELIEVED.	TOTAL.
Amputation of leg.....	1	"	1
Bright's disease.....	1	1	2
Chronic meningitis.....	"	1	1
Dilated heart.....	2	"	2
Epilepsy.....	2	"	2
Hæmorrhoids.....	"	1	1
Heart disease.....	"	1	1
Hemiplegia.....	1	"	1
Hernia.....	1	"	1
Loss of eye-sight.....	3	"	3
Mania, acute.....	2	"	2
Mental aberration.....	"	1	1
Near-sightedness.....	"	2	2
Paralysis.....	2	1	3
Paresis, general.....	4	"	4
Phthisis.....	20	1	21
Rheumatism, chronic.....	5	2	7
Sciatica, chronic.....	3	"	3
Softening of brain.....	1	"	1
Varicose ulcer.....	2	"	2
Total.....	50	11	61

Members Retired and Relieved from Service at Fires each Year, with Year of Appointment.

	YEAR OF APPOINTMENT.													TOTAL.	
	1865.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	Retired.	Relieved.
1873 { Retired .....	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
1873 { Relieved .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1877 { Retired .....	3	..	1	1	..	1	..	2	..	1	..	..	..	9	..
1877 { Relieved .....	1	1	..	1	..	1	..	..	..	..	..	..	..	4	..
1878 { Retired .....	2	1	..	1	..	..	..	..	..	..	..	..	..	4	..
1878 { Relieved .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1879 { Retired .....	4	..	..	2	..	..	..	..	..	..	1	..	..	11	..
1879 { Relieved .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1880 { Retired .....	3	1	..	3	1	2	1	1	..	..	..	1	13	..	..
1880 { Relieved .....	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
1881 { Retired .....	4	1	..	2	..	2	..	1	2	..	..	..	12	..	..
1881 { Relieved .....	3	1	..	..	1	..	..	..	1	..	..	..	6	..	..
Total. { Retired .....	17	3	1	3	6	2	2	3	7	1	3	1	50	..	..
Total. { Relieved .....	5	2	..	1	..	2	..	..	..	..	1	..	11	..	..
Aggregate .....	22	5	1	4	6	4	2	3	7	1	4	1	61	..	..

List of Deaths in Unformed Force from Organization in 1865 to January 1, 1882.

NAME.	GRADE.	COMPANY.	DATE OF APPOINTMENT.	DATE OF DEATH.	CAUSE OF DEATH.
Robert Wintringham..	Fireman.....	Engine 1....	July 31, '65	Aug. 24, '65	Injuries received, run over by tender at fire, Seventh District, August 14, 1865.
George W. Bell.....	" .....	" 8....	Sept. 18, '65	Nov. 9, '65	Inhaling coal gas at fire, Second District, October 29, 1865.
Thomas Irvin.....	" .....	" 4....	" 8, '65	Dec. 2, '65	Killed by falling walls at fire, Station 5, December 2, 1865.
Dominick Sicot.....	" .....	" 4....	" 8, '65	" 14, '65	Injuries received, fell from roof to ground at fire, Seventh District, November 9, 1865.
Timothy Leary.....	" .....	" 10....	" 8, '65	May 3, '66	Jaundice.
Henry Holte.....	" .....	" 10....	" 8, '65	" 17, '66	Tetanus.
David B. Waters.....	Foreman.....	" 5....	" 25, '65	" 21, '66	Burned to death at fire, Station 43, May 21, 1866.
Peter H. Walsh.....	Fireman.....	" 5....	" 25, '65	" 21, '66	Burned to death at fire, Station 43, May 21, 1866.
Robert Mitchell.....	" .....	" 19....	" 22, '65	Feb. 2, '66	Phth. sis.
Henry Chapman.....	" .....	" 13....	Jan. 3, '66	June —, —	"
Richard Morris.....	" .....	" 29....	Oct. 20, '65	" 8, '67	"
Miles L. Sowarby.....	" .....	H. & L. 10.	Apr. 30, '66	Aug. 27, '67	Injuries received, fell from roof to ground at fire, Station 5, August 27, 1867.
Thomas F. Reilly....	" .....	" 11....	Oct. 27, '65	Nov. 4, '67	Phth. sis.
W. H. Carlock.....	" .....	Engine 12....	Dec. 22, '66	Dec. 18, '67	Paralysis.
John R. Kearns.....	" .....	" 12....	June 14, '66	" 21, '67	Phth. sis.
James Powell.....	" .....	" 5....	Feb. 7, '66	Jan. 30, '68	"
Patrick W. Hennessy..	" .....	H. & L. 3....	Apr. 25, '66	Feb. 12, '68	"
Jacob Tooker.....	" .....	Engine 26....	Oct. 23, '65	Mar. 9, '68	"
Michael Snyder.....	Foreman.....	" 38....	Sept. 18, '65	Apr. 16, '68	Injuries received, trampled on by horses on way to alarm of fire in Eighth District.
Thomas W. Wilson...	Ass't Foreman.	" 16....	" 18, '65	Sept. 26, '68	Heart disease.
John H. Carman.....	Fireman.....	H. & L. 9....	Aug. 1, '66	Jan. 31, '69	Phth. sis.
George Graff.....	Hoseman.....	Engine 37....	Oct. 27, '65	May 20, '69	Injuries received by falling scaffold, while working at his trade.
Thomas W. McCauley..	Foreman.....	" 4....	Sept. 8, '65	Aug. 29, '69	Heart disease.
John J. Bauer.....	Fireman.....	H. and L. 8..	Apr. 4, '68	Sept. 3, '69	Phth. sis.
A. J. McCafferty.....	" .....	Engine 32....	Oct. 20, '65	Oct. 5, '69	Heart disease.
James Whalen.....	Foreman.....	" 6....	Sept. 22, '65	" 16, '69	Fracture of skull, run over by engine proceeding to alarm of fire, Station 46, October 16, 1869.
James Kelly.....	Fireman.....	" 24....	Oct. 11, '65	" 20, '69	Phth. sis.
Thomas Roberts.....	Ass't Foreman.	" 14....	July 29, '68	" 24, '69	Injuries received, run over by tender proceeding to alarm of fire, Station 323, October 24, 1869.
James O'Neill.....	Hoseman.....	" 38....	Dec. 1, '69	Apr. 3, '70	Delir. um tremens.
John Higgins.....	Fireman.....	" 3....	Nov. 22, '65	July 5, '70	Phth. sis.
William H. Scott.....	Foreman.....	" 19....	Oct. 20, '65	Aug. 13, '70	"
Thomas S. Clark.....	Hoseman.....	" 22....	June 11, '70	" 17, '70	"
James J. Nicholson...	Fireman.....	H. & L. 3....	Mar. 1, '70	Dec. 1, '70	"
Mathias Henes.....	" .....	" 4....	Sept. 18, '65	" 4, '70	Fracture of skull, received proceeding to fire, Station 368, November 22, 1867.
James Reilly.....	Engineer.....	Engine 15....	" 18, '65	Jan. 31, '71	Phth. sis.
William Johnson.....	Ass't Foreman.	H. & L. 5....	June 18, '67	Mar. 26, '71	"
Jacob Edler.....	Fireman.....	Engine 16....	Apr. 11, '66	" 27, '71	Injuries received by colliding with H. & L. 7, on way to fire, Station 548, March 18, 1871.
Abraham H. Brown...	" .....	" 14....	Nov. 5, '68	Apr. 14, '71	Heart disease.
James O'Neill.....	" .....	" 12....	Oct. 13, '65	May 25, '71	Pleurisy.
Alonzo A. Smith.....	" .....	" 5....	Sept. 25, '65	June 12, '71	Heart disease.
Christian Ranshlear...	" .....	H. & L. 9....	Nov. 1, '65	" 13, '71	Heart disease.
Edmond Kelley.....	Ass't Foreman.	Engine 14....	Oct. 16, '65	Sept. 19, '71	Phth. sis.
Bernard Sweeny.....	Fireman.....	" 32....	Nov. 1, '69	Oct. 30, '71	"
John E. Willets.....	" .....	" 38....	Oct. 16, '65	Mar. 16, '72	"
Edward Burke.....	" .....	" 4....	Dec. 15, '71	June 29, '72	Injuries due to explosion of chemicals at fire, Station 36, June 22, 1872.
Philip Hawkins.....	Fireman.....	H. & L. 4....	Feb. 21, '66	Aug. 14, '72	Sunstroke.
Jacob Steigler.....	" .....	Engine 23....	" 14, '66	Sept. 8, '72	Burns received at fire, Station 622, September 6, 1872.
Joseph F. Maloy.....	" .....	" 28....	Oct. 20, '65	Dec. 17, '72	Phth. sis.
William F. Craft.....	" .....	" 15....	Sept. 8, '65	Jan. 27, '73	Erysipelas.
George A. Erlacher...	Ass't Engineer.	2d Battalion.	Aug. 22, '66	Feb. 9, '73	Injuries to head, thrown from tender while proceeding to an alarm of fire, Station 38, January 17, 1873.
James McCord.....	Foreman.....	Engine 19....	" 1, '68	" 10, '73	Phth. sis.
Thomas Kearney.....	Fireman.....	" 18....	Feb. 15, '72	June 16, '73	"
Thomas Abbott.....	Engineer.....	" 19....	Sept. 18, '65	Aug. 3, '73	"
Michael F. Rice.....	" .....	" 5....	June 5, '69	Sept. 12, '73	"
George W. Davidson..	Fireman.....	H. & L. 4....	Aug. 22, '66	" 27, '73	Bright's disease of kidneys.
Robert Aitken.....	" .....	" 14....	July 15, '69	Oct. 20, '73	Phth. sis.
W. McKenzie.....	" .....	Engine 24....	Oct. 11, '65	" 20, '73	"
James Plunket.....	" .....	" 23....	June 10, '71	" 24, '73	Injuries received, thrown from engine while proceeding to alarm of fire, Station 587, September 24, 1873.
Thomas Powers.....	Engineer.....	" 4....	Sept. 8, '65	Nov. 18, '73	Paralysis.
John O'Neill.....	Fireman.....	H. & L. 4....	July 23, '70	Aug. 16, '74	Injuries received, run over by H. & L. 4, while proceeding to alarm of fire, Station 585, August 16, 1874.
Adam Jacoby.....	" .....	Engine 36....	Apr. 11, '66	Jan. 26, '75	Gastric fever.
John Hutton.....	" .....	H. & L. 8....	Mar. 16, '71	Feb. 22, '75	Phth. sis.
Edward Sherry.....	" .....	" 13....	July 15, '73	Mar. 17, '75	Abscess of liver.
Michael J. Bannan....	" .....	Engine 13....	Jan. 20, '73	Apr. 13, '75	Heart disease.
John F. Algeo.....	" .....	" 4....	Feb. 1, '74	June 18, '75	Drowned while on leave of absence.
John Doherty.....	" .....	" 6....	Oct. 17, '70	July 10, '75	Pneumonia.
Thomas Donalds.....	Ass't Engineer.	" 15....	Jan. 15, '68	" 20, '75	Heart disease.
George W. Evans.....	Fireman.....	" 20....	Oct. 13, '65	" 26, '75	Paralysis.
Peter Weir.....	Foreman.....	" 23....	" 20, '65	Aug. 12, '75	Bronchitis.
W. H. Nash.....	Chief of Bat'n.	4th Battalion.	Aug. 3, '68	Sept. 14, '75	Killed by breaking of aerial ladder, September 14, 1875.
William Hughes.....	Fireman.....	Engine 9....	Jan. 1, '73	" 14, '75	Killed by breaking of aerial ladder, September 14, 1875.
Philip J. Maus.....	" .....	H. & L. 6....	Oct. 15, '74	" 14, '75	Killed by breaking of aerial ladder, September 14, 1875.
Maurice Stack.....	" .....	Engine 3....	Dec. 12, '66	Dec. 6, '75	Pneumonia.
Patrick McNally.....	Ass't Engineer.	" 38....	Mar. 23, '72	Jan. 27, '76	Phth. sis.
David Muldrew.....	Fireman.....	" 30....	Oct. 20, '65	Feb. 8, '76	Killed by falling walls at fire, Station 167, February 8, 1876.
David Clute.....	" .....	" 30....	July 21, '66	" 8, '76	Killed by falling walls at fire, Station 167, February 8, 1876.
John H. Bush.....	Ass't Foreman.	" 30....	Sept. 14, '65	" 11, '76	Injuries received by falling walls at fire, Station 167, February 8, 1876.
John McDowell.....	Fireman.....	H. & L. 12....	Jan. 1, '70	Apr. 20, '76	Pneumonia.
William Mitchell.....	Foreman.....	" 16....	June 2, '68	" 21, '76	Phth. sis.
James Rooney.....	" .....	Chemical 2..	July 31, '65	May 26, '76	Rheumatism of heart.
J. C. LaRue.....	Fireman.....	Engine 29....	Feb. 1, '74	Dec. 13, '76	"
William Muldrew.....	" .....	H. & L. 5....	Dec. 20, '65	Jan. 12, '77	Phth. sis.
Jacob Van Orden.....	Foreman.....	" 5....	Sept. 25, '65	" 22, '77	Pneumonia.
Wm. H. Leslie.....	Fireman.....	" 13....	Aug. 10, '68	June 7, '77	Pleuro-pneumonia.
John Sears.....	" .....	Engine 3....	Jan. 1, '66	July 9, '77	Phth. sis.
John W. Regan.....	Ass't Foreman.	" 6....	Sept. 11, '65	" 27, '77	Heart disease.
Daniel Dunn.....	Fireman.....	H. & L. 15....	Dec. 19, '66	Aug. 25, '77	Phth. sis.
Joseph Williams.....	" .....	Engine 29....	Oct. 13, '65	Nov. 1, '77	Gangrene of arm, result of wounds received in company quarters, October 28, 1877.
James Rooney.....	Ladderman...	H. & L. 18....	July 31, '65	Mar. 3, '78	Phth. sis.
Charles J. Connolly...	Fireman.....	Engine 6....	May 1, '75	" 14, '78	Fracture of base of skull, fell through sky-light from roof to top floor at fire, Station 43, March 12, 1878.
Martin Walsh.....	Foreman.....	H. & L. 5....	Dec. 1, '65	Aug. 3, '78	Bright's disease of kidneys.
Edward Pottebaum...	Fireman.....	Engine 17....	Jan. 16, '73	Sept. 7, '78	Fracture of base of skull, fell from wagon September 5, 1878, while removing his furniture.
Cornelius Fitzsimmons	" .....	H. & L. 9....	" 18, '71	Oct. 28, '78	Phth. sis.
John W. Irving.....	Private.....	Engine 29....	Dec. 1, '77	Jan. 7, '79	Fracture of skull, instantly killed by falling walls at fire, Station 52, January 7, 1879.
John Reilly (No. 1)...	Fireman.....	" 17....	Feb. 20, '69	" 14, '79	Instantly killed by falling walls at fire, Station 167, January 14, 1879.
Charles Travis.....	" .....	" 11....	Oct. 2, '65	July 19, '79	Dilation of heart.
Arthur Reilly.....	" .....	" 22....	Mar. 1, '73	Sept. 27, '79	Acute nephritis.
William Hallam.....	" .....	" 10....	Apr. 16, '67	Nov. 5, '79	Apoplexy.
John L. Hughes.....	" .....	H. & L. 13....	Sept. 6, '74	" 20, '79	Ulcer of stomach (perforating).
Henry C. Mount.....	" .....	Engine 8....	" 15, '71	Dec. 9, '79	Shock due to injuries received from falling walls at fire, Station 536, November 25, 1879.
Patrick O'Callaghan..	" .....	H. & L. 10....	July 27, '66	Jan. 1, '80	Phth. sis.
Patrick Clark.....	" .....	Engine 23....	Sept. 18, '65	" 1, '80	Shock due to injuries, run over by tender proceeding to Station 534, December 27, 1879.
John O'Rourke.....	Private.....	" 6....	Dec. 4, '79	" 25, '80	Fracture of skull, fell from hay-loft to 5th floor, 9 feet, at fire, Station 37, January 11, 1880.
Thomas J. Dougherty..	Fireman.....	H. & L. 1....	Oct. 17, '66	Feb. 20, '80	Killed by falling walls at fire, Station 125, February 20, 1880.
John F. Cassidy.....	" .....	" 1....	Mar. 1, '73	" 20, '80	Killed by falling walls at fire, Station 125, February 20, 1880.
Dennis J. Doran.....	" .....	Engine 17....	Jan. 1, '73	May 1, '80	Acute meningitis.
John F. L. Du Flon...	Ass't Foreman.	" 38....	July 2, '71	July 16, '80	Phth. sis.
Philip Holton.....	Fireman.....	" 24....	Dec. 18, '74	" 31, '80	Shock due to injuries, fell from 4th floor to ground, 38 feet, at fire, Station 282, July 20, 1880.
Thomas L. Jacobus...	" .....	H. & L. 5....	Sept. 20, '65	Nov. 12, '80	Shock due to injuries, fell from repair shop wagon, at trial of engines, November 9, 1880.
Denton E. Hemsworth	{ Ass't Eng. of } Steamer...	Engine 35....	May 20, '68	Apr. 28, '81	Pneumonia.
Robert King.....	Chief of Bat'n.	3d Battalion.	Oct. 11, '65	May 9, '81	Cancer of stomach.
William Y. Taft.....	Fireman.....	Engine 18....	July 2, '68	June 10, '81	Typhilitis.
George McLaughlin...	" .....	H. & L. 19....	Nov. 6, '65	July 4, '81	Phth. sis.
Thomas Hutchinson...	Foreman.....	" 13....	Sept. 15, '65	" 5, '81	Apoplexy.
John Carney.....	Fireman.....	Engine 17....	Nov. 15, '71	Nov. 21, '81	Stab-wound.
Robert Gemmell.....	Eng. of Steamer	" 30....	June 15, '67	" 22, '81	Pneumonia.

Deaths Each Year, caused by Injuries Received in the Line of Duty, and Other Injuries and Diseases, with Year of Appointment.

DIED IN—	CAUSE.	APPOINTED IN—															Total Injuries in Line of Duty.	Total Disease.	Aggregate.
		1865 *	1866 *	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879			
1865..	{Injuries .....	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
	{Disease .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1866..	{Injuries .....	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
	{Disease .....	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	6	..
1867..	{Injuries .....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	{Disease .....	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	4	5	..
1868..	{Injuries .....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	{Disease .....	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	4	5	..
1869..	{Injuries .....	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	3	..	..
	{Disease .....	3	1	..	1	..	..	..	..	..	..	..	..	..	..	..	5	8	..
1870..	{Injuries .....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	{Disease .....	2	..	..	..	1	2	..	..	..	..	..	..	..	..	..	5	6	..
1871..	{Injuries .....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	{Disease .....	5	..	1	1	1	..	..	..	..	..	..	..	..	..	..	8	9	..
1872..	{Injuries .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	2	..	..
	{Disease .....	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	5	..
1873..	{Injuries .....	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	2	..	..
	{Disease .....	4	1	..	1	2	..	..	1	..	..	..	..	..	..	..	9	11	..
1874..	{Injuries .....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
	{Disease .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1875..	{Injuries .....	..	..	..	1	..	..	..	..	1	1	..	..	..	..	..	3	..	..
	{Disease .....	2	2	..	1	..	1	1	2	1	..	..	..	..	..	..	10	13	..
1876..	{Injuries .....	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
	{Disease .....	1	..	..	1	..	1	..	1	..	1	..	..	..	..	..	5	8	..
1877..	{Injuries .....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
	{Disease .....	3	2	..	1	..	..	..	..	..	..	..	..	..	..	..	6	7	..
1878	{Injuries .....	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	2	..	..
	{Disease .....	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	3	5	..
1879.	{Injuries .....	..	..	..	..	1	..	1	..	..	..	..	..	1	..	..	3	..	..
	{Disease .....	1	..	1	..	..	..	..	..	1	1	..	..	..	..	..	4	7	..
1880..	{Injuries .....	2	1	..	..	..	..	..	..	1	1	..	..	..	..	1	6	..	..
	{Disease .....	..	1	..	..	..	..	1	..	1	..	..	..	..	..	..	3	9	..
1881..	{Injuries .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{Disease .....	3	..	1	2	..	..	1	..	..	..	..	..	..	..	..	7	7	..
Total.....		50	19	3	10	5	5	7	2	7	5	1	..	1	..	1	36	80	116

\* In these years the appointees were not subjected to examination by a Department Medical Officer.

#### Classification of Injuries and Diseases Causing Death.

Drowned, on leave of absence.....	1
Fall from scaffold, working at trade.....	1
Injuries received by falling from wagon, on duty at test of engines.....	1
Injuries received in company quarters.....	1
Injuries received on duty at fires.....	10
Injuries received on way to fires.....	6
Killed exhibiting aerial ladder.....	3
Killed on duty at fires.....	10
Killed on way to fires.....	3
Sun-stroke.....	1
Abscess of liver.....	1
Acute meningitis.....	1
Apoplexy.....	2
Bright's disease.....	3
Bronchitis.....	1
Cancer of stomach.....	1
Erysipelas.....	1
Gastric fever.....	1
Heart disease.....	12
Jaundice.....	1
Paralysis.....	4
Phthisis.....	39
Pleurisy.....	1
Pleuro-pneumonia.....	1
Pneumonia.....	6
Stab wound.....	1
Tetanus.....	1
Typhilitis.....	1
Ulcer of stomach.....	1
Total.....	116

#### APPARATUS.

Seven (7) new steam fire engines were contracted for and received, of the crane neck style, 4th size, manufactured by the Clapp & Jones Mfg. Co., and placed in service with Engine Companies No. 4, 27, 31, 44, 45, 46, and 48.

One 2d size, straight frame, steam fire engine, Allerton maker, placed in service in April, 1869, being worthless for further use in the Department, was sold at auction as the law requires, and the proceeds of the sale turned in to the City Treasury.

Five (5) steam fire engines were extensively repaired (new boilers, etc.) under contract.

One water-tower, referred to in last report as being on trial, was purchased and put in service, running to fires from the quarters of Engine Company No. 7, under a detail of men from that company.

Two new Chiefs of Battalion wagons and one new four-wheeled hose tender were purchased.

The following apparatus were built at the Repair Shops:

One hook and ladder truck, with complete equipment,

One fuel wagon, and

One supply wagon, with tools, implements, etc.

The following apparatus were rebuilt at the Repair Shops:

One two-wheeled hose tender,

Four hook and ladder trucks, and

Three Chiefs of Battalion wagons.

The following general repairs were made at the Repair Shops:

147 steam fire engines, on 27 of which the repairs were extensive.

4 hand " " "

7 chemical fire engines.

4 marine " " "

53 tenders, of which 18 received extensive repairs.

34 hook and ladder trucks.

9 fuel wagons.

68 Chiefs of Battalion wagons.

23 light wagons.

The following apparatus were altered at the Repair Shops:

One water-tower.

Three hook and ladder trucks.

One marine engine.

Four hook and ladder trucks were equipped with sets of steel tools for forcing strong doors, iron shutters, etc., at fires.

Forty-one of the engine companies were each furnished with a siamese connection, length of hose, iron pipe-stick, etc.

Eleven large improved double-coil heater stoves were put up in various company quarters, and attached to the engines. Three single-coil heater stoves were also put up.

The swinging harness was furnished to 14 engine, 7 hook and ladder companies, and for one tender, making in all fifty (50) companies now equipped with the same. Three (3) Chiefs of Battalion wagons were also furnished with this harness.

A large number of parts of apparatus, implements, tools, etc., were manufactured, repaired, and painted in the various branches of the Repair Shops during the year.

The alteration of the marine engine above referred to consisted in making a 3 1/4-inch opening in each water column between the fire pumps, to which the four 2 1/2-inch discharge gates are attached, to each of which openings a 3 1/2-inch valve was attached, operated by a lever to open or close with a single motion of the hand, and fitted to the couplings of the 3 1/4-inch hose in use. While not in any manner interfering with the construction of the pump, this important addition enables the delivery of larger and more effective streams of water, as has been frequently demonstrated.

The alteration of the water-tower, also above referred to, consisted mainly in providing two additional openings in the lower end of the tower pipe, thus rendering it possible to receive four engine streams at the same time and greatly increasing its efficiency; the 1 1/2-inch flexible play-pipes on the upper ends of the section of the tower pipe were replaced by 2 1/2-inch pipes, and furnished with 1 1/2, 1 3/4, 1 3/4, 2, 2 1/4, 2 3/4, and 2 1/2-inch nozzles; adjustable counter-weights were attached to the body of the truck to prevent the possibility of overturning the apparatus while working under a heavy pressure, and, for the same purpose, chains were provided to secure the axles to the shears and body of the truck.

#### HORSES.

There were on hand in the Department on December 31, 1880, as per the annual report

for that year..... 228 horses.

Purchased during the year..... 40 "

268 "

Sold at public auction, being unfit for further service..... 31 "

Died—Of injuries, 4; of diseases, 5..... 9 "

40 "

On hand December 31, 1881..... 228 "

The system of registry and marking horses, which was referred to in the last annual report and which is again described in a preceding part of this report under the head of "Rules and Regulations," has given satisfactory results since its adoption.

#### NEW AND ALTERED BUILDINGS, AND REPAIRS TO BUILDINGS.

The new houses for Engine Companies Nos. 44 and 48, and the rebuilding of the house of Engine Company No. 5, commenced in 1880, were finished in the early part of the year.

New buildings were commenced under contract for Engine Companies Nos. 21 and 37, which were finished before the close of the year, and for Engine Company No. 27 and Hook and Ladder Companies Nos. 16 and 18, all of which remain unfinished. The house for Engine Company No. 37 was built on the lot heretofore occupied by the storehouse, on the same street, and the former engine-house was converted into a storehouse.

Contracts were also made for the alteration and repairs of the houses of Engine Companies Nos. 1 and 31, which were finished before the close of the year, and for Engine Companies Nos. 13 and 26, which remained unfinished.

The houses of Engine Companies Nos. 1, 3, 4, 5, 13, 18, 21, 26, 27, 29, 31, and 37, and Hook and Ladder Companies Nos. 4, 8, and 13, and Headquarters, were also altered and repaired without the execution of formal contracts, the cost of the work being in each case less than the \$1,000 limit prescribed by law for work done in that manner.

The following houses were altered or considerably repaired by a small force of mechanics partly employed for that purpose and partly detailed from the uniformed force: Engine Companies Nos. 8, 13, 14, 16, 17, 34, and the marine engine (No. 43), and Hook and Ladder Company No. 9. A considerable amount of general repairing was done by the force above referred to throughout the Department.

#### NEW SITES FOR ENGINE HOUSES.

Under the provisions of section 13, chapter 742 of the Laws of 1871, application was made for the purchase of a new location for Engine Company No. 33, at present located at No. 252 Mercer street in a small, poorly built, and inconvenient house, leased for \$2,000 per annum, and for the purchase of the house and lot occupied by Hook and Ladder Company No. 17, situated on the north side of One Hundred and Forty-third street, east of Third avenue, for which an annual rental of \$700 is paid, the latter being with a view to the consolidation of this company with Engine Company No. 41, located on Third avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth streets. The commission of city officials acting under the provisions of law above referred to, had, at the close of the year, authorized the purchase of No. 15 Great Jones street, for Engine Company No. 33, at a cost of \$28,000 for house and lot, and of the house and lot on One Hundred and Forty-third street, for \$12,000. It is understood that after a proper search of title, which was at once begun, the purchase of both will be consummated.

A plot, 34x50 feet, adjoining the rear of the lot occupied by the house of Hook and Ladder Company No. 18, on the north side of One Hundred and Sixty-sixth street, between Washington and Third avenues, was purchased by the Board for \$750, the title to which was also undergoing search at the close of the year.

#### BUILDINGS OCCUPIED BY OR UNDER THE CONTROL OF THE DEPARTMENT.

Headquarters—Office of the Board of Commissioners, Bureaus of Chief of Department, Inspector of Combustibles, Fire Marshal and Inspection of Buildings, and offices of the Attorney, Fire Alarm Telegraph, and Medical Officer, 155 and 157 Mercer street.

Repair shops, 130 and 132 West Third street.

Hospital stables, 199 Christie street.

Bell-tower and Lookout, 253 Spring street, rear of quarters of Engine Co. No. 30.

Bell-tower and Lookout, Mount Morris square.

Bell-tower and Lookout, Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.

Lookout, southwest corner of Tenth street and Sixth avenue, Jefferson Market Court-house.

Engine Co. No. 1, 165 West Twenty-ninth street.

" 2, 530 West Forty-third street.

" 3, 417 West Seventeenth street.

" 4, 39 Liberty street.

" 5, 340 East Fourteenth street.

" 6, 100 Cedar street.

" 7, 22 Chambers street.†

" 8, 165 East Fifty-first street.

" 9, 55 East Broadway.

" 10, 8 Stone street.

" 11, 437 East Houston street.

" 12, 261 William street.

" 13, 99 Wooster street.

" 14, 14 East Eighteenth street.

" 15, 269 Henry street.

" 16, 223 East Twenty-fifth street.

" 17, 91 Ludlow street.

" 18, 132 West Tenth street. (Fuel Depot No. 4.)

" 19, 355 West Twenty-fifth street. (Fuel Depot No. 12.)

" 20, 47 Marion street.

" 21, 216 East Fortieth street.

" 22, 159 East Eighty-fifth street. (Fuel Depot No. 14.)

" 23, 235 West Fifty-eighth street.

" 24, 78 Morton street. (Fuel Depot No. 9.)

" 25, 342 Fifth street.

" 26, 220 West Thirty-seventh street.

" 27, 173 Franklin street.

" 28, 604 East Eleventh street.

" 29, 193 Fulton street.

" 30, 253 Spring street.\*

" 31, 116 Leonard street.

" 32, 108 John street.\*

" 33, 252 Mercer street.\*

" 34, 440 West Thirty-third street.

" 35, 223 East One Hundred and Nineteenth street.

" 36, 2333 Fourth avenue.

" 37, 83 Lawrence street.

" 38, Tenth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets.

Engine Co. No. 39, 159 East Sixty-seventh street.  
 " 40, Sixty-eighth street, between Tenth avenue and Boulevard.  
 " 41, 501 North Third avenue.  
 " 42, Fulton avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets.  
 " 43, (marine engine) Pier 1 (new), North river.  
 " 44, 221 East Seventy-fifth street.  
 " 45, Division street, between Boston road and Cross street.  
 " 46, Morris street, between Madison and Washington avenues.  
 " 47, One Hundred and Forty-ninth street, between Eagle and Robbins avenues.  
 " 48, Thomas avenue, near Kingsbridge road.

Hook and Ladder Co. No. 1, 26 Chambers street.†  
 " 2, 126 East Fifth street. (Fuel Depot No. 13.)  
 " 3, 108 East Thirteenth street.  
 " 4, 788 Eighth avenue.  
 " 5, 96 Charles street.  
 " 6, 77 Canal street.  
 " 7, 217 East Twenty-eighth street.  
 " 8, 7 North Moore street.  
 " 9, 195 Elizabeth street.  
 " 10, 191 Fulton street.  
 " 11, 742 Fifth street.  
 " 12, 243 West Twentieth street.  
 " 13, 159 East Eighty-seventh street.  
 " 14, 120 East One Hundred and Twenty-fifth street.  
 " 16, Tenth avenue, between Ninety-seventh and Ninety-eighth streets.  
 " 17, One Hundred and Forty-third street, near Third avenue.\*  
 " 18, One Hundred and Sixty-sixth street, between Washington and Third avenues.  
 " 19, Ogden avenue, between Birch and Union streets.\*

Fuel Depot, No. 1, 5 Duane street.  
 " 2, 160 East Thirty-third street.\* (The rear of this lot is leased by the Department.)  
 " 3, 106 East Thirteenth street.  
 " 4, (see Engine Co. No. 18).  
 " 5, 304 West Forty-seventh street.  
 " 6, 84 Attorney street.  
 " 7, 28 Beaver street.†  
 " 8, 209 East One Hundred and Twenty-second street.  
 " 9, (see Engine Co. No. 24).  
 " 10, 304 Washington street.  
 " 11, 173 Elm street (and store-house).  
 " 12, (see Engine Co. No. 19).  
 " 13, (see Hook and Ladder Co. No. 2).  
 " 14, (see Engine Co. No. 22).

Store-house, 20 Eldridge street.  
 " 180 Clinton street.  
 " 58 Lawrence street.

The building No. 18 Burling slip, formerly used as a store-house, being of no further use to the Department, was turned over to the Commissioners of the Sinking Fund on April 8.

The locations marked thus (\*) are leased by the Department; all others are city property. The locations marked thus (†) are only in part occupied by the Department.

## TREASURER'S REPORT.

The following statements show the receipts, disbursements, and condition of the Relief and Life Insurance Funds for the year:

## New York Fire Department Relief Fund.

Dec. 31, 1880.	Balance on hand.....		\$450,072 88
Dec. 31, 1881.	Receipts—		
	Fines imposed on Uniformed Force.....	\$868 80	
	Penalties, Violation of Combustible Laws.....	525 00	
	Oil Licenses.....	31,180 00	
	Fireworks Permits.....	409 25	
	Powder Licenses.....	186 00	
	Special Permits.....	370 00	
	Fire in Street Permits.....	65 00	
	Chimney Fires.....	305 00	
	Interest on bonds.....	22,885 58	
	Sale of seized explosives.....	63 25	
	Sale of old safe.....	50 00	
			56,907 88
Dec. 31, 1881.	Disbursements—		\$506,980 76
	Pay of Members relieved from Service at Fires.....	\$858 29	
	Pensions of Retired Men.....	21,211 78	
	Pensions of Widows and Orphans of Deceased Members.....	15,338 16	
	Expense account.....	20 00	
			37,478 23
Dec. 31, 1881.	Balance.....		\$469,502 53

## New York Fire Department Life Insurance Fund.

Dec. 31, 1880.	Balance on hand.....		\$9,718 00
Dec. 31, 1881.	Receipts—		
	For assessments.....	\$9,956 00	
	For interest on deposits.....	337 47	
			10,333 47
Dec. 31, 1881.	Disbursements—		\$20,051 47
	To administratrix of Luke Smith, deceased.....	\$1,000 00	
	" Denton E. Hemsworth, deceased.....	1,000 00	
	" Robert King, ".....	1,000 00	
	" Michael Purcell, ".....	1,000 00	
	" William Y. Taft, ".....	1,000 00	
	To widow of George McLaughlin, ".....	1,000 00	
	To administrator of August Moehring, ".....	1,000 00	
	" Thomas Hutchinson, ".....	1,000 00	
	To widow of John P. Flood, ".....	1,000 00	
	" John Carney, ".....	1,000 00	
			10,000 00
Dec. 31, 1881.	Balance.....		\$10,051 47

Upon a communication received from his Honor the Mayor, suggesting that tickets to theatrical entertainments to be given in aid of the sufferers by the fires in Michigan, be sold by the members of the Department, they were authorized to do so, and the amount collected (\$2,371.75) was duly turned over by Commissioner Purroy (to whom the matter had been referred by the Board) to the Treasurer of the Relief Committee.

The following are the laws relating to and governing the Department:

## CHAPTER 335, LAWS OF 1873. (CHARTER.)

AN ACT to reorganize the local government of the city of New York.

Passed April 30, 1873; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

## ARTICLE III.

## OF THE EXECUTIVE POWER.

§ 19. The executive power of the corporation shall be vested in the mayor and the officers of the departments herein created.

§ 25. The mayor shall nominate, and, by and with the consent of the board of aldermen, appoint the heads of departments. \* \* \* Every head of department and person in this section named, \* \* \* shall hold his office for the term of six years, and in each case until a person is duly appointed in his place. The terms of office of all such heads of departments, and persons other than those first appointed, shall commence on the first day of May. Nominations to fill any vacancy which shall hereafter occur by reason of the expiration of the term of office of any officer, \* \* \* shall be made to the board of aldermen, within ten days from the day of the date of any such vacancy. \* \* \* The heads of all departments, and all other persons whose appointment is in this section provided for, may be removed by the mayor for cause, and after opportunity to be heard, subject, however, before such removal shall take effect, to the approval of the governor, expressed in writing. The mayor shall, in all cases, communicate to the governor, in writing, his reasons for such removal. Whenever a removal is so effected, the mayor shall, upon the demand of the officer removed, make, in writing, a public statement of the reasons therefor. No officer so removed shall be again appointed to the same office during the same term of office.

§ 3 (as amended by chap. 300, Laws of 1874). The mayor of said city shall hereafter appoint, without confirmation of the board of aldermen, a person or persons to fill any vacancy or vacancies which now exist or may hereafter occur from death, resignation, or cause other than the expiration of the full term in any office to which, by the provisions of the twenty-fifth section of chapter three hundred and thirty-five of the laws of eighteen hundred and seventy-three, he is empowered to appoint by and with the consent of the board of aldermen.

§ 26. There shall be the following other departments in said city:

fire department.

## Reports of Operations, etc.

§ 27. The said departments shall, once in three months, and at such other times as the mayor may direct, make to him, in such form and under such rules as he may prescribe, reports of the operations and action of the same and each of them, which reports shall be published in the CITY RECORD. The said departments shall always, when required by the mayor, furnish to him such information as he may demand, within such reasonable time as he may direct.

## Appointment and Removal of Subordinates.

§ 28. The heads of all departments (except as otherwise herein specifically provided) shall have power to appoint and remove all chiefs of bureaus (except the chamberlain), as also all clerks, officers, employees, and subordinates in their respective departments, except as herein otherwise specially provided, without reference to the tenure of office of any existing appointee. But no regular clerk or head of a bureau shall be removed until he has been informed of the cause of the proposed removal, and has been allowed an opportunity of making an explanation; and in every case of a removal, the true grounds thereof shall be forthwith entered upon the records of the department or board. In case of removal, a statement, showing the reason therefor, shall be filed in the department. The number and duties of all officers and clerks, employees and subordinates in every department, except as otherwise herein specifically provided, with their respective salaries, whether now fixed by special law or otherwise, shall be such as the heads of the respective departments shall designate and approve; but subject, also, to the revision of the board of apportionment; provided, however, that the aggregate expense thereof shall not exceed the total amount duly appropriated to the respective departments for such purposes. Any head of department may, with the consent of the board of apportionment, consolidate any two or more bureaus established by law, and may change the duties of any bureau;

## ARTICLE VI.

## OF THE LAW DEPARTMENT.

§ 36. It shall be the duty of the law department to furnish to every department and officer such advice and legal assistance as counsel or attorney, in or out of court, as may be required by such officer or department; and for that purpose he may assign an attorney to any department that he shall deem to need the same.

## ARTICLE X.

## OF THE FIRE DEPARTMENT.

## Board of Commissioners, Bureaus, and their Duties.

§ 76 (as amended by chap. 521, Laws of 1880). The fire department shall have for its head a board to consist of three persons to be known as fire commissioners of the city of New York, who, except those first appointed, shall hold their offices for six years, unless sooner removed, as herein provided. There shall be in this department four bureaus. One bureau shall be charged with the duty of preventing and extinguishing fires and of protecting property from water used at fires, the principal officer of which shall be called the "chief of department." Another bureau shall be charged with the execution of all laws relating to the storage, sale, and use of combustible materials, the principal officer of which shall be called "inspector of combustibles."

Another bureau shall be charged with the investigation of the origin and cause of fires, the principal officer of which shall be called "fire marshal."

The fire marshal shall possess all the powers and perform all the duties now possessed and performed by the fire marshal, and appointed pursuant to chapter 383 of the laws of 1870, and chapter 584 of the laws of 1871, and the acts amendatory or supplementary thereof. Such fire marshal and his assistants shall hereafter be appointed by the board of fire commissioners, who shall possess all the powers with reference thereto conferred by said acts upon the board of police.

There shall also be in the fire department a bureau to be known as the bureau of inspection of buildings. All acts relating to buildings in the city of New York, and all acts and parts of acts relating to the department of buildings in said city, or prescribing, limiting, and defining the powers or duties of said department, or of any officer thereof, now in force and not inconsistent with this act, are hereby continued in full force and effect, and the said powers and duties are hereby transferred to the fire department of the city of New York, and devolved upon the officers thereof. The said bureau of inspection of buildings shall, under and subject to such rules, regulations, and orders as may be established by the board of fire commissioners, have charge of all matters relating to buildings and structures in the city of New York now by law devolved upon or required to be performed by the department of buildings. The affairs of said bureau shall be under the management of a suitable person who shall be known as the "inspector of buildings," who may be authorized by the board of fire commissioners to perform any duty, or to exercise any power or authority, now by law conferred upon the superintendent of buildings. The employees of said bureau, including the chief officer thereof, shall be appointed and removed and their salaries shall be fixed and paid in the same manner as other employees of the fire department are now appointed and removed, and their salaries fixed and paid. But an intention to reduce the force and expense of said bureau, or the clerical force of said department, shall be deemed sufficient grounds for the removal of any officer or employee of said bureau, except the chief officer thereof, and of any clerk in the department. The said fire commissioners are authorized to abolish any existing office, clerkship, or employment in the department of buildings as now constituted, and they may consolidate the duties of any two or more bureaus, officers, clerks, or employees of said department of buildings as now organized. The annual expense of said bureau for salaries, including the salary of the attorney to the fire department, shall not exceed the sum of \$40,000. All the officers of said bureau of inspection of buildings, except clerks and messengers, shall be either practical architects, house carpenters, or masons, and shall have served a regular apprenticeship as such, and shall make an affidavit to that effect, which shall be filed in the office of the fire department before their appointment to office in said bureau, and all said officers, except the chief officer of said bureau, shall, before their appointment to office in said bureau, pass an examination before the board of examiners now by law established for the examination of officers of the department of buildings, and shall furnish a certificate of such examination from said board certifying to their competency to perform the duties of said office, which certificate shall be filed in the office of the fire department. It shall not be lawful for any officer or employee of said bureau to be engaged in conducting or carrying on business as an architect, carpenter, mason, or builder, while holding office in said bureau. The commissioners of the fire department, or a majority of them, may appoint a person regularly admitted to the bar, and practicing in the city of New York, to be attorney to the fire department. He shall perform all the duties now required of the attorney to the department of buildings, and shall also perform such other duties connected with the fire department, as attorney, as may be

required of him by the board of fire commissioners. His salary shall be paid as the salaries of other officers and employees of said department are paid. He shall be removed for cause, and after an opportunity to be heard.

It shall be the duty of the superintendent of buildings, or other officer in charge of the department of buildings in the city of New York, forthwith to turn over to the board of fire commissioners all books, papers, records, property, leases, moneys, accounts, claims, and things of every kind and description, belonging to or in the custody of the department of buildings or any officer or employee thereof. Thereupon and within ten days after the passage of this act, the office of superintendent of buildings in said city shall cease and determine, and the department of buildings shall be abolished.

#### *Rules, Regulations, and Discipline.*

§ 77. The government and discipline of the fire department shall be such as the board may from time to time by rules, regulations, and orders prescribe; but officers and members of the uniformed force shall be removable only after written charges shall have been preferred against them, and after the charges have been publicly examined into, upon such reasonable notice to the person charged, and in such manner of examination as the rules and regulations of the board of commissioners may prescribe. Sections forty-eight, fifty, fifty-one, fifty-five, fifty-eight, sixty, sixty-one, sixty-two, of chapter one hundred and thirty-seven of the laws of eighteen hundred and seventy,\* are hereby made applicable to the fire department and its subordinates, so far as the same are pertinent, in the same manner as if the same were therein named. Any and all fines collected from subordinates shall be deposited in "the fire department relief fund," created by chapter seven hundred and forty-two of the laws of eighteen hundred and seventy-one, and the treasurer of said fund shall give a bond, with one or more sureties, in the sum of twenty thousand dollars, for the faithful performance of his duties; said bond to be approved by the comptroller and filed in his office.

#### *Qualifications for Membership.*

§ 78 (as amended by sec. II, chap. 757, laws of 1873). No person shall ever be appointed to membership in the fire department, or continue to hold membership therein, who is not a citizen of the United States, or who has ever been convicted of crime, or who cannot read and write understandingly in the English language, or who shall not have resided within the State one year.

#### *Powers and Duties of the Board of Commissioners.*

§ 79. The board of commissioners by this act created shall possess and exercise all the powers and perform all the duties conferred and prescribed by chapter two hundred and forty-nine of the laws of eighteen hundred and sixty-five, and any act or acts amendatory thereof or supplementary thereto, not inconsistent with the provisions of this act, and except as herein otherwise provided.

### ARTICLE XIII.

#### OF THE DEPARTMENT OF BUILDINGS.

§ 86 (as amended by sec. 15, chap. 757, Laws of 1873). Each and all the powers and duties of said department and all its officers and employees and subordinates, and their qualifications, shall continue, and be exercised as now authorized by special laws in relation to buildings in the city of New York; and it shall not be lawful for any officer or employee in said department to be engaged in conducting or carrying on business as an architect, carpenter, mason, or builder, while holding office in said department.

### ARTICLE XVI.

#### GENERAL PROVISIONS, POWERS, AND LIMITATIONS.

§ 89. A majority of the members of a board in any department of the city government, shall constitute a quorum to fully perform and discharge any act or duty authorized, possessed by, or imposed upon any department or any board aforesaid, and with the same legal effect as if every member of any such board aforesaid had been present, except as herein otherwise specially provided. Each board may, except as herein otherwise provided, choose, in its own pleasure, one of its members, who shall be its president, and one who shall be its treasurer, and may appoint a chief clerk or secretary. No expense shall be incurred by any of the departments, boards, or officers thereof, unless an appropriation shall have been previously made covering such expense.

§ 90. Whatever provisions and regulations, other than those herein specially authorized, may become requisite for the fuller organization, perfecting, and carrying out of the powers and duties prescribed to any department by this act, shall be provided for by ordinance of the common council, who are hereby authorized to enact such necessary ordinances. And it shall be the duty of the common council to provide for the accountability of all officers and other persons, save as herein otherwise provided, to whom the receipt or expenditure of the funds of the city shall be intrusted, by requiring from them sufficient security for the performance of their duties or trust, which security shall be annually renewed; but the security first taken shall remain in force until new security shall be given.

#### *Contracts.*

§ 91. All contracts to be made or let for work to be done or supplies to be furnished, except as herein otherwise provided, and all sales of personal property in the custody of the several departments or bureaus, shall be made by the appropriate heads of departments under such regulations as now exist or shall be established by ordinances of the common council. Whenever any work is necessary to be done to complete or perfect a particular job, or any supply is needful for any particular purpose, which work and job is to be undertaken or supply furnished for the corporation, and the several parts of the said work or supply shall together involve the expenditure of more than one thousand dollars, the same shall be by contract, under such regulations concerning it as shall be established by ordinance of the common council, excepting such works now in progress as are authorized by law or ordinance to be done otherwise than by contracts, and unless otherwise ordered by a vote of three-fourths of the members elected to the common council; and all contracts shall be entered into by the appropriate heads of departments, and shall, except as herein otherwise provided, be founded on sealed bids or proposals, made in compliance with public notice duly advertised in the CITY RECORD, said notice to be published at least ten days; and all such contracts, when given, shall be given to the lowest bidder, the terms of whose contract shall be settled by the counsel to the corporation as an act of preliminary specification to the bid or proposal, and who shall give security for the faithful performance of his contract in the manner prescribed and required by ordinance; and the adequacy and sufficiency of this security shall, in addition to the justification and acknowledgment, be approved by the comptroller. All bids or proposals shall be publicly opened by the officers advertising for the same and in the presence of the comptroller, but the opening of the bids shall not be postponed if the comptroller shall, after due notice, fail to attend. If the lowest bidder shall neglect or refuse to accept the contract within forty-eight hours after written notice that the same has been awarded to his bid or proposal, or if he accepts but does not execute the contract and give the proper security, it shall be readvertised and relet as above provided. In case any work shall be abandoned by any contractor, it shall be readvertised and relet by the head of the appropriate department, in the manner in this section provided.

#### *Sale of Public Property and Contracts.*

§ 92. All property sold shall be sold at auction, after previous public notice, under the superintendence of the appropriate head of department. Every contract, when made and entered into, as before provided for, shall be executed in duplicate, and shall be filed in the department of finance; a receipt for each payment, made on account of or in satisfaction of the same, shall be indorsed on the said contract by the party receiving the warrant, which warrant shall be only given to the person interested in such contract, or his authorized representative. The proceeds of all sales made under and by virtue of this act shall, except as provided in section sixty-five hereof, be by the officer receiving the same immediately deposited with the chamberlain; and the account of sales, verified by the officer making the sales, shall be immediately filed in the office of the comptroller. No expenditure for work or supplies involving an amount for which no contract is required shall be made, except the necessity therefor be certified to by the head of the appropriate department, and the expenditure has been duly authorized and appropriated.

#### *Certificate of Appointment or Election, and Oath of Office.*

§ 93. Every person who shall be appointed or elected to any office under this act shall receive a certificate of appointment, designating the term for which such person has been appointed or elected.

§ 94. Every person elected or appointed to any office under the city government shall, within five days after notice of such election or appointment, take and subscribe, before the mayor, or any judge of a court of record, an oath or affirmation faithfully to perform the duties of his office; which oath or affirmation shall be filed in the office of the mayor.

#### *Violations or Evasions of this Act, Fraud, etc.*

§ 95. Any officer of the city government, or person employed in its service, who shall willfully violate or evade any of the provisions of this act, or commit any fraud upon the city, or convert any of the public property to his own use, or knowingly permit any other person so to convert it, or by gross or culpable neglect of duty allow the same to be lost to the city, shall be deemed guilty of a

misdeemeanor, and, in addition to the penalties imposed by law, and on conviction, shall forfeit his office, and be excluded forever after from receiving or holding any office under the city government; and any person who shall willfully swear falsely in any oath or affirmation required by this act shall be guilty of perjury.

#### *Fees, Perquisites, Commissions, etc.*

§ 96 (as amended by sec. 16, chap. 757, Laws of 1873). No officer of the city government, except the city marshals, shall have or receive to his own use any fees, perquisites, or commissions, or any percentage; but every such officer shall be paid by a fixed salary, and all fees, percentages, and commissions received by any such officer shall be the property of the city. And every officer who shall receive any fees, perquisites, commissions, percentages, or other money which should be paid over to the city, shall, before he shall be entitled to receive any salary, make, under oath, a detailed return to the comptroller, showing the amount of all such fees, commissions, percentages, perquisites, and moneys received by him since the last preceding report, the person from whom received, and the reason for its payment, and shall produce the receipt of the chamberlain, showing the payment to him, by said officer, of the aggregate amount thereof. All sums received as above, or for licenses or permits, shall be paid over weekly, without deduction, by the officers or department receiving them, to the chamberlain, and a detailed return, under oath, shall at the same time be made in such form as the comptroller shall prescribe, stating when and from whom, and for what use such moneys were received. But nothing herein contained shall be construed so as to repeal, modify, or otherwise affect the provisions of the fourteenth section of chapter seven hundred and forty-two of the laws of eighteen hundred and seventy-one.

#### *Contracts.*

§ 99. No bid shall be accepted from, or contract awarded to, any person who is in arrears to the corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the corporation.

#### *Bribery.*

§ 100. Every person who shall promise, offer, or give, or cause, or aid, or abet in causing to be promised, offered, or given, or furnish or agree to furnish, in whole or in part, to any other person, to be promised, offered or given, to any member of the common council, or any officer of the corporation, or clerk, after his election or appointment as such officer, member, or clerk, or before or after he shall have qualified and taken his seat, or entered upon his duty, any moneys, goods, right in action or other property, or anything of value, or any pecuniary advantage, present or prospective, with intent to influence his vote, opinion, judgment, or action on any question, matter, cause, or proceedings which may be then pending, or may by law be at any time brought before him in his official or clerical capacity, shall be deemed guilty of a felony, and shall, upon conviction, be imprisoned in a penitentiary for a term not exceeding two years, or shall be fined not exceeding five thousand dollars, or both, in the discretion of the court. Every officer in this section enumerated, who shall accept any such gift or promise or undertaking to make the same under any agreement or understanding that his vote, opinion, judgment, or action shall be influenced thereby, or shall be given in any question, matter, cause, or proceeding then or at any time pending, or which may by law be brought before him in his official capacity, shall be deemed guilty of a felony, and shall, upon conviction, be disqualified from holding any public office, trust, or appointment under the city New York, and shall forfeit his office, and shall be punished by imprisonment in the penitentiary not exceeding two years, or by a fine not exceeding five thousand dollars, or both, in the discretion of the court. Every person offending against either of the provisions of this section shall be a competent witness against any other person offending in the same transaction, and may be compelled to appear and give evidence before any grand jury or in any court, in the same manner as other persons; but the testimony so given shall not be used in any prosecution or proceeding, civil or criminal, against the person so testifying.

#### *Officers and Employees of the City Not to be Interested in Contracts, etc.*

§ 101. No member of the common council, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the corporation, shall be or become, directly or indirectly, interested in or in the performance of any contract, work, or business, or the sale of any article, the expense, price, or consideration of which is payable from the city treasury, or by any assessment levied by any act or ordinance of the common council; nor in the purchase or lease of any real estate or other property belonging to or taken by the corporation, or which shall be sold for taxes or assessment, or by virtue of legal process at the suit of the said corporation. If any person in this section mentioned shall, during the time for which he was elected or appointed, knowingly acquire an interest in any contract or work with the city, or any department or officer thereof, unless the same shall be devolved upon him by law, he shall, on conviction thereof, forfeit his office, and be punished as for a misdemeanor. All such contracts in which any such person is or becomes interested shall, at the option of the comptroller, be forfeited and void. No person in this section named shall give or promise to give any portion of his compensation or any money or valuable thing to any officer of the city, or to any other person, in consideration of his having been or being nominated, appointed, elected, or employed as such officer, agent, clerk, or employee, under the penalty of forfeiting his office and being forever disqualified from being elected, appointed, or employed in the service of the city, and shall, on conviction, be punished for a misdemeanor.

#### *Copies of Records to be Furnished to any Tax-payer.*

§ 107. The heads of all departments, except the police department, and the chiefs of each and every bureau of said departments, or any of them, except the police department, shall, with reasonable promptness, furnish to any tax-payer desiring the same a true and certified copy of any book, account, or paper kept by such department, bureau, or officer, or such part thereof as may be demanded, upon payment in advance of five cents for every hundred words thereof by the person demanding the same. All books, accounts, and papers, in any department or bureau thereof, except the police department, shall at all times be open to the inspection of any tax-payer, subject to any reasonable rules and regulations in regard to the time and manner of such inspection as such department, bureau or officer may make in regard to the same, in order to secure the safety of such books, accounts, and papers, and the proper use of them by the department, bureau, or officer. In case such inspection shall be refused, such tax-payer, on his own sworn petition, describing the particular book, account or paper that he desires to inspect, may, upon notice of not less than one day to such department, bureau, or officer, apply to any justice of the supreme court for an order that he be allowed to make such inspection as such justice shall by his order authorize, and such order shall specify the time and manner of such inspection.

#### *Examination of Officers and Employees as to Violations of Law, etc.*

§ 109. Any alderman, commissioner, head of department, chief of bureau, deputy thereof, or clerk therein, or other officer of the corporation, or person, may, if a judge shall so order, be summarily examined upon an order to be made on application based on an affidavit of the mayor or of the comptroller, or any five aldermen, or any commissioner of accounts, or of any five citizens who are tax-payers, requiring such examination, and signed by any justice of the supreme court of the first judicial department, directing such examination to be publicly made at the chambers of such court, or at the office of said department, on a day and hour to be named, not less, however, than forty-eight hours after personal service of said order. Such examination shall be confined to an inquiry into any alleged wrongful diversion or misapplication of any moneys or fund, or any violation of the provisions of law, or any want of mechanical qualification for any inspectorship or public work, or any neglect of duty in acting as such inspector, or any delinquency charged in said affidavit touching the office or the discharge or neglect of duty, of which it is alleged in the application for said order that such alderman, head of department, or other aforementioned officer or persons, has knowledge or information. Such alderman, commissioner, head of department, clerk, or other aforesaid officer or person shall answer such pertinent questions relative thereto, and produce such books and papers in his custody, or under his control, as the justice shall direct, and the examination may be continued from time to time, as such justice may order, but the answer of the party charged shall not be used against him in any criminal proceeding; provided, however, that for all false answers on material points he shall be subject to the pains and penalties of the crime of perjury. The proceedings may be continued before any other justice in said district, and other witnesses, as well as the parties making such application, may, in the discretion of said justice, be compelled to attend and be examined touching such alleged delinquencies. Such justice may punish any refusal to attend such examination or to answer any questions pursuant to his order, as for a contempt of court, and shall have as full power and authority to enforce obedience to the order or directions of himself, or any other justice, as any justices of the supreme court may now have, or shall possess, to enforce obedience or to punish contempt in any case or matter whatever, and shall impose costs upon those promoting such an examination not exceeding two hundred and fifty dollars, if he thinks there was no probable cause for making the application hereinbefore provided for, the said costs to be paid to the officer or person examined, and for which the said officer or person may have judgment and an execution. The examination hereinbefore provided for shall be reduced to writing, and be filed in the office of the county clerk of the county of New York, and be at all reasonable times accessible to the public, and notice of the same given to the department in which said officer is employed.

#### *Record of Transactions of Board.*

§ 110. In every department or board there shall be kept a record of all its transactions, which shall be accessible to the public, and once a week a brief abstract, omitting formal language, shall be made of all transactions, and of all contracts awarded and entered into for work and material of every description, which abstract shall contain the name or names, and residences by street and number, of the party or parties to the contract, and of their sureties, if any. A copy of such abstract

\* See chap. 137—1870.

shall be promptly transmitted to the person designated to prepare the CITY RECORD, and shall be published therein. Notice of all appointments and removals from office, and all changes of salaries, shall, in like manner, within one week after they are made, be transmitted to and published in the CITY RECORD.

*Advertising, Printing, Stationery, and City Record.*

§ 111. \* \* \* All advertising required to be done for the city, and all notices required by law or ordinance to be published in corporation papers, shall be inserted at the public expense, only in the CITY RECORD, and a publication therein shall be a sufficient compliance with any law or ordinance requiring publication of such matters or notices; but there may be inserted in two morning and two evening and two weekly papers published in the English language, and in one newspaper published in the German language, all in said city, to be designated by the mayor, corporation counsel, and commissioner of public works, annually, brief advertisements calling attention to any contracts intended to be awarded, or bonds to be sold, and referring for full information to said CITY RECORD. No money shall be paid from the city treasury for advertising hereafter done except such as is herein authorized, and no action shall be maintained or judgment obtained against the city for any advertising hereafter done except such as is herein authorized. The copies of the CITY RECORD furnished to the city shall be distributed to the several departments and offices, and to such persons and in such manner as the mayor shall direct. All printing for said city, including the printing of the CITY RECORD, shall be executed, and all stationery shall be supplied, under contracts, to be entered into by the mayor, corporation counsel and commissioner of public works.

No more than one thousand copies of any \* \* \* report of any head of a department,

shall be printed apart from the CITY RECORD. \* \* \* There shall be published in the CITY RECORD, within the month of January in each year, a list of all subordinates employed in any department (except laborers) with their salaries, and residences by street numbers, and all changes in such subordinates or salaries shall be so published within one week after they are made. It shall be the duty of all heads of departments to furnish, to the person appointed to supervise the publication of the CITY RECORD, everything required to be inserted therein. The said person shall have the power to make requisitions in writing upon the heads of departments to furnish the information necessary to make up such list according to rules prescribed by him, and approved by the comptroller; and such information must be supplied by the department within ten days after such requisition. He shall have the power to require such information in the same manner every three months, and all other information in the control of said heads of departments, necessary to perform his duties under this section.

*Departmental Estimate.*

§ 112. \* \* \* For the purpose of making said provisional estimate, the heads of departments shall, at least thirty days before the said provisional estimate is required to be made,\* as herein provided, send to the board of apportionment an estimate in writing, herein called a departmental estimate, of the amount of expenditure, specifying in detail the objects thereof, required in their respective departments, including a statement of each of the salaries of their officers, clerks, employees, and subordinates.

A duplicate of these departmental estimates and statements shall be made at the same time to the board of aldermen.

After the final estimate is made, in accordance herewith, it shall be signed by the members, and when so signed the said several sums shall be and become appropriated to the several purposes and departments therein named.

The said board of apportionment may, from time to time, on the application of the head of any department, authorize the transfer, from one bureau or purpose to another in the same department, of any sum theretofore appropriated for the purpose of such department or bureau, but no department or officer shall incur any expense in excess of sum appropriated.

*Counsel to be Assigned to Officer or Clerk Ordered to be Examined.*

§ 113. \* \* \* In case an officer or clerk is ordered to be examined, in pursuance of the provisions hereinbefore contained, the law department shall assign some one from his department as counsel to the officer or clerk making the application; but should such officer or clerk see fit to employ other counsel than that assigned by the law department, then, and in that event, no appropriation or payment shall be made for his or their payment, except upon a certificate of the justice or justices before whom the proceedings have been had that there was probable cause for taking such proceedings.

*Office to be Vacated on Acceptance of Other Office.*

§ 114. Any person holding office, whether by election or appointment, who shall, during his term of office, accept, hold or retain any other civil office of honor, trust, or emolument under the government of the United States (except commissioners for the taking of bail, or register of any court), or of the state (except the office of notary public or commissioner of deeds, or office of the national guard), or who shall hold or accept any other office connected with the government of the city of New York, or who shall accept a seat in the legislature, shall be deemed thereby to have vacated every office held by him under the city government. No person shall hold two city or county offices, except as expressly provided in this act; nor shall any officer under the city government hold or retain an office under the county government, except when he holds such office ex-officio, by virtue of an act of the legislature; and in such case he shall draw no salary for such ex-officio office.

[Amended by adding the following—sec. 21, chap. 757, Laws of 1873.] This section shall not be construed to apply to civil or consulting engineers who may be appointed to superintend any specific work on the part of the city of New York.

*Salaries.*

§ 116 (as amended by chapter 521, Laws of 1880). 1. The annual salaries to be paid to persons herein named and hereafter elected or appointed to the several specified positions in the City of New York, shall from and after such appointment or election, be as follows, and such salaries shall be in full for all services rendered by them to the city or county in any capacity whatever:

To the Commissioners of the fire department, \$5,000 each.

To the Attorney for the fire department, \$4,000.

No subordinate in any department shall receive a salary in excess of the highest salary paid to the head of the department, except that the chief engineer of docks and the superintendent of police may each receive a salary not exceeding \$6,000.

The salary attached to either of the following positions in the fire department shall not exceed the sum here designated as the maximum salary of such position when held by any person hereafter appointed to the uniform force of said fire department:

For chief of battalion, \$2,000.

For a foreman, \$1,400.

For an assistant foreman, \$1,300.

For an engineer of steamer, \$1,200.

For an assistant engineer of steamer, \$1,100.

For members of the uniform force of the police and fire departments, respectively, hereafter appointed, shall, on their appointment, become members of what shall be known as the third grade, at a salary of \$800 per year; after two years of service in such third grade, they shall, if their conduct and efficiency have been satisfactory, be advanced to what shall be known as the second grade, at a salary of \$900 per year; after two years service in such grade, they shall, on like conditions, be advanced to what shall be known as the first grade, at a salary of \$1,000 per year. But no member of such uniform force shall be so advanced, as aforesaid, except after examination by and approval of the said boards of fire and police commissioners, each in their respective departments, of their records, efficiency, and conduct.

3. No officer or person who is paid a salary for his services from the city treasury shall receive to or for his own use any fees, costs, allowances, perquisites of office, commissions, percentages or moneys paid to him in his official capacity; but all fees, costs, allowances, perquisites, commissions, percentages, and moneys so paid or received by any such officer or person, shall be the property of the city, and shall be paid by him into the city treasury; and every such person or officer, who shall receive any fees, perquisites, commissions, percentages, or other moneys which belong to the city and should be so paid into the treasury, shall, before he shall be entitled to receive or be paid his salary, make, under oath, a detailed statement and return to the comptroller, in such form as he may prescribe, showing the amount of all such moneys received by him since the last preceding statement and returns, and shall produce a receipt showing the payment of such sum into the treasury. The comptroller may require any such person or officer to make such statement and return to him, if it be not made as herein provided; and examine any such officer or person under oath touching the amount of any fees, costs, allowances, perquisites, commissions, percentages, or moneys paid to or received by him in his official capacity.

4. This section shall not be taken or construed to affect any person now in office during his present term, nor the present lawful salary attaching to such office; but from and after the expiration of any present term in any office named in this act, the salaries to be paid to any person thereafter appointed to any such office shall be as designated by this act.

§ 118. The several departments shall continue to possess the same powers and perform the same duties as heretofore, except as herein otherwise provided.

\* Between the first days of July and October, as may be required by the board of estimate and apportionment.

§ 119. \* \* \* and the city of New York is also hereby excepted from the provisions of an act entitled an act to create a metropolitan fire district, and establish a fire department therein, passed March thirtieth, eighteen hundred and sixty-five,\* and the acts amendatory thereof, and any sections of statutes and provisions of law which created said districts are hereby repealed.

CHAPTER 521, LAWS OF 1880.

AN ACT to amend chapter 335 of the laws of 1873, entitled "An act to reorganize the local government of the city of New York," and to reduce the burden of taxes to be levied in said city.

Passed May 29, 1880; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

§ 1. Section 76 of chapter 335 of the laws of 1873, entitled "An act to reorganize the local government of the city of New York," is hereby amended so as to read as follows:

(See chap. 335, Laws of 1873).

§ 2. Section 116 of said act, chapter 335 of the laws of 1873, is hereby amended so as to read as follows:

(See chap. 335, Laws of 1873).

*Expenditures Not to Exceed Appropriation.*

§ 4. It shall be the duty of the head of all departments of said city and of all boards and officers charged with the duty of expending or incurring obligations payable out of the moneys raised by tax in said city so to regulate such expenditures for any purpose or object, that the sum shall not in any one year exceed the amount appropriated by the board of estimate and apportionment for such purpose or object, and no charge, claim, or liability shall exist or arise against said city for any sum in excess of the amount appropriated for the several purposes as by this statute authorized.

§ 6. Except as herein otherwise provided, this act shall take effect immediately. And all acts and parts of acts inconsistent with this act are hereby repealed.

CHAPTER 147, LAWS OF 1881.

AN ACT to secure the performance of proposals for work and supplies to be furnished to the mayor, aldermen, and commonalty of the city of New York.

Passed April 29, 1881; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

§ 1. Whenever proposals for furnishing supplies or doing work are invited by advertisement by any of the departments or officers of the city government, in pursuance of section ninety-one of the city charter (chapter three hundred and thirty-five, laws of eighteen hundred and seventy-three), such department or officer is authorized and directed to require, as a condition precedent to the reception or consideration of any proposal, the deposit with such department or officer of a certified check upon one of the national banks of the said city of New York, drawn to the order of the comptroller, or of money (such checks or money to accompany the proposal), to an amount not less than three nor more than five per cent. of the amount of the bond required by the department or officer for the faithful performance of the work proposed to be done or supplies to be furnished.

§ 2. Within three days after the decision as to who is the lowest bidder, the comptroller shall return all the deposits made to the persons making the same, except the deposit made by the lowest bidder for any contract; and if the said lowest bidder shall refuse or neglect within five days after due notice that the contract has been awarded, to execute the same, the amount of deposit made by him shall be forfeited to and retained by the said city as liquidated damages for such neglect or refusal, and shall be paid into the sinking fund of the said city, but if the said lowest bidder shall execute the contract within the time aforesaid, the amount of his deposit shall be returned to him.

§ 3. This act shall take effect immediately.

CHAPTER 137, LAWS OF 1870.

AN ACT to reorganize the local government of the city of New York.

Passed April 5, 1870; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

ARTICLE VII.

THE POLICE DEPARTMENT.†

*Qualifications for Membership.*

§ 48. No person shall ever be appointed to membership in the police force, or continue to hold membership therein, who is not a citizen of the United States, or who has ever been convicted of crime, or who cannot read or write understandingly in the English language, or who shall not have resided within the state during one year next preceding his appointment.

§ 50. During the service of any special patrolman authorized as aforesaid, he shall possess all the powers, privileges, and perform all the duties that may be by orders, rules, and regulations from time to time prescribed. Every such special patrolman shall wear a badge, to be prescribed and furnished by the board of police.

*Resignations and Absence.*

§ 51. No member of the police force, under penalty of forfeiting the salary or pay which may be due to him, shall withdraw or resign, except by permission of the board of police. Unexplained absence, without leave, of any member of the police force, for five days, shall be deemed and held to be a resignation by any such member, and accepted as such.

*Orders, Rules, and Regulations.*

§ 55. The board of police are empowered, in their discretion, to enact, modify, and repeal, from time to time, orders, rules, and regulations of general discipline of the subordinates under their control, but in strict conformity to the provisions of this article.

*Exemption from Military and Jury Duty, Arrests, etc.*

§ 58. No person holding office under this department shall be liable to military or jury duty, nor to arrest on civil process, or, whilst actually on duty, to service of subpoenas from civil courts.

*Penalties for Infractions of Discipline.*

§ 60. The board of police shall have power, in its discretion, on conviction of a member of the force of any legal offense or neglect of duty, or violation of rules, or neglect or disobedience of orders, or incapacity, or absence without leave, or any conduct injurious to the public peace or welfare, or immoral conduct or conduct unbecoming an officer, or other breach of discipline, to punish the offending party by reprimand, forfeiting and withholding pay for a specified time, or dismissal from the force; but no more than ten days pay shall be forfeited and withheld for any offense.

*Warrant of Appointment.*

§ 61. Every member of the police force shall have issued to him, by the board of police, a proper warrant of appointment, signed by the president of the said board, and chief clerk, or first deputy, which warrant shall contain the date of his appointment and his rank.

*Oath of Office.*

§ 62. Each member of the police shall take an oath of office, and subscribe the same before an officer of the police who is empowered to administer an oath.

ARTICLE X.

OF THE FIRE DEPARTMENT.

*Unauthorized Wearing of Uniform or Interference with Apparatus.*

§ 87. It shall be a misdemeanor, punishable by imprisonment in the county jail for a period of not less than sixty days, for a person not so enrolled or employed, or appointed by the said department, to wear the whole or any part of the uniform or insignia prescribed to be worn by the rules and regulations of the board, or do any act as fireman not duly authorized by the Board hereby created, or to interfere with the property or apparatus of the fire department in any manner, unless by authority of the department.

*Exemption from Military or Jury Duty.*

§ 88. No person holding office under this Department shall be liable to military or jury duty while performing his duty as a fireman.

CHAPTER 249, LAWS OF 1865.

AN ACT to create a metropolitan fire district and establish a fire department therein.

Passed April 30, 1865; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

*Powers, Authority, and Duties.*

§ 4. Said commissioners, on being qualified, shall meet and organize "the metropolitan fire department," by electing one of said commissioners to be president, and appointing a person to be

\* See sec. 79 of this act.

† Sections 48, 50, 51, 55, 58, 60, 61, 62, of chapter 137 of the Laws of 1870, are hereby made applicable to the Fire Department and its subordinates so far as the same are pertinent, in the same manner as if the same were therein named." (See sec. 77, chap. 355—1873.)

secretary. Whereupon they shall possess and have all the power and authority conferred upon or possessed by any and all officers of the fire department of the city of New York, and to the exclusion of all such officers, and such other powers and duties in said district as are hereinafter conferred.

§ 5. The said "metropolitan fire department" is hereby empowered and directed to possess and exercise fully and exclusively all the powers and perform all the duties for the government, management, maintenance, and direction of the fire department of the city of New York, and the premises and property thereof, which, at the time of the organization of said department, were possessed by or under the control of the boards and officers of the fire department of said city, or the officers or employees of said city, said powers and duties to be exercised and performed, and said property used, in the said city or otherwise, as hereinafter provided. And the said department shall hereafter have sole and exclusive power and authority to extinguish fires in said city of New York; and all acts conferring upon any other officer and officers any power in relation to the extinguishment of fires in said city, are hereby repealed.

§ 6. The board of commissioners shall have full power to provide, in and for the city of New York, supplies, horses, tools, implements, and apparatus of any and all kinds (to be used in the extinguishing of fires), and fire telegraphs, to provide suitable locations for the same, and to buy, sell, construct, repair, and have the care of the same, and take any and all such action in the premises as may be reasonably necessary and proper.

§ 7. The department hereby created is hereby empowered and directed to possess and exercise full and exclusive power and discretion for the government, management, maintenance, and direction of the several buildings, and premises, and property, and appurtenances thereto, and all apparatus, hose, implements, and tools of any and all kinds, which, at the time of the appointment of the commissioners aforesaid, were under the charge and control of any and all city officers or officers of the fire department in said city, for the use and benefit of the fire department of the city of New York. And it shall be the duty of all persons and officers in possession of any property, real or personal, belonging to or set apart for or in use by or for the fire department of said city, to deliver the same to the possession and control of said "metropolitan fire department."

#### Office Accommodations, etc.

§ 13. The said commissioners shall provide such offices and business accommodation as may be requisite for the transaction of its business and that of its subordinates in said city of New York.

#### Right of Way.

§ 15. The aforesaid officers and men with their apparatus of all kinds, when on duty, shall have the right of way at any fire and in any highway, street or avenue, over any and all vehicles of any kind, except those carrying the United States mail. And any person in or upon or owning any vehicle, who shall refuse the right of way, or in any way obstruct any fire apparatus or any of said officers while in the performance of duty, shall be guilty of a misdemeanor, and be liable to punishment for the same.

#### Public Property.

§ 17. On and after the organization of the department, all real estate, fire apparatus, hose, implements, tools, bells, and bell towers, fire telegraph, and all property of whatever nature then or heretofore in use by the firemen or fire department of the city of New York, belonging to said city, shall be transferred by all persons having charge of the same, to the keeping and custody of the "metropolitan fire department," hereby created, and for the use thereafter of said department. But the said property shall remain the property of the mayor, aldermen, and commonalty of the city of New York, subject to the public uses of said department, as aforesaid, and for the purposes provided by this act. And whenever any of the said property shall no longer be needed by the said department for the purposes of this act, they shall surrender the same to the said the mayor, aldermen, and commonalty of the city of New York.

#### Exempt Firemen.

§ 19. All members of the present fire department regularly enrolled at the time of the passage of this act, shall be returned by the present chief engineer under oath, to the clerk of the common council of said city of New York, and all such members who shall faithfully perform their duties until regularly discharged by said commissioners, and not otherwise, shall be entitled to all the privileges and exemptions to which exempt firemen are entitled by the laws of this State.

#### Seal.

§ 22. The department hereby created, may adopt a common seal and direct its use.

#### Uniform and Badge.

§ 24. It shall be the duty of said department to make suitable regulations under which its officers and men shall be required to wear any appropriate uniform and badge by which, in case of fire and at other times, the authority and relations of such officers and men in said department may be known as the exigency of their duties may require.

#### Co-operation of New York and Brooklyn Fire Departments.

§ 25. In case there should hereafter be any fire in the city of New York, which, in the opinion of the said commissioners of the metropolitan fire department, or a majority of them, shall require the presence and co-operation of a greater number of officers or men or apparatus than may be at the command or under the control of the department to extinguish the said fire, it shall be the duty of the said commissioners, and they are hereby authorized and empowered to request in writing the chief engineer of the eastern department, or of the western department of the city of Brooklyn, or both of them, to assist them with officers, men, and apparatus, or either of them from the said city of Brooklyn, to aid in putting out and extinguishing the said fire, and it shall be the duty of the said chief engineers and each of them when so called upon, to furnish the same. And in case there shall hereafter be a fire in the city of Brooklyn, which, in the opinion of the chief engineer of the district of said city in which the same shall exist, shall require the presence and co-operation of a greater number of officers or men or apparatus than may be at the command or under the control of the said chief engineer, to extinguish the said fire, it is hereby made the duty of the said chief engineer, and he is hereby authorized to request in writing, the department hereby created, to assist him with officers, men, and apparatus, or either of the same, to aid in putting out the said fire. And it shall be the duty of the said metropolitan fire commissioners to furnish the same, and in case any expense is incurred by the said chief engineers, or either of them, in aiding the said metropolitan fire commissioners, as hereinbefore provided, the amount of such expense, when duly certified under oath by said chief engineers to the said metropolitan fire commissioners, shall be paid by the latter out of any funds in their possession. And in case any expense is incurred in furnishing the aid provided by this act by the said metropolitan fire commissioners to the said chief engineer of either of the districts of Brooklyn as aforesaid, it shall be the duty of the city of Brooklyn to refund the same to the said metropolitan fire commissioners, when the same shall have been duly certified under oath to the said chief engineer of either of the said districts of Brooklyn by the president of the said metropolitan fire department.

#### Co-operation of Police and Fire Departments.

§ 26. It shall be the duty of the department hereby created, and of the metropolitan police board, their respective officers and men, to co-operate together in all proper ways, and the said board and department may respectively provide for protection against fire, and for the arrest of all persons who may at or near any fire commit or attempt to commit any crime against the laws of this State, or may violate any rule or regulation of said board or department.

§ 27. Whenever in this act the term "commissioners" is used in reference to the members of the department hereby created, or whenever the term "department" is used in this act, the said terms and each of them shall be construed as meaning the metropolitan fire department hereby constituted, unless the sense plainly requires that some other or different construction should be given to the same.

#### CHAPTER 726, LAWS OF 1873.

AN ACT to provide for the more effectual extinguishment of fires in the City of New York.

Passed June 12, 1873; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

#### Corps of Sappers and Miners.

§ 1. The fire commissioners of the city of New York are hereby empowered and directed to organize, in the fire department of the city of New York, a corps to be known as the corps of sappers and miners. Said corps shall be composed of not exceeding three members, either officers or private firemen, of each company in said fire department, and said members shall be appointed by said fire commissioners, upon the nomination of the chief engineer of said fire department.

§ 2. The said fire commissioners shall appoint a suitable officer, who shall be skilled in the use of explosives, whose duty it shall be to instruct and drill said corps in the use of explosives, and to give said corps such other instruction as may be required to qualify them to effectually discharge the duties imposed upon them by this act. Such officer shall receive an annual salary of two thousand dollars, and such salary shall be raised and paid in the same manner as the salaries of the other officers appointed by the said fire commissioners.

#### Destruction of Buildings by Explosives.

§ 3. Whenever, under and by virtue of the acts relating to the extinguishment of fires in the said city of New York, the destruction or pulling down of any building or buildings shall be deemed

necessary, and shall be ordered by the engineer in command at any fire in said city, it shall be the duty of said corps, or any member or members thereof, by the direction of the said engineer in command at such fire, to level and destroy such building or buildings by the use of explosives, for the purpose of arresting the spread of such fire, and it shall be lawful for them to enter and take possession of the same for such purpose.

#### Depots for Storage of Explosives.

§ 4. The said fire commissioners shall establish, in the city of New York, one or more depots for the storage and safe keeping of such explosives as may be required for the use of said corps, and may limit the quantity of any such explosives to be kept at any one of such depots.

§ 5. All acts or portions of acts inconsistent with the provisions of this act are hereby repealed.

§ 6. This act shall take effect immediately.

#### CHAPTER 873, LAWS OF 1866.

AN ACT to amend and reduce to one act the several acts relating to buildings, and the keeping and storage of combustible materials in the city of New York.

Passed May 4, 1866; three-fifths being present.

The people of the State of New York, represented in Senate and Assembly, do enact as follows:

#### Petroleum and its Products.

§ 51. No person shall keep upon sale, or store in any place or building, within the corporate limits of the city of New York, any crude petroleum, earth or rock oil, or any of its products, except under the following provisions: crude petroleum, earth or rock oil, or any of its products, may be stored in detached and properly ventilated warehouses, the outer walls of which shall be stone, brick, or iron, specially adapted for the purpose by having raised sills at least two feet high, or the ground floor of which shall be at least two feet below the level of the street or adjoining yard, or so constructed as to actually prevent the overflow of such substance beyond the premises where the same may be kept or stored; which said warehouses shall not be occupied in any part as a dwelling, and if less than fifty feet from any adjacent dwelling, the same must be separated by a brick or stone wall at least ten feet in height, and sixteen inches thick.

No refined petroleum, kerosene, earth or rock oil, or machinery oils shall be kept upon sale or stored within the corporate limits of the city of New York, the fire test of which shall be less than one hundred degrees Fahrenheit; said test shall be determined by authorized inspectors, using G. Tagliabue's or other improved instruments, the barrels or packages containing the same to be legibly stamped or marked with said inspector's official stamp or mark, and when stored above the cellar or basement of any store or building, and in barrels of not over forty-five gallons each, or metallic vessels or tanks, for convenience of retailing, the quantity of such refined oils shall not exceed in the whole the contents of ten barrels; and when held in hermetically sealed metallic packages, the quantity shall not exceed in the whole the contents of one hundred barrels, and when stored in cellars or basements surrounded by walls of brick or stone, and at least two feet below the level of the sidewalk, street, or land adjacent, the whole quantity shall not exceed the contents of one hundred and fifty barrels unless stored in warehouses specially adapted for that purpose, as required for the storage of crude petroleum under this section, provided, also, that no quantity of said oils greater than five barrels shall be stored or kept in any building occupied in any part thereof as a dwelling.

No benzine or naphtha shall be kept or stored except under the provisions of this section as follows: When stored above the cellar or basement, the quantity so stored shall not exceed the contents of ten barrels; when stored in a building, any part of which may be occupied as a dwelling, the quantity so stored shall not exceed three barrels.

In no case shall any of the articles named in this section be allowed to remain on the sidewalk beyond the front line of any building, or in the streets a longer time than is actually necessary for the storage, removal, or transportation of the same.

#### Combustible Material.

§ 52. Any quantity of combustible material, other than those heretofore enumerated under section fifty\*, may be kept or stored within the city, provided the same shall be upon an open space of ground, surrounded by a wall constructed entirely of fire-proof materials, at least twelve feet high and twelve inches thick; or within a fire-proof building, remote or distant at least fifty feet from any adjacent building.

#### Fireworks.

§ 54. No fireworks shall hereafter be manufactured, stored, or kept upon sale in the city of New York, except in such manner and in such quantity as shall be determined by the said commissioners, in the exercise of their discretion, under a permit by them granted therefor, subject to be revoked at any time, however, by said commissioners.

Fireworks, consisting of chinese crackers, rockets, blue-lights, candles, colored pots, lance-wheels, and other works of brilliant colored fires, may be kept upon sale intervening the tenth day of June and the tenth day of July in each year, provided the quantity kept upon sale in any one building shall not exceed in value at any one time the sum of one thousand dollars, and not otherwise.

#### Chemicals and Combustibles.

§ 55. No quantity of the following named chemicals and combustible material greater than as hereinafter enumerated, shall be stored or kept in, or upon any one building within the city of New York, namely: hemp or flax, unbaled, two thousand pounds in the whole; sulphur, one thousand pounds; tar, pitch, turpentine, varnish, rosin, twenty barrels in the whole; alcohol, pure spirits, camphene, burning fluid, five barrels in the whole; unslacked lime, ten barrels; aqua fortis and vitriol, five carboys in the whole; nitrate of soda, nitrate of silver, ether, phosphorous, fifty pounds in the whole; loose wood shavings, one hundred pounds; manufactured matches, one thousand pounds; except the same shall be stored and kept as required under section fifty-two.

#### Vegetable Fibre.

§ 56 (as amended by chapter 467, Laws of 1881). No quantity of cotton, hay, straw, flax, hemp, husks, rushes, oakum, rags, sea-weed, jute or other vegetable fibre when pressed or baled, greater than twenty tons in the whole, shall be stored or kept in any building within the city of New York, unless kept in a building fire-proof throughout, or in the manner prescribed under section fifty-two of this act, or in a building approved by the New York board of underwriters or the commissioners of the fire department, and of which approval a certificate shall have been issued by either of said boards, and shall not have been revoked: and none of the articles enumerated in this section, when loose or not baled, shall be kept as aforesaid in quantity exceeding one thousand pounds in the whole; excepting in private stable, in which may be kept such loose hay and straw in quantity not exceeding twenty-five hundred pounds in the whole. No person shall have, put or keep any hay or straw uncovered in any stack or pile, or in any other way exposed, within one hundred yards of any building in said city, or shall have, put, or keep within said city any hay, straw, hemp, flax, shavings, or rushes in any building not built of stone or brick or iron, and covered with tile or slate or other fire-proof material, which is or shall be within ten feet of any dwelling-house or chimney whatsoever.

#### Violations of this Law.

§ 57. It shall be the duty of the metropolitan fire commissioners, or their officers or agents, under the direction of said commissioners, to examine the dwelling-houses and other buildings in said city, for the purpose of ascertaining all violations of any of the several provisions of sections fifty, fifty-one, fifty-two, fifty-three, fifty-four, fifty-five, fifty-six and fifty-seven of this act; and also to examine the stoves and the pipes thereto, boilers, kettles, and also all chemical apparatus which in their opinion may be dangerous in causing or promoting fires, and also the places where ashes may be deposited, and upon finding any of them defective or dangerous, said commissioners shall direct the owner or occupant, either by a printed or written notice, to alter, remove or amend the same, in such manner and within such reasonable time as they may deem necessary: and in case of neglect or refusal so to do, the party offending shall forfeit and pay twenty-five dollars; and for every day after the time allotted as aforesaid to alter, remove, or amend the same in conformity with the direction aforesaid, the party so offending shall forfeit and pay the further sum of five dollars; and all the expenses of any removal, alteration, or amendment as aforesaid, shall be paid in the first instance by the occupant, but shall be chargeable against the owner of such dwelling-house or other building, and shall be deducted from the rent of the same unless such expense be rendered necessary by the act or default of such occupant, or unless there be a special agreement to the contrary between the parties. And said commissioners, and their officers or agents under the direction of said commissioners, or either of them, are hereby empowered at any and all times to enter into and examine all buildings, livery or other stables, hay boats or vessels, and places where any gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings or other combustible materials may be lodged, and give such directions in writing, in the premises, as may be deemed necessary by said commissioners, relative to the removal thereof. And in case of neglect or refusal on the part of the possessor of such combustible materials, or any of them, to remove or secure the same within the time and manner directed by the said commissioners, the party offending shall forfeit and pay, in addition to any penalty hereinbefore imposed, the sum of twenty-five dollars, and the further sum of five dollars for every day's neglect to remove or secure the same, after being so notified.

§ 58. Any person, persons, or corporation for the violation of any of the several provisions of sections fifty to fifty-eight inclusive of this act, when not therein otherwise provided, shall severally forfeit and pay a fine or penalty in the sum of fifty dollars for each and every such offense, and shall also forfeit and pay the penalties respectively imposed under any of said sections, and shall also be severally liable for the removal or abatement of said violations respectively under said sections.

§ 59. Wherever the phrases "metropolitan fire department," "metropolitan fire commis-

\* Section 50, which is obsolete, relates to gunpowder and other explosives.

sioners," or "said commissioners" are used in this act, they shall severally be taken and construed to mean, and refer to the metropolitan fire department in the city and county of New York, and the officers named by said designation thereunder, and wherever the phrases "said department," "superintendent of buildings," "said superintendent," "inspector of buildings," or "inspectors" are used in this act, they shall severally be taken and construed to mean and refer to "the department for the survey and inspection of buildings in the city of New York," and the officers respectively designated by said names under said department, and as to location of any matter, place or thing under the several sections of this act, unless therein otherwise stated, they shall severally be taken and construed to be located within or apply to said city of New York.

#### Fire Department to Enforce.

§ 60. The metropolitan fire department is hereby authorized, empowered, and specially charged with the duties of enforcing sections fifty to fifty-nine inclusive, of this act, and for that purpose and to that extent and in and about the giving of notice and the abatement or removal of violations of said last named sections, shall possess and exercise the same rights, powers, and duties as are herein conferred upon the said superintendent of buildings, in removing violations hereunder and in respect thereto, may proceed in the same manner and with like effect, and in its name may sue for and shall have the exclusive right of recovery of any and all penalties imposed under the said sections, fifty to fifty-nine inclusive, and may sue for and recover and collect the same with costs in the manner provided for in actions under the code of procedure; and may apply the same to the uses and purposes of said metropolitan fire department; and any action commenced in any of the district courts in said city, may be brought in any district court of the district adjoining the district in which the violation may have been committed or shall exist.

§ 61. This act is hereby declared a public act, and shall be construed liberally, and all courts and tribunals, or any judge or justice thereof, shall take cognizance thereof, and give force and effect to the purposes and objects thereby sought to be promoted.

§ 62. All statutes heretofore in force in this State in any case provided for by this act, or inconsistent with its provisions, so far as the same relates to the city of New York, are hereby repealed; but such repeal shall not affect any right already existing or accrued, or any liability already incurred by reason of any violation of any law heretofore existing, or any suit or proceeding already instituted under said laws, except as to the manner of conducting and enforcing the same.

And all rights of action, given or secured by said laws, may be prosecuted in the manner provided by this act.

§ 63. This act shall take effect June first, eighteen hundred and sixty-six.

#### CHAPTER 742, LAWS OF 1871.

AN ACT in relation to storage and the keeping of combustible material in the city of New York, the use and control of the fire alarm telegraph, the encumbrance of hydrants, and other purposes connected with the prevention and extinguishment of fires therein, and imposing certain powers and duties upon the board of fire commissioners of the said city.

Passed April 26, 1871: three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. The following regulations are hereby established for storage and the keeping and sale of combustible materials in the city of New York:

#### Explosives—Gunpowder, Nitro-glycerine, et cetera.

§ 2. No person shall manufacture, have, keep, sell or give away any gunpowder, blasting powder, gun-cotton, nitro-glycerine, dualin, or any explosive oils or compounds, within the corporate limits of the city of New York, or waters adjacent thereto, except in the quantities limited, in the manner, and upon the conditions herein provided, and under such regulations as the fire commissioners of the city of New York shall prescribe; and said commissioners shall make suitable provision for the storage and safe keeping of gunpowder and other dangerous and explosive compounds or articles, enumerated under this act, beyond the interior line of low water-mark in the city and county of New York. The said commissioners may issue licenses to persons desiring to sell gunpowder or any of the articles mentioned under this section at retail, at a particular place in said city, to be named in said license (provided that the same shall not be in a building used in any part thereof as a dwelling, unless specially authorized by said license), and persons so licensed may have on their premises, if actually kept for sale, a quantity not exceeding at any one time of nitro-glycerine, five pounds; of gun-cotton, five pounds; of gunpowder, fourteen pounds; blasting powder, twenty-five pounds; and all of said articles shall be put up in tight metallic canisters, containing or capable of containing, not more than one pound each; and the persons so licensed shall place on some conspicuous part of the front of each of the stores or buildings in which they may be licensed to sell powder, or any of the articles mentioned under this section, a sign, on which shall be distinctly printed, in characters legible to persons passing such stores or buildings, the words "licensed to sell gunpowder," or designating such other of the articles herein named as is there offered for sale; and every barrel, cask, canister, bottle, can, vessel, box, or parcel in which the same is sold, or into which the same is delivered on being sold, shall be distinctly labeled with a printed sign or label printed upon or firmly affixed thereto, describing the article contained therein, with the word "danger" distinctly painted below the same. No nitro-glycerine, dualin or gunpowder shall be manufactured in said city, and no quantities of nitro-glycerine, dualin or gunpowder greater than above provided shall be kept, carried, or conveyed within said city; except that for the purposes of distribution to or delivery from stores and buildings in said city, a quantity not more than five quarter-casks may be carried at any one time, during the daytime, for the purpose of transportation from any vessel, or sending the same to said stores or buildings, or any vessel or place without said city; provided, that in the carrying or conveying the same it shall be protected by being completely and securely covered with a leather or canvas cover or case, and marked "gunpowder." The commander, owner or owners of any ship or other vessel arriving in the harbor of New York, and having more than twenty-eight pounds of gunpowder, dualin or nitro-glycerine on board, shall, within forty-eight hours after the arrival, and before such ship or vessel shall approach nearer than three hundred yards of any wharf, pier, or slip to the southward of a line drawn thorough the centre of Seventy-third street, in said city, immediately give a written notice to the said commissioners of the fact that such powder or nitro-glycerine is on such vessel; but it shall be lawful either to proceed with such ship or vessel to sea, within forty-eight hours after her arrival, or to transship such gunpowder, dualin, or nitro-glycerine from one ship or vessel to another, for the purpose of immediate transportation, without landing the same; provided, however, that the provisions of this section shall not apply to any vessel receiving gunpowder or freight on any one day, provided such vessel do not remain at any wharf of the said city, or be within three hundred yards thereof after sunset. All gunpowder, gun-cotton, blasting powder, dualin, nitro-glycerine or other explosive compound, found in violation of this section, shall be forthwith seized and safely stored, and be sold, upon three days' notice to the owner or claimant; and the proceeds of such sale, after deducting all expenses, shall be forfeited and paid over to and for the use and benefit of the relief fund of the fire department in the city of New York. Nothing contained in this section shall be construed to apply to any ship or vessel of war in the service of the United States, or of any foreign government, while lying distant three hundred yards, or upwards, from the wharves, piers, or slips of the said city.

#### Explosive Compounds—Fireworks, Chemicals, Acids, et cetera.

§ 3. No fireworks, detonating works, cartridges, powder train, percussion caps, collodium, nitrate of soda, nitrate of silver, ether, phosphorous, matches, or explosive compounds, shall hereafter be manufactured, stored or kept for sale in the City of New York, except at such places, in such manner, and in such quantities as shall be determined by the said commissioners in the exercise of their discretion, under a permit by them granted therefor, and subject to be revoked at any time by said commissioners. Fireworks, consisting of Chinese crackers, rockets, blue-lights, candles, colored pots, lance wheels, and other works of brilliant-colored fires, may be kept upon sale intervening the tenth day of June and the tenth day of July in each year, by retail dealers, under such reasonable regulations as said commissioners may prescribe, under a permit issued therefor; and no quantity of the following-named chemicals, acids, and combustible materials, greater than as hereinafter enumerated, shall be stored or kept in or upon any one building within the city of New York, namely: sulphur, one thousand pounds; manufactured matches, five hundred pounds; saltpetre, nitrate of soda, five hundred pounds in the whole; nitrate of silver, collodium, ether, phosphorous, fifty pounds in the whole; cartridges, percussion caps, powder train, one hundred pounds in the whole; aqua fortis, muriatic acid, nitric acid, and sulphuric acid, not exceeding one thousand pounds in the whole; tar, pitch, rosin, turpentine, one hundred barrels in the whole, except the same shall be stored and kept in such building and manner as said commissioners may require, under a special permit by them issued therefor.

#### Petroleum, Kerosene, et cetera.

§ 4. No person shall have, keep upon sale, or store in any place or building within the corporate limits of the city of New York, any crude petroleum, coal, or any similar oil, nor any of their products, either of which shall emit an inflammable vapor at a temperature below one hundred degrees, Fahrenheit, except under the following provisions: or any of their products may be stored in detached and properly ventilated warehouses, the outer walls of which shall be stone, brick, or iron, especially adapted for the purpose, by having raised sills at least two feet high, or the ground floor of which shall be at least two feet below the level of the street or adjoining yard, or so constructed as to actually prevent the overflow of such substances beyond the premises where the same may be kept or stored; which said warehouses shall not be occupied in any part as a dwelling, and if less than fifty feet from any adjacent dwelling the same must be separated by a brick or stone wall at least ten feet in height and sixteen inches thick, constructed in such manner as said commissioners may prescribe, but the same may be stored in such other manner as said commissioners may designate under a special permit issued therefor.

No refined petroleum, kerosene, coal or similar oil, or any product thereof to be used for illuminating or heating purposes, which shall emit an inflammable vapor at a temperature below one hundred degrees, Fahrenheit, shall be kept upon sale or stored within the corporate limits of the city of

New York. All said articles shall be tested and their quality determined by sanitary surveyors authorized by said commissioners, using G. Tagliabue's instruments, or such other instruments as may be designated by said commissioners.

No refined petroleum, kerosene, gasoline, naphtha, or benzine, Lenzole, camphene, or burning fluid, or products or compounds containing any of said substances, when temporarily placed above the cellar or basement of any building, and in barrels of not over forty-five gallons each, or in metallic vessels or tanks, shall exceed in the whole quantity the contents of fifty of said barrels; provided, however, that the whole quantity of said refined oils that may be so kept or stored over night shall not exceed the contents of ten of said barrels, unless stored in the manner provided for storing crude petroleum; and when stored in cellars or basements surrounded by walls of brick or stone, and at least two feet below the level or grade of the sidewalk, street, or land adjacent, the whole quantity shall not exceed the contents of one hundred and fifty barrels, unless stored in warehouses specially adapted for that purpose, as required for the storage of crude petroleum under this section; provided, also, that no quantity of said oils greater than one barrel shall be stored or kept in any building occupied in any part thereof as a dwelling.

No refined petroleum, kerosene, gasoline, naphtha, benzine, benzole, camphene, burning fluid, or products or compounds containing any of said substances, shall be kept or stored, on or above the first story or floor of any building, exceeding in the whole quantity the contents of five barrels, of forty gallons each. In no case shall any of the articles named in this section be allowed to remain on the sidewalk beyond the front line of any building, or in or upon the streets, docks, piers, bulkheads, slips, highways, or public places, a longer time than is actually necessary for the removal or loading of the same; and said commissioners may establish and enforce general regulations, and issue such orders and special directions relative to the handling, lightering, carting, loading, unloading, and transportation of the several articles named under this section, as in their discretion shall be deemed necessary for the public protection; and said commissioners may issue special permits authorizing the keeping of any of the articles enumerated under this section in buildings, tanks, or structures fire-proof throughout, in such quantities, in such manner, and subject to such regulations as shall tend to secure the same against danger. No person shall sell at retail any kerosene or other product of petroleum, or any similar oil, to be used for heating or illuminating purposes, without first obtaining a license therefor from the said commissioners, to be issued with the consent of the mayor, under such rules and regulations as they may prescribe, which license shall be for the term of one year, and shall not be transferable; and for every such license, and for every renewal of the same, the said commissioners shall demand and receive the sum of ten dollars. Said license shall be posted in a conspicuous place in the store of the person or persons to whom the same is issued, and may be revoked for cause by said commissioners. Any person who shall sell any of the compounds above mentioned in this section, without first obtaining a license therefor, shall forfeit and pay the sum of twenty-five dollars. In case any person is burned by the explosion of any compound, the sale of which is prohibited by any section of this act, or has not been subjected to sanitary survey or licensed as therein provided, and death ensues therefrom, the person found guilty of selling the same shall be deemed guilty of a felony, and upon conviction shall be punished by a fine of not less than one thousand dollars nor more than five thousand dollars, or by imprisonment in the state prison for a term not less than one year, nor more than five years; and in case of a bodily injury, the party injured may maintain an action for damages against the party violating the provisions of this act. And any dealer who shall present and deliver for sanitary survey a sample of oil different from and which does not represent the quality of oil actually kept by him or her for sale, and not taken from the actual stock being offered for sale, and of the same quality therewith, shall forfeit and pay the additional sum of fifty dollars. If any fire insurance company organized under the laws of this state, or any insurance company of any other state, or any foreign insurance company authorized to do the business of insurance in this state, shall indorse upon any policy issued by them the right or privilege to keep, deal in, give away, sell or use any article or compound of a combustible or explosive character, the sale of which is made unlawful by any act of the legislature of this state, or shall cause or permit such indorsement to be made by others upon their policies of insurance, they shall for each and every such offense forfeit and pay a fine of five hundred dollars.

#### Combustibles, Fires, Lights, Fire Alarms, Fire Extinguishing Appliances, et cetera.

§ 5. No person shall kindle any fire, nor furnish the materials, nor in any way authorize or allow any fire to be made in any street, road, alley, lane, or upon any pier, wharf, or bulkhead in said city, except under such regulations as shall be established by said commissioners, under a penalty of ten dollars for each and every such offense.

All lights used in theatres and all other places of public amusement, manufactories, stables, or in show-windows, shall be properly protected by globes, glass coverings, or in such other manner as said commissioners shall prescribe, under the penalty of ten dollars for each omission to do so.

The proprietors of all manufactories, hotels, tenement-houses, boarding and lodging houses, warehouses, stores and offices, theatres and music halls, and the authorities having charge of the public schools and other public buildings, churches, and other places where large numbers of persons are congregated for purposes of worship, instruction, or amusement, shall provide such means for communicating alarms and extinguishing fires, and communicating necessary information to the police, as said commissioners and the police commissioners shall prescribe.

#### Details at Places of Amusement.

And said commissioners may detail, not to exceed two members of the fire department, at each and every place of amusement where machinery and scenery are used, while such place is open to the public, whose duty it shall be to guard against fire, and have charge and control of the means provided for its extinguishment, and shall have the control and direction of the employees of the place to which they may be detailed for the purpose of extinguishing any fire which may occur therein.

#### Fire-Hydrant Obstructions.

§ 6. No person shall in any manner obstruct the use of any fire-hydrant in said city, or allow any snow or ice to be thrown or piled upon or around the same, or have or place, or allow to be placed, any material in front thereof, from the curb line to the centre of the street, and to within ten feet from either side thereof, and all snow or ice accumulating within such space shall be removed by the owner or owners, lessee or lessees of the premises fronting the same in the same manner as is prescribed for the keeping clear of the sidewalk, under a penalty of ten dollars for each and every such offense; and any and all material found as an obstruction as aforesaid may be forthwith removed by the officers or employees of said commissioners, and at the risk, cost, and expense of the owner or claimants, and said commissioners may take all proper measures to keep said hydrants from freezing and in proper condition for use at all times.

#### Fire-Alarm Telegraph.

§ 7. Said commissioners shall have exclusive right and power, from time to time, to designate and fix the location of all fire-alarm telegraph signal and alarm stations in the city of New York, and to have access to and the control of the same for the purposes of the department; to fix upon and adopt the colors or combination of colors in painting the poles, boxes, and fixtures thereof, and the kind or style of keys and appliances by which to operate the same; to select and designate the places of deposit for keeping the keys of the various stations, and to designate the officers and persons who shall be intrusted with duplicate keys and authorized to use the same, and to make, from time to time, such rules and regulations governing the possession, return, or use thereof, and as to the use and control of said telegraph, as they may deem necessary; and no person other than the said commissioners or their officers and their employees specially authorized to operate said telegraph, or to use the same for instruction or drill, or policemen or citizens using the same for communicating an actual alarm of fire, shall make use thereof; and no person shall use the keys or appliances thereof for communicating a false alarm, or experimenting or tampering with the same for any purpose whatever, or have or possess any key thereof, without such authority; and no person, association, corporation, or company shall post, paint, impress, or in any way affix to any pole connected with said fire-alarm telegraph, or any box, wire, or other appliance connected therewith, any placard, sign, broadside, notice, or announcement of any kind, or cut, mutilate, alter, mar, deface, cover, obstruct, or interfere with the same in any manner whatsoever, or paint, or cause to be painted, the poles of any other telegraph, or any other poles on the line thereof, of a similar color or colors, or in imitation thereof, nor consent, allow, or be privy to any of said things being done for them or upon their behalf; and any offense against the provisions of this section shall be punished as a misdemeanor, and subject the party or parties violating the same to an additional penalty of one hundred dollars. No kite shall be flown, raised, or put up in the streets or avenues adjacent to the lines of said telegraph in the city of New York, or allowed to become entangled with the wires or apparatus of said telegraph, under a penalty of ten dollars for every such offense; and the commissioners of police and their officers are specially charged and directed to aid in the enforcement of this section.

#### Hoistways, Well-holes, Iron Shutters, et cetera.

§ 8. All hoistways, well-holes, trap-doors, and iron shutters shall be closed at the completion of the business of each day by the occupant of the building having use or control of same, and in case of a violation of this provision, such occupant having the use or control thereof shall forfeit and pay a penalty of fifty dollars for each and every neglect or omission so to do.

#### Accidents or Injuries Caused by Non-compliance.

And for any accident or injury to life or limb, resulting directly or indirectly from any neglect or omission to properly comply with any of the requirements of this section, the person or persons culpable or negligent in respect thereto shall be liable to pay to any officer, agent, or employee of said commissioners injured, or whose life may be lost (resulting from such neglect or omission) while in the discharge or performance of any duty imposed by said commissioners, or to the wife and children, or to the parents, or to the brothers and sisters, being the surviving heirs-at-law of any deceased person thus having lost his life, a sum of money in case of injury to person not less than one thousand dollars, and in case of death, not less than five thousand dollars, such liability to

be determined and such sums recovered in an action to be instituted by said commissioners for and in behalf of any person injured, or the family or relatives of any person killed as aforesaid.

*Liability for Damage by Fire, Resulting from Willful or Culpable Negligence, et cetera.*

And any and all persons for any fire resulting from his or their willful or culpable negligence, or criminal intent or design, shall, in addition to the present provisions of law for the punishment of persons convicted of arson, be liable in a civil action for the payment of any and all damages to person and property the result of such fire, and also for the payment of all costs and expenses of said commissioners incurred in and about the use of employees, apparatus, and materials, in the extinguishment of any fire resulting from such cause, the amount of such costs and expenses to be fixed by said commissioners, and when collected shall be paid into the relief fund of said department herein created; and shall also be liable for injury to person or loss of life of any officer, agent, or employee of said commissioners, in the same manner and like extent, and to be sued for in like manner as in the preceding part of this section.

*General Powers, et cetera—Authority to Enter and Examine Premises.*

§ 9. The said commissioners, and their officers or agents, under the direction of said commissioners, or either of them, are hereby empowered at any and all times to enter into and examine all buildings, livery and other stables, hay-boats or vessels, and places where any merchandise, gunpowder, hemp, flax, tow, hay, rushes, firewood, boards, shingles, shavings, or other combustible materials may be lodged, and deliver a written or printed notice, containing an extract from this act, of the provisions in reference thereto, and notice of any violation thereof, and notice to remove, amend, or secure the same within a period to be fixed therein.

*Penalty for Non-compliance with Requirements Made.*

And in case of neglect or refusal on the part of such occupant or of the possessor of such combustible materials, or any of them, to remove, amend, or secure the same within the time and in the manner directed by the said commissioners in such notice, the party offending shall forfeit and pay, in addition to any penalty hereinbefore imposed, the sum of twenty-five dollars, and the further sum of five dollars for every day's neglect to remove, amend, or secure the same after being so notified. All persons or corporations who shall be required to have and obtain permits shall furnish such information as may be required, touching the condition of any building, and the business therein proposed to be conducted, preliminary to obtaining such permits.

*Chimney Fires.*

In case any chimney or flue within the corporate limits of the city shall take fire, the person or persons using said chimney or flue shall forfeit and pay a fine of five dollars, unless cause for the same shall be shown to the satisfaction of said commissioners.

*Pipes for Fire Extinguishing Purposes.*

The said fire commissioners are hereby authorized and empowered to permit the metropolitan fire extinguishing company to lay pipes through and along any of the streets, lanes, avenues, alleys, or roads in the said city, for the purpose of extinguishing fires, under such rules and regulations as shall be prescribed by the commissioner of public works.

*Hose-bridges.*

The said commissioners are empowered to provide for the laying on the railway tracks of the city over the hose used by the department for the extinguishment of fires such hose-bridges as they may deem necessary; and the various horse and steam railway companies running cars within the limits of the city of New York shall, after the passage of this act, provide and use such hose-bridges as may be designated by the commissioners of the fire department; such bridges shall be paid for by the railway companies using the same.

*Investigations into Origin and Management of Fires, Violation of Law or Regulations and Directions of Department.*

§ 10. Said commissioners are hereby authorized and empowered to investigate, examine, and inquire into the origin, details, and management of fires in said city, and also of any supposed cases of violations of any of the provisions of this act, or of any of the several regulations, orders, or special directions issued by said commissioners for the purpose of the discovery of any delinquency in the non-performance of duty or violation of discipline on the part of any officer, agent, or employee of said commissioners, or any supposed cases of arson or incendiarism which may be brought to their notice; and said commissioners, in and about any examination, investigation, or inquiry authorized hereby, touching any matter or thing therewith connected, may subpoena and compel the attendance of any person or persons, and the production of any books, papers, archives, or documents in his or their possession, or under his or their control, in the judgment of said commissioners connected with and necessary to such examination, investigation, or inquiry before them, at the time and place therein named; and for the purpose aforesaid their attorney may at any time obtain to be issued subpoenas out of the supreme court, tested under the name of a justice of said court, in like form and with like effect as though issued by said justice in any action pending in a court of record; and said subpoena may be served, and proof of such service, may be made in the same manner as now by law provided for the service of subpoenas out of the said court; and upon proof of service and proof of non-compliance, failure to attend and testify on the part of any person or persons, as required by said subpoena, or a failure or refusal on the part of said person or persons to produce any such books, papers, archives, or documents in his or their possession, or under his or their control, or a failure or refusal on his or their part to answer any question put to him or them, and pertinent thereto, upon any examination, inquiry, or investigation as aforesaid, application may be made before any justice of said court, who shall, in case he shall decide such question pertinent and proper to be answered, thereupon cause to be arrested, and may punish as for a contempt of the orders of said court, the person or persons named in said subpoena, and in such case the laws, rules, and proceedings relating to punishments for contempts, and usual in said court, or before any justice thereof, shall be applicable thereto.

Said commissioners, in conducting any examination or inquiry as aforesaid, are hereby authorized to administer any oath or affirmation in the matter, and any false swearing under said oath or affirmation thus administered shall be perjury, and punishable as such in such manner as now provided under the laws applicable thereto; and said examination or investigation may be continued and adjourned by the said commissioners conducting the same, from time to time, and at such time and place as shall be designated, and any person subpoenaed as aforesaid shall attend and testify upon said adjourned day or days, and at the time and place designated, and of which they shall have been notified, as though the same had been named in said subpoena, and with like effect as to any failure to appear and answer under the requirements therein contained. Provided, that any testimony or evidence taken as aforesaid shall be for the information and instruction of said commissioners in the discharge of their duties, and in the prevention of future fires, and the protection of property, and shall be carefully kept in the archives and possession of said commissioners, and shall in no manner be used in any criminal proceeding or action, but may be placed before any grand jury in said city or county of New York; but nothing in this section contained shall be construed to interfere with the rights, powers, and duties of the fire marshal of the city of New York, who shall at all times have access to and the authority to unite in such examination and investigation, and the same shall not be construed to interfere with his rights, privileges, perquisites, or duties in investigating as heretofore, the origin and causes of fires.

*Penalties.*

§ 11. Any person, persons, or corporation, for the violation of, or non-compliance with, any of the several provisions of the several sections of this act, when the penalty is not therein specially provided, shall severally forfeit and pay a fine or penalty in the sum of fifty dollars for each and every such offense, or shall forfeit and pay the penalties, respectively imposed under any of said sections, and shall also be severally liable for the removal, amendment, or abatement of any violation of, or non-compliance with, any requirement under said sections, and shall also be severally liable for the payment of the further penalty of the sum of fifty dollars for any violation of, or non-compliance with, any regulation, order, or special direction issued by said commissioners as authorized under this act.

*Informers.*

Said commissioners may, in their discretion, pay a portion of a fine or penalty, when collected, not to exceed one-half thereof, to an informer.

*Enforcement of Law.*

§ 12. The board of fire commissioners of the city of New York are hereby authorized, empowered, and especially charged with the duties of enforcing the several provisions of this act, and may incur any expense necessary and proper therefor; and as to the location of any matter, place, or thing under the several sections of this act, they shall severally be taken and construed to be located within, or apply to said city of New York.

*Collection of License Fees and Penalties, Relief Fund, et cetera.*

And said board of fire commissioners are hereby authorized and empowered to receive and collect all license fees herein mentioned, and to sue for, and shall have the exclusive right of recovery of, any and all penalties imposed under this act, and may sue for and recover and collect the same, with costs, in the manner provided for in actions under the code of procedure, and shall apply the same to the uses and purposes of the relief fund of the fire department of the city of New York, and said board of fire commissioners may in their name bring any suit or action authorized; and any action to recover any fee, fine, or penalty under this act may be brought in any of the district courts in said city.\*

*Duties of the Attorney.*

And the corporation attorney shall, under the direction of said commissioners, take charge of the prosecution of all suits or proceedings instituted for the recovery and collection of penalties, and

the enforcement of the several provisions of this act; collect and receive all moneys upon judgments, suits or proceedings so instituted; pay all costs and disbursements, and discontinue suits and proceedings, and execute satisfaction of judgments upon payment of penalties, or costs, and in compliance with orders made in such suits and proceedings; shall keep a correct and accurate register of all suits and proceedings, and account for all moneys received and paid out thereon; and shall pay over to the treasurer of the relief fund herein created the amount of all license fees, penalties, and moneys received and collected by him, after deducting the amount of all costs and disbursements actually made, provided that nothing herein contained shall be construed to increase or alter the compensation of the attorney of said board as now fixed, and the said commissioners are authorized to settle or compromise any such suit or judgment for less than the amount of the same, in case in their judgment they are satisfied that payment of the full amount cannot be collected.

*Location for Buildings Required by the Department.*

§ 13. Whenever the board of fire commissioners in the city of New York shall require any additional buildings for their offices, apparatus-houses, workshops, and shall certify in writing the particulars of such requirement, and the location most desirable for the same, to the comptroller of said city, then the mayor, the commissioner of public works, the comptroller, the president of the department of public parks, and the president of said board of fire commissioners in the city of New York are hereby authorized and empowered to purchase such premises as they, or a majority of them, may deem most advantageous; and the comptroller is hereby authorized and directed to pay for the same, and to provide the means therefor; the comptroller shall issue bonds of the corporation of the city of New York, signed by the comptroller and mayor, sealed with the official seal of the corporation, attested by the clerk thereof, and transferable in the usual manner according to the rules prescribed by the comptroller, and to bear interest not exceeding seven per cent. per annum, payable half-yearly, to wit, on the first day of May and November in each year, the principal sum or amount thereof not to exceed two hundred thousand dollars, and to be payable within fifteen years from the date when issued; and the board of supervisors of the county of New York are hereby authorized and directed to order and cause to be raised by tax upon the estates by law subject to taxation within the city and county of New York, an amount sufficient in each year to pay the interest on the bonds as herein authorized, and also an amount sufficient to pay and redeem the said bonds at their maturity; and the said board of fire commissioners are hereby authorized and empowered to construct and maintain buildings thereon for the use of the fire department in the city of New York (provided the cost of said buildings in any one year shall not exceed the sum of one hundred thousand dollars), and pay for the said buildings and improvements by money obtained under an item for that purpose in their annual estimate, as now provided by law;

and the title of any property so acquired shall be taken in the name of, and with such buildings belong to the mayor, aldermen, and commonalty of the city of New York, liable only to the obligations incurred by the commissioners of the sinking fund of said city; and the board of public works are hereby authorized and empowered, in their discretion, on the application in writing of the board of fire commissioners, to grant to them locations for apparatus-houses of said fire department in any of the public property, streets, or slips under the control of said department in said city; provided the same are so located and constructed as in the judgment of the board granting permission will not disfigure or mar the appearance of the same, or interfere with the purposes of travel or public recreation; and if placed upon any avenue, street, or slip, shall not reduce the width of the same between curbs, for the purposes of travel, at the place of such location, to less than thirty feet on each side of such building. And the department of public parks are hereby authorized and empowered in their discretion on the application in writing of the board of fire commissioners to grant to them locations for apparatus-houses of said department, in any of the public places, parks, or squares in said city under their control provided the same are so located and constructed as in the judgment of the board granting such permission will not disfigure, or encumber the same or interfere with the purposes of public use and recreation, but will tend to the protection of the public and their property. On the obtaining of such grant of location the said board of fire commissioners are hereby authorized and empowered to proceed and erect such buildings, provided that the title to the fee of the property covered by the same shall remain as the same is now vested, subject only to such public use; and that when the same ceases to be used for the purposes herein named, the said buildings shall be removed, and shall not be let, sold, or used for any private purpose whatsoever.

*Relief Fund.*

§ 14 (as amended by chapter 119, Laws of 1879). All fines imposed by the board of commissioners of the fire department in the city of New York, upon members of the fire department force, by way of discipline, and collectible from pay or salary, and all rewards in money, fees, gifts, and emoluments that may be paid or given for account of extraordinary services by any member of said force (except when allowed to be retained by said member, or given to endow a medal, or other permanent or competitive reward), and all proceeds of suits for penalties under this act, and all license fees payable under the same, or under the law with the execution of which the fire department is now or may hereafter be charged, shall be received by the treasurer of the said board for the time being, and applied by him for the purposes of the trust fund hereinafter created. The commissioners of the fire department in the city of New York for the time being, and their successors in office, are hereby created and declared to be the trustees of the fund to be known as "the New York fire department relief fund," and the treasurer of the said board, for the time being, who shall be the treasurer ex-officio of said relief fund shall receive all moneys applicable to the same, and deposit the same as such treasurer of such relief fund, to the credit of such relief fund, in a savings bank to be selected by said trustees, and continue to receive and deposit funds applicable to the same as received, to the credit of said fund, or to invest the same on bond and mortgage on improved property worth twice the amount loaned, or in public stocks, as said trustees may deem most advantageous for the object of such fund; and said trustees are empowered to make all necessary contracts, and to take all necessary remedies in the premises. And the said treasurer of the said relief fund shall receive from the treasurer of the relief fund of the metropolitan fire department the amounts of money to the credit of that fund, and apply the same to the purposes of the fund herein created. And the said trustees, for and on behalf of the uses and purposes of said fund, shall be entitled to receive, and there shall be paid to them all duties, taxes, allowances, fines, penalties, and fees to which the fire department of the city of New York, as at any time heretofore established, has been or is entitled, and the said trustees may take, by gift, grant, demise, or bequest, any money, real or personal property, rights of property, or other valuable thing, the annual income of which shall not exceed thirty thousand dollars in the whole; and if, in any year, when the condition of the said relief fund shall render it, in the judgment of the said trustees, necessary, the board of fire commissioners may receive from the authorities of the city of New York a sum not exceeding five thousand dollars, to be included in the annual estimate of the board, and drawn and collected by them in like manner as the other moneys applicable to their expenses; and such amounts so obtained shall, in like manner, be paid to and applied by the treasurer to the use of said fund, by deposit or investment as herein before provided, as the trustees thereof shall direct; provided that the sum of two hundred thousand dollars, which may be received and accumulated under the provision of this act, shall be reserved and retained as a permanent fund, the annual income of which may be made available for the use and purposes of said relief fund. The said treasurer of the relief fund hereby created shall execute a bond for the faithful performance of his duties, in like manner as his present official bond is drawn, executed, and filed, and in such penal sum as the said board of commissioners shall direct.

*Retirement from all Service or Relief from Fire Service.*

The board of fire commissioners shall have the power by a unanimous vote to retire from all service in the said fire department, or to relieve from service at fires, any officer or member of the uniformed force of the said department who may, upon an examination by the medical officer, ordered by the said fire commissioners, be found to be disqualified, physically or mentally, for the performance of his duties; and the said officer or member so retired from service shall receive from the said relief fund an annual allowance as pension in case of the total disqualification for service, or as compensation for limited service, in case of partial disability; in every case the said board of fire commissioners to determine the circumstances thereof; and said pension or allowance so allowed to be in lieu of any salary received by such officer or member at the date of his being so relieved or retired from fire duty in said department; and the said department shall not be held liable for the payment of any claim or demand for services thereafter rendered; and the amount of such pension or allowance shall be determined upon the following conditions: In case of total permanent disability, caused in or induced by the actual performance of the duties of his position, or which may occur after ten years' active and continuous service in the said fire department, the amount of annual pension to be allowed shall be one-half of the annual compensation allowed such officer or member as salary at the date of his retirement from the service, or such less sum in proportion to the number of officers and members so retired, as the condition of the fund will warrant. In case of total permanent disability not caused in or induced by the actual performance of the duties of his position, or which shall have occurred before the expiration of ten years' active and continuous service in the said fire department, the amount of annual pension to be allowed shall be one-third of the annual compensation allowed such officer or member as salary, at the date of his retirement from the service, or in proportion to the number of officers and members so retired as the condition of the fund will warrant. In case of partial permanent disability, caused in or induced by the actual performance of the duties of his position, or which may occur after ten years' active and continuous service in the said fire department, the officer or member so disabled shall be relieved from active service at fires, but shall remain a member of the uniformed force, subject to the rules governing said force, and to the performance of such light duties as the medical officer of the said department may certify him to be qualified to perform; and the annual allowance to be paid such officer or member shall be one-half of the annual compensation allowed as salary at the date of his being so relieved, or such less sum in proportion to the number of officers and members so retired, as the condition of the fund will warrant. In case of partial permanent disability not caused in or induced by the actual

\* See section 76, chapter 335, Laws of 1873, as amended.

performance of the duties of his position, or which may occur before ten years' active and continuous service in the said fire department, the officer or member so disabled shall be relieved from active service at fires, but shall remain a member of the uniformed force, subject to the rules governing said force, and to the performance of such light duties as the medical officer of the said department may certify him to be qualified to perform, and the annual allowance to be paid such officer or member shall not exceed one-third of the annual compensation allowed as salary at the date of his being so relieved, or such less sum as the said board may, in their discretion, determine, or as the condition of the fund will warrant. If any officer or member of the said fire department or retired officer or member of the same shall die while in the service of the same or while so retired, and shall leave a widow, or if no widow, any child or children under the age of sixteen years, a sum not exceeding three hundred dollars, or such less sum as, in the opinion of the trustees, the condition of the fund will justify, by way of annuity, shall be paid to such widow so long as she remains unmarried, or to such child or children so long as the youngest of said children continues under the age of sixteen years. In every case the board of fire commissioners shall determine the circumstances thereof, and order payment of the annuity to be made in such proportion to the various representatives (in case there shall be more than one) as they may deem just, by drafts to be signed by each trustee; but nothing herein contained shall render any payment of said annuity obligatory upon the said board or upon said trustees, or chargeable as a matter of legal right; and the board of commissioners may, at any time, order such annuity to be reduced, or to cease.

#### Life Insurance Fund.

There shall be deducted from the monthly pay of each officer or fireman of said department, and from the monthly pension of retired members of said department, and from the pay of such of the other employees of said department as shall desire to avail themselves of this provision, the monthly sum of one dollar, which shall be received and held by the treasurer of the relief fund herein created, in the like manner as the other moneys herein provided to be paid to him; and which shall be known as the New York fire department life insurance fund; and in case of the death of any member or employee of said department, in the service thereof, or of any pensioned or retired member of said department, and so contributing, there shall be paid to the widow, or if there be no widow then to the legal representatives of such deceased member or employee or pensioned and retired member, the sum of one thousand dollars out of the moneys so assessed; and in the case by reason of the number of deaths the aggregate amount of moneys so provided to be assessed and collected should prove inadequate to make such payment, then the assessment may, in the discretion of said trustees, be increased to not exceeding the sum of two dollars in each month's pay or each month's pension of pensioned and retired members of said department; and if in any year, owing to an excessive mortality in the uniformed force, the condition of said life insurance fund shall render it, in the judgment of the said trustees, necessary, a sum not exceeding five thousand dollars may be transferred and paid over from the said relief fund to the said life insurance fund, for the use and purpose of said life insurance fund. Chapter seven hundred and fifty-six of the laws of eighteen hundred and sixty-six is hereby repealed.

§ 15. This act is hereby declared a public act, and all courts and tribunals, or any judge or justice, shall take cognizance thereof, and give force and effect to its several provisions; and all courts of civil jurisdiction in said city shall have jurisdiction over all suits or proceedings herein authorized to be brought; and upon the rendition of a verdict, report of a referee, or decision of a judge or justice, for the recovery of the amount of any penalty or penalties in any action brought therefor, shall give judgment for the amount of all penalties and costs, and for the removal, amendment, or abatement of any matter or thing, as shall be proper and necessary to give force and effect to the several sections of this act.

All statutes heretofore in force in this state, in any case provided for by this act, or inconsistent with its provisions, so far as the same relates to the city of New York, are hereby repealed; but such repeal shall not affect any right already existing or accrued, or any liability already incurred by reason of any violation of any law heretofore existing, or any suit or proceeding already instituted under said laws, except as to the manner of conducting and enforcing the same; and all rights of action, given or secured by said laws, may be prosecuted in the manner provided by this act.

§ 16. This act shall take effect June first, eighteen hundred and seventy-one.

#### CHAPTER 513, LAWS OF 1879.

AN ACT to provide for the payment of pensions to widows or children of officers or members of the uniformed force of the fire department of the city of New York.

Passed June 16, 1879; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. The trustees of the relief fund of the fire department of the city of New York, created by chapter seven hundred and forty-two of the laws of eighteen hundred and seventy-one, and the acts amendatory thereof and supplementary thereto, are hereby authorized and empowered, from time to time, to pay a pension out of the said relief fund to the widow, child, or children of any deceased officer or member of the uniformed force of the said fire department, as established in the city of New York by chapter two hundred and forty-nine of the laws of eighteen hundred and sixty-five, and of the acts amendatory thereof and supplementary thereto, if the death of such officer or member occurred during his service in the said uniformed force, or after he was retired from service in said uniformed force, under the provisions of section fourteen of chapter seven hundred and forty-two of the laws of eighteen hundred and seventy-one, and the acts amendatory thereof; provided that the amount of any such pension to be paid by the said trustees to each of the several representatives of such officer or member as aforesaid (in case there shall be more than one), may be from time to time determined by the said trustees according to the circumstances of each case, and that such pension may be ordered to cease and determine at any time if, in the opinion of the trustees, the circumstances should warrant the same; and further provided that not more than three hundred dollars shall be paid in any one year to the representative or representatives of such officer or member, and that no part of such sum shall be paid to any such widow who shall marry again, after her re-marriage, or to any child after it shall have reached the age of sixteen years.

#### CHAPTER 324, LAWS OF 1879.

AN ACT to prevent conflagration in certain cases within the counties of New York, Kings and Queens.

Passed May 19, 1879.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. It shall be unlawful for the owner, or for any of the officers, employees, or crew of any ship, vessel, canal boat, barge, lighter, boat, or other craft lying at or within one hundred and fifty feet of any warehouse, yard, shed, dock, pier, bulkhead, wharf, or other place, within the counties of New York, Kings, or Queens, at, in, or on which petroleum oil, or any of its products, is stored or kept for export, or in quantities exceeding ten thousand gallons; or for any other person or persons to bring, keep, have, or use or suffer or permit to be brought, kept, had, or used on board of any such ship, vessel, canal boat, barge, lighter, boat, or other craft, or at, in, or on any such warehouse, shed, yard, dock, pier, bulkhead, wharf, or other place, any lighted match, or lighted cigar, cigarette or pipe, or any fire or light of any kind without, or otherwise than in strict conformity to the written permission of the owner, lessee, or superintendent of such warehouse, yard, shed, dock, pier, bulkhead, wharf, or other place, specifying the fire or light to be kept, had, or used, and the particular purpose for and the place or spot at which the same may be so kept, had, or used, and the particular manner of keeping, having, or using the same.

Sec. 2. Every violation of this act shall be a misdemeanor, triable before any court of special sessions, having territorial jurisdiction of the place where the offense was committed, but this act shall not apply to steam tugs while transacting their ordinary business, nor to steam fire-engines engaged in extinguishing fires.

#### CHAPTER 563, LAWS OF 1868.

AN ACT creating the office of "Metropolitan Fire Marshal," and prescribing its powers and duties.

Passed May 4, 1868; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly do enact as follows:

#### Examination into Cause and Origin of Fires.

§ 2. It shall be the duty of the "metropolitan fire marshal" to examine into the cause, circumstances and origin of fires (occurring in those portions of the metropolitan police district in which regular patrolmen of metropolitan police are authorized and appointed), by which any building, vessels, vehicles, or any valuable personal property shall be accidentally or unlawfully burned, destroyed, lost or damaged, wholly or partially; and to especially inquire and examine whether the fire was the result of carelessness or the act of an incendiary. The "metropolitan fire marshal" shall take the testimony, on oath, of all persons supposed to be cognizant of any facts, or to have means of knowledge in relation to the matters herein required to be examined and inquired into, and cause the same to be reduced to writing, verified and transmitted to the board of metropolitan police, with his report in writing, embodying his opinion and conclusions in relation to the matter investigated. The "metropolitan fire marshal" shall report in writing to the metropolitan fire department, the board of metropolitan police, the unsafe building commission, to the district attorney, to the New York board of fire underwriters, to the owners of property, or other persons interested in the subject matter of investigation, any facts and circumstances which he may have ascertained by such inquiries and investigations, which shall, in his opinion, require attention

from or by either of said boards, officers, or persons; and it shall be the duty of the "metropolitan fire marshal" whenever he shall be of opinion that there is evidence sufficient to charge any person with the crime of arson, to cause such person to be arrested and charged with such offense, and furnish to the district attorney all the evidences of guilt, with the names of witnesses, and all the information obtained by him, including a copy of all pertinent and material testimony taken in the case; and he shall specially report to the board of metropolitan police, as often as such board shall require, his proceedings, and the progress made in all prosecutions for arson, and the result of all cases which are finally disposed of.

#### Powers of Fire Marshal.

§ 3. The "metropolitan fire marshal" shall have power to issue a notice, in the nature of a subpoena, in such form and subscribed in such manner as the board of metropolitan police shall prescribe, to compel the attendance of any person as a witness before him, to testify in relation to any matter which is, by the provisions of this act, a subject of inquiry and investigation by the said marshal. The said marshal shall be and is hereby authorized to administer and verify oaths and affirmations to persons appearing as witnesses before him; and false swearing in any matter or proceeding aforesaid shall be deemed perjury, and shall be punishable as such. Upon the presentation of satisfactory proof of due service of any such notice, in the nature of a subpoena, upon any such witness, and of a failure by such witness to obey the same, it shall be the duty of the board of metropolitan police to make an order that the said witness be arrested and brought before the said marshal, to testify what such witness may know in relation to the subject matter of inquiry. Such order may be executed by any member of the metropolitan police force, by arresting and bringing such witness before the said marshal, but such witness shall not be detained longer than is necessary to take such testimony. The "metropolitan fire marshal" shall have authority at all times of the day or night—in performance of the duties imposed by the provisions of this act—to enter upon and examine any building or premises, when any fire shall have occurred, and the buildings and premises adjoining and near to that in which the fire occurred.

§ 5. Whenever the words "marshal" or "said marshal" are used in this act, they shall be deemed and taken to mean and refer to the "metropolitan fire marshal," unless otherwise expressly provided.

§ 6. It shall be the duty of the board of metropolitan police to supervise and direct, whenever it shall be of opinion that the public interest will be subserved thereby, the investigations, examinations, and proceedings of said marshal, and make all needful and proper rules and regulations in relation to the duties of the office, and the manner of performing the same, and shall detail any members of the police force to aid and assist in the performance of such duties; and they shall, with their annual report to the Legislature, submit a summary of the transactions, proceedings, and official action of said marshal.

§ 7. All provisions of law creating, authorizing, or recognizing fire marshals in any portion of said district, except as herein provided, are hereby repealed.

§ 8. This act shall take effect immediately.

#### CHAPTER 584, LAWS OF 1871.

AN ACT to provide for the better prevention of fires in the city of New York, and to prescribe the powers and duties of the City Fire Marshal in relation thereto.

Passed April 19, 1871; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

#### Petroleum, et cetera.

§ 1. For the better prevention of fires within the city of New York, it shall be unlawful for any person, firm, or company in the said city to deal in, sell, or give away any refined petroleum, kerosene, or other burning fluid, at retail, or in less quantities than five barrels, or to use the same for illuminating or heating purposes in any dwelling-house, store, shop, restaurant, car, coach, or other vehicle which shall evolve combustible vapor at a temperature below one hundred degrees of the Fahrenheit thermometer. It shall not be lawful for any person, firm, or company to deal in, sell, or give away, in said city, any petroleum, or product of petroleum, kerosene, or other oil or fluid, which emits a combustible vapor at a temperature below one hundred degrees Fahrenheit, unless each package of the same be labeled in clear and distinct characters, "highly dangerous; liable to explode; below one hundred degrees Fahrenheit; not to be used for illuminating or heating purposes." And it shall not be lawful to label, mark, or dispose of such article under any name which might lead persons to suppose it to be intended for either of the aforesaid purposes. No person, firm, or company in said city shall deal in, sell, or give away any petroleum or product thereof, kerosene, or other burning fluid, without first obtaining a license therefor, which the fire commissioners of the city of New York are hereby authorized to issue under such rules and regulations as may be prescribed, which license shall be for the term of one year, and shall not be transferable, and for every such license, and for every renewal of the same, the said commissioners shall receive such license fee as they may prescribe, not exceeding the sum of ten dollars; said license shall be conspicuously posted in the place of business of the person or firm to whom the same is issued, and may be revoked for cause by said commissioners. Any person or firm who shall deal in, sell, or give away in said city any of the compounds herein mentioned, without first obtaining a license therefor, shall, for every such offense, forfeit and pay the sum of twenty-five dollars.

#### Shavings.

§ 2. All carpenters or others in said city making or using shavings shall respectively, at the close of each day, cause the same to be securely stowed in some safe place remote from danger by means of fire, under the penalty of ten dollars for each omission so to do.

#### Heating and Chemical Apparatus, Boilers, et cetera.

§ 3. It shall be the duty of the fire marshal, or his officers and agents, when authorized by him in writing so to do, to enter into any building or premises within said city for the purpose of examining, or causing to be examined, the stoves and pipes thereto, ranges, furnaces, and heating apparatus of every kind whatsoever, including the chimneys, flues, and pipes with which the same may be connected, engine-rooms, boilers, ovens, kettles, and also all chemical apparatus, or other things which in his opinion may be dangerous in causing or promoting fires, or dangerous to firemen or occupants in case of fire; and upon finding any of them defective or dangerous, or in any manner exposed or liable to fire from any cause, he shall report the same to the board of police of the police department of the city of New York,\* who may thereupon issue such orders or special directions, either printed or written, directing the owner or occupant to alter, remove, or remedy the same in such manner and within such reasonable time as may be necessary, and in respect thereto may authorize and direct the use of such materials and appliances as shall be deemed proper and necessary; and in case of neglect or refusal so to do within the time prescribed by such orders or directions, the fire marshal, under the direction of said board, shall cause such alteration, removal, or other necessary act or work to be done, and the expense thereof shall be charged to the party so offending, to be sued for and recovered in the manner herein provided for the recovery of fines and penalties under this act.

#### Powers and Duties of Fire Marshal.

§ 4. All provisions of chapter five hundred and sixty-three, laws of eighteen hundred and sixty-eight, creating the office of metropolitan fire marshal, and prescribing the powers and duties thereof, shall be and remain in force so far as applicable. For the purpose of investigating the origin of fires, incendiary or otherwise, and bringing to punishment the parties guilty of arson, the said fire marshal is hereby invested with the same powers and jurisdiction as were heretofore conferred upon the superintendent of police of the city of New York in relation thereto, by section nine of title twenty-two, chapter twenty, part one of the revised statutes.†

#### Assistant Fire Marshal.

§ 5. Said board of police is hereby authorized and empowered to appoint an assistant fire marshal, who shall possess all the powers and perform all the duties of the fire marshal in case of his absence or inability to act from any cause whatever. Said board is also hereby authorized and empowered to detail such number of patrolmen to said office as may be necessary to carry out the provisions of this act.

#### Penalties.

§ 6. Any person, persons, or corporation, for the violation of or non-compliance with any of the provisions of this act when not otherwise provided for, shall severally forfeit and pay a fine or penalty in the sum of twenty dollars for each and every such offense, and shall also forfeit and pay the penalties respectively imposed by any of the provisions of this act, and shall also be severally liable for the expense of the removal, amendment, or abatement of any violation of or non-compliance with any provisions hereof, and shall also be severally liable for the payment of the further penalty of the sum of ten dollars for any violation of or non-compliance with any regulation, order, or special direction issued by said board, as authorized under this act; reports of the violations of the provisions of this act shall be made in writing to the corporation attorney of the said city, who shall prosecute and collect the penalties in the name of the mayor, aldermen, and commonalty thereof, in the same manner as penalties for the violation of the city ordinances are now prosecuted and collected by him, and shall pay all such fines and penalties so collected to the comptroller of said city monthly.

\* See sec. 76, chap. 335—1873.

† § 9. Title XXII, chap. 20, part 1, Revised Statutes.—The General Superintendent of Police of the city of New York is hereby authorized and required to make an investigation into the origin of every fire occurring in said city; and for that purpose he is hereby invested with the same powers and jurisdiction as are now possessed by the Police Justices of said city. (1852, ch. 332, as modified 1857, ch. 569, sec. 36, which latter modifies only as to the official designation of the Superintendent of Police.)

§ 7. Said fire marshal is hereby charged (under the direction of the said Board of Police) with carrying out all the provisions of this act, except as otherwise provided. And said Board may incur any expense necessary and proper therefor.

§ 8. All acts and parts of acts inconsistent with this act are hereby repealed.

§ 9. This act shall take effect immediately.

#### CHAPTER 625, LAWS 1871.

AN ACT to amend and reduce to one act the several acts relating to buildings in the City of New York, passed May fourth, eighteen hundred and sixty-six, May seventeenth, eighteen hundred and sixty-seven, and May sixth, eighteen hundred and sixty-eight.

Passed April 20, 1871; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

#### Building Limits.

Section 1. All that portion of the state of New York lying within the corporate limits of the city of New York shall constitute the building limits designated under this act, in which no wall, structure, building, part or parts thereof, shall hereafter be built, constructed, altered, or repaired, except in conformity to the provisions of this act.

#### Walls to be Plumb and Straight.

§ 2. All buildings hereafter erected within said building limits, other than frame or wooden buildings, shall have all walls, whether the same be outside or party walls, constructed of stone, brick, or iron, properly bonded and solidly put together, and all such walls shall be built to a line, and be carried up plumb and straight, with close joints; and the several component parts of such buildings shall be built and constructed in such manner as herein provided.

#### Foundations and Excavations.

§ 3. All foundation walls shall be laid not less than four feet below the surface of the earth, on a good solid bottom, and in case the nature of the earth should require it, a bottom of driven piles, or laid timbers, of sufficient size and thickness, shall be laid to prevent the walls from settling, the top of such pile or timber bottom to be driven or laid below the water line; and all piers, columns, posts, or pillars resting on the earth, shall be set upon a bottom in the same manner as the foundation walls. Whenever in any case the foundation wall or walls of any building that may hereafter be erected, shall be placed on a rock bottom, the said rock shall be graded off level to receive the same. All excavations upon the front or side of any lot adjoining a street shall be properly guarded and protected by the person or persons having charge of the same, so as to prevent the same being or becoming dangerous to life or limb; whenever there shall be any excavation, either of earth or rock, hereafter commenced upon any lot or piece of land, in the city of New York, and there shall be any party or other wall wholly or partly on adjoining land and standing upon or near the boundary line of said lot, if the person or persons whose duty it shall be, under existing laws, to preserve and protect said wall from injury shall neglect or fail so to do, after having had a notice of twenty-four hours from the department of buildings so to do, the superintendent of buildings may enter upon the premises, and employ such labor and take such steps as in his judgment may be necessary to make the same safe and secure, or to prevent the same from becoming unsafe or dangerous, at the expense of the person or persons owning said wall or building of which it may be a part, and any person or persons doing the said work, or any part thereof, under and by direction of the said superintendent, may bring and maintain an action against the owner or owners, or any one of them, of the said wall or building of which it may be a part, for any work done or materials furnished in and about the said premises, in the same manner as if he had been employed to do the said work by the said owner or owners of the said premises.

§ 4. The footing, or base course, under all foundation walls, and under all piers, columns, posts, or pillars resting on the earth, shall be of stone or concrete; and if under a foundation wall, shall be at least twelve inches wider than the bottom width of the said wall; and if under piers, columns, posts, or pillars shall be at least twelve inches wider on all sides than the bottom width of the said piers, columns, posts, or pillars, and not less than eighteen inches in thickness; and if built of stone, the stones thereof shall not be less than two by three feet, and at least eight inches in thickness; and all base stones shall be well bedded and laid edge to edge; and if the walls be built of isolated piers, then there must be inverted arches, at least twelve inches thick, turned under and between the piers, or two footing courses of large stone, at least ten inches thick in each course. All foundation walls shall be built of stone or brick, and shall be laid in cement mortar, and, if constructed of stone, shall be at least eight inches thicker than the wall next above them to a depth of sixteen feet below the curb level, and shall be increased four inches in thickness for every additional five feet in depth below the said sixteen feet; and if built of brick, shall be at least four inches thicker than the wall next above them to a depth of sixteen feet below the curb level, and shall be increased four inches in thickness for every additional five feet in depth below the said sixteen feet.

#### Thickness of Walls in Dwelling-houses.

§ 5 (as amended by section 1 of chapter 547, Laws of 1874). In all dwelling-houses that may hereafter be erected not more than fifty-five feet in height, the walls shall not be less than twelve inches thick, and if above fifty-five feet in height, and not more than eighty feet in height, the outside walls shall not be less than sixteen inches thick to the top of second story floor beams; provided the same is twenty feet above the curb level, and if not, then to under side of the third story beams, and also provided that portion of the wall that is twelve inches thick shall not exceed forty feet above the said sixteen inch wall; and in every dwelling-house hereafter erected more than eighty feet in height, four inches shall be added to the thickness of the wall for every fifteen feet or part thereof that is added to the height of the building. All party walls in dwellings over fifty-five feet in height shall not be less than sixteen inches in thickness.

#### Thickness of Walls in other Structures.

§ 6 (as amended by section 2 of chapter 547, Laws of 1874). In all buildings other than dwellings hereafter erected, the bearing walls shall not be less than twelve inches thick to the height of forty feet above the curb level; if above forty feet in height and not more than fifty-five feet in height, the bearing walls shall not be less than sixteen inches thick; if above fifty-five feet and not more than seventy feet in height, the bearing walls shall not be less than twenty inches thick, to the height of twenty feet above the curb level or to the next tier of floor beams above, and not less than sixteen inches from thence to the height of fifty-five feet above the curb level or the next tier of floor beams, and not less than twelve inches thick from thence to the top; and if above seventy feet and not more than eighty-five feet in height, the bearing walls shall not be less than twenty-four inches thick to the height of twelve feet above the curb level or the second story floor beams, and from thence to the height of sixty feet above the curb level, the said walls shall not be less than twenty inches thick, and from thence to the top not less than sixteen inches thick; and if above the height of eighty-five feet, the bearing walls shall be increased four inches in thickness for every fifteen feet, or part thereof, that shall be added to the height of said wall above the eighty-five feet. In all buildings over twenty-five feet in width, and not having either brick partition walls or girders supported by columns running from front to rear, the wall shall be increased an additional four inches in thickness, to the same relative thickness in height as required under this section for every additional ten feet in width of said building, or any portion thereof. It is understood that the amount of materials specified may be used either in piers or buttresses, provided the outside walls between the same shall in no case be less than twelve inches in thickness to the height of forty feet, and if over that height, then sixteen inches thick; but in no case shall a party wall between the piers or buttresses of a building be less than sixteen inches in thickness. In all buildings hereafter erected, situated on the street corner, the bearing wall thereof (that is, the wall on the street upon which the beams rest), shall be four inches thicker in all cases than is otherwise provided for by this act. All walls other than bearing walls may be four inches less in thickness than required in the clauses and provisions of this section above set forth, provided no wall is less than twelve inches in thickness.

#### Partition Walls and Girders.

§ 7 (as amended by section 3 of chapter 547, Laws of 1874). Every building hereafter erected more than thirty feet in width except churches, theatres, school-houses, car stables, and other public buildings shall have one or more stone or brick partition walls running from front to rear, or iron or wooden girders supported on iron or wooden columns; these walls shall be so located that the space between any two of the bearing walls shall not be over twenty-five feet. In case iron or wooden girders supported on iron or wooden columns are substituted in place of the partition walls, the building may be seventy-five feet in width but not more; and if there should be substituted iron or wooden girders supported on iron or wooden columns, in place of partition walls, they shall be made of sufficient strength to bear safely the weight of two hundred and fifty pounds for every square foot of the floor or floors that rest upon them, exclusive of the weight of material employed in their construction, and shall have a footing course and foundation wall not less than sixteen inches in thickness with inverted arches under and between the columns, or two footing courses of large, well-shaped stone, laid crosswise, edge to edge, and at least ten inches thick in each course, the lower footing course to be not less than two feet greater in area than the size of the column; and under every column, as above set forth, a cap of cut granite at least twelve inches thick and of a diameter twelve inches greater each way than that of the column, and must be laid solid and level to receive the column.

#### Isolated Buildings.

Any building that may hereafter be erected in an isolated position, and more than one hundred feet in depth, and which shall not be provided with crosswalls, shall be securely braced, both inside and out, during the whole time of its erection if it can be done; but in case the same cannot be so braced from the outside, then it shall be properly braced from the inside, and the braces shall be continued from the foundation upward to at least one-third the height of the building from the curb level.

#### Alterations and Temporary Supports of Walls.

§ 8. No wall of any building now erected, or hereafter to be built or erected, shall be cut off or altered below, without permission so to do having been first obtained from the superintendent of buildings. Every temporary support placed under any structure, wall, girder or beam during the erection, finishing, alteration, or repairing of any building, or part thereof, shall be equal in strength to the permanent support required for such structure, wall, girder or beam. And the walls of every building shall be strongly braced from the beams of each story until the building is topped out, and the roof tier of beams shall be strongly braced to the beams of the story below until all the floors in the said building are laid.

#### Headers and Heading Courses, and Stone Ashlars.

§ 9. All stone walls less than twenty-four inches thick shall have at least one header, extending through the walls in every three feet in height from the bottom of the wall and in every four feet in length; and if over twenty-four inches in thickness, shall have one header for every six superficial feet on both sides of the wall, and running into the wall at least two feet; all headers shall be at least eighteen inches in width and eight inches in thickness, and shall consist of a good flat stone, dressed on all sides. In every brick wall every sixth course of brick shall be a heading course, except where walls are faced with brick, in which case every fifth course shall be bonded into the backing by cutting the course of the faced brick and putting in diagonal headers behind the same, or by splitting face brick in half and backing the same by a continuous row of headers. In all walls which are faced with thin ashlar, anchored to the backing, or in which the ashlar has not either alternate headers and stretchers in each course, or alternate heading and stretching courses, the backing of brick shall not be less than twelve inches thick, and all twelve-inch backing shall be laid up in cement mortar, and shall not be built to a greater height than prescribed for twelve-inch walls. All heading courses shall be good, hard, perfect brick. The backing in all walls, of whatever materials it may be composed, shall be of such thickness as to make the walls, independent of the facing, conform as to thickness with the requirements of sections five and six of this act.

#### Isolated Piers, Walls, and Piers under Girders and Columns, Bond, Cap and Base Stones.

§ 10. Every isolated pier less than ten superficial feet at the base, and all piers supporting a wall built of rubble stone or brick, or under any iron beam or arch girder, or arch on which a wall rests, or lintel supporting a wall, shall at intervals of not less than thirty inches in height, have built into it a bond stone not less than four inches thick, of a diameter each way equal to the diameter of the pier, except that in piers on the street front, above the curb, the bond stone may be four inches less than the pier in diameter; and all piers shall be built of good, hard, well-burnt brick and laid in cement mortar, and all bricks used in piers shall be of the hardest quality, and be well wet when laid; and the walls and piers under all compound, cast-iron, or wooden girders, iron or other columns, shall have a bond stone at least four inches in thickness, and if in a wall at least two feet in length, running through the wall, and if in a pier, the full size of the thickness thereof, every thirty inches in height from the bottom, whether said pier is in the wall or not, and shall have a cap stone of cut granite, at least twelve inches in thickness, by the whole size of the pier, if in a pier, and if in a wall, it shall be at least two feet in length, by the thickness of the wall, and at least twelve inches in thickness. In any case where any iron or other column rests on any wall or pier built entirely of stone or brick, the said column shall be set on a base stone of cut granite, not less than eight inches in thickness by the full size of the bearing of the pier if on a pier, and if on a wall the full thickness of the wall.

#### Hollow Walls.

In all buildings where the walls are built hollow, the same amount of stone or brick shall be used in their construction as if they were solid, as above set forth; and no hollow walls shall be built unless the two walls forming the same shall be connected by continuous vertical ties of the same materials as the walls, and not over twenty-four inches apart.

#### Computation of Height of Walls and Quality of Brick.

The height of all walls shall be computed from the curb level. No swelled or refuse brick shall be allowed in any wall or pier; and all brick used in the construction, alteration or repair of any building, or part thereof, shall be good, hard, well-burnt brick; and if used during the months from April to November, inclusive, shall be well wet at the time they are laid.

#### Mortar.

§ 11. The mortar used in the construction, alteration or repair of any building shall be composed of lime or cement, mixed with sand, in the proportion of three of sand to one of lime, and two of sand to one of cement, and no lime and sand mortar shall be used within twenty-four hours after being mixed; and all walls or parts thereof, below the curb level, shall be laid in cement mortar, to be composed of cement and mortar, in the proportion of one of cement to two of mortar. No inferior lime or cement shall be used; and all sand shall be clean, sharp grit, free from loam; and all joints and all walls shall be well filled with mortar.

#### Manner of Building Walls, and Anchors.

§ 12. In no case shall the side, end or party wall of any building be carried up more than two stories in advance of the front and rear walls. The front, rear, side, end and party walls of any building hereafter to be erected shall be anchored to each other every six feet in their height by tie anchors, made of one and a quarter inch by three-eighths of an inch wrought iron. The said anchors shall be built into the side or party walls not less than sixteen inches, and into the front and rear walls at least one-half the thickness of the front and rear walls, so as to secure the front and rear walls to the side, end or party walls; and all stone used for the facing of any building, except where built with alternate headers and stretchers, as hereinbefore set forth, shall be strongly anchored with iron anchors in each stone, and all such anchors shall be let into the stone at least one inch. The side, end or party walls shall be anchored at each tier of beams, at intervals of not more than eight feet apart, with good, strong, wrought-iron anchors, one-half inch by one inch, well built into the side walls and well fastened to the side of the beams by two nails made of wrought iron, at least one-fourth of an inch in diameter; and where the beams are supported by girders, the ends of the beams resting on the girder shall be butted together end to end, and strapped by wrought-iron straps of the same size and at the same distance apart, and in the same beam as the wall anchors, and shall be well fastened.

#### Extension of Walls above Roofs, and Mansard Roofs.

§ 13 (as amended by section 4 of chapter 547, Laws of 1874). All walls of any buildings over fifteen feet high shall be built up and extended at least twenty-four inches above the roof and shall be coped with stone or iron. If a mansard roof shall be placed upon any building, except a wooden building, over three stories in height exclusive of the said roof the same shall be constructed fire-proof.

#### Bearings for Iron Beams or Girders.

§ 14. All iron beams or girders used to span openings over six feet in width, and not more than twelve feet in width, upon which a wall rests, shall have a bearing of at least twelve inches at each end by the thickness of the wall to be supported, and for every additional foot of span over and above the said twelve feet, if the supports are iron or solid cut stone, the bearing shall be increased half an inch at each end; but if supported on the ends by walls or piers built of brick or stone, if the opening is over twelve feet and not more than eighteen feet, the bearing shall be increased four inches at each end, by the thickness of the wall to be supported; and if the space is over eighteen feet and not more than twenty-five feet, then the bearing shall be at least twenty inches at each end by the thickness of the wall to be supported; and for every additional five feet or part thereof that the space shall be increased, the bearing shall be increased an additional four inches at each end by the thickness of the wall to be supported. And on the front of any building where the supports are of iron or solid cut stone, they shall be at least sixteen inches on the face and the width of the thickness of the wall to be supported, and shall, when supported at the ends by brick walls or piers, rest upon a cut granite base block, at least twelve inches thick, by the full size of the bearing; and in case the opening is less than twelve feet, the granite block may be six inches in thickness, by the whole size of the bearing;

#### Construction of Iron Beams and Girders.

and all iron beams or girders used in any buildings shall be, throughout, of a thickness not less than the thickness of the wall to be supported. All iron beams or girders used to span openings more than eight feet in width, and upon which a wall rests, shall have wrought-iron tie-rods of sufficient strength, well fastened at each end of the beam or girder, and shall have cast-iron shoes on the upper side, to answer for the skew-back of a brick or cut-stone arch, which said arch shall always be turned over the same, and the arch shall in no case be less than twelve inches in height, by the width of the wall to be supported, and the shoes shall be made strong enough to resist the pressure of the arch in all cases.

#### Cut-stone or Brick Arches.

Cut-stone or hard-brick arches, with two wrought-iron tie-rods of sufficient strength, may be turned over any opening less than thirty feet, provided they have skew-backs of cut stone or cast or wrought iron, with which the bars or tension-rods shall be properly secured by heavy wrought-iron washers, necks, and heads of wrought iron, properly secured to the skew-backs. The above clause is intended to meet cases where the arch has not abutments of sufficient size to resist its thrust.

#### Iron Lintels.

All lintels hereafter placed over openings in the front, rear, or side of a building, or returned over a corner opening, when supported by brick piers or iron or stone columns, shall be of iron, and of the full breadth of the wall to be supported, and shall have a brick arch of sufficient

thickness, with skew-backs and tie rods of sufficient strength to support the superincumbent lateral weight, independent of the cast-iron lintel.

#### Iron Columns.

In all buildings hereafter to be erected or altered, where any iron column or columns are used to support a wall or part thereof, whether the same be an exterior or interior wall, except a wall fronting on a street, the said column or columns shall be constructed as follows: There shall be a double column, that is, an outer and inner column, and the inner column shall be of sufficient strength to sustain safely the weight to be imposed upon both the outer and inner column; and the outer column shall be made of sufficient size to allow a space of at least one inch between it and the inner column, which space shall be solidly filled with plaster of Paris, or some other non-conducting material;

#### Bearing Weight of Iron Columns, Beams, Girders, and Lintels, et cetera.

and all iron beams, girders, lintels or columns, before the same are used in any building, shall have the maximum weight which they will safely sustain stamped, cast, or properly marked in a conspicuous place thereon by the founder or manufacturer of the same, and shall be made of the best materials and in the best manner.

#### Arches and Lintels over Door and Window Openings and Fire-places.

§ 15. All openings for doors and windows in all buildings, except as otherwise provided, shall have a good and sufficient arch of stone or brick, well built and keyed, and with good and sufficient abutments, or a lintel of stone or iron, as follows: For an opening of not more than four feet in width, the lintel shall not be less than eight inches in height; and for an opening not more than six feet in width, the lintel shall not be less than twelve inches in height; and for an opening exceeding six feet in width, and not more than eight feet in width, the lintel shall be of iron or stone, and of the full thickness of the wall to be supported; and every such opening six feet or less in width in all walls shall be at least one-third the thickness of the walls on which it rests, and shall have a bearing at each end not less than four inches on the walls; and on the inside of all openings in which the lintel shall be less than the thickness of the wall to be supported, there shall be a good timber lintel on the inside of the other lintels, which shall rest at each end not more than four inches on any wall, and shall be chamfered at each end, and shall have a double rock arch turned over said timber lintel; arches built of stone or brick may be turned over openings on a centre, which may be struck after the arch is turned, provided the arch has a good and sufficient rise, and that the piers or abutments are of sufficient strength to bear the thrust of the arch; and all arches over openings or fire-places shall be built of good, hard brick, laid close joints, and well keyed.

#### Fire-proof Metal Doors, Blinds, and Shutters.

§ 16 (as amended by section 5 of chapter 547, Laws of 1874). All the stores or storehouses, or other buildings which are more than two stories or above twenty-five feet in height above the curb level, already erected, or that may hereafter be built in said city, except dwelling-houses or churches, shall have doors, blinds or shutters made of fire-proof metal, on every window and opening above the first story. When in any such building the shutters, blinds or doors cannot be put on the outside of such door or window, they shall be put on the inside, and if placed on the inside shall be hung upon an iron frame independent of the woodwork of the window frame or door; and every such door, blind or shutter shall be closed upon the completion of the business of each day by the occupant having the use or control of the same; and all fire-proof shutters or blinds that now are or may hereafter be put upon the front or sides of any building on the street fronts, must be so constructed that they can be closed and opened from the outside above the first story.

#### Hoistways, Elevators, and Well-holes.

In any store or building in the city of New York in which there shall exist or be placed any hoistway, elevator or well-hole, the openings thereof through and upon each floor of said building shall be provided with and protected by a substantial railing and such good and sufficient trap-doors with which to close the same as may be directed and approved by the superintendent of buildings; and such trap-door shall be kept closed at all times except when in actual use by the occupant or occupants of the building having the use or control of the same; and all openings in any such buildings above the first story which may open upon a street, and all openings in buildings used or occupied for school-houses or offices exclusively may be exempted from the provisions and requirements of this section in the manner as hereinafter provided.

#### Chimneys and Flues.

§ 17 (as amended by section 6 of chapter 547, Laws of 1874). All chimneys and all flues in stone or brick walls in any building hereafter erected, altered or repaired, without reference to the purpose for which they may be used, shall have the joints struck smooth on the inside, and no paring mortar shall be used on the inside; and the fire-backs of all chimneys hereafter erected shall not be less than eight inches in thickness.

#### Metal Flues, Pipes, and Register Boxes.

And no tin or other metal flue or flues, pipe or pipes, or register box or boxes, of a single thickness of metal, used or intended to be used to convey heated air in any building hereafter built, altered or repaired in any part of said city, shall be allowed unless the same shall be built in a wall of brick or stone; in all other cases the said flue or flues, pipe or pipes, register box or boxes, shall be made double, that is two pipes, one inside the other, at least one-half inch apart and the space between the pipes shall be filled with plaster of Paris; and no wooden furring or lath shall be placed against any flue, metal pipe or pipes used to convey heated air or steam in any building;

#### Plaster between Lathing and Wall.

and when any wall shall hereafter be furred or lathed with wood, the space between the lathing and wall shall be filled with plaster between the top and underside of the floor-beams of each story, so as to prevent fire from extending from one floor to another.

#### Air and Smoke Flues, and Steam Pipes.

And no air flue shall be used at any time as a smoke flue. No steam-pipe shall be placed within two inches of any timber or woodwork as aforesaid; when the said space of two inches around the steam-pipe is objectionable, it shall be protected by a soapstone or an earthen ring or tube.

#### Protection of Woodwork at Flues.

No base, or flooring or roofing, or any other woodwork shall be placed against any brick or other flue until the same shall be well plastered with plaster of paris behind such woodwork.

#### Flues, Chimneys, Hearths, et cetera.

All flues in any building shall be properly cleaned and all rubbish removed, and the flues left smooth on the inside upon the completion of all such buildings as aforesaid. No chimney shall be started or built upon any floor or beam, and in no case shall the breast of a chimney project more than eight inches from the wall. All chimneys which are corbeled out from the walls as above described, shall be supported by five courses of brick; but if supported by piers, the said piers shall start from the foundation on the same line with the chimney breast, and shall not be less than sixteen inches on the face. All hearths shall be supported by arches of stone or brick, and no chimney in buildings already erected or hereafter to be built, shall be cut off below in whole or in part and supported by wood, but shall be wholly supported by stone, brick or iron, and all chimneys in any building or buildings as aforesaid, already erected or hereafter to be erected or built, or any other chimney or chimneys in any part of said city which shall be dangerous in any manner whatsoever, shall be repaired and made safe or taken down. And the flues of all furnaces and boilers shall be constructed in such manner as the superintendent of buildings shall direct.

#### Smoke-pipes.

§ 18. No smoke-pipe in any building with wooden or combustible floors and ceilings shall hereafter enter any flue, unless the said pipe shall be at least eighteen inches from either the floors or ceilings; and in all cases where smoke-pipes pass through stud or wooden partitions of any kind, whether the same be plastered or not, they shall be guarded by either a double collar of metal, with at least four inches air space and holes for ventilation, or by a soapstone ring, not less than three inches in thickness and extending through the partition, or by a solid coating of plaster of paris, three inches thick, or by an earthenware ring, three inches from the pipe. In all cases where hot water, steam, hot-air or other furnaces are used, the furnace smoke-pipe must be kept at least two feet below the beams or ceilings above the same, unless said beams or ceilings shall be properly protected by a shield or tin plate suspended above said smoke-pipe, with sufficient space for the free circulation of air above and below said shield; and the smoke-pipe shall, in all cases, be kept at least eight inches from the beams or ceilings, as aforesaid.

#### Furnaces and Registers.

and the top of all furnaces set in brick must be covered with brick, slate, or tin plate, supported by iron bars, and so constructed as to be perfectly tight; said covering to be in addition to and not less than six inches from the ordinary covering to the hot-air chamber. If, however, there is not height enough to build the furnace top at least four inches below the floor beams or ceilings, then the floor beams must be trimmed around the furnace, and said covering and the trimmers and headers must be at least four inches from the same. The top of every portable furnace not set in brick shall be kept at least one foot below the beams or ceilings with a shield of tin plate, made tight, and suspended below the said beams or ceiling, and extended one foot beyond the top of the furnace on all sides. All hot-air registers hereafter placed in the floor of any building shall be set in soapstone borders not less than two inches in width. All soapstone borders to be firmly set in plaster of paris, or gauged mortar. All floor register-boxes to be made of tin plate, with a flange on the top, to fit the groove in the soapstone, the register to rest upon the same. There shall also be an open space of two inches on all sides of the register-box, extending from the under side of the ceiling, below the register, to

the soapstone in the floor; the outside of said space to be covered with a casing of tin plate, made tight on all sides, to extend from the under side of the aforesaid ceiling up to and turn under the said soapstone. Registers twelve by nineteen inches, or less than fifteen by twenty-five inches, shall have a space of three inches between the register-box and casing; registers of fifteen by twenty-five inches and more shall have a space of three and one-half inches.

#### Gas, Water, Steam, or other Pipes.

All gas, water, steam, or other pipes which may be introduced into any building other than a dwelling-house shall not be let into the beams unless the same be placed within thirty-six inches of the end of the beams; and in no building shall the said pipes be let into the beams more than two inches in depth.

#### Hot-water, Steam, or Hot-air Furnaces.

In all cases where hot-water, steam, hot-air, or other furnaces are hereafter placed in any building, due notice shall first be given to the department of buildings by the owner or owners of the said building, or by the person or persons placing said furnace or furnaces in said building, or by the contractor or superintendent of said work.

#### Wooden Girders, Beams, Timbers, Trimmers, et cetera.

§ 19. In no building, whether the same be a frame building or otherwise, shall any wooden girders, beams, or timbers be placed within twelve inches of the inside of any flue, whether the same be a smoke, air, or any other flue. All wooden beams and other timbers in the party wall of every building hereafter to be erected or built of stone, brick, or iron, shall be separated from the beam or timber entering in the opposite side of the wall by at least eight inches of solid mason work. No floor beam shall be supported wholly upon any wood partition, but every beam, except headers and tail beams, shall rest, at one end, not less than four inches in the wall, or upon a girder, as authorized by this act. And every trimmer or header more than four feet long used in any building, except a dwelling, shall be hung in stirrup-irons of suitable thickness for the size of the timbers. No timber shall be used in any wall of any building where stone, brick, or iron is commonly used, except bond timbers and lintels, as hereinbefore provided for, or as may be approved of by said department; and no bond timber in any wall shall in width and thickness exceed that of a course of brick. No bond timber shall be more than three feet in length, and such bond timbers shall be laid eighteen inches apart, parallel to each other, and there shall be eight inches of brick or mason work between the ends of the same.

#### Strength of Floors and Quality of Timber.

In every building already erected, or hereafter to be built, the floors shall be of sufficient strength to bear the weight to be imposed upon them exclusive of the weight of the materials used in their construction; and in all store-houses the weight that each floor will safely sustain upon each superficial foot shall be estimated by the owner thereof, and posted in a conspicuous place on each floor thereof; and the weight that may be placed upon either of the floors of the said building or buildings shall be safely distributed thereon. And all timbers or beams used in any building hereafter to be constructed, altered, or repaired, whether the same be a frame building or otherwise, shall be of good, sound material, free from rot, sap, shakes, or rotten knots, and of such size and dimensions as the purposes for which the building is intended requires.

#### Standard of Bearing Strength of Floors, et cetera.

§ 20. In all buildings, every floor shall be of sufficient strength in all its parts to bear safely upon every superficial foot of its surface seventy-five pounds; and if used as a place of public assembly, one hundred and twenty pounds; and if used as a store, factory, warehouse, or for any other manufacturing or commercial purposes, from one hundred and fifty to five hundred pounds and upwards; and every floor shall be of sufficient strength to bear safely the weights aforesaid, in addition to the weight of the materials of which the floor is composed; and every column, post, or other vertical support shall be of sufficient strength to bear safely the weight of the portion of each and every floor depending upon it for support, in addition to the weight required as above to be supported safely upon said portions of said floors. In all calculations for the strength of materials to be used in any building, the proportion between the safe weight and the breaking weight shall be as one to three for all beams, girders, and other pieces subject to a cross-strain, and shall be as one to six for all posts, columns, and other vertical supports, and for all tie-rods, tie-beams, and other pieces subjected to a tensile strain. And the requisite dimensions of each piece of material is to be ascertained by computation by the rules given by Tredgold, Hodgkinson, Barlow, or the treatises of other authors now or hereafter used at the United States military academy at West Point, on the strength of materials, using for constants in the rules only such numbers as have been deduced from experiments on materials of like kind with that proposed to be used.

#### Test of Iron Columns, Beams, Lintels, and Girders.

Before any iron column, beam, lintel, or girder, intended to span an opening over eight feet in length, and intended to support a wall built of stone or brick, or any floor or part thereof, in any building hereafter erected or altered, in the city of New York, shall be used for that purpose, the manufacturer or founder thereof shall have the same tested by actual weight or pressure thereon, under the direction and supervision of an inspector of the department of buildings, authorized by the superintendent thereof (who shall be previously notified of the time when and the place where the said test will be made by the person or persons having the said columns, beams, lintels, or girders so tested), whose duty it shall be to have the weight which each of the said columns, beams, lintels, or girders will safely sustain properly stamped or marked in a conspicuous place thereon by the said manufacturer or founder thereof, and no greater weight shall be put or placed upon any said column, beam, lintel, or girder than the same shall be so marked as being capable of sustaining; and in case any said column, beam, girder, or lintel shall be rejected by said inspector as unfit to be used, the same shall not be used in, upon, or about any building or part thereof. All iron work used in any building or part thereof hereafter to be erected or altered shall be of the best material and made in the best manner.

#### Construction of Fire-proof Buildings.

§ 21. In all fire-proof buildings hereafter to be constructed, where brick walls, with wrought-iron beams or cast or wrought iron columns with wrought-iron beams, are used in the interior, the following rules must be observed:

1. All metal columns shall be planed true and smooth at both ends and shall rest on cast-iron bed-plates, and have cast-iron caps, which shall also be planed true. If brick arches are used between the beams the arches shall have a rise of at least an inch and a quarter to each foot of space between the beams.
2. Under the ends of all the iron beams, where they rest on the walls, a stone template must be built into the walls; said templates to be eight inches wide in twelve-inch walls, and in all walls of greater thickness to be in width not less than four inches less than the width of said wall, and not to be, in any case, less than four inches in thickness and eighteen inches long.
3. All arches shall be at least four inches thick. Arches over four feet span shall be increased in thickness toward the haunches by additions of four inches in thickness of brick; the first additional thickness shall commence at two and a half feet from the centre of the span; the second addition at six and a half feet from the centre of the span, and the thickness shall be increased thence four inches for every additional four feet of span towards the haunches.
4. The said brick arches shall be laid to a line on the centres, with a close joint, and the bricks shall be well wet and the joints filled with cement mortar, in proportions of not more than two of sand to one of cement, by measure. The arches shall be well grouted and pinned or chinked with slate and keyed.

#### Cornices, Gutters, and Leaders.

§ 22. All exterior cornices and gutters of all buildings hereafter to be erected or built, shall be of some fire-proof material, and in every case the greatest weight of stone, iron, or others materials of which the cornice shall be constructed, shall be on the inside of the outer line of the wall on which the cornice shall rest, in the proportion of three of wall to two of cornice in weight, allowance being made for the excess of leverage produced by the projection of the cornice beyond the face of the wall; and all fire-proof cornices shall be well secured to the walls with iron anchors, independent of any wood-work; and in all cases the walls shall be carried up to the planking of the roof, and where the cornice projects above the roof, the wall shall be carried up to the top of cornices, and the party wall shall in all cases extend up above the planking of the cornice and be coped with some fire proof material; and all exterior wooden cornices that may now be, or that may hereafter become unsafe or rotten, shall be taken down, and if replaced, shall be constructed of some fire-proof material; and all exterior wooden cornices or gutters that may hereafter be damaged by fire to the extent of one-third thereof, shall be taken down, and if replaced, shall be constructed of some fire-proof material, but if not damaged to the extent of one-third thereof, the same may be repaired with the same material of which it was originally constructed. All buildings shall be kept provided with proper metallic leaders for conducting the water from the roof to the ground, sewer, or street-gutter, in such manner as shall protect the walls and foundations from damage, and in no case shall the water from the said leaders be allowed to flow upon the sidewalk, but shall be conducted by drain pipe or pipes to the street-gutter or sewer.

#### Roof Planking, Sheathing, and Covering.

§ 23. The planking and sheathing of the roof of every building erected or built as aforesaid, shall in no case be extended across the front, rear, side, end, or party wall thereof, and every such building, and the tops and sides of every dormer window thereon, shall be covered and roofed with slate, tin, zinc, copper, or iron, or such other equally fire-proof roofing as the superintendent of buildings, under his certificate, may authorize, and the outside of the frame of every dormer window hereafter placed upon any building as aforesaid, shall be made of some fire-proof material. And no wooden building hereafter erected or built or already erected

in any part of the said city, more than two stories or above twenty feet in height above the curb-level to the highest part thereof, which shall require roofing, shall be roofed with any other roofing or covering except as aforesaid. Nothing in this section shall be construed to prohibit the repairing of any shingle roof, provided the building is not altered in height.

*Scuttle-frames, Bulkheads and Doors, and Skylights.*

All buildings in the city of New York, whether already erected or hereafter to be built, shall have scuttle-frames and covers, or bulkheads and doors, made of or covered with some fire proof material, and all scuttles shall have stationary iron ladders leading to the same, and all such scuttles or ladders shall be kept so as to be ready for use at all times, and all scuttles shall not be less in size than two by three feet; and if a bulkhead is used or substituted in any building in place of a scuttle, it shall have stairs with a sufficient guard or hand-rail leading to the roof; and in case the building shall be a tenement-house, the door in the bulkhead, or any scuttle, shall at no time be locked, but may be fastened on the inside by movable bolts or hooks. And all skylights more than three feet square placed in any building, the sash and frames thereof shall be constructed of fire-proof materials.

*Wooden Buildings, Sheds, Extensions, Stairways, Stoops, Balconies, Piazzas, Platforms, Bay or Oriel Windows, Signs, and Privies.*

§ 24. No frame or wooden building, shed, extension, stairway, stoop, balcony, piazza, platform, bay or oriel window, sign over two feet in height, or other structure of any kind, in whole or in part wood, shall hereafter be built or constructed in said city, unless the same shall first be authorized by the superintendent of buildings, under his certificate, to be first obtained therefor; provided, however, that any piazza, platform, or balcony that does not exceed ten feet in width, and that does not extend more than three feet above the second story floor of any building to which the same may be attached, or the roof of which does not exceed the same height, may be built of wood, provided the same is open on the side; and such piazza, platform, or balcony may be built higher, or may be inclosed, provided the same shall have end or party walls of stone or brick not less than eight inches thick, which shall be started and built from the foundation and carried up above the roof, and coped with stone or iron; and the roofs of all piazzas shall be covered with some fire-proof material. Any bay or oriel window that does not extend more than three feet above the third story floor of any dwelling-house to which the same shall be attached, may be built of wood; all privies not exceeding ten feet square and ten feet high may be built and covered with wood, boards, or shingles;

*Steamboat and Ferry Houses, and Structures upon or adjoining Piers, Slips, or Bulkheads.*

and all steamboat and ferry houses, or other structures upon or adjoining any pier, slip, or bulkhead in said city shall not be constructed except in such manner and of such materials as said superintendent of buildings shall determine and designate, under his certificate first to be obtained therefor;

*Rotten or Unsafe Signs.*

and, any sign, of whatever material it may be constructed, now erected or that may be hereafter erected, on the top or street front of any building that may now be or that may hereafter become rotten or unsafe, shall be taken down and removed.

*Raising or Altering from Peak to Flat Roof.*

§ 25. It shall not be lawful for the owner or owners of any brick-front or wooden building already erected in said city that has a peak roof to raise the same for the purpose of making a flat roof thereon, unless the same be raised with the same kind of material as the building, and except that such new roof be covered with some one of the articles mentioned in the twenty-third section of this act, and unless all such buildings when so raised shall not exceed forty feet in height to the highest part thereof; and all such brick dwelling-houses that have eight-inch walls, the said wall shall not exceed forty feet in height; and also provided that all such dwelling-houses exceed twenty-five feet in height to the peak before the said alteration.

*Raising or Lowering Buildings to Conform to Grade.*

If any such building shall have been built before the street upon which it is located is graded, or if the grade is altered, all such buildings may be raised or lowered to meet the requirements of such grade.

*Enlargement of Buildings.*

And no brick-front or wooden building whatsoever in said city shall be enlarged or built upon, unless the exterior walls of said addition or enlargement be constructed of fire-proof materials to be approved of by the superintendent of buildings; provided, however, that such brick-front or wooden building only may be raised, lowered, or altered under the circumstances and in the same manner especially provided for in this section;

*Removal of Wooden Buildings.*

and no wooden building shall be removed from one lot to another, until a sworn petition, setting forth the purposes of said removal and the uses to which said building is to be applied, is filed in the office of the department of buildings and the written consent of the superintendent of buildings is first obtained therefor.

*Repairing Wooden or Frame Buildings in case of Damage by Fire or Otherwise.*

§ 26. Every wooden or frame building with a brick or other front, situated in said city, which may hereafter be damaged by fire or otherwise to an amount not greater than one-half the value thereof, at the time of such damage, may be repaired or rebuilt; but if such damage shall amount to more than one-half of such value thereof, exclusive of the value of the foundation, then such building shall not be repaired or rebuilt, but shall be taken down. The amount and extent of such damage by fire or otherwise shall be determined by one surveyor appointed by said superintendent of buildings and one surveyor appointed by the owner or owners of the said premises; and in case these two do not agree, they shall appoint a third party, and a decision of a majority of them, reduced to writing and sworn to, shall be conclusive, and such building shall in no manner be repaired or rebuilt until after such decision shall have been rendered.

*Enlargement, Raising, or Alteration of Buildings.*

§ 27. No building already erected or hereafter to be built in said city shall be enlarged, raised, altered, or built upon in such manner that, were such building wholly built or constructed after the passage of this act, it would be in violation of any of the provisions of this act. And before any building built of stone, brick, or iron, or any wooden building with or without a brick front, in any part of said city shall be enlarged, raised, altered, or built upon, the same shall be first examined by said department to ascertain if the building or buildings, or either of them, are in a good and safe condition to be enlarged, raised, altered, or built upon; and no such buildings, as aforesaid, shall be enlarged, raised, altered, or built upon until after such examination and decision; and the decision of said department, under such examination, shall be final and conclusive in the premises, and shall be made without delay.

*Fire-escapes, Alarms, Doors, Halls, Stairways, Ceilings, Cellars, Flues, Furnaces, Fireplaces, and Heaters.*

§ 28 (as amended by sec. 7, chap. 547, Laws of 1874). Any dwelling-house, now erected, or that may hereafter be erected more than two stories in height, occupied by, or built to be occupied by two or more families, on any floor above the first, and all buildings now erected, or that may be hereafter erected more than four stories in height, occupied by, or built to be occupied by three or more families, above the first story, and any building already erected, or that may hereafter be erected more than three stories in height, occupied or used, or built to be occupied or used as a hotel, boarding or lodging house, or on any factory, mill, offices, manufactory, or workshop, in which operatives are employed, on any of the stories above the first story, and all buildings in an isolated position, already erected, or that may hereafter be erected more than three stories in height, built to contain or that does contain, or is occupied by three or more families, above the first story, shall be provided with such fire escapes, alarms and doors, as shall be directed by the superintendent of buildings; and the said superintendent shall have the power in determining the method of constructing the halls, stairways, ceilings, cellars, flues, furnaces, fire-places and heaters, in all dwellings hereafter erected in said city. And the owner or owners of any building upon which any fire-escapes may now be, or may hereafter be erected, shall keep the same in good repair and well painted, and no person shall at any time place any encumbrance of any kind whatsoever upon any said fire-escapes now erected, or that may hereafter be erected in said city.

*Egress from Hotels, Churches, Theatres, Schools, Public Halls, and other Buildings used for Public Amusement or Instruction, etc.*

§ 29. In all buildings of a public character already erected or hereafter to be built in said city, such as hotels, churches, theatres, school-houses, restaurants, railroad depots, public halls, and other buildings used or intended to be used for purposes of public amusement or instruction, the halls, doors, stairways, seats, and aisles shall be so arranged as to facilitate egress in case of fire or accident, and to afford the requisite and proper accommodation for the public protection in such cases, and all aisles and passageways in said buildings devoted to purposes of amusement or instruction, shall be kept free from camp-stools, chairs, sofas, and other obstructions, during any performance, service, exhibition, lecture, concert, ball, or any public assemblage; and the superintendent of buildings may at any time serve a written or printed notice upon the owner, lessee, or manager of any of said buildings, directing any act or thing to be done in or about the arrangement of the said buildings, and the several appliances therewith connected, such as halls, doors, stairs, windows, seats, aisles, and escapes, so as to afford the greatest possible security to the public in the uses to which they may be severally applied.

*Statement of Specifications and Copy of Plans of New Buildings and Alterations and Repairs to be Submitted.*

§ 30 (as amended by chapter 687, Laws of 1881). Before the erection, construction, alteration, or repair of any building or part of any building in the city of New York is commenced

the owner shall submit to the fire department a detailed statement, in writing, of the specifications, and a full and complete copy of the plans of such proposed building, erection, alteration or repair, which shall be accompanied with a statement, in writing, sworn to before a notary public or commissioner of deeds, giving the full name and residence (street and number) of the owner, or of each of the owners of such building, or proposed building. If such erection, construction, alteration or repair is proposed to be made by any other person than the owner or owners of the land in fee, the person or persons intending to make such erection, alteration or repair shall accompany said detailed statement of the specification and plans with a statement, in writing, sworn to as aforesaid, giving the full name and residence (street and number) of the owner or owners of the land, and also of every person interested in said building, or proposed building, either as owner, lessee, or in any representative capacity. Such sworn statement may be made by the agent of the person or persons hereinbefore required to make the same, when duly authorized so to do by power of attorney from said person or persons, duly executed and acknowledged, and filed with said sworn statement. Said sworn statement, power of attorney, and detailed statement, and copy of the plans and specifications, shall be kept on file in the office of the inspector of buildings in the fire department; and the erection, construction, alteration or repair of said building, or any part thereof, shall not be commenced or proceeded with until said sworn statement shall have been so filed, and said specifications and plans shall have been approved by the inspector of buildings. But the inspector of buildings may, in his discretion, and for reasons to be stated in writing and filed with the plans and specifications, dispense with the making of said sworn statement in any case. Any false swearing in a material point in any statement submitted in pursuance of the provision of this section shall be deemed perjury and shall be punished as such.

*Matters not Specifically Provided for to Conform to the Spirit of the Law.*

§ 31 (as amended by sec. 8, chap. 547, Laws of 1874). The department of buildings named under this act shall have full power in passing upon any question relative to the mode, manner of construction, or materials to be used in the erection, alteration or repair of any building in the city of New York, where the same is not specially provided for herein, to make the same conform to the true intent, meaning and spirit of the several provisions hereof;

*Applications to Modify or Vary any of the Provisions of this Act.*

and shall also have discretionary power, upon application therefor, to modify or vary any of the several provisions of this act to meet the requirements of special cases where the same do not conflict with the public safety and the public good, so that substantial justice may be done; but no such deviation shall be permitted except a record of the same shall be kept by said department and a certificate be first issued to the party applying for the same; such certificate shall be issued only upon an application setting forth the facts, sworn to by the applicant, and after said application shall have been passed upon favorably by a board of examiners consisting of the superintendent of buildings, a member of the examining committee of New York chapter of the American institute of architects, one of the ex-presidents of the New York board of underwriters, and two members of the mechanics' and traders' exchange of said city—one of the latter of whom shall be a master carpenter and one a master mason, all of whom, except the said superintendent, shall be selected by their respective organizations, and so certified by the proper officers to the said superintendent; no application shall be considered as passed by said board unless the same receive three affirmative votes; no member of said board shall pass upon any question in which he is pecuniarily interested. The said board shall meet upon notice from the said superintendent who shall be chairman of the board and the chief clerk of said department shall act as clerk of said board, and shall keep a record of its proceedings which shall be filed in the office of said department. The members of said board, excepting said superintendent, shall each be entitled to and shall receive ten dollars for each attendance at a meeting of said board to be paid by the comptroller of the city of New York from the contingent fund of said department upon the voucher of said superintendent, but in no case shall they be entitled to receive compensation for more than two meetings in any one month.

*Structures on Wharves, Piers, and Bulkheads.*

And provided further that no permit for the erection of any structure on any wharf, pier or bulkhead shall be issued by the superintendent of buildings except by and with the approval of the said board of examiners.

*Violations and Penalties.*

§ 32. The owner or owners of any structure, staging, building, or part thereof, of any kind whatsoever, upon which any violation of this act may be placed or shall exist, whether he or they be the owner or owners of the land in fee or not, or be the lessee or lessees thereof, or has or have a qualified or contingent interest therein by virtue of some agreement or contract in writing, or in any other manner, and any master architect or architects, builders, carpenters, or masons who may be employed or assist therein, and any and all persons who shall violate any of the provisions of this act, or fail to comply therewith or any requirement thereof, or shall in any manner be liable therefor, shall severally, for each and every such violation and non-compliance, respectively forfeit and pay a penalty in the sum of fifty dollars; and any and all persons who shall violate any of the provisions of this act, or who may be employed or assist therein, or who shall be liable therefor, shall severally, for every such violation not removed or requirement not complied with, within ten days after notice thereof shall be given to him or them respectively, forfeit and pay an additional penalty in the sum of fifty dollars, for the recovery of which said penalties, or either of them, an action may be brought in any court of competent jurisdiction; and whenever any judgment shall be rendered therefor, the same shall be collected and enforced as prescribed and directed by the code of procedure of the state of New York; provided, however, in all cases of violation that shall be in existence at the time this act takes effect, that no penalty shall attach until after a notice of ten days shall have been given requiring the removal of such violation or violations; and the superintendent of buildings is hereby authorized, in his discretion, good and sufficient cause being shown therefor, to remit any fine or fines, penalty or penalties, which any person or persons may have incurred, or may hereafter incur, under any of the provisions of this act.

*Jurisdiction of Courts over Proceedings for Recovery of Penalties, and Enforcement of this Act.*

§ 33. All courts of civil jurisdiction in the city of New York shall have cognizance of and jurisdiction over all suits and proceedings by this act authorized to be brought for the recovery of any penalty and the enforcement of any of the several provisions of this act, and shall give preference to such suits and proceedings over all others; and any court of record in said city, or any judge or justice thereof, shall have power at any time after the service of notice of the violation of any of the provisions of this act, and upon the affidavit of the superintendent of buildings, to restrain by injunction order the further progress of any violation named in this act, or of any work upon or about the building or premises upon which the said violation exists; and no undertaking shall be required as a condition to the granting or issuing of such injunction; or by reason thereof.

*Judgments and Liens.*

And all courts in which any suit, suits, or proceedings are instituted shall, upon the rendition of a verdict, report of a referee, or decision of a judge or justice for any penalty or penalties, render judgment for the amount of such penalty or penalties and costs; and the said judgment so rendered shall be and become a lien upon the premises named in the complaint in any such action, to date from the time of the filing in the county clerk's office in the city of New York of a notice of lis pendens therein; which lien may be enforced against said property in every respect, notwithstanding the same may be transferred subsequent to the filing of the said notice.

*Department not Liable for Costs.*

In no case shall the said department of buildings or the corporation of the city of New York be liable for costs in any action, suit, or proceedings that may have already been or may hereafter be instituted or commenced by the said department of buildings.

*Service of Notices of Violations, or Requirements, or Orders of a Court.*

§ 34 (as amended by chapter 687, Laws of 1881). All notices of the violation of any of the provisions of this act, and all notices directing anything to be done required by this act, and all other notices that may be required or authorized to be issued thereunder, including notice that any building, structure, premises, or any part thereof, are deemed unsafe or dangerous, shall be issued in the name of the fire department of the city of New York, and shall have the name of the inspector of buildings affixed thereto, and may be served by any officer or employee of the said department, or by any person authorized by the said department; all such notices and any notice or order issued by any court in any proceeding instituted by the attorney to said department, to restrain or remove any violation, or to enforce compliance with any provision or requirement of this act, may be served by leaving a copy of the same with any person or persons violating, or who may be liable under any of the several provisions of this act, or to whom the same may be addressed, and if such person or persons cannot be found after diligent search shall have been made for him or them, then such notice or order may be served by posting the same in a conspicuous place upon the premises where such violation is alleged to have been placed or to exist, or to which such notice or order may refer, or which may be deemed unsafe or dangerous, which shall be equivalent to a personal service of said notice upon all parties having any interest in said premises, or to whom such notice or order may be addressed, or who may be liable for any violation under any of the provisions of this act; and such notice or order shall contain a description of the building, premises, or property upon which such violation shall have been put or may exist, or which may be deemed unsafe or dangerous, or to which such notice or order may refer.

*Penalty for Failure to Comply with Notice of Violation.*

§ 35. Any and all persons who, after having been personally served with the notice of violation as hereinbefore prescribed, shall fail to comply therewith, and shall continue to violate any of the several provisions of this act, or who shall be accessory thereto, shall, in addition to the other

penalty or penalties in this act provided, be deemed guilty of a misdemeanor, and upon complaint being made by the superintendent of buildings, before any police justice or any court of criminal jurisdiction within the city of New York, shall be arrested and held to bail by said justice or said court, and, upon conviction of such offense, shall be fined in a sum not exceeding two hundred and fifty dollars, or may be imprisoned for a term not to exceed six months; said fine or imprisonment to be imposed in the discretion of the judge, justice, or court by whom said person so arrested and held to bail shall be tried; and said criminal courts, and the judges thereof, respectively, are hereby authorized to act and do as aforesaid.

#### *Proceedings in case of Unsafe or Dangerous Structures.*

§ 36. Any building or buildings, part or parts of a building, staging or other structure in the city of New York, that, from any cause, may now be, or shall at any time hereafter become, dangerous or unsafe, may be taken down and removed, or made safe and secure in the manner following: Immediately upon such unsafe or dangerous building or buildings, or part or parts of a building, staging or structure, being so reported by any of the officers of said department, the same shall be immediately entered upon a docket of unsafe buildings, to be kept by said superintendent, and the owner or some one of the owners, executors, administrators, agents, lessees, or any other person or persons who may have a vested or contingent interest in the same, may be served with a printed or written notice containing a description of the premises or structure deemed unsafe or dangerous, requiring the same to be made safe and secure, or removed, as the same may be deemed necessary by the said department, which said notice shall require the person or persons thus served to immediately certify to the superintendent of the said department his or their assent or refusal to secure or remove the same.

§ 37. If the person or persons so served with notice shall immediately certify his or their assent to the securing or removal of said unsafe or dangerous building, premises, or structure, he or they shall be allowed until twelve o'clock noon of the day following the service of such notice, in which to commence the securing or removal of the same; and he or they shall employ sufficient labor and assistance to secure or remove the same as expeditiously as the same can be done; but upon his or their refusal or neglect to comply with any of the requirements of said notice so served, then a further notice shall be served upon the person or persons heretofore named, and in the manner heretofore prescribed, notifying him or them that a survey of the premises named in the said notice will be made at the time and place therein named, which time may not be less than twenty-four hours or more than three days from the time of the service of the said notice, by three competent persons, each of whom shall be a practical builder or architect, and one of whom shall be the superintendent or deputy superintendent of buildings, another of whom shall be an architect, appointed by the New York chapter of the American institute of architects of said city, and another of whom shall be appointed by the person or persons thus notified, upon whose neglect or refusal to appoint such surveyor, however, the said other two surveyors may make such survey, and in case of a disagreement, shall appoint a third person to take part in such survey, who shall also be either a practical builder or architect, whose decision shall be final; and that in case the said premises shall be reported unsafe or dangerous under such survey, the said report will be placed before a court therein named, having jurisdiction to the extent of one thousand dollars, and that a trial upon the allegations and statements contained in said report will be had before said court, at a time and place therein named to determine whether said unsafe or dangerous building or premises shall be repaired or secured, or taken down and removed, and a report of such survey reduced to writing shall constitute the issue to be placed before the court for trial.

§ 38. Whenever the report of any such survey had as aforesaid, shall recite that the building, premises, or structure thus surveyed are unsafe or dangerous, the attorney of the department of buildings in the city of New York shall, at the time in the said notice named, place said notice and report before the judge or justice holding the chambers of the court in the said notice named, which said judge or justice shall immediately proceed to obtain and impanel a jury, and to the trial of said issue before said jury, whose verdict shall be conclusive and final, and shall try said issue without adjournment, except as may be necessary from day to day, giving precedence to the trial of this issue over every other business; and said judge or justice shall have power to impanel a jury for that purpose from any jurors in attendance upon said court, or in case sufficient jurors shall not be in attendance, then from any jurors that may be summoned for that purpose; and said judge or justice shall have power to summon jurors for that purpose; and any such suit or proceeding commenced before a judge or justice may be continued before another judge or justice of the same court; a jury trial may be waived by the default of the defendant or defendants to appear at the time and place named in the said notice, or by agreement, and in such case the trial may be by court, judge, justice, or referee, whose report or decision in the matter shall be final; and upon the rendition of a verdict or decision of the court, judge, justice or referee, if the said verdict or decision shall find the said building, premises, or structure to be unsafe or dangerous the judge or justice trying said cause, or to whom the report of the referee trying said cause shall be presented, shall immediately issue a precept out of said court, directed to the superintendent of buildings, reciting said verdict or decision, and commanding him forthwith to repair and secure, or take down and remove, as the same may be, in accordance with said verdict or decision, said unsafe or dangerous building, buildings, part or parts thereof, staging, structure, or other premises that shall have been named in the said notice; and said superintendent shall immediately thereupon proceed to execute said precept as therein directed, and may employ such labor and assistance and furnish such materials as may be necessary for that purpose, and after having so done, said superintendent shall make return of said precept, with an indorsement of his action thereunder, and the costs and expenses thereby incurred, to the judge or justice then holding the chambers of the said court, and thereupon said judge or justice shall tax and adjust the amount indorsed upon said precept, and shall adjust and allow disbursements and costs of said proceedings to said attorney at and after the rate provided in the code of procedure in that class of actions where judgments on failure to answer can only be taken on application to the court, together with the preliminary expenses of searches and survey, which shall be inserted in the judgment in said action or proceeding, and shall render judgment for such amount and for the sale of the said premises in the said notice named, together with all the right, title, and interest that the person or persons, or either of them, named in the said notice, had in the lot, ground, or land upon which the said building or structure was placed, at the time of the filing of a notice of lis pendens in the said proceedings, or at the time of the entry of judgment therein, to satisfy the same; which sale shall be in the same manner and with like effect as sales under judgment in foreclosures of mortgages; and in case such premises shall not sell for sufficient to satisfy the amount ordered to be paid by such judgment, the deficiency may be collected by execution on said judgment against the owner, or any one of the owners, of the said premises. And in and about all preliminary proceedings, as well as the carrying into effect any order of the court, or any precept issued by any court, said superintendent may make requisition upon the comptroller of the city and county of New York for such amount or amounts of money as shall be necessary to meet the expenses thereof; and upon the same being approved by any judge or justice of the court from which the said order or precept was issued, and presented to said comptroller, he shall pay the same; and for that purpose shall borrow and raise upon a revenue bond, to be issued in the name of the mayor, aldermen, and commonalty of the said city, the several amounts that from time to time may be required, which shall be reimbursed by the payment of the amount and interest at seven per cent. out of the judgment or judgments obtained as aforesaid, if the same shall be collected. In case said issue shall not be tried at the time specified in said notice, or to which the trial may be adjourned, the same may be brought to trial any time thereafter by said superintendent, without a new survey, upon not less than three days' notice of trial to the person or persons upon whom the original notice was served, or to his or their attorney, which notice of trial may be served in the same manner as said original notice.

§ 39. Provided, nevertheless, that immediately upon the issuing of said precept, the owner or owners of said building or premises, or any party interested therein, upon application to said superintendent of buildings, shall be allowed to perform the requirements of said precept at his or their own proper cost and expense, provided the same shall be done immediately, and in accordance with the requirements of said precept, upon the payment of all costs and expenses incurred up to that time.

#### *Order of Court to Make Alteration or Remove Violation.*

§ 40 (as amended by chapter 687, Laws of 1881). In case any notice or direction authorized to be issued by this act is not complied with within ten days after the service thereof, the fire department of the city of New York may, in its discretion, apply to the supreme court for the city and county of New York, at a special term thereof, at chambers, for an order directing the fire department to proceed to make the alterations, or remove the violation or violations, as the same may be specified in said notice or direction.

#### *Non-compliance with Notice to Provide Fire-escapes, Alarms, or Doors.*

Whenever any notice requiring fire-escapes, alarms, or doors to be placed in or upon any building, shall have been served as directed in this act, and the same shall not have been complied with within ten days after service thereof, the fire department of the city of New York, may, in its discretion, apply to the supreme court for the city and county of New York, at a special term at chambers, for an order directing the fire department to vacate such building or premises, or so much thereof as said department may deem necessary, and prohibiting the same to be used or occupied for any purpose specified in said order, until such notice shall have been complied with.

#### *Costs to be Allowed and Expenses, etc., to Become a Lien.*

The sum of twenty-five dollars shall be allowed as costs to the attorney of said department, under and by virtue of the said applications and proceedings, or of either of them, which said amount with all costs, expenses and disbursements incurred in the carrying out of any said order or orders, shall become a lien upon said building or premises named in the said notice, from the time of filing of a copy of the said notice, with a notice of the proceedings taken thereunder, in the office of the clerk of the city and county of New York;

#### *Authority of Supreme Court to Grant Orders.*

and the said supreme court, or a judge or justice thereof, to whom application shall be made is hereby authorized and directed to grant any of the orders above named, and to take such proceedings as shall be necessary to make the same effectual, and any said judge or justice to whom application shall be made is hereby authorized and directed to enforce such lien in accordance with the mechanics' lien law of the city of New York;

#### *Service of Notices upon Lessees.*

and in case either of the notices hereinbefore mentioned shall be served upon any lessee or party in possession of the building or premises therein described, it shall be the duty of the person upon whom such service is made to give immediate notice to the owner or agent of said building named in the notice, if the same shall be known to the said person personally, if such person shall be within the limits of the city of New York, and his residence known to such person, and if not within said city, then by depositing a copy of said notice in the New York post-office, properly inclosed, and addressed to such owner or agent, at his then place of residence, if known, and by paying the postage thereon; and in case any lessee or party in possession shall neglect or refuse to give such notice as herein provided, he shall be personally liable to the owner or owners of said building or premises for all damages he or they shall sustain by reason thereof.

(Sections 41 and 42 are obsolete.)

#### *Duties of the Attorney and Payment of Costs and Expenses.*

§ 43. The attorney to the said department shall be authorized to sue for and collect all penalties and take charge of and conduct all legal proceedings imposed and provided for by this act; and all suits or proceedings instituted for the enforcement of any of the several provisions of the preceding sections of this act, or for the recovery of any penalty thereunder, shall be brought in the name of the said department of buildings by the attorney to said department, to whom all notices of violation shall be returned for prosecution, and it shall be his duty to take charge of the prosecution of all such suits or proceedings, collect and receive all moneys that may be collected upon judgments, suits, or proceedings so instituted, and out of the same pay and retain all costs and disbursements thereon, and upon settlement of judgment and removal of violations thereunder execute satisfaction therefor, and shall on the first of each and every year render to the comptroller of the city of New York an account of all penalties received, and shall thereupon pay over to the said comptroller the amount of such penalties collected by him, after deducting therefrom all necessary costs and disbursements incurred in the said suits or proceedings, which shall be held by the said comptroller as a fund for the use and benefit of the said department of buildings for the purpose of carrying into effect any order or precept issued by any court or judge or justice thereof in this act named to the said department or superintendent thereof; and the said comptroller shall pay over from time to time out of the said fund, upon the requisition of the said superintendent of buildings, such sum or sums as may be allowed and adjusted by the said court, or a judge or justice thereof, for such purpose, so far as the same may be in his hands.

#### *Duties of Employees, and Authority to Enter Buildings.*

§ 44. The attorney, officers, clerks, and messengers of the said department shall perform such duties as they and each of them may be directed to do and perform by the said superintendent of buildings, and in the absence of the superintendent the deputy superintendent shall be empowered to act with all the powers enjoyed and possessed by the said superintendent. All the officers appointed under this act, or the act or acts of which it is an amendment, shall, so far as may be necessary for the performance of their respective duties, have the right to enter any building or premises in said city.

(Section 45 is obsolete.)

§ 46. This act and the acts whereof it is an amendment is hereby declared to be a public act, and shall be construed liberally, and all courts and tribunals, or any judge or justice thereof, shall take cognizance thereof and give force and effect to the purposes and the objects thereby sought to be promoted.

(Section 47 is obsolete.)

§ 48. This act shall take effect immediately.

#### CHAPTER 547, LAWS 1874.

AN ACT to amend an act entitled "an act to amend and reduce to one act the several acts relating to buildings in the city of New York, passed May fourth, eighteen hundred and sixty-six, May seventeenth, eighteen hundred and sixty-seven, and May sixth, eighteen hundred and sixty-eight," passed April twentieth, eighteen hundred and seventy-one.

Passed May 22, 1874; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

(For sections 1, 2, 3, 4, 5, 6, 7, 8, and 9 of this act, see sections 5, 6, 7, 13, 16, 17, 28, 31, and 42 of the foregoing act, to which they are amendments.)

(Section 10 is obsolete.)

#### *Powers, Duties, and Qualifications.*

§ 11. The department of buildings in the city of New York, as heretofore created under chapter three hundred and thirty-five of the laws of eighteen hundred and seventy-three, shall continue and remain in force and shall have charge of enforcing the several provisions of this act and the act to which it is an amendment. Each and all the powers and duties of said department, and all its officers and employees and subordinates, and their qualifications shall continue as enacted by and exercised under chapter six hundred and twenty-five of the laws of eighteen hundred and seventy-one, excepting as modified or repealed by this act.

(Section 12 is obsolete.)

§ 13. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 14. This act shall take effect immediately.

#### CHAPTER 279, LAWS 1881.

AN ACT relating to exits from theatres in the city of New York.

Passed May 13, 1881; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

#### *Means of Exit in Theatres.*

Section 1. The owner, lessee, manager, or other person or persons, having charge or control of any theatre in the city of New York shall cause each and every door and means of exit (to be used in case of fire or panic) to be conspicuously numbered so as to be visible to the audience by whom the same may be used, and shall have or cause to be printed in conspicuous type a plan or diagram, and explanation, showing each of said exits thereon and referring to the numbers aforesaid, and the same shall be printed in conspicuous type as aforesaid on the programme or bill of the play.

#### *Violations and Penalties.*

§ 2. Any and all persons who shall violate any of the provisions of the foregoing section, or fail to comply therewith, or any requirement thereof, shall severally, for each and every violation and non-compliance, respectively forfeit and pay a penalty in the sum of fifty dollars; to be sued for and recovered in the same manner as violations of the building laws in the city of New York are now sued for and recovered by the fire department in the city of New York.

§ 3. This act shall take effect immediately.

#### CHAPTER 424, LAWS 1881.

AN ACT to limit the operation of chapter six hundred and twenty-five of the laws of eighteen hundred and seventy-one, entitled "An act to amend and reduce to one act the several acts relating to buildings in the city of New York, passed May fourth, eighteen hundred and sixty-six, May seventeenth, eighteen hundred and sixty-seven, and May sixth, eighteen hundred and sixty-eight, in the twelfth, twenty-third, and twenty-fourth wards of the city of New York, north of One Hundred and Fortieth street.

Passed May 28, 1881; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

#### *Buildings North of One Hundred and Fortieth Street.*

Section 1. Nothing in chapter six hundred and twenty-five of the laws of eighteen hundred and seventy-one, entitled "An act to amend and reduce to one act the several acts relating to buildings in the city of New York, passed May fourth, eighteen hundred and sixty-six, May seventeenth, eighteen hundred and sixty-seven, and May sixth, eighteen hundred and sixty-eight," shall be so construed as to prohibit the building of frame buildings with shingle roofs and eight-inch brick foundation walls under the same, in the twelfth, twenty-third, and twenty-fourth wards of the city of New York, north of One Hundred and Fortieth street. Buildings of brick not exceeding two stories in height above the basement may also be erected in said district, having basement walls twelve inches in thickness, and walls above the basement eight inches in thickness, constructed of hard brick and good mortar.

§ 2. This act shall take effect immediately.

Very respectfully,

JOHN J. GORMAN,  
CORNELIUS VAN COTT, } Commissioners.  
HENRY D. PURROY,

CARL JUBSEN, Secretary.

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.				Number of Stories.	Material Built of.	Area.					
					Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.				Attaches of Fire Department.				
1881.																			
Jan. 1	11.32 a.m.	172.....	82 Essex street .....	1								2½	Frame, brick ft...	20 x 30	W. Linche.....	Dwelling .....	2d floor .....	80 Essex street....	
" 1			Extended to 80 Essex street....	1								4	Frame, brick ft...	25 x 40	Various families .....	Dwelling .....			
" 1	2.38½ a.m.	346.....	Foot of 14th str. et, East river ..	1									Frame .....		McManus & Co.....	Dock.....			
" 1	4.55 a.m.	343.....	110 East 14th street.....	1								2	Brick .....	25 x 60	O. Van Muelback....	Restaurant .....	1st floor.....	2d floor.....	
" 1	7.05 a.m.	288.....	12 North Washington place .....	1								4	Brick .....	50 x 75	E. Cooper.....	Dwelling .....	Cellar.....		
" 1	8.47 a.m.	168 and 2d alarm.	149 and 151 Baxter street.....	1								5	Brick .....	50 x 50	Didier & Co.....	Moulding manufactory ..	2d floor .....		
" 1	4.35 p.m.	Still .....	1227 Second avenue.....	1								5	Brick, br. stone ft.	25 x 50	B. Jacobus .....	Grocery, etc.....	1st floor.....		
" 1	9.15 a.m.	Still .....	206 East 25th street.....	1								1	Frame .....	20 x 75	Charles McCabe.....	Stable .....	1st floor.....		
" 1	10.15 a.m.	Still .....	51 West Washington place .....	1								3	Brick .....	25 x 50	G. R. Bourke.....	Dwelling .....	Basement.....		
" 1	10.44 a.m.	Still .....	Jerome avenue and Kemp place.	1								1	Frame .....	12 x 20	L. W. Anderson.....	Wood-house.....	1st floor .....		
" 1	11.30 p.m.	Still .....	165 and 167 Bowery.....	1								3	Brick .....	50 x 114	Henry Miner.....	Theatre .....	Ce'lar.....		
" 1	12.14 p.m.	345.....	601 East 13th street.....	1								5	Brick .....	25 x 60	{ Ann Cummings and } others.....	Dwelling .....	4th floor.....		
" 1	2.18 p.m.	Still .....	461 West 21st street .....	1								4	Brick .....	20 x 50	Samuel Ingersoll ...	Dwelling .....	2d floor .....		
" 1	2.25 p.m.	Still .....	330 and 336 Cherry street .....	1								5	Brick .....	25 x 100	Brown & Co.....	Extension table mfrs....	Cellar.....		
" 1	2.48½ p.m.	359.....	138 Fifth avenue .....	1								4	Brick, br. stone ft.	25 x 75	Jane Lewis .....	Dwelling .....	Basement.....		
" 1	4.43 p.m.	Still .....	{ N. W. corner Morris avenue } { and 161st street..... }	1								2½	Frame .....	50 x 50	C. E. Crawford.....	Dwelling .....	2d floor .....		
" 1	5.38 p.m.	553.....	504 West 55th street .....	1								5	Brick .....	25 x 50	C. Bresnan.....	Dwelling .....	3d floor .....		
" 1	8.15 p.m.	267.....	3 Second street.....	1								3	Brick.....	25 x 45	E. Barry.....	Dwelling .....	2d floor.....		
" 1	9.36½ p.m.	359.....	31 West 17th street.....	1								4	Brick .....	25 x 60	R. K. Davis.....	Dwelling .....	2d floor.....	3d floor.....	
" 1	10.06 p.m.	428.....	.....	1								1	.....	.....	.....	.....	.....		
" 1	11.45 p.m.	Still .....	161 Clinton street.....	1								3	Brick .....	15 x 30	Joseph Schulum....	Cigar store.....	1st floor.....		
" 1	12.42 a.m.	737.....	320 East 115th street.....	1								4	Brick .....	25 x 50	J. Davids.....	Dwelling .....	4th floor.....		
" 2	5.20½ a.m.	724 and 3d alarm.	Mt. St. Vincent (Central Park) ..	1								3½	Frame.....	125 x 75	Ryan & Co.....	Hotel .....	Basement.....	Adjoining buildings	
" 2			.....	1								3½	Brick.....	75 x 100	Park Commissioners.	Art gallery....			
" 2	5.45 p.m.	Still .....	149 West 30th street.....	1								4	Brick .....	25 x 50	Wm. Gillespie.....	Dwelling .....	2d floor.....		
" 2	5.59 a.m.	892.....	.....	1								1	.....	.....	.....	.....	.....		
" 2	9.45 a.m.	Still .....	.....	1								1	.....	.....	.....	.....	.....		
" 2	7.03½ a.m.	337.....	319 West 16th street.....	1								3	Brick .....	25 x 40	Messrs. McManus...	Dwelling .....	Basement.....		
" 2	2.26 p.m.	Still .....	219 Elizabeth street.....	1								4	Brick .....	25 x 50	John Hern.....	Dwelling .....	3d floor.....		
" 2	5.50 p.m.	Still .....	226 Eighth avenue.....	1								5	Brick .....	25 x 50	Christopher Jacobi...	Cigar store.....	1st floor.....		
" 2	6.24 p.m.	633.....	N. E. cor. 73d street and 5th ave.	1								4	Brick, br. stone ft.	25 x 80	Geo. W. Quintard...	Dwelling .....	1st floor.....		
" 2	6.30 p.m.	418.....	55 West 26th street.....	1								6	Brown stone ft..	75 x 50	Joseph Aymer.....	Dwelling .....	2d floor.....		
" 2	12.00 p.m.	419, 12, 419.....	1209 Broadway.....	1								1	Frame.....	15 x 40	Mr. Wenck.....	Drug store.....	1st floor .....	1207 Broadway...	
" 2			Extended to 1207 Broadway.....	1								1	Frame.....	15 x 40	T. B. Ryan.....	Dealer in liquors.....		1211 Broadway...	
" 2			Extended to 1211 Broadway.....	1								1	Frame.....	18 x 40	Samuel Ballenberg...	Cigar store.....			
" 3	7.32½ a.m.	835.....	{ W. S. Washington avenue, bet. } { 168th and 169th streets..... }	1								1	Frame.....	30 x 40	William H. Cleveland.	Dwelling.....	3d floor.....		
" 3	9.22 a.m.	Still .....	9 Reade street.....	1								6	Brick.....	25 x 150	P. J. Keary & Bros..	Manufacturers of toys...	Sub-cellar.....		
" 3	9.30 a.m.	338.....	204 Sixth avenue.....	1								4	Brick, br. stone ft.	50 x 75	R. H. Macy & Co....	Dealers in furnish'g goods	Basement.....		
" 3	12.10 p.m.	Still .....	137 East 54th street.....	1								4	Brick, br. stone ft.	20 x 50	William Hyams.....	Dwelling.....	1st floor.....		
" 3	7.08 p.m.	Still .....	31 Broadway.....	1								5	Brick, br. stone ft.	25 x 100	Inman Steamship Co.	Offices, etc.....	1st floor.....		
" 3	3.45 p.m.	{ 268, 2d and 3d } { alarms..... }	338 and 340 Bowery.....	1								4	Brick.....	50 x 100	L. Newman and others	Dealer in fancy goods....	1st floor.....		
" 3	7.28 p.m.	322.....	74 Fourth avenue.....	1								5½	Brick .....	25 x 75	Health Food Co....	Salesroom, etc.....	Cellar .....		
" 3	8.25 p.m.	Still .....	49 Ludlow street.....	1								4	Brick.....	25 x 40	L. Bernstein & others.	Dwelling .....	4th floor.....		
" 3	8.45½ p.m.	73.....	49 Warren street.....	1								5	Brick, marble ft..	25 x 75	J. Shiff & Co.....	Importers of glass .....	Sub-cellar.....		
" 3	10.30 p.m.	Still .....	303 West 53d street.....	1								3	Brick .....	25 x 60	Mr. Williams.....	Dwelling.....	1st floor.....		
" 3	11.44 p.m.	379.....	1101 to 1105 Broadway.....	1								6	Brick, marble ft..	75 x 125	L. A. Janvrin & Co...	Hotel, etc.....	4th floor.....		
" 4	5.00 a.m.	Still .....	43 East 10th street.....	1								4½	Brick .....	25 x 60	Mrs. Dean.....	Dwelling.....	3d floor.....		
" 4	3.55 a.m.	Still .....	125 East 13th street.....	1								3½	Brick .....	25 x 50	Henry Lische.....	Dwelling.....	3d floor.....		
" 4	8.07 a.m.	92 and 2d alarm.	35 Madison street.....	1								5	Brick.....	50 x 20	Various families.....	Dwelling .....	1st floor.....		
" 4	9.44½ a.m.	{ Circuit 3..... } { Aut. Signal 4..... }	.....	1								1	.....	.....	.....	.....	.....		
" 4	1.45 p.m.	Still .....	321 Sixth avenue.....	1								4	Brick .....	75 x 75	H. O'Neil.....	Dry goods .....	Awning .....		
" 4	11.35 a.m.	324.....	169 Eldridge street.....	1								2½	Frame .....	25 x 30	Mrs. Kuhn.....	Stable and bakery.....	Cellar .....		
" 4	2.31 p.m.	482.....	5 West 39th street.....	1								4	Brick, br. stone ft.	20 x 60	Henry Rogers.....	Dwelling .....	2d floor .....		
" 4	5.52 p.m.	Still .....	.....	1								1	.....	.....	.....	.....	.....		
" 4	6.28 p.m.	228.....	55 Lewis street .....	1								2	Frame .....	25 x 20	J. McMahon .....	Carpenter shop .....	1st floor .....		
" 4	6.35 p.m.	665 and 2d alarm.	157 to 161 East 88th street.....	1								2	Brick .....	42 x 100	Wm. F. Hennes & Co	Manufacturing chemists ..	Cellar .....		
" 4	8.25 p.m.	297.....	371 East 8th street.....	1								5	Brick .....	25 x 60	J. E. Cohen and others	Dwelling .....	3d floor .....		
" 4	10.20 p.m.	.....	Ambulance call, Station 126.....	1								1	.....	.....	.....	.....	.....		
" 4	5.52 p.m.	Still .....	18 West 4th street .....	1								4	Brick .....	25 x 50	Max Sands .....	Artificial flowers.....	Basement .....		
" 5	3.01 a.m.	75.....	30 City Hall place.....	1								2	Brick .....	25 x 100	M. Russell .....	Dealer in waste paper ...	Cellar .....		
" 5	5.35 p.m.	Still .....	1213 Broadway .....	1								1	Frame .....	25 x 25	Thos. M. Gibbons...	Confectionery .....	1st floor .....		
" 5	10.15 a.m.	Still .....	131 Eighth street.....	1								5	Brick .....	50 x 100	George Fleckenstein .	Boot and shoe manufact'r.	1st floor .....		
" 5	1.27 p.m.	637.....	1398 Second avenue.....	1								4	Brick, br. stone ft.	25 x 50	Mr. Keelan.....	Dwelling .....	2d floor .....		
" 5	3.00 p.m.	Still .....	41 Goerck street (rear) .....	1								4	Brick .....	25 x 30	Frank Mitchell .....	Dwelling .....	1st floor .....		
" 5	2.30½ p.m.	245.....	111 Ridge street .....	1								6	Brick .....	25 x 60	J.F. Kisher and others	Dwelling .....	1st floor .....		
" 5	6.36 p.m.	736.....	163 East 113th street .....	1								4	Brick .....	25 x 50	A. Michelbacher.....	Dwelling .....	Cellar .....		
" 5	7.24 p.m.	Still .....	604 Grand street.....	1								2	Brick .....	25 x 50	G. S. Tilman.....	Dwelling .....	1st floor .....		

## THE CITY RECORD.

SUPPLEMENT.

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTINGUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$700	\$575	\$1,275	Engine 17	Engine 17	Bates, Miller, Bresnan	15, 17	6, 9	2.00	..	..	..	Not ascertained	{ Ass't Foreman John McDermott, Engine Co. No. 17, slightly injured by fall	{ Members of H. & L. Co. No. 3 rescued August Rossy, Albert Klaus, and Ernest Kable.
200	200	200	Engine 28	Engine 28	Bates, Bresnan	28	11	3.30	..	..	..	{ Tramps building fire on dock		
500	1,000	1,500	H. & L. 3	Engine 5	Bates, Bresnan	5, 14	3, 7	.20	..	..	..	{ Defective arrangement of furnace		
200	200	200	Engine 18	Engine 14	{ Bates, Campbell, Foreman Spence	14, 18, 33	3, 5	.15	..	..	..	Carelessness		
300	2,100	2,400	Engine 20	Engine 26	{ Bates, Miller, Bresnan, Foreman Spence	12, 17, 20, 31	1, 6, 8, 9	1.15	..	..	..	{ Burning soot igniting shavings	Private Mooney, Engine Co. No. 7, leg severely injured	
10	5	15						.05	..	..	..	{ Heat from stove igniting clothing		
								.03	..	..	..	{ Stove-pipe igniting wood-work		
								.10	..	..	..	Foul chimney		
40		40						.30	..	..	..	Defective flue		
								.05	..	..	..	{ Heat from stove-pipe igniting flooring		
					Bates, Bresnan, Fisher	28		.10	..	..	..	Carelessness		
								.15	..	..	..	Defective flue		
								2.30	..	..	..	Rekindling of previous fire		
					Bates, Bresnan, Campbell			.05	..	..	..	Escaped gas igniting		
	50	50						.07	..	..	..	Incendiary		
					Reilly, Fisher			.03	..	..	..	Carelessness		
	10	10			Bates, Bresnan, Campbell			.05	..	..	..	{ Christmas tree igniting from candle		
1,890	4,416	6,306	Engine 14	Engine 14	Bates, Campbell, Bresnan	14, 18	3, 12	.45	..	..	..	{ Hot coals from grate igniting shavings		
10	25	35						.05	..	..	..	{ Smoke from premises No. 33 Union square		
10	15	25			Wilhelm, Orr			.10	..	..	..	{ Burning soot igniting woodwork		
40,000	26,500	66,500	Engine 37	Engine 37	{ Bates, Wilhelm, Orr, Rhodes, Fisher	22, 35, 36, 37	{ 13, 14, 15, 16 }	14.00	..	..	..	Defective fire-place		
25	15	40							..	..	..	Carelessness		
					Foreman Ward, H. & L. 18				..	..	..			
					Rowe				..	..	..			
25		25	Engine 3	Engine 3	Bates, Campbell, Reilly	3	12	.10	..	..	..	Carelessness		{ Caused by reflection of fire from Mt St. Vincent. Indication of a fire.
								.05	..	..	..	Stove upsetting		
								.15	..	..	..	Carelessness		
50		50	Engine 22	Engine 22	Orr, Wilhelm	22	2	.49	..	..	..	Vagrants entering premises		
25		25			Reilly, Fisher		12	.30	..	..	..	Defective grate		{ Fireman Moses Ryer and John Crowley, of H. & L. Co. No. 7, slightly injured
500	5,075	5,575	Engine 1	Engine 1	{ Bates, Fisher, Reilly, Campbell, Orr, Bresnan, Miller	1, 14, 16, 19, 26	3, 7, 12	1.00	..	..	..	Vapor alcohol igniting		
									..	..	..			
100	200	300						.30	..	..	..	Carelessness		
					{ Bates, Campbell, Foreman Spence			.10	..	..	..	Carelessness		
								.01	..	..	..	Carelessness		
15		15						.30	..	..	..	{ Defective arrangement of beams in chimney		
50		50						.30	..	..	..	{ Burning soot igniting woodwork		
5,500	3,075	8,575	Engine 33	Engine 33	{ Bates, Shay, Bresnan, Miller, Bonner, Rowe, Fisher, Foreman Spence	5, 11, 13, 14, 17, 18, 20, 25, 28, 30, 33	3, 5, 6, 8, 9, 11	2.30	..	..	..	Not ascertained	{ Assistant Foreman Terrance P. Brennan, leg slightly injured; Private Daniel B. Guynan, Engine Co. No. 20, hand slightly injured; Engineer of Steamer Ezra N. Lefferts, hand slightly scalded	
			H. & L. 3	Engine 33	Bates, Bresnan	33	3	.10	..	..	..	Carelessness		
30		30						.05	..	..	..	Kerosene lamp explosion		
200	4,825	5,025	Engine 7	Engine 7	Bates, Bonner, Rowe	7, 27, 29	1, 8	1.15	..	..	..	Carelessness		
								.05	..	..	..	Defective flue		{ Mrs. E. A. Dean, foot severely burned
150	1,000	1,150			Fisher, Reilly			.15	..	..	..	Heat from grate-fire		
100	85	185						.05	..	..	..	Carelessness		
20	35	55						.05	..	..	..	Carelessness		
500	700	1,200	Engine 12	Engine 12	{ Bates, Shay, Bonner, Miller, Rowe, Bresnan	4, 7, 9, 12, 31, 32	1, 6, 9, 10	1.30	..	..	..	{ Carelessness in using gasoline		{ Caused by workmen striking Automatic Signal No. 473 Broadway.
									..	..	..			
	20	20						.05	..	..	..	Sparks from Elevated R. R.		
			Engine 17		Bates, Miller, Bresnan		9	.05	..	..	..	Kerosene lamp explosion	{ Private Ed. Keys, H. & L. Co. No. 9, back severely injured	
1,500	4,000	5,500	Engine 26	Engine 26	Fisher	1, 21, 26	2, 4	1.00	..	..	..	Carelessness		{ Caused by smoke issuing from premises No. 16 West 4th st.
									..	..	..			
			Engine 11		Bates, Miller			.03	..	..	..	Vapor of turpentine igniting		
2,161	19,540	21,601	H. & L. 13	Engine 22	{ Bates, Orr, Wilhelm, Fisher, Rhodes	8, 22, 35, 36, 39, 40	13, 14, 16	4.30	..	..	..	Not ascertained	{ Fireman Jeremiah, Engine Co. No. 22, foot injured	
	50	50	Engine 28		Bates, Miller	28		.10	..	..	..	Carelessness		{ E. McCauley fractured his skull by falling from 4th story window. Sent to hospital
									..	..	..			
								.10	..	..	..	Carelessness		
300	3,000	3,300	Engine 7	Engine 7	Bates, Bonner, Rowe	7, 12, 31	1, 10	5.30	..	..	..	Carelessness		
								.05	..	..	..	Christmas tree taking fire		
								.08	..	..	..	Carelessness		
					Wilhelm	39		.03	..	..	..	Escaped gas igniting		
								.10	..	..	..	Fat boiling over and igniting		
					Bates, Miller, Bresnan			.02	..	..	..	Upsetting of kerosene lamp	{ Lena Kisher, arms and neck severely burned	
			Engine 35	Engine 35	Wilhelm	35	13	.10	..	..	..	Carelessness		
								.05	..	..	..	{ Window curtain igniting from gas		
	25	25							..	..	..			

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.		Number of Stories.	Material Built of.	Area.					
					Indication of Fire. Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.				District Key Holders.				
Jan. 5	11.24 p.m.	143.....	28 White street .....	1			1				1		6	Brick, br. stone ft.	25 x 70	J. Goldsmith & Co...	Manufacturers of clocks..	6th floor.....	
" 6	6.10 a.m.	Still .....	335 Third avenue .....	1		1					1		3	Frame .....	20 x 45	John White.....	Mason and plasterer....	Cellar.....	
" 6	11.15 a.m.	Still.....	421 to 429 East 35th street.....	1		1				1			3	Brick.....	100 x 100	Peter Dolger.....	Brewery, etc.....	2d floor.....	
" 6	3.20 p.m.	Still.....	216 West 27th street.....	1		1					1		5	Brick.....	25 x 75	Mrs. B. Dunn.....	Dwelling .....	1st floor.....	
" 6	7.14 p.m.	{ Circuit 5..... Aut. Signal 55. Still..... }	345 and 347 Broadway.....	1				1			1			Brick, br. stone ft.	.....	Bates, Reed & Cooley	Dry goods.....	Basement.....	
" 6	10.48 p.m.	132.....	69 Bayard street (rear).....	1			1			1			4	Brick.....	25 x 30	Mrs. Dempsey & ors.	Dwelling .....	3d floor.....	
" 7	12.53 a.m.	322.....	12 West 11th street.....	1			1			1			3½	Brick.....	20 x 45	Paul Laroussu.....	Dwelling .....	3d floor.....	
" 7	6.10½ p.m.	474.....	425 West 41st street.....	1			1				1		5	Brick.....	25 x 60	George Clark.....	Dwelling .....	2d floor.....	
" 7	6.31 p.m.	Still.....	225 Bowery.....	1		1					1		3	Brick.....	25 x 50	Christopher Gohman.	Dwelling .....	Cellar.....	
" 7	8.15 p.m.	Still.....	1550 Third avenue.....	1		1					1		4	Brick.....	25 x 100	Decker & Sons.....	Piano-forte manufacturers	1st floor.....	
" 7	8.50 p.m.	523.....	.....		1		1				1								
" 7	10.00 p.m.	Still .....	.....			1	1				1								
" 8	10.04 a.m.	Still .....	609 Hudson street.....	1			1				1		5	Brick.....	40 x 60	Moses W. Stevenson.	Dwelling .....	2d floor.....	
" 8	8.48 a.m.	174.....	197 Division street.....	1			1				1		3	Brick.....	25 x 20	{ Wolf, Robertson, } { and others..... }	Dwelling.....	3d floor.....	
" 8	11.50 a.m.	Still .....	2426 Second avenue.....	1			1			1			4	Brick, br. stone ft.	25 x 50	A. McIntosh.....	Dwelling .....	4th floor.....	
" 8	5.09 p.m.	9.....	49 Front street.....	1			1				1		5	Brick.....	22 x 85	E. Ising & Co.....	Distilleries.....	2d floor.....	
" 9	2.15 a.m.	Still .....	101 East 61st street.....	1			1			1			4½	Brick, br. stone ft.	20 x 50	R. Lewin.....	Dwelling .....	1st floor.....	
" 9	6.15 p.m.	463.....	66 Park avenue.....	1			1				1		4	Brick, br. stone ft.	23 x 55	M. G. Lane .....	Dwelling .....	Basement.....	
" 9	9.23 p.m.	237.....	21 West Houston street.....	1			1			1			3½	Brick.....	25 x 50	Edward David.....	Artificial flowers.....	Attic .....	
" 9	9.55 p.m.	39.....	Pier 20, East river.....	1			1				1			{ Ship "City" of Dallas..... }	.....	C. H. Mallory & Co..	Transport, etc.....	Forecastle.....	
" 10	4.47½ a.m.	574.....	992 Sixth avenue.....	1			1				1		4	Brick, br. stone ft.	25 x 60	George Kerrigan .....	Dwelling .....	3d floor.....	
" 10	6.53½ a.m.	789.....	{ Third avenue, opposite South- ern Boulevard..... }	1			1			1				Barrels, lime, etc.	.....	Manchester & Co....	Dealers in lime, etc.....	In lime.....	
" 10	4.03 a.m.	Still.....	20 East Broadway.....	1			1				1		4½	Brick.....	25 x 50	Isaac Kaplan .....	Dealer in clothing.....	Basement.....	
" 10	8.17 a.m.	568.....	.....	1			1				1								
" 10	3.05 p.m.	.....	Ambulance call, Station 47.....																
" 10	8.34 p.m.	378.....	917 and 919 Broadway.....	1			1				1		6	Brick.....	50 x 80	{ C. H. King and A. } { W. Foster..... }	Hotel.....	6th floor.....	
" 11	7.57 p.m.	214.....	102 Charlton street.....	1			1				1		5	Brick.....	25 x 50	James Stewart.....	Dwelling .....	Basement.....	
" 11	8.15 p.m.	432.....	282 and 286 Eleventh avenue.....	1			1				1		2	Frame, brick ft..	75 x 100	Dunbar Box Co.....	Packing-box manufactory.	1st floor.....	
" 11	10.56 p.m.	516.....	690 Ninth avenue.....	1			1				1		2	Frame.....	20 x 25	C. Wagner .....	Dwelling .....	1st floor.....	
" 11	7.00 p.m.	Still.....	844 and 846 Broadway.....	1			1			1			5	Brick.....	50 x 200	Lester Wallack .....	Theatre .....	Stage.....	
" 12	4.39 a.m.	297.....	145 Avenue C.....	1			1				1		4	Brick.....	25 x 60	T. J. Keiley .....	Liquor dealer.....	1st floor.....	
" 12	10.40 a.m.	Still.....	269 West 10th street .....	1			1				1		2	Brick.....	18 x 50	Unoccupied.....		1st floor.....	
" 12	5.05 p.m.	543.....	657 Fifth avenue .....	1			1				1		4	Brick, br. stone ft.	45 x 65	C. R. Purdy.....	Dwelling .....	1st floor.....	
" 12	5.26 p.m.	332.....	73 Little 12th street .....	1			1				1		1	Brick.....	50 x 200	Perrine, Payson & Co	Varnish manufacturers...	1st floor.....	
" 12	6.50 p.m.	576.....	968 Third avenue.....	1			1				1		4	Brick.....	25 x 60	Z. Epstein .....	Fancy goods.....	1st floor.....	
" 12	6.52 p.m.	174.....	167 Clinton street .....	1			1				1		2	Brick .....	25 x 30	Jacobsohn & Waldman	Dealers in hats and caps.	2d floor.....	
" 12	6.48 p.m.	{ Still..... Special call..... }	54 Chrystie street .....	1			1			1			6	Brick.....	25 x 50	David Goldstein.....	Dwelling .....	4th floor.....	
" 12	7.05 p.m.	144.....	37 Walker street.....	1			1				1		6	Brick.....	17 x 60	Joseph Kearney.....	Manufacturer of ruffings.	Chimney.....	
" 12	10.40 a.m.	Still .....	7 Centre Market place.....	1			1				1		3	Brick.....	25 x 30	Andrew Carigliano...	Dwelling .....	3d floor.....	
" 13	12.44 p.m.	Still.....	85 Canal street.....	1			1				1		5	Brick.....	25 x 50	Mrs. Hamberger.....	Dwelling .....	3d floor.....	
" 13	12.47½ p.m.	249.....	86 Mangin street.....	1			1				1		1	Brick .....	20 x 50	E. Connolly.....	Barrel manufacturer.....	1st floor.....	
" 13	1.05 p.m.	Still .....	137 Seventh avenue.....	1			1				1		4	Brick .....	20 x 50	Chas. Coop.....	Dwelling .....	2d floor.....	
" 13	8.45 p.m.	Still .....	975 Eighth avenue.....	1			1				1		6	Brick .....	25 x 60	August Eitzen.....	Grocery.....	1st floor.....	
" 13	9.04 p.m.	374.....	.....			1				1									
" 13	10.16 p.m.	133.....	57 Division street .....	1			1				1		3	Frame .....	25 x 30	B. Goldstein.....	Millinery.....	1st floor.....	
" 14	4.49 p.m.	Still.....	134 West 28th street.....	1			1				1		5	Brick.....	25 x 60	H. B. Broger.....	Grocery.....	Cellar.....	
" 14	9.45 a.m.	Still .....	151 East 40th street .....	1			1				1		4	Brick.....	25 x 60	Thos. W. Bassant....	Dwelling .....	4th floor.....	
" 14	7.39 p.m.	164.....	159 Hudson street.....	1			1				1		4	Brick.....	25 x 50	M. J. Conroy.....	Dwelling .....	2d floor.....	
" 14	10.50 p.m.	285.....	379 Bleecker street.....	1			1				1		5	Brick.....	25 x 60	Frederick Egler, Jr..	Bakery.....	Basement.....	
" 14	11.39 p.m.	129 and 2d alarm.	63 to 67 Bayard street.....	1			1				1		4	Brick.....	75 x 40	David Block.....	Dealer in tinware.....	3d floor.....	
" 14	11.00 a.m.	.....	297 Sixth avenue (rear).....				1				1		2	Frame .....	7 x 13				
" 14	11.00 a.m.	.....	217 West 48th street .....				1				1		1	Frame .....	22 x 75				
" 14	10.38 a.m.	.....	120 and 122 East 110th street.....								1		1	Frame .....	50 x 14				
" 14	10.50 a.m.	.....	78th street, near 3d avenue.....								1		1	Frame .....	32 x 12				
" 14	10.30 p.m.	Still.....	360 East 57th street .....	1			1			1			3	Frame.....	40 x 25	Hebrew Orphan Asy.	Home.....	1st floor.....	
" 15	9.03 a.m.	128.....	100 Centre street .....	1			1				1		5	Brick .....	25 x 75	A. Benson.....	Soap manufactory.....	3d floor.....	
" 15	12.51 p.m.	261.....	170 Bleecker street.....	1			1				1		3	Frame.....	25 x 100	Mary E. Dougherty..	Dwelling.....	Cellar.....	
" 15	1.40 p.m.	Still.....	224 Mulberry street.....	1			1				1		3	Brick.....	25 x 30	Mrs. M. Kelly.....	Dwelling.....	2d floor.....	
" 15	5.39 p.m.	84.....	83 Thomas street.....	1			1				1		5	Brick.....	25 x 65	M. McCollough.....	Dwelling.....	5th floor.....	
" 15	7.15 p.m.	Still.....	420 First avenue .....	1			1				1		4	Brick.....	25 x 50	Various families.....	Dwelling.....	1st floor.....	
" 15	8.15 p.m.	35.....	4 Cortlandt street.....	1			1				1		5	Brick, marble ft..	25 x 100	C. Burns & Son.....	{ Dealers in musical in- } { struments..... }	3d floor.....	
" 15	8.38 p.m.	388.....	418 East 20th street.....	1			1				1		4	Brick .....	25 x 60	John Mallen .....	Dwelling .....	2d floor.....	
" 15	9.04 p.m.	{ Circuit 2..... Aut. Signal 87 }	.....				1			1			1						
" 16	10.25 a.m.	345.....	504 East 14th street .....	1			1				1		5	Brick.....	25 x 60	M. Kerchner.....	Dwelling .....	2d floor.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$500	\$7,100	\$7,600	H. & L. 8	Engine 27	{ Bates, Bonner, Foreman } Spence	27	1, 8	1.25	1	1	1	Not ascertained.		
								.02	1			Slaking of lime.		
								.05	1			Vapor of varnish igniting.	{ John Berrele, John Flammer, Anton Winturich, and Wm. Brown, fatally burned.	
								.05	1			Overheated stove-pipe.	{ Engineer of Steamer Robert Mullen, Engine Co. No. 31, leg slightly scalded; Fireman Thos. B. Green, Engine Co. No. 31, fingers slightly injured.	
	10	10			Bates, Miller, Rowe.		6	.10	1			Kerosene lamp exploding.		
					Bates, Bresnan, Campbell		3	.10	1			Carelessness.		
					Reilly.			.02	1			Pot of fat igniting.		
	200	200			Miller.			1.00	1			Escaped gas igniting.	{ Christopher Gohman, occu- pant, severely burned.	
							13	.10	1			{ Spontaneous combustion of oily waste.		{ Caused by back-draught in chimney in church.
					Reilly.							Not ascertained.		
								1.00	1			Foul chimney.		
	100	100			Bates, Miller, Bonner.		6	.05	1			Carelessness.		
	10	10						.10	1			Carelessness.		
15	900	915	Engine 10		Bates, Rowe.		10	.20	2			Vapor of liquor igniting.		
								.15	1			Defective flue.		
25		25			Fisher, Reilly.		2	.25	1			Defective flue.	{ Foreman Thomas Leonard, H. & L. Co. No. 9, and Fireman Frank Leonard, Engine Co. No. 15, hands cut by glass.	
1,000	1,400	2,400	Engine 33	Engine 33	{ Bates, Shay, Campbell } Foreman Spence	33	8, 9	2.15	1	1		Not ascertained.		
100		100	Engine 32	Engine 32	Bates, Bonner, Miller.	32	10	.35	1			Carelessness.		
500	225	725	Engine 23	Engine 23	Reilly, Fisher.	23	4	.10	1			Carelessness.		
	2,400	2,400	Engine 36	Engine 36	Rhodes, Wilhelm.	35, 36, 41	14, 17	9.00	1	1		Slaking of lime.	{ Foreman Chas. L. Kelly, Fire- men John Trainor, John Dal- ton, Joseph Mang, John J. See, Geo. Moore, H. & L. Co. No. 17, and Privates Albert Collins and Chas. C. Deitch, injured by being burned by lime.	
10	550	560	Engine 9	Engine 9		9		.20	1			Kerosene lamp falling.		{ Caused by back-draught of furnace at 405 East 55th street.
					Fisher, Reilly.									{ Sent out for purpose of taking F. P. Reed to hos- pital, who fell and broke his leg corner Platt and Gold street.
					Bates, Bresnan.			.10	1			Foul chimney.		
10		10	Engine 30		{ Bates, Campbell, Foreman } Spence		5	.10	1			Carelessness.		
50	180	230	Engine 19	Engine 19	Fisher.	1, 19	4, 12	1.15	1	1		Heat from furnace.		
25	25	50	H. & L. 4		Fisher.		4	.15	1			Carelessness.		
								.02	1			Escaped gas igniting.		
50	50	100	Engine 28	Engine 28	Bates, Bresnan, Miller.	28	11	.15	1			Carelessness.		
								.20	1			Foul chimney.		
	300	300			Reilly, Fisher.		2	.06	1			Carelessness.		
					{ Bates, Campbell, Foreman } Spence			.02	1			Varnish igniting.		
	460	460			Reilly, Fisher.		2	.09	1			{ Goods taking fire from gas-light.		
25	300	325	Engine 9	Engine 9	Bates, Bonner.	9	6	.35	1			Not ascertained.		
50	279	329						.05	1			{ Children playing with matches.		
					{ Shay, Bonner, Foreman } Spence		8	.15	1			Foul chimney.		
	20	20						.03	1			Vapor of benzine igniting.	A. Carigliano, leg slightly burned	
10		10						.04	1			Soot taking fire in chimney.		
25	200	225	Engine 11	Engine 11	Bates, Miller, Bresnan.	11	6, 11	.15	1			Sparks from stove.		
							11	.10	1			Overheated stove-pipe.		
								.02	1			Vapor of alcohol igniting.		
					Bates, Campbell, Reilly.									{ Caused by smoke issuing from premises No. 412 West 22d street.
10	50	60			Bates, Miller.		6	.05	1			Not ascertained.		
			Engine 1	Engine 1				.02	1			Carelessness.		
	55	55						.08	1			{ Children playing with matches.		
					{ Bates, Foreman Spence, } Bonner			.05	1			Carelessness.		
					{ Bates, Campbell, Foreman } Spence		5	.05	1			Foul chimney.		
5,000	12,300	17,300	Engine 9	Engine 9	{ Bates, Shay, Bonner, Miller, } Rowe, Bresnan.	9, 12, 13, 17, 20, 27, 31	1, 6, 8, 9	4.00	1	1		Not ascertained.	{ Private Geo. Farrell, H. & L. Co. No. 1, hand cut with broken glass.	
								.50						
								4.00						{ H. & L. Co. No. 12 called out to assist Bureau of Department of Buildings to remove unsafe build- ings.
								.50						
								.02	1			Incendiary.	{ Earnstein Krestine, servant, severely burned.	
50		50			Bates, Bonner, Miller.		1	.20	1			Heat from furnace.		
25		25	Engine 33	Engine 33	{ Bates, Foreman Spence, } Campbell.	33	5, 9	.20	1			Rubbish igniting.		
						20		.10	1			Foul chimney.		
	15	15			Bates, Rowe, Foreman Spence.			.03	1			{ Clothing taking fire from stove.		
20		20						.05	1			Carelessness.		
			Engine 4	Engine 4	Bates, Bonner, Rowe.	4, 6, 29	1, 10	1.45	1	1		Not ascertained.		
					Bates, Bresnan, Fisher.			.05	1			{ Clothing taking fire from stove.	{ Catherine Mallen fatally burned (died); John Mallen, hands slightly burned.	
												Not ascertained.		
100	500	600			Bates, Bresnan, Fisher.	28	3	.15	1			Children playing with fire.	{ Sarah Kassner and Catherine Kirchner slightly burned.	

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.			Number of Stories.	Material Built of.	Area.				
					Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.							
1881.																	
Jan. 16	10.45 a.m.	Still.....	370 Lexington avenue.....	1								3½	Brick, br. stone ft.	18 x 45	Blanche Evans.....	Dwelling.....	Basement.....
" 16	12.53 p.m.	98.....	9 Monroe street.....	1								4	Brick.....	25 x 30	Mrs. McCarthy.....	Dwelling.....	4th floor.....
" 16	3.50 p.m.	421.....	12 East 28th street.....	1								5½	Brick, br. stone ft.	20 x 60	Mrs. Sharp.....	Dwelling.....	Cellar.....
" 16	5.25 p.m.	322.....	.....	1													
" 16	6.07 p.m.	277.....	191 Lewis street.....	1								1	Brick.....	25 x 25	S. B. Arnold.....	Engine-room.....	Floor.....
" 16	6.20 p.m.	321.....	.....	1													
" 16	7.15 p.m.	Still.....	155th st., bet. 11th and 12th aves.	1								3	Frame.....	40 x 45	Kellington Clapp.....	Dwelling.....	2d floor.....
" 16	8.38 p.m.	219.....	10 Prince street.....	1								5	Brick, br. stone ft.	25 x 60	P. Quaseek.....	Fancy goods store.....	1st floor.....
" 16	11.02 p.m.	517.....	605 and 607 Ninth avenue.....	1								1½	Frame.....	50 x 50	Cook & Hardt.....	Dealers in hay, feed, etc.....	1st floor.....
" 17	2.16½ a.m.	485.....	608 Third avenue.....	1								3	Brick.....	20 x 40	Frank Kron.....	Grocer.....	1st floor.....
" 17	10.00 a.m.	339.....	17 East 14th street.....	1								4	Brick.....	25 x 75	Wm. O. Demarest...	Mfr. dress patterns.....	1st floor.....
" 17	3.00 p.m.	Still.....	.....	1													
" 17	5.50 p.m.	Still.....	98 Vesey street.....	1								3	Brick.....	20 x 100	John W. Tierney.....	Dwelling.....	3d floor.....
" 17	5.11 p.m.	144 and 2d alarm.	53 Walker street.....	1								5	Brick, iron ft.....	25 x 80	John A. Opersteffer..	Importer of embroideries.	Basement.....
" 17	7.39 p.m.	{144 and 2d alarm from 143}	10 Walker street.....	1								5	Brick, marble ft.	25 x 100	John S. Block.....	Dealer in clothing.....	4th floor.....
" 17	4.10 a.m.	Still.....	101 Delancey street.....	1								3	Brick.....	25 x 30	John Baumann.....	Dwelling.....	Basement.....
" 17	4.10 a.m.	Still.....	{Southeast corner 6th avenue and 23d street.....}	1								5	Brick, br. stone ft.	100 x 150	A. Abby.....	Theatre.....	Cellar.....
" 18	8.55 a.m.	Still.....	196 Waverley place.....	1								3	Brick.....	20 x 60	Albert Loomas.....	Dwelling.....	2d floor.....
" 18	12.43 p.m.	Still.....	164 East 86th street.....	1								3	Frame.....	20 x 50	Philip Markle.....	Dwelling.....	1st floor.....
" 18	12.50 p.m.	{Circuit 3.....} {Aut. Signal 77}	.....	1													
" 18	1.05 p.m.	Still.....	442 Ninth street.....	1								4	Brick.....	25 x 40	Catharine Dhein.....	Dwelling.....	2d floor.....
" 18	1.20 p.m.	Still.....	.....	1													
" 18	6.37 p.m.	47 and 2d alarm.	81 John street.....	1								4	Brick.....	25 x 100	Jose Menaez.....	Commission merchant...	1st floor.....
" 18	6.45 p.m.	Still.....	Morris avenue and 161st street.	1								2	Frame.....	25 x 40	Chas. E. Crawford...	Dwelling.....	Basement.....
" 18	8.25 p.m.	Still.....	321 East 27th street.....	1								4	Brick.....	25 x 50	James Dinnan.....	Dwelling.....	3d floor.....
" 18	9.58 p.m.	191.....	127 Eldridge street (rear).....	1								4	Brick.....	25 x 50	Mrs. Bohn & others...	Dwelling.....	4th floor.....
" 19	12.27 a.m.	384 and 2d alarm.	219 East 23d street.....	1								3	Brick.....	25 x 30	Charles Diety.....	Piano-forte manufacturer.	2d floor.....
" 19	10.03 a.m.	Still.....	.....	1													
" 19	12.41 p.m.	{Circuit 4.....} {Aut. Signal 6...}	.....	1													
" 19	4.04 p.m.	312.....	Pier 58, North river.....	1									{Schooner "Enterprise"} {terprise "..."}		Tyler Robison.....	Transport.....	
" 19	6.32 p.m.	561.....	101 West 54th street.....	1								4	Brick.....	25 x 100	F. M. Rhett.....	Dwelling.....	4th floor.....
" 19	9.59 p.m.	67.....	35 Frankfort street.....	1								6	Brick.....	25 x 100	A. Ballin.....	Dwelling.....	1st floor.....
" 19	2.30 p.m.	Still.....	1215 to 1225 Broadway.....	1								4	Brick.....	120 x 120	Augustin Daly.....	Theatre.....	1st floor.....
" 19	12.20 p.m.	3.....	34 Water street.....	1								4½	Brick.....	25 x 50	J. F. Staples.....	Lard refiner.....	4th floor.....
" 20	12.09 a.m.	139.....	Piers 41 and 42, East river.....	1									{St'mship "Le-ponto"} {coil "..."}		Sanders & Co.....	Transport.....	In hold.....
" 20	2.02 a.m.	148.....	98 Mott street.....	1								6	Brick.....	25 x 50	A. Walton.....	Grocer.....	1st floor.....
" 20	11.33½ a.m.	318.....	115 West 11th street.....	1								6	Brick.....	25 x 60	Charles Varromi.....	Dwelling.....	Cellar.....
" 20	11.30 a.m.	Still.....	255 West 25th street.....	1								3	Brick.....	20 x 50	Selim Marks.....	Dwelling.....	3d floor.....
" 20	12.28½ p.m.	471.....	Foot West 41st street.....	1								1	Brick.....	50 x 100	Met. Gas-light Co.....	Gas works.....	Basement.....
" 20	4.39¼ p.m.	736.....	215 East 112th street.....	1								2	Frame.....	16 x 30	Dr. Thomas Ellison..	Dwelling.....	2d floor.....
" 20	5.50 p.m.	Still.....	115 West 13th street.....	1								3	Brick.....	20 x 60	M. C. Blank.....	Dwelling.....	2d floor.....
" 20	4.45½ p.m.	251.....	Pier 42, North river.....	1									{St'mship "Per-coil"} {coil "..."}		Gen'l Transatlantic Co	Ocean transport.....	Forecastle.....
" 20	7.13 p.m.	25.....	68 and 70 William street.....	1								6	Brick.....	60 x 130	L. C. Cornish.....	Office, etc.....	1st floor.....
" 20	7.17½ p.m.	687.....	138 East 102d street.....	1								3	Brick, br. stone ft.	20 x 60	Michael Duffy.....	Dwelling.....	2d floor.....
" 20	7.39 p.m.	144.....	51 Lispenard street.....	1								3	Frame, brick front	20 x 50	Taylor & Brochard...	Mfrs. gents' neck-wear...	3d floor.....
" 21	4.41 a.m.	{64, 2d and 3d alarms.....}	56 and 58 Park place.....	1								5	Brick, marble ft..	50 x 200	Major & Knapp.....	Lithographers.....	3d floor.....
" 21	6.34 a.m.	47.....	88 John street.....	1								4	Brick.....	25 x 100	Frederick Bellmer...	Dealer in liquors.....	1st floor.....
" 21	9.30 p.m.	Still.....	31 Gansevoort street.....	1								3	Frame.....	25 x 50	Benjamin West.....	Dwelling.....	3d floor.....
" 21	11.01 a.m.	.....	.....	1													
" 21	10.40 a.m.	Still.....	134 Broad street.....	1								3	Brick.....	20 x 20	Thomas T. Young....	Cooperage.....	2d floor.....
" 21	11.30 a.m.	Still.....	665 Third avenue.....	1								4	Brick.....	20 x 40	A. S. Wright.....	Dining saloon.....	1st floor.....
" 21	10.35 a.m.	Still and Station 46	51 Ann street.....	1								4	Brick.....	25 x 75	P. P. McHugh.....	Dealer in blank cards...	1st floor.....
" 21	1.47 p.m.	Still.....	Foot of East 19th street.....	1									Ship "Sachem".....		M. F. Pickering.....	Transport.....	Deck.....
" 21	7.05 p.m.	Still.....	.....	1													
" 22	11.00 a.m.	Still.....	639 Washington street.....	1								3	Brick.....	25 x 50	M. J. Leonard.....	Dwelling.....	3d floor.....
" 22	2.19 p.m.	Still.....	9 West 28th street.....	1								4	Brick.....	25 x 70	J. W. Ruland.....	Dwelling.....	2d floor.....
" 22	3.30 p.m.	Still.....	230 West 31st street.....	1								3	Brick.....	20 x 50	Amanda Swift.....	Dwelling.....	Basement.....
" 22	6.10 p.m.	Still.....	484 Second avenue.....	1								5	Brick.....	25 x 60	Wm. Fitzsimons.....	Dwelling.....	3d floor.....
" 22	7.55 p.m.	{Still and Station 224.....}	.....	1													
" 22	11.35 p.m.	Still.....	.....	1													
" 23	5.30 a.m.	Still.....	198 Henry street.....	1								1	Brick.....	20 x 20	David J. Donegan....	Coal office.....	1st floor.....
" 23	9.05 a.m.	Still.....	862 Broadway.....	1								4	Brick.....	25 x 50	R. W. Hutchinson....	Shirt manufacturer.....	1st floor.....
" 23	11.10 a.m.	Still.....	174 Forsyth street.....	1								5	Brick.....	25 x 60	{F. Linderman and others.....}	Dwelling.....	Basement.....
" 23	12.25 p.m.	Still.....	310 East 45th street.....	1								4	Brick.....	25 x 60	J. Delia McCauley ..	Dwelling.....	2d floor.....
" 23	5.50 p.m.	Still.....	332 East 26th street.....	1								4	Brick.....	25 x 25	Mrs. Jeam.....	Dwelling.....	Basement.....
" 23	6.54 p.m.	Still.....	49 Essex street.....	1								5	Brick.....	25 x 75	Isaac Gilbert.....	Dwelling.....	3d floor.....

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$500	\$400	\$900	Engine 9	Engine 9	Bates, Bonner, Miller	9, 12	1, 10	1.00	I	I	I	{ Defective construction of building beams..... }		{ Caused by explosion of boiler at 80r and 80s Broadway..... }
					Reilly		7	.30	I			Carelessness.....		
					Bates, Shay, Bresnan, Campbell							Escaped gas igniting.....	{ Fireman Alfred Connor, Engine Co. No. 18, slightly injured.. }	
					Miller	11		.10	I			Sparks from furnace.....		
					Shay, Campbell, Bresnan									
20	40	60						.10	I			Carelessness.....	Mr. Clapp, hands slightly burned	
200	1,500	1,700	H. & L. 11	Engine 20	Bates, Miller, Bresnan	20	6, 9	.30	I			Not ascertained.....		
150	400	550	Engine 2	Engine 2	Reilly, Fisher	2, 26, 34	2, 4	.40	I			Not ascertained.....		
75	225	300	Engine 21	Engine 21	Fisher, Reilly	21	2, 7	.15	I			Carelessness.....		
20		20			Bates, Bresnan, Campbell		3	.15	I			Heat from furnace.....		{ Caused by smoke escap- ing from oil stove, 180 Fulton street.
								.05	I			Kerosene lamp upsetting.....		
3,000	45,415	48,415	H. & L. 8	Engine 31	{ Bates, Shay, Foreman Spence, Bonner, Rowe... }	7, 12, 13, 20, 27, 30, 31	1, 8, 9, 10	4.20	I			{ Soot in chimney taking fire (supposed)..... }		
500	8,296	8,796	Engine 27	Engine 27	{ Bates, Shay, Bonner, Fore- man Spence..... }	13, 27	1, 9, 10	2.00	I			Not ascertained.....		
						17		.05	I			Soot in fire-place igniting.....		
								.05	I			Carelessness.....		
								.10	I			Sparks from stove-pipe.....		
								.05	I			Overheated stove-pipe.....		
20	140	160						.20				Carelessness.....		
												Carelessness.....		{ Caused by overheated stove-pipe in premises 141 Fourth avenue.
2,000	6,000	8,000	Engine 32	Engine 32	{ Bates, Shay, Bonner, Rowe, Miller, Foreman Spence. }	4, 6, 7, 10, 12, 29, 31, 32	1, 6, 8, 10	3.00	I			Carelessness.....		
10	50	60						.10	I			Incendiary.....		
								.02	I			Kerosene lamp explosion...		
	75	75			Bates, Miller, Bresnan	17		.05	I			Child setting fire to clothing		
450	1,900	2,350	Engine 16	Engine 16	{ Bates, Fisher, Bresnan, Campbell..... }	5, 14, 16, 21	2, 3, 7, 12	1.00	I			Overheated stove.....		{ Caused by smoke issuing from furnace of Trinity Church.  Caused by workmen, 51 John st., coming in con- tact with automatic in- strument.
					Rowe									
	25	25			{ Bates, Campbell, Foreman Spence..... }			.10	I			Slaking of lime.....		
23		25			Reilly, Fisher		4	.10	I			{ Defective construction of building beams..... }		
	50	50			Bates, Bonner, Rowe			.05	I			{ Clothing taking fire from stove..... }	{ Foreman Henry M. Jones, En- gine Co. No. 7, knee slight- ly injured proceeding to fire }	
								.01	I			Alcohol lamp igniting.....		
1,200	2,100	3,300	Engine 10	Engine 10	Bates, Rowe, Bonner	4, 10, 32	1, 10	2.15	I			Sparks from furnace.....		
	75	75	Engine 9	Engine 9	Bates, Bonner	9, 15	1, 6	1.00	I			Spontaneous combustion...		
125	350	475	Engine 31	Engine 31	Bates, Bonner	31	6, 9	.45	I			Kerosene lamp explosion...	{ Fireman Dan'l Dempsey, En- gine Co. No. 9, leg slightly injured..... }	
25		25	Engine 18	Engine 18	{ Bates, Campbell, Foreman Spence..... }	14, 18	3, 5	.15	I			Carelessness.....	{ Ass't Eng'r John Molloy, En- gine Co. No. 18, leg injured.. }	
	50	50						.05	I			{ Window curtain igniting from gas-light..... }		
			Engine 2	Engine 2	Reilly, Fisher	2		.05	I			Refuse taking fire.....		
	75	75			Orr	35		.10	I			{ Window curtain taking fire from gas-light..... }		
20	175	195						.05	I			Carelessness.....		
					{ Bates, Foreman Spence, Campbell..... }	24		.30	I			Carelessness.....		
20		20			Bates, Rowe, Miller		10	.35	I			Carelessness.....		
10	100	110			Orr		13	.10	I			Carelessness.....		
140	942	1,082	H. & L. 8	Engine 31	{ Bates, Shay, Foreman Spence, Rowe..... }	31	1, 8	.45	I			Overheated stove.....		
5,000	73,924	78,924	H. & L. 10	Engine 29	{ Bates, Shay, Rowe, Miller, Bresnan, Foreman Spence, Campbell..... }	4, 6, 7, 9, 12, 13, 24, 27, 29, 31, 32, and Water-Tower..... }	1, 6, 8, 9, 10	4.45	I			Not ascertained.....		
20		20	Engine 15	Engine 15	Bates, Campbell	15		.05	I			Hot coals igniting flooring..		
	10	10				3		.05	I			Kerosene lamp upsetting...		
												{ Heat from stove igniting barrels..... }	John Goshnan severely injured..	{ Call sent for Ambulance to convey John Goshnan to hospital.
								.05	I			Foul chimney.....		
								.10	I					
2,000	3,200	5,200	Engine 32	Engine 32	Bates, Shay, Bonner, Rowe	4, 6, 7, 12, 29, 32	1, 6, 10	2.15	I			Heat from furnace.....		
15,000		15,000	Engine 28	Engine 28	Bates, Bresnan, Fisher	23, 43	3, 11	8.00	I			Stove upsetting.....		
												Not ascertained.....		
150	10	160	H. & L. 5	Engine 24	Campbell	24	5	.15	I			Carelessness.....		
100	100	200	Engine 1	Engine 1	Fisher	1		.15	I			{ Defective construction of building beams..... }		
									I			Foul chimney.....		
								.01	I			Foul chimney.....		
					Bates, Bresnan									{ Caused by smoke issuing from premises 149 Allen street.
10	20	30						.10	I			Carelessness.....		
100	600	700	Engine 14	Engine 14	Bresnan	14	3	.30	I			Not ascertained.....		
								.05	I			Foul chimney.....		
								.15	I			Foul chimney.....		
					Fisher	7		.08	I			Carelessness.....		
	20	20			Miller	6		.50	I			Kerosene lamp upsetting...		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.			
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.				Material Built of.					Area.		
					Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.							Attaches of Police Department.	District Key Holders.
1881.																				
Jan. 23	5.44 a.m.	{238, 2d and 3d alarms.....}	108 and 112 Crosby street.....	I.....										4	Brick.....	75 x 200	Henry Clair.....	Hotel.....	2d floor.....	
" 23	7.03 p.m.	Still.....	117 East 57th street.....	I.....										5	Brick, br. stone ft.	25 x 60	F. A. Durant.....	Dwelling.....	3d floor.....	
" 23	7.12 p.m.	Still.....	.....	I.....																
" 23	7.34 p.m.	Still.....	.....	I.....																
" 23	7.50 p.m.	Still.....	5 Hester street.....	I.....										4	Brick.....	25 x 40	{Jacob Abrahams and others.....}	Dwelling.....	1st floor.....	
" 23	7.45 p.m.	Still.....	.....	I.....																
" 23	10.58 p.m.	Still.....	268 West 23d street.....	I.....										4	Brick.....	20 x 60	Charles Smith.....	Dwelling.....	2d floor.....	
" 24	10.10 p.m.	Still.....	131 West 10th street.....	I.....										2	Brick.....	20 x 20	H. Reilly.....	Dwelling.....	1st floor.....	
" 24	6.14 p.m.	Still.....	41 Maiden lane.....	I.....										4	Brick.....	25 x 70	T. N. White & Co.....	Mfrs. of children's carriages	Cellar.....	
" 24	8.32 p.m.	Still.....	.....	I.....																
" 24	10.40 p.m.	Still.....	3 West 3d street.....	I.....										2	Brick.....	25 x 100	Dr. J. S. Leak.....	Dwelling.....	2d floor.....	
" 24	10.40 p.m.	Still.....	.....	I.....																
" 25	1.18 a.m.	Still.....	44 East Broadway.....	I.....													J. Nelson.....	Synagogue and lodge-room	3d floor.....	
" 25	5.18 a.m.	756.....	167 East 123d street.....	I.....										1	Frame.....	10 x 20	Chas. Briender.....	Brass foundry.....	Roof.....	
" 25	9.06 a.m.	193.....	144 Delancey street.....	I.....										3	Brick.....	20 x 40	C. Looft and others..	Dwelling.....	3d floor.....	
" 25	10.30 a.m.	Still.....	103 Bowery.....	I.....										4	Brick.....	25 x 60	Bradenberg & Meehan	Museum.....	1st floor.....	
" 25	4.19 p.m.	Still.....	65th street, 10th and 11th aves..	I.....										1 1/2	Frame.....	12 x 20	John Natlin.....	Dwelling.....	Roof.....	
" 25	6.30 p.m.	Still.....	635 Broadway.....	I.....										5	Brick, marble ft..	75 x 100	Keep & Co.....	Shirt manufacturers.....	3d floor.....	
" 25	7.10 p.m.	242.....	172 East Houston street.....	I.....										4	Brick.....	16 x 25	Annie Limberman....	Millinery and fancy goods	1st floor.....	
" 25	9.41 p.m.	266.....	386 Bowery.....	I.....										2	Brick.....	25 x 70	C. Chrlinsky.....	Mfr. picture frames.....	1st floor.....	
" 25	10.19 p.m.	78.....	.....	I.....																
" 25	10.45 p.m.	23, 10, 23.....	49 Broadway.....	I.....										5	Brick, br. stone ft.	25 x 200	A. Blum, Jr., & Sons.	Dealers in wines, etc....	Cellar.....	
" 26	11.00 a.m.	Still.....	183 Hester street.....	I.....										5	Brick.....	25 x 75	John A. Benty.....	Dwelling.....	1st floor.....	
" 26	12.55 p.m.	Still.....	218 East 119th street.....	I.....										4	Brick.....	25 x 50	John Flynn.....	Dwelling.....	2d floor.....	
" 26	3.40 p.m.	676.....	.....	I.....																
" 26	5.57 p.m.	Still.....	74 Maiden lane.....	I.....										4	Brick.....	20 x 20	{Abraham Tine and others.....}	Dealers in glass, etc....	Basement.....	
" 26	6.02 p.m.	127.....	85 White street.....	I.....										3 1/2	Brick.....	25 x 50	M. Sefentenderg.....	Mfr. paper collars.....	2d floor.....	
" 26	6.10 p.m.	Still.....	63 Columbia street.....	I.....										4	Brick.....	25 x 40	Lewis Jacobs.....	Dwelling.....	Basement.....	
" 26	7.53 p.m.	Still.....	214 East 19th street.....	I.....										3	Brick.....	20 x 45	Mrs. Mish.....	Dwelling.....	Basement.....	
" 26	9.31 p.m.	{Station 341.....} {Ambulance call}	.....	I.....																
" 27	10.50 a.m.	Still.....	420 West 31st street.....	I.....										2	Brick.....	25 x 50	C. J. Bush.....	Dwelling.....	Basement.....	
" 27	12.11 p.m.	Still.....	90 Henry street.....	I.....										6	Brick.....	25 x 60	Various families.....	Dwelling.....	Cellar.....	
" 27	3.00 p.m.	Still.....	4 Baxter street.....	I.....										2 1/2	Brick.....	25 x 40	John Sinnott.....	Clothing store.....	1st floor.....	
" 27	4.40 p.m.	Still.....	900 Third avenue.....	I.....										5	Brick.....	25 x 60	Henry Stenbung.....	Plumbing, etc.....	Basement.....	
" 27	5.35 p.m.	Still.....	542 Tenth avenue.....	I.....										4	Brick.....	25 x 50	John S. Reed.....	Plumbing, etc.....	Basement.....	
" 27	6.14 p.m.	125, 12, 125.....	365 and 367 Broadway.....	I.....										6	Brick, br. stone ft.	50 x 175	S. M. Davidson & Co.	Mfrs. shirts and drawers..	4th floor.....	
" 27	9.40 p.m.	Still.....	.....	I.....																
" 27	10.18 p.m.	152.....	120 Division street.....	I.....										2 1/2	Frame.....	15 x 30	E. Borger.....	Cigar store.....	1st floor.....	
" 28	7.00 a.m.	163.....	480 Canal street.....	I.....										3	Brick.....	20 x 40	D. Corn.....	Manufacturer of caps.....	1st floor.....	
" 28	3.45 a.m.	Still.....	503 West 43d street.....	I.....										4	Brick.....	25 x 40	Jacob Yunker.....	Dwelling.....	1st floor.....	
" 28	8.10 a.m.	Still.....	11 Frankfort street.....	I.....										5	Brick.....	25 x 60	J. B. Couch.....	Printing office, etc.....	3d floor.....	
" 28	9.38 a.m.	{Station 36.....} {Ambulance call}	.....	I.....																
" 28	11.52 a.m.	Still.....	222 West 18th street.....	I.....										4	Brick.....	25 x 50	John Flaherty.....	Dwelling.....	2d floor.....	
" 28	6.55 p.m.	Still.....	18 Eldridge street.....	I.....										3	Brick.....	25 x 40	Levi Jacobs.....	Dwelling.....	3d floor.....	
" 28	5.54 p.m.	565.....	113 East 56th street.....	I.....										4 1/2	Brick, br. stone ft.	25 x 50	Catharine White.....	Dwelling.....	Basement.....	
" 28	6.59 p.m.	153.....	16 Essex street.....	I.....										5	Brick.....	25 x 75	M. Sehonsert & others	Dwelling.....	Cellar.....	
" 29	12.15 a.m.	Still.....	213 Washington street.....	I.....										4	Brick.....	25 x 80	John McLaughlin....	Dealer in fruits.....	Cellar.....	
" 29	1.48 a.m.	Still.....	River road and 218th street.....	I.....										3	Frame.....	75 x 75	James McCreery.....	Dwelling.....	Basement.....	
" 29	5.29 a.m.	Still.....	147 Fulton street.....	I.....										5	Brick.....	25 x 75	T. F. Brosnan.....	Dealer in liquors.....	1st floor.....	
" 29	6.39 p.m.	129.....	65 Mulberry street.....	I.....										5	Brick.....	25 x 65	Various families.....	Dwelling.....	3d floor.....	
" 30	11.40 a.m.	Still.....	125 Chambers street (rear).....	I.....										4	Brick.....	20 x 25	Simon Weil.....	Dwelling.....	1st floor.....	
" 30	7.01 p.m.	537.....	201 West 52d street.....	I.....										4	Brick, br. stone ft.	75 x 75	Progress Club.....	Meeting-room.....	Basement.....	
" 30	7.16 p.m.	25 and 2d alarm..	50 and 52 Pine street.....	I.....										5	Brick.....	50 x 125	Down Town Club....	Meeting-room.....	5th floor.....	
" 30	9.20 p.m.	Still.....	207 West 29th street.....	I.....										4	Brick.....	25 x 40	Daniel Eagan.....	Dwelling.....	4th floor.....	
" 31	2.02 a.m.	647.....	.....	I.....																
" 31	7.44 p.m.	323.....	.....	I.....																
" 31	8.18 p.m.	354 and 3d alarm.	183 and 185 Eighth avenue.....	I.....										3	Brick.....	50 x 100	Patrick McCann.....	Dry goods.....	1st floor.....	
" 31	9.11 p.m.	4.....	Pier 3, East river.....	I.....													Penn. Freight Co.....	Harbor Transport'n Co..	Main deck.....	
Feb. 1	6.05 a.m.	Still.....	102 Perry street.....	I.....										3	Brick.....	25 x 75	Patrick Connolly....	Dwelling.....	3d floor.....	
" 1	2.15 p.m.	773.....	Willis avenue and Harlem river	I.....										1 1/2	Frame.....	25 x 30	A. L. Monfrenie.....	Dwelling.....	1st floor.....	
" 1	7.20 p.m.	Still.....	115 to 121 East 13th street.....	I.....										4	Brick.....	100 x 50	Henry Distin.....	{Manufacturer musical instruments.....}	2d floor.....	
" 1	11.16 p.m.	165.....	368 Canal street.....	I.....										3	Brick.....	30 x 70	J. S. Conover & Co..	{Manufacturers grates and fenders.....}	2d floor.....	
" 2	10.32 a.m.	483.....	296 Madison avenue.....	I.....										3 1/2	Brick, br. stone ft.	25 x 60	J. C. Jay.....	Dwelling.....	1st floor.....	
" 2	11.23 a.m.	634.....	.....	I.....																
" 2	12.15 p.m.	Still.....	310 Henry street.....	I.....										5	Brick.....	25 x 75	Mary Gill.....	Dwelling.....	1st floor.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.				CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.	Exceeding Three Engine Streams.			
\$9,500	\$26,355	35,855	Engine 20	Engine 20	{Bates, Shay, Foreman Spence, Bonner, Bresnan, Miller, Rowe, Campbell.....}	{7, 11, 13, 17, 20, 24, 25, 27, 31, 30, 33..}	3, 5, 6, 8, 9	3:30	..	..	..	..	Not ascertained.....	Fireman John Riordon, Engine Co. No. 17, hip slightly injured; Private Janero Blazino, En- gine Co. No. 7, hand slightly injured; Fireman Louis S. Hoagland, Private Wm. H. Bennett, H. & L. Co. No. 8, severely injured.....	
30	25	55	.....	.....	.....	8.....	2.....	10	1	..	..	..	{Window curtain taking fire from gas-light.....}		{Caused by testing tele- graph to ascertain last alarm sent out.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Not ascertained.....		
.....	10	10	.....	.....	Miller.....	.....	.....	03	1	..	..	..	Kerosene lamp upsetting...		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Not ascertained.....		
.....	.....	.....	.....	.....	.....	.....	.....	12	05	1	..	..	Carelessness.....		
.....	.....	.....	.....	.....	.....	.....	.....	02	1	..	..	..	Fat boiling over on stove...		
30	150	180	Engine 4	Engine 4	Rowe.....	4, 6.....	10.....	25	..	1	..	..	Heat from heater-pipe.....		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Not ascertained.....		
15	.....	15	.....	.....	Bonner.....	33.....	.....	15	1	..	..	..	{Defective construction of building beams.....}		{Caused by reflection of fire in stove at 538 and 540 Pearl street.
100	250	350	Engine 9	Engine 9	Miller.....	9.....	6.....	30	..	1	..	..	Carelessness.....		
75	10	85	H. & L. 14	Engine 36	Foreman Chambers.....	35, 36.....	14.....	30	1	..	..	..	Overheated furnace.....		
20	75	95	Engine 17	Engine 17	Bates, Miller, Bresnan.....	17.....	6.....	10	..	1	..	..	Carelessness.....		
.....	.....	.....	.....	.....	.....	.....	.....	01	1	..	..	..	Carelessness.....		
.....	.....	.....	.....	.....	.....	.....	.....	10	1	..	..	..	Sparks from stove-pipe.....		
.....	100	100	.....	.....	.....	33.....	.....	20	1	..	..	..	{Defective construction of building beams.....}		
.....	75	75	.....	.....	Bates, Miller, Bresnan.....	25.....	.....	03	1	..	..	..	{Goods in window igniting from gas-light.....}		
500	815	1,315	Engine 33	Engine 25	Bates, Bresnan, Campbell.....	5, 33.....	3, 9.....	30	..	1	..	..	Not ascertained.....		{Caused by smoke issuing from premises 121 Roose- velt street.
.....	.....	.....	.....	.....	Bates, Bonner, Rowe.....	.....	.....	.....	.....	.....	.....	.....	.....		
2,000	9,802	11,802	Engine 6	Engine 6	{Bates, Shay, Rowe, Bonner, Miller, Foreman Spence..}	4, 6, 7, 10, 29, 31, 32..	1, 6, 8, 10	4:00	..	..	1	..	Hot coals igniting floor....	{Fireman Wm. H. Reilly, Engine Co. No. 32, overcome with heat and smoke.....}	
.....	.....	.....	.....	.....	.....	.....	.....	03	1	..	..	..	Oil taking fire on stove.....		
.....	.....	.....	.....	.....	.....	35.....	.....	02	1	..	..	..	Stove upsetting.....		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
.....	.....	.....	.....	.....	.....	4.....	.....	10	1	..	..	..	Incendiary.....		
200	550	750	Engine 31	Engine 31	Bates, Bonner, Rowe, Miller..	31.....	1.....	30	..	1	..	..	Not ascertained.....		
.....	.....	.....	.....	.....	.....	11.....	.....	07	1	..	..	..	Kerosene lamp upsetting...		
25	50	75	.....	.....	.....	16.....	.....	05	1	..	..	..	Kerosene lamp falling.....		{Sent out by Foreman Mc- Cabe, in charge of Re- pair Shops, to remove a citizen named Owen Cas- sidy to hospital, who fell in a fit in the street.
150	250	400	Engine 34	Engine 34	.....	34.....	.....	30	1	..	..	..	Children playing with fire..		
.....	.....	.....	.....	.....	.....	.....	.....	02	1	..	..	..	Not ascertained.....		
.....	.....	.....	.....	.....	.....	.....	.....	05	1	..	..	..	Defective flue.....		
10	50	60	.....	.....	Fisher.....	.....	.....	10	1	..	..	..	Carelessness.....		
10	.....	10	.....	.....	.....	2.....	.....	10	1	..	..	..	Carelessness.....		
2,500	185,702	188,202	Engine 31	Engine 31	{Foreman Spence, Miller, Bresnan, Bates, Shay, Bonner, Rowe, Campbell}	4, 6, 7, 9, 12, 13, 20, 27, 29, 30, 31..}	1, 6, 8, 9, 10	6:00	..	..	1	..	{Supposed carelessness with lighted paper.....}	Private John J. Horan, H. & L. Co. No. 10, slightly injured...	{Caused by sparks from chimney at 16 West 36th street.
25	110	135	H. & L. 6	Engine 17	Bates, Miller.....	17.....	6.....	10	..	1	..	..	Carelessness.....		
.....	238	238	.....	.....	{Bates, Foreman Spence, Campbell.....}	.....	8.....	10	1	..	..	..	Soot igniting.....		
.....	.....	.....	.....	.....	.....	.....	.....	03	1	..	..	..	Overheated stove.....		
.....	.....	.....	.....	.....	.....	.....	.....	05	1	..	..	..	Friction of machinery.....		{Sent out by Foreman of Engine Co. No. 4 to con- vey man named Lynch to hospital.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
25	150	175	.....	.....	.....	.....	.....	05	1	..	..	..	Overheated stove-pipe.....		
25	25	50	Engine 8	Engine 8	Fisher, Reilly.....	8.....	2.....	15	..	1	..	..	{Children playing with matches.....}		
.....	.....	.....	.....	.....	Bates, Miller.....	17.....	.....	05	1	..	..	..	Escaped gas igniting.....	{Effie White slightly burned about face and hands.....}	
25	100	125	Engine 29	Engine 29	Rowe.....	29.....	10.....	35	..	1	..	..	Gas-stove igniting flooring..		
50	20	70	.....	.....	.....	.....	.....	15	..	1	..	..	Defective flue.....		
.....	10	10	.....	.....	Rowe.....	.....	.....	10	..	1	..	..	Kerosene lamp explosion...	{Foreman Daniel Bradley, H. & L. Co. No. 10, face slightly burned.....}	
.....	.....	.....	.....	.....	Bates, Bonner, Miller.....	.....	.....	01	..	..	..	..	Foul chimney.....		
.....	10	10	.....	.....	.....	11.....	.....	10	1	..	..	..	Child playing with matches		
250	.....	250	H. & L. 4	Engine 23	Reilly, Fisher.....	8, 23, 26.....	2, 4.....	30	..	..	..	..	Heat from furnace.....	{Fireman Michael McNamara, Engine Co. No. 23, hands severely burned.....}	
1,500	11,000	12,500	Engine 4	Engine 4	{Bates, Shay, Bonner, Mil- ler, Foreman Spence.....}	4, 6, 7, 9, 12, 29, 32..	1, 6, 8, 10	3:30	..	..	1	..	Not ascertained.....	{Private Dennis Morrissey, ankle slightly injured.....}	
.....	.....	.....	.....	.....	Orr.....	.....	.....	01	1	..	..	..	Kerosene lamp falling.....		{Caused by bursting of Cro- ton water-main in street opposite 1485 Second av. Malicious mischief of some person unknown finding door of box open.
.....	.....	.....	.....	.....	Bates, Bresnan.....	.....	.....	.....	.....	.....	.....	.....	.....		
2,590	35,100	37,690	H. & L. 12	Engine 3	{Bates, Shay, Reilly, Fisher, Miller, Bresnan, Foreman Spence.....}	1, 3, 14, 16, 18, 19, 24, 26, 33, 34..}	3, 4, 5, 7, 12	2:20	..	..	1	..	{Goods in show-window taking fire from gas- light.....}	Foreman Wm. Shaw, Engine Co. No. 3, head slightly injured...	
100	100	200	Engine 10	Engine 10	Bates, Rowe, Bresnan.....	4, 10.....	1, 10.....	1:15	..	..	1	..	Carelessness.....	{Robert Thompson, watchman, severely burned.....}	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Foul chimney.....		
75	50	125	Engine 36	Engine 36	Rhodes.....	36.....	14, 17.....	2:30	..	1	..	..	Overheated stove.....		
10	.....	10	.....	.....	.....	.....	.....	20	1	..	..	..	Hot coals from furnace.....		
500	10,400	10,900	H. & L. 8	Engine 13	{Bates, Foreman Spence, Bonner.....}	13, 27, 30.....	1, 8.....	45	..	1	..	..	Defective grate.....		
80	.....	80	.....	.....	Fisher, Reilly.....	.....	2, 7.....	40	1	..	..	..	Defective flue.....		
.....	.....	.....	.....	.....	Orr, Fisher.....	.....	.....	05	1	..	..	..	{Children playing with matches.....}		{Caused by steam issuing from premises No. 22 East 70th street.

FIRST NOTICE OF FIRE OR ALARM.				ALARM.										DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.	
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.		IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.			Number of Stories.	Material Built of.	Area.					
				Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.								Citizen Key Holders.
1881.																					
Feb. 2	1.10 p.m.	Still.	44 Dominick street.	1										3	Brick	25 x 60	Mr. Randall.	Dwelling	Cellar		
" 2	3.25 p.m.	Still.	28 West 29th street.	1										4	Brick	60 x 120	J. H. Haverly.	Theatre	1st floor		
" 2	4.50 p.m.	Still.	216 West 50th street.	1										4	Brick	20 x 40	Jas. S. Cummings.	Dwelling	Basement		
" 2	5.34 p.m.	561.	48 West 52d street.	1										4	Brick, br. stone ft.	20 x 60	Melville Brown.	Dwelling	1st floor		
" 2	5.45 p.m.	Still.	{ Southwest corner 46th street } { and Lexington avenue. }	1										2	Brick, br. stone ft.	50 x 80	{ St. Peter's Luther- } { an Church. }	Place of worship.	Basement		
" 2	6.40 p.m.	640.		1																	
" 3	7.24½ a.m.	568.	407 East 56th street.	1										4	Brick, F. stone ft.	20 x 45	S. Dinkelsteil.	Dwelling	Basement		
" 3	7.45 a.m.	647.	1476 First avenue.	1										4	Brick	30 x 60	Various families.	Dwelling	4th floor		
" 3	7.53 a.m.	Still.	457 West 71st street.	1										4½	Brown stone ft.	20 x 45	R. W. Main.	Dwelling	Cellar		
" 3	10.32½ a.m.	537.	753 Seventh avenue.	1										4	Brick	25 x 60	John Miller.	Plumbing, etc.	Basement		
" 3	11.02 a.m.	24.	12 Wall street.	1										5	Brick	20 x 80	Wm. Weber.	Dwelling	5th floor		
" 3	11.16 a.m.	267.	329 Bowery.	1										4	Brick	15 x 60	W. Frenbackers & Son	{ Dealers in undertakers' } { supplies. }	Basement		
" 3	12.55 p.m.	Still.	779 Eighth avenue.	1										5	Brick	25 x 90	Stephen Burns.	Oyster-house.	1st floor		
" 3	3.20 p.m.	96.	104½ Cherry street.	1										4	Brick	20 x 50	R. Rhilander.	Dwelling	Cellar		
" 3	4.11 p.m.	541.	71 West 48th street.	1										5	Brick	25 x 60	Various families.	Dwelling	5th floor		
" 3	5.10 p.m.	14.	32 and 34 Broad street.	1										5	Brick	50 x 125	Just & Co.	Brokers and bankers.	2d floor		
" 3	6.00 p.m.	Still.	1326 Third avenue.	1										4	Brick	25 x 50	Solomon Frank.	Clothing store.	1st floor		
" 3	6.16 p.m.	Still.	431 West 34th street.	1										5	Brick, br. stone ft.	25 x 60	Chas. Turrell.	Dwelling	Cellar		
" 3	6.57 p.m.	Still.	74 East 61st street.	1										4	Brick	20 x 60	J. H. Solomon.	Dwelling	Basement		
" 3	7.20 p.m.	Still.	54 Chrystie street.	1										6	Brick	25 x 25	A. V. Sickler.	Dwelling	6th floor		
" 3	9.15 p.m.	Still.	28 West 29th street.	1										4	Brick	60 x 120	J. H. Haverly.	Theatre	Stage		
" 3	10.00 p.m.	Still.	118 Prince street.	1										5	Brick	25 x 50	Jos. Hugo.	Dwelling	2d floor		
" 3	10.06 p.m.	61.	Pier 28, North river.	1													Capt. F. E. Roberts.	Transport, etc.	Deck		
" 4	2.20½ a.m.	265.	74 Bleecker street.	1										3	Brick	15 x 20	Luke Gibney & others	Oyster saloon	1st floor		
" 4	4.53 a.m.	Still.	916 and 918 Eighth avenue.	1										3	Brick	15 x 100	Edward Molloy.	Ball-room, etc.	2d floor		
" 4	5.01½ a.m.	645.	139 East 79th street.	1										4	Brick, br. stone ft.	20 x 60	Edward P. White.	Dwelling	4th floor		
" 4	5.45 a.m.	315.	282 West 4th street.	1										3	Brick	20 x 50	Wm. Clark.	Dwelling	Basement		
" 4	10.08 a.m.	474.	340 West 42d street (rear).	1										2	Frame.	25 x 30	Mrs. McAdams.	Ball-room, etc.	2d floor		
" 4	11.01½ a.m.	217.	76 and 78 Wooster street.	1										3	Brick	33 x 100	Elias Jersurum.	Dealer in paper stock.	1st floor		
" 4	6.15 p.m.	356.	131 West 19th street.	1										4	Brick	25 x 50	Michael Kirk.	Dwelling	2d floor		
" 4	6.37 p.m.	16.	12 Old slip.	1										5	Brick	27 x 75	H. Lussen.	Restaurant	Chimney		
" 4	7.31 p.m.	459.																			
" 4	7.43 p.m.	895.																			
" 4	12.00 m.	49.	237 Water street.	1										5	Brick	25 x 70	Graff & Co.	Mfrs. ranges, etc.	1st floor		
" 5	9.00 a.m.	439.	164 West 32d street	1										3	Brick	25 x 40	Mrs. Williams	Dwelling	3d floor		
" 5	5.08 p.m.	89.	163 Worth street.	1										2	Brick	25 x 12	C. Deprez and others.	Dwelling	2d floor		
" 5	5.50 p.m.	Still.	1645 Third avenue	1										1	Frame	10 x 20	Charles Reiger	Stable	1st floor		
" 5	3.50 p.m.	Still.	341 Broadway	1										5	Brick	25 x 100	Goodyear & Co.	Mfrs. of rubber clothing.	Cellar		
" 5	11.30 a.m.	Still.	77 Catharine street.	1										2	Brick	25 x 40	Mr. Samuels.	Dwelling	2d floor		
" 5	6.19 p.m.	627.	209 East 71st street.	1										3	Brick, br. stone ft.	25 x 60	Samuel McConchil.	Dwelling	3d floor		
" 5	5.30 p.m.	Still.	151 East 86th street	1										3	Frame	20 x 40	Unoccupied	Basement			
" 5	10.03 p.m.	Still.	75 Beekman street.	1										5	Brick, marble ft.	25 x 100	Herman Behr.	Dealer in sponges, etc.	Cellar		
" 6	2.08 a.m.	{ Special call. } { Engine 24. } { Station 531. }																			
" 6	2.49 a.m.	92.	30 Madison.	1										4	Brick	25 x 60	John Duffy	Dealer in liquors.	1st floor		
" 6	6.29 a.m.	475.	309 West 42d street	1										2	Frame	20 x 30	James Kenny.	Dwelling, etc.	1st floor		
" 6	1.50 p.m.	Still.	76 and 78 Wooster street	1										3	Brick	33 x 100	Elias Jessman.	Dealer in paper stock.	1st floor		
" 6	1.33½ a.m.	{ 552 and 2d alarm. } { and 3d alarm } { to 556. }	402 West 57th street	1										5	Brick, br. stone ft.	25 x 65	Michael Mera.	Dwelling	Basement		400 West 57th st.
" 6	4.10 p.m.	893.	Extended to 400 West 57th street											7	Brick	30 x 100	Unoccupied				
" 6	5.42 p.m.	236.																			
" 6	6.45 p.m.	Still.	127 West Houston street.	1										3	Brick	25 x 45	J. Raphhoff.	Butcher shop	Cellar		
" 6	7.28½ p.m.	58.	18 Eldridge street.	1										4	Brick	25 x 30	Lewis Smith	Dwelling	2d floor		
" 6	8.15 p.m.	89.	534 Pearl street.	1										4	Brick	25 x 75	M. Brockmeister	Dwelling	3d floor		
" 6	9.20½ p.m.	61.	99 Park place.	1										5	Brick	25 x 100	Furman & Page.	Commission merchants.	2d floor		
" 6	11.59 p.m.	377.	40 West 23d street.	1										3	Brick	25 x 50	Unoccupied.		1st floor		
" 7	5.58½ a.m.	131.	50 and 50½ Bowery.	1										2	Frame, brick ft.	50 x 200	Wm. Kramer.	Lager beer saloon	2d floor		
" 7	5.01 a.m.	134.	61 East Broadway.	1										5	Brick	25 x 75	J. Tattlebaum.	Dealer in groceries.	1st floor		
" 7	8.36 a.m.	Still.	46 Allen street.	1										5	Brick	25 x 60	Eugene Curtis.	Dwelling	5th floor		
" 7	9.29 a.m.	366.	413 East 15th street.	1										2	Brick	25 x 25	Mrs. M. Gestner.	Stable.	1st floor		
" 7	11.35 a.m.	Still.	149 Wooster street.	1										2½	Brick	25 x 40	Edgar Gallant	Brass finisher.	2d floor		
" 7	5.25 p.m.	247.																			
" 7	8.10½ p.m.	542.	12 East 46th street	1										4	Brick, br. stone ft.	25 x 65	Margaret Murray.	Dwelling	4th floor		
" 8	4.02 p.m.	517.	310 West 44th street	1										4½	Brick	25 x 60	Otto Benner.	Dwelling	1st floor		
" 8	5.45 p.m.	Still.	394 Fifth avenue	1										4½	Brick	20 x 60	Robert Tyson	Dwelling	1st floor		
" 8	6.28½ p.m.	388.	324 Avenue A.	1										5	Brick	22 x 100	Miller & Lengeman.	Cabinet manufacturers.	3d floor		
" 8	7.48 p.m.	356.	163 and 165 West 18th street.	1										5	Brick	30 x 60	Hertz Brothers.	Cabinet manufacturers.	1st floor		
" 8	8.02 p.m.	418.	119 West 27th street	1										3½	Brick	20 x 50	Isabelle Engle.	Dwelling	3d floor		
" 9	9.25 a.m.	Still.	249 East 28th street	1										5	Brick	20 x 50	Mrs. C. Kelly.	Dwelling.	3d floor		
" 9	9.41 a.m.	{ 33, 2d and 3d } { alarms. }	62 and 68 New Church street.	1										6	Brick, iron front.	100 x 50	{ Western Electric } { Mfg. Co. }	Dealers in telegraph in- struments	Cellar		4th floor

SUPPLEMENT.

(71)

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.					
					Fire.	Indication of Fire.	Unnecessary.	Verbally.					Box Signals.				
1881.																	
Feb. 9	10.40 a.m.	554.....	.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	2d floor.....	1142 Third avenue	
" 9	12.13 p.m.	626 and 3d alarm.	1144 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	.....	1145 Third avenue	
" 9	.....	.....	Extended to 1142 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	.....	1148 Third avenue.	
" 9	.....	.....	Extended to 1146 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	.....	1140 Third avenue.	
" 9	.....	.....	Extended to 1148 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	.....	.....	
" 9	.....	.....	Extended to 1140 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 70	Unoccupied .....	.....	.....	.....	.....	
" 9	1.55 p.m.	Still .....	87 First avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 60	Various families.....	Dwelling .....	.....	2d floor.....	.....	
" 9	3.00 p.m.	Still.....	417 Fifth street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 60	Various families.....	Dwelling .....	.....	1st floor.....	.....	
" 9	3.44 p.m.	376.....	282 Seventh avenue .....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 50	M. Gross.....	Dwelling .....	.....	3d floor.....	.....	
" 9	5.21 p.m.	124.....	61 and 63 Leonard street.....	I ..	I ..	I ..	I ..	I ..	5	Brick, br. stone ft.	50 x 80	Pomeroy & Plumber.	Dealers in dry goods.....	.....	1st floor.....	.....	
" 9	7.32 p.m.	564.....	67 East 53d street.....	I ..	I ..	I ..	I ..	I ..	4	Brick, br. stone ft.	20 x 50	Wm. M. Peterson....	Dwelling .....	.....	Roof.....	.....	
" 9	10.56 p.m.	33.....	112 Liberty street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 60	J. H. Brumell & Co..	Dea'ers in tel. supplies..	.....	5th floor.....	.....	
" 10	1.26 a.m.	287.....	87 and 89 Sixth avenue.....	I ..	I ..	I ..	I ..	I ..	6	Brick .....	25 x 60	Various families.....	Dwelling .....	.....	1st floor.....	.....	
" 10	4.01 p.m.	65.....	243 Broadway .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 90	Mehrtms & Meyer....	Restaurant .....	.....	Roof.....	.....	
" 10	6.32 p.m.	37.....	190 Pearl street.....	I ..	I ..	I ..	I ..	I ..	4½	Brick .....	25 x 60	Ahnex & Dehls.....	Dealers in tobacco.....	.....	Attic floor .....	.....	
" 10	10.15 p.m.	Still .....	84 East Broadway .....	I ..	I ..	I ..	I ..	I ..	4	Frame .....	25 x 68	Henry Haber.....	Barber shop.....	.....	1st floor.....	.....	
" 10	6.35 p.m.	{ Still ..... } { Special call ... }	36 East Broadway.....	I ..	I ..	I ..	I ..	I ..	3½	Brick .....	25 x 50	S. Sufransky & Co....	Mfrs. beads, etc.....	.....	3d floor.....	.....	
" 11	7.55 p.m.	Still .....	8 Fulton street.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	20 x 70	Lewis Eitel & Co....	Mfrs. waterproof clothing.	.....	1st floor .....	.....	
" 11	8.45 a.m.	Still.....	235 East 30th street.....	I ..	I ..	I ..	I ..	I ..	3½	Brick .....	25 x 50	John R. Lawrence ...	Dwelling .....	.....	1st floor.....	.....	
" 11	11.00 a.m.	Still.....	285 Broome street .....	I ..	I ..	I ..	I ..	I ..	5	Brick.....	25 x 40	John Sanders.....	Dwelling .....	.....	2d floor.....	.....	
" 11	6.02 p.m.	57.....	51 Fifth street.....	I ..	I ..	I ..	I ..	I ..	5	Brick, br. stone ft.	25 x 5	Standard Tinware Co.	Manufacturers of tinware.	.....	4th floor.....	5th floor.....	
" 11	7.00 p.m.	578 and 2d alarm.	{ Avenue A, bet. 56th and 57th } { streets .....	I ..	I ..	I ..	I ..	I ..	2	Frame .....	25 x 50	Schmitt & Kehone...	Lager beer saloon .....	.....	1st floor.....	2d.....	
" 11	8.20 p.m.	36.....	39 Nassau street.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 100	A. Sandheim.....	Office .....	.....	2d floor .....	.....	
" 12	1.50½ p.m.	546.....	569 and 573 Lexington avenue..	I ..	I ..	I ..	I ..	I ..	3½	Brick .....	85 x 285	{ Nursery & Child's } { Hospital..... }	Nursery .....	.....	3d floor .....	.....	
" 12	8.20 p.m.	Still.....	307 East 25th street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 60	John McElvane .....	Dwelling .....	.....	5th floor.....	.....	
" 12	9.50 p.m.	Still.....	107 West 42d street.....	I ..	I ..	I ..	I ..	I ..	4	Brick, br. stone ft.	25 x 60	Lewis Bresler.....	Dwelling .....	.....	1st floor.....	.....	
" 13	6.54 p.m.	193.....	41 Suffolk street .....	I ..	I ..	I ..	I ..	I ..	3	Frame .....	15 x 25	{ Mrs. J. Goripl and } { others..... }	Dwelling .....	.....	Cellar.....	.....	
" 13	8.05 p.m.	Still.....	4 Harrison street .....	I ..	I ..	I ..	I ..	I ..	3	Brick.....	25 x 40	Mrs. J. Byrne.....	Dwelling .....	.....	Basement.....	.....	
" 14	1.30 a.m.	Still.....	832 Third avenue .....	I ..	I ..	I ..	I ..	I ..	3	Brick.....	25 x 75	Fell & Vaness.....	Dealers in crockery.....	.....	1st floor.....	.....	
" 14	7.36 a.m.	Still.....	34 East Broadway.....	I ..	I ..	I ..	I ..	I ..	6	Brick.....	25 x 60	Joseph Ettenger....	Dwell ng .....	.....	2d floor.....	.....	
" 14	9.45 a.m.	Still.....	384 and 386 Eighth avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick.....	30 x 60	S. Bowman.....	Clothing store.....	.....	1st floor .....	.....	
" 14	10.13 a.m.	49.....	Front of 111 Beekman street....	I ..	I ..	I ..	I ..	I ..	.....	Pot of tar.....	.....	.....	.....	.....	.....	.....	
" 14	12.00 m.	Still.....	172 Franklin street .....	I ..	I ..	I ..	I ..	I ..	2½	Brick .....	25 x 30	M. A. Jeffrie.....	Dwelling .....	.....	2d floor.....	.....	
" 14	2.55 p.m.	Still.....	43 Avenue D.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 40	Mr. Wiburn.....	Bakery.....	.....	1st floor .....	.....	
" 14	4.31 p.m.	243.....	120 First street .....	I ..	I ..	I ..	I ..	I ..	5	Brick.....	25 x 75	M. Hamilton & others	Dwelling .....	.....	2d floor.....	.....	
" 14	7.21 p.m.	329.....	131 Avenue D .....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 50	Christian Kline.....	Tailor shop.....	.....	4th floor.....	.....	
" 14	8.38 p.m.	376.....	200 West 23d street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 60	Lewis Bloom.....	Dwelling .....	.....	Roof.....	.....	
" 15	12.07 a.m.	88.....	538 and 540 Pearl street.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	50 x 100	Nugent & Co.....	Mfrs. of paper bags.....	.....	3d floor.....	5th floor.....	
" 15	2.17 a.m.	375.....	213 and 215 Eighth avenue.....	I ..	I ..	I ..	I ..	I ..	3	Frame.....	30 x 75	Cochran Bros.....	Dealers in teas.....	.....	1st floor.....	.....	
" 15	4.33 a.m.	471.....	609 West 38th street.....	I ..	I ..	I ..	I ..	I ..	1	Brick .....	25 x 100	Michael Condron....	Dealer in coal .....	.....	1st floor .....	.....	
" 15	11.35 p.m.	Still.....	519 East 14th street.....	I ..	I ..	I ..	I ..	I ..	6	Brick .....	25 x 70	Mrs. Teolin .....	Dwelling .....	.....	4th floor.....	.....	
" 16	6.10 p.m.	638.....	.....	I ..	I ..	I ..	I ..	I ..	.....	.....	.....	.....	.....	.....	.....	.....	
" 16	7.05 p.m.	Still.....	312 West 25th street .....	I ..	I ..	I ..	I ..	I ..	3	Brick .....	20 x 50	Mrs. M. Sariews....	Dwelling .....	.....	2d floor.....	.....	
" 16	10.22½ p.m.	459.....	61 West 33d street .....	I ..	I ..	I ..	I ..	I ..	2	Frame, brick ft.....	20 x 70	P. Hand.....	Dwelling .....	.....	1st floor.....	.....	
" 16	9.29 a.m.	.....	Ambulance call.....	I ..	I ..	I ..	I ..	I ..	.....	.....	.....	.....	.....	.....	.....	.....	
" 16	6.10 a.m.	245.....	125 Ridge street .....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 60	Jane Kramer .....	Dealer in dry goods.....	.....	1st floor .....	.....	
" 16	9.11 a.m.	181.....	Foot of Canal street, North river	I ..	I ..	I ..	I ..	I ..	.....	Scow No. 24.....	.....	Street Clean'g Bureau	Transport .....	.....	Cabin.....	.....	
" 16	12.23 p.m.	185.....	539 Broadway.....	I ..	I ..	I ..	I ..	I ..	5	Brick, iron front..	50 x 210	Hellman & Herrman.	Dealers in furnish'g goods	.....	Basement.....	.....	
" 16	3.05 p.m.	Still.....	16 Forsyth street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 70	Mary Polonsky.....	Dwelling .....	.....	2d floor.....	.....	
" 16	6.45½ p.m.	55.....	176 William street .....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 75	A. H. Reittenger & Co.	Dealers in leather.....	.....	Cellar.....	.....	
" 16	9.10 p.m.	Still.....	548 Third avenue.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 50	W. Pleodington & Son	Oyster saloon .....	.....	1st floor .....	.....	
" 17	12.29 p.m.	Still.....	Railroad ave. and 135th street ..	I ..	I ..	I ..	I ..	I ..	.....	Freight car.....	.....	Hudson River R.R.Co	Freight car.....	.....	In car.....	.....	
" 18	4.00½ a.m.	{ Circuit 5..... } { Aug. Signal 6. }	.....	I ..	I ..	I ..	I ..	I ..	.....	.....	.....	.....	.....	.....	.....	.....	
" 18	9.13 a.m.	377.....	.....	I ..	I ..	I ..	I ..	I ..	.....	.....	.....	.....	.....	.....	.....	.....	
" 19	12.15 a.m.	Still.....	877 Sixth avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 65	J. P. Ryan.....	Dealer in paints.....	.....	Basement.....	.....	
" 19	8.12 a.m.	Still.....	47 Nassau street.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 60	Walter A. Phelan ...	Gents' furnishing goods...	.....	1st floor.....	.....	
" 19	10.52 a.m.	352.....	96 Ninth avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 60	Thos. Montgomery...	Dwelling .....	.....	5th floor.....	.....	
" 19	5.40 p.m.	241.....	111 to 117 East Houston street..	I ..	I ..	I ..	I ..	I ..	6	Brick .....	100 x 60	L. H. Mace & Co....	Mfrs. of woodenware.....	.....	Cellar.....	.....	
" 19	6.17 p.m.	Still.....	212 East 63d street.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 60	Thos. Maloney.....	Dwelling .....	.....	2d floor.....	.....	
" 20	8.04 p.m.	64.....	18 to 22 Barclay street.....	I ..	I ..	I ..	I ..	I ..	2	Brick, stone front.	75 x 100	St. Peter's Church ...	Place of worship.....	.....	Cellar.....	.....	
" 20	9.10 p.m.	188.....	78 Eldridge street (rear).....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	25 x 25	{ Solomon Monheim } { and others..... }	Dwelling .....	.....	3d floor.....	.....	
" 21	2.45 p.m.	Still.....	101 Greenwich avenue.....	I ..	I ..	I ..	I ..	I ..	3	Frame .....	18 x 25	Unoccupied.....	.....	.....	2d floor.....	.....	
" 21	7.35 p.m.	{ 417, 2d and 3d } { alarms..... }	158 and 160 West 27th street....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	50 x 100	Davis, Ingersoll & Co.	Furniture manufacturers.	.....	Basement.....	.....	
" 22	12.17 p.m.	Still.....	183 East 117th street.....	I ..	I ..	I ..	I ..	I ..	4	Brick .....	25 x 50	Elizabeth Cronin...	Dwelling .....	.....	2d floor.....	.....	
" 22	4.04 p.m.	526.....	429 Lexington avenue.....	I ..	I ..	I ..	I ..	I ..	3	Brick, br. stone ft	20 x 50	Dr. J. C. Draper....	Dwelling .....	.....	2d floor.....	.....	
" 23	10.20 a.m.	Still.....	394 East Houston street.....	I ..	I ..	I ..	I ..	I ..	3	Brick .....	20 x 50	Unoccupied.....	.....	.....	2d floor.....	.....	
" 23	2.10 p.m.	Still.....	102 Cedar street .....	I ..	I ..	I ..	I ..	I ..	6	Brick .....	25 x 50	Lawrence Moran....	Dwelling .....	.....	4th floor.....	.....	
" 23	4.15 p.m.	Still.....	1274 Third avenue.....	I ..	I ..	I ..	I ..	I ..	5	Brick .....	20 x 40	Morris Cohen.....	Dwelling .....	.....	2d floor.....	.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	How EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$18,300	\$400	\$18,700	Engine 39	Engine 39	Fisher, Reilly { Bates, Shay, Fisher, Reilly, Rhodes, Bresnan..... }	5, 8, 16, 21, 22, 23, 26, 34, 39, 40..... }	2, 4, 13, 16	5.00	1	1	1	Carelessness.....		{ Caused by smoke from defective flue, No. 423 West 51st street.
20	75	95						10	1			Explosion of gas.....		
100	250	350	Engine 1	Engine 1	Bates, Campbell.....	1.....	12.....	10	1	1	1	Not ascertained.....		
40		40	H. & L. 2	Engine 8	Reilly, Fisher.....	8.....	2, 4.....	15	1	1	1	Sparks from furnace.....	{ Asst Engineer of Steamer Peter J. McLarney, Engine Co. No. 24, fingers slightly injured.... }	
200	366	566	Engine 6	Engine 6	Bates, Rowe, Bonner.....	6.....	1, 10.....	1.00	1	1	1	Spontaneous combustion.....		
50		50	Engine 18	Engine 18	{ Bates, Campbell, Foreman Spence..... }	18.....	5.....	10	1	1	1	Carelessness.....		
20		20			Rowe.....		10.....	15	1			Carelessness.....		
500	5,220	5,720	Engine 4	Engine 4	Bates, Miller.....	4.....	1, 10.....	2.30	1	1	1	Carelessness.....		
	25	25				9.....		03	1			Carelessness.....		
50	400	450	Engine 9	Engine 9		9.....	6.....	03	1	1	1	Kerosene lamp falling.....	Mrs. Ehlers overcome with heat	
						12.....		10	1			Foul chimney.....		
							7.....	15	1			Foul chimney.....		
20	25	45				17.....		15	1			Sparks from stove.....		
300	11,000	11,300	Engine 32	Engine 32	Bates, Bonner, Rowe.....	4, 12, 32.....	1, 10.....	1.00	1	1	1	Not ascertained.....		
200	3,300	3,500	Engine 8	Engine 8	{ Bates, Reilly, Fisher, Orr, Wilhelm..... }	8, 21, 23, 39.....	2, 4, 7, 13.	04	1	1	1	{ Heat from boiler igniting woodwork..... }	{ Fireman Henry T. McBride, Engine Co. No. 23, knee in- jured; Fireman John D. Ban- ter, H. & L. Co. No. 13, leg severely injured..... }	
25		25	Engine 4	Engine 4	Bonner, Rowe.....	4.....		35	1	1	1	Carelessness.....		
10		10			Fisher, Reilly.....	8.....	2.....	10	1			Sulphur igniting.....		
								05	1			Kerosene lamp upsetting.....		
40		40					4.....	15	1			Defective heater-pipe.....		
					Bates, Miller, Bresnan.....	17.....		05	1			Escaped gas igniting.....		
						27.....		10	1			Foul chimney.....		
						8.....		10	1			Kerosene lamp exploding.....		
10		10				9.....		05	1			Heat from stove.....		
						1.....		01/2	1			Sparks from chimney.....		
					Bonner, Rowe.....		1.....	15	1			Pot of tar boiling over.....		
						27.....		10	1			{ Soot in fire-place igniting, setting fire to fire-board }		
								05	1			Carelessness.....		
25	25	25			Bates, Miller, Bonner.....			03	1			Not ascertained.....		
50	50	50			Bates, Bresnan, Miller.....			15	1			Gas-light igniting woodwork.		
30	25	55			Bates, Reilly.....		12.....	15	1			Defective chimney.....		
800	4,750	5,550	Engine 7	Engine 7	Bates, Bonner, Rowe.....	7, 12, 31.....	1, 8.....	1.30	1	1	1	Spontaneous combustion.....		
50	900	950	H. & L. 12	Engine 19	Bates, Campbell, Reilly.....	1, 3, 19.....	5, 12.....	15	1	1	1	{ Soot in chimney igniting fire-board..... }	{ Fireman Lawrence Reynolds, Engine Co. No. 3, hand slightly cut by broken glass..... }	
	30	30	Engine 2	Engine 2	Reilly, Fisher.....	2.....	4.....	50	1	1	1	Heat from charcoal fire.....		
						5.....		15	1			Foul chimney.....		
					Wilhelm.....							Not ascertained.....		
	10	10				19.....		02	1			Kerosene lamp exploding.....		
450	2,880	3,330	Engine 1	Engine 1	Fisher, Orr, Campbell.....	1, 26, 34.....	4, 7.....	1.45	1	1	1	Overheated stove.....		{ Sent out to convey Charles McGrain to hospital. Leg broken by kick from horse.
	50	50			Bates, Miller, Bresnan.....			11.....	05	1		Carelessness.....		
150		150	Engine 30	Engine 30	{ Bates, Foreman Spence, Campbell..... }	24, 30.....	8.....	04	1	1	1	{ Clothing taking fire from stove..... }	{ Fireman Thos. J. Cortissos, Engine Co. No. 36, hand slightly injured..... }	
25		25			{ Bates, Shay, Spence, Campbell..... }			05	1			Escaped gas igniting.....		
	100	100					6.....	05	1			Kerosene lamp explosion.....		
200	28,000	28,200	Engine 7	Engine 7	Bates, Bonner, Rowe.....	7, 12.....	1, 10.....	1.00	1	1	1	Not ascertained.....		
						21.....		05	1			Foul chimney.....		
	80	80					17.....	35	1			Sparks from locomotive.....		
					Bates, Campbell, Reilly.....							Not ascertained.....		
								05	1			Spontaneous combustion.....		
	25	25						02	1			Carelessness.....		
					Bates, Campbell, Reilly.....	3.....		10	1			Foul chimney.....		
500	3,000	3,500	Engine 25	Engine 25	Bates, Shay, Bresnan, Miller.....	11, 17, 20, 25, 33.....	3, 9.....	3.10	1	1	1	Sparks from furnace.....	{ Fireman Daniel Lawler, En- gine Co. No. 33, slightly cut from broken glass..... }	
						39.....		20	1			Foul chimney.....		
					Shay, Bonner, Foreman Spence			10.....	30	1	1	Carelessness.....		
	200	200			Bates, Miller, Bresnan.....	17.....		03	1			{ Children playing with matches..... }		
						18.....		30	1			Foul chimney.....		
650	2,895	3,545	Engine 1	Engine 1	{ Bates, Shay, Reilly, Fisher, Bresnan, Miller, Foreman Spence..... }	1, 3, 16, 18, 19, 26.....	{ 4, 3, 5, 7, 12 }	1.30	1	1	1	Sparks from furnace.....		
						35.....		35	1			Foul chimney.....		
					Fisher.....		2.....	20	1			Foul chimney.....		
						11.....		05	1			Workmen burning shavings.		
						6.....		10	1			Overheated stove.....		
							13.....	04	1			Pan of fat boiling over.....		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.								
					Fire. Indication of Fire. Unnecessary.	Verbal.	Box Sign Is.	Special Signals.					Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.				
1881.																				
Feb. 23	8.08 p.m.	Still	Pier 42, North river.	1		1					1	Scow No. 24.	{ Street Cleaning Bu- reau.	Transport	On deck.					
" 23	11.34 p.m.	142	127 Hudson street.	1		1		1			3	Brick	25 x 100	C. H. Evans	Brewery.	1st floor.				
" 24	12.52 a.m.	287	89 Sixth avenue	1		1		1			6	Brick	25 x 60	G. Muller.	Bakery	Basement.				
" 24	9.08 a.m.	558	220 West 53d street	1		1			1		4	Brick, br. stone ft.	25 x 50	Various families.	Dwelling	Basement.				
" 24	9.55 a.m.	Still	238 West 19th street.	1		1			1		5	Brick.	16 x 50	Patrick Garrety.	Dwelling	Cellar				
" 24	11.09 a.m.	Still	5 Lispenard street.	1		1				1	3	Brick.	18 x 60	French & Co.	Manufacturers neck-wear.	3d floor.				
" 24	12.52 p.m.	74	79 Chambers street.	1		1			1		6	Brick, br. stone ft.	25 x 75	Wm. H. Quinn & Co.	Mfrs. clothes ringers.	1st floor				
" 24	8.05 p.m.	Still	54 Chrystie street.	1		1				1	6	Brick.	25 x 50	J. E. Wertburg	Dwelling	1st floor				
" 24	10.40 p.m.	657	1611 Second avenue	1		1			1		4	Brick.	28 x 60	Moses Newman	Dealer in picture frames.	1st floor				
" 25	2.46 a.m.	123	47 Mercer street.	1		1			1		4	Brick.	25 x 80	J. Weatherim.	Manufacturer cigars.	4th floor				
" 25	5.04 a.m.	47	7 Platt street	1		1			1		4	Brick.	25 x 70	J. F. Butler.	Carriage manufacturer	3d floor.	4th floor.			
" 25	4.51½ a.m.	{ Special call, Engines 7, 12, 3.	13 Front street.	1		1			1		5	Brick.	25 x 100	Pierce & Baldwin.	Dealers in flour.	2d floor.	All floors.			
" 25	5.02½ a.m.	547	906 Second avenue	1		1			1		4	Brick.	25 x 60	Young & Ling	Laundry.	1st floor				
" 25	5.30 a.m.	547	908 Second avenue	1		1			1		4	Brick.	25 x 60	Jacob Crarolin.	Lager beer saloon.	1st floor				
" 25	10.04 a.m.	475	236 West 41st street.	1		1			1		3	Brick.	20 x 40	Henry Hirnen.	Dwelling	2d floor.				
" 25	10.09 p.m.	558 and 2d alarm.	1673 Broadway	1		1			1		5	Brick.	25 x 100	James A. Gonig.	Veterinary surgeon.	1st floor				
" 25	11.04 p.m.	Still	80 Wooster street.	1		1				1	3	Brick.	25 x 35	Silverman & Nathan	Dwelling	3d floor.				
" 26	2.24 a.m.	443	43 East 33d street	1		1			1		4	Brick.	25 x 60	A. M. Hamilton.	Dwelling	3d floor.				
" 26	6.04 a.m.	159	Pier 53, East river	1		1			1		1	Frame.	10 x 15	Hexter & Co	Offices.	1st floor				
" 26	7.28 a.m.	653	N. W. cor. 84th st. and 9th ave.	1		1			1		3	Frame.	25 x 50	John Pullson.	Dwelling	1st floor				
" 26	10.20 a.m.	Still	26 Prince street.	1		1				1	5	Brick.	25 x 60	John Jennings.	Dwelling	3d floor.				
" 26	1.41 p.m.	265	635 Broadway	1		1				1	5	Brick, marble ft.	25 x 100	Delluc & Co.	Druggists.	Cellar.				
" 26	2.45 p.m.	168	224 and 226 Centre street.	1		1			1		5	Brick, br. stone ft.	70 x 100	Unoccupied.		Sub-cellar	Cellar.			
" 26	6.30 p.m.	Still	53 Leonard street.	1		1				1	6	Brick, br. stone ft.	25 x 100	Minot, Hooper & Co.	Dealers in dry goods.	2d floor.				
" 26	9.30 p.m.	Still		1		1				1										
" 27	5.46 a.m.	65	239 Broadway	1		1				1	7	Brick, iron front.	25 x 100	{ American District { Telegraph Co.	Office, etc.	1st floor	2d floor.			
" 27	8.39 a.m.	3 and 2d alarm.	35 Water street.	1		1		1			4½	Brick.	25 x 100	G. W. Kidd.	Dealer in liquors.	3d floor.	Attic			
" 27	9.40 a.m.	Still	236 West 10th street.	1		1				1	2	Frame	20 x 40	Frank E. Hallock.	Dwelling	1st floor				
" 27	3.38 p.m.	182	251 Hudson street.	1		1			1		4	Brick	20 x 40	Isaac Marks.	Hat and cap manufacturer	1st floor				
" 27	5.40 p.m.	Still	{ Tenth avenue, bet. 155th and { 156th streets.	1		1				1	2	Frame	12 x 25	Isaac Isaacs.	Dwelling.	1st floor				
" 27	7.27 p.m.	Still	449 West 42d street.	1		1				1	4	Brick	25 x 50	Carson Ruggenkamp.	Grocery store.	1st floor				
" 28	3.58 a.m.	518		1		1			1											
" 28	5.33 p.m.	Still	208 Front street	1		1				1	4½	Brick	25 x 50	Various families	Dwelling	Attic				
" 28	5.38½ p.m.	5		1		1			1											
" 28	7.54 p.m.	139	253 South street.	1		1			1		4	Brick.	25 x 75	A. Rozenzweig.	Manufacturer tin cans.	3d floor.				
" 28	10.05 p.m.	387 and 2d alarm.	394 and 396 First avenue.	1		1			1		4	Brick	50 x 82	Standard Twine Co	Manufactory	3d floor.	4th floor.			
Mar. 1	12.18 a.m.	37	99 Maiden lane.	1		1			1		4½	Brick	20 x 60	E. A. Ramirez	Cigar manufacturer.	4th floor.	Attic			
" 1	4.45 p.m.	Still	127 Henry street.	1		1				1	3½	Brick.	25 x 40	John Bernihan	Dwelling	Basement				
" 1	11.15 p.m.	Still	1237 Broadway	1		1			1		2	Brick	25 x 125	John H. McCaull	Theatre	Basement				
" 2	1.04 a.m.	189	40 Spring street.	1		1			1		5	Brick	25 x 60	John Young	Mfr. blacking boxes.	Cellar				
" 2	7.30 p.m.	Still	2380 Second avenue	1		1				1		Awning		Fred. Heimers.	Dwelling, etc.	Awning				
" 2	9.34 a.m.	Still	52 West 44th street	1		1				1	4	Brick	16 x 50	Margaret Clancy	Dwelling	4th floor				
" 2	1.31 p.m.	472	555 West 42d street.	1		1			1		4	Brick	25 x 60	James Donnelly.	Dwelling	2d floor.				
" 2	5.48 p.m.	178	307 Monroe street.	1		1			1		4	Brick	25 x 30	B. Doyle	Dwelling	1st floor				
" 2	6.37½ p.m.	238	601 Broadway	1		1			1		5	Brick, br. stone ft.	25 x 100	S. C. Cohn & Co.	Dealers in laces, etc.	2d floor.				
" 2	9.27 p.m.	129	83 Bayard street	1		1			1		5	Brick	25 x 75	J. Solomon.	Dwelling	3d floor.				
" 3	12.20 a.m.	Still	177 Broome street.	1		1			1		3	Brick	25 x 30	Lewis Mas.	Bakery.	Basement.				
" 3	2.30 p.m.	21	53 West street.	1		1			1		5	Brick	25 x 90	Geo. W. Connell.	Storage for cotton.	1st floor.				
" 3	8.40 p.m.	Still	106 and 108 Leonard street	1		1				1	3½	Brick	50 x 50	Merchants' Club.	Club-house.	Yard				
" 3	9.55½ p.m.	172	69 Ludlow street.	1		1			1		3	Brick	25 x 90	S. Seligman.	Mfr. picture frames	Cellar				
" 4	1.41 a.m.	27	140 and 142 Pearl street	1		1			1		5	Brick, iron front.	50 x 200	Standard Oil Co.	Offices, etc.	1st floor	2d floor			
" 4	7.03½ a.m.	283	1 Fifth avenue	1		1				1	4	Brick	50 x 75	Wm. B. Duncan	Dwelling	2d floor.				
" 4	7.51 a.m.	538		1		1			1											
" 4	3.03 p.m.	{ Special call, H. { & L. 10, Sta- { tion 3.	13 Front street.	1		1														
" 5	4.31 a.m.	261	16 Downing street	1		1			1		5	Brick	20 x 40	Wm. Teuton	Dwelling	1st floor.				
" 5	6.25 a.m.	264	221 Greene street.	1		1			1		4	Brick	25 x 25	A. G. Paine.	Cigar store	1st floor				
" 5	3.50 p.m.	366	427 East 17th street.	1		1			1		5	Brick	25 x 65	Andrew Meldon.	Dwelling	4th floor.				
" 5	5.39 p.m.	376	207 S.venth avenue.	1		1			1		4	Brick	25 x 60	D. Mehan.	Dwelling	2d floor.				
" 5	8.03 p.m.	328	646 and 650 East 12th street.	1		1			1		1	Brick	75 x 75	B. Starback.	Iron and brass foundry.	1st floor.				
" 6	8.30 a.m.	Still	159 East 39th street.	1		1				1	4	Brick	25 x 40	Margaret Holloran.	Dwelling	Basement.				
" 6	3.06 p.m.	Still				1				1										
" 6	5.02 p.m.	Still				1				1										
" 6	5.49 p.m.	634	20 East 69th street.	1		1			1		4	Brick, br. stone ft.	25 x 60	Lyman Tilden.	Dwelling	1st floor.				
" 6	7.52 p.m.	23	78 and 80 Broadway.	1		1			1		5	Brick, marble ft.	50 x 100	Various parties.	Dwelling	Cellar.				
" 6	8.53 p.m.	79	97 Oliver street.	1		1			1		3½	Brick	25 x 75	H. Hoyer	Tailoring establishment.	1st floor.				
" 7	8.40 p.m.	Still	896 Third avenue.	1		1				1	5	Brick	25 x 60	Frank Artman.	Dwelling	3d floor.				

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
					Foreman Spence.....	27.....	8.....	H. M. .20	1			Not ascertained.....		
\$20		\$20	Engine 27	Engine 27	Bates, Bonner, Foreman Spence	27.....	8.....	.25	1			Hot coals from stove.....		
					{ Bates, Campbell, Foreman } Spence.....	18.....		.15	1			Foul chimney.....		
30		30	Engine 23	Engine 23	Reilly, Fisher.....	23.....	4.....	.20	1			Carelessness.....		
									1			Sparks from chimney.....		
								.01	1			Overheated stove.....		
					Bates, Rowe, Foreman Spence		1, 10.....	.15	1			Kerosene lamp falling.....		
								.05	1			Carelessness.....		
450	\$900	1,350	Engine 22	Engine 22	Orr.....	22, Ch. 9.....	13.....	1.30	1			Overheated stove.....		
50	1,820	1,870	Engine 20	Engine 13	{ Bates, Shay, Campbell, } Foreman Spence.....	13.....	8, 9.....	.30	1			Not ascertained.....		
800	6,825	7,625	Engine 32	Engine 32	Bates, Rowe, Miller.....	4, 6, 29, 32.....	1, 10.....	3.05	1			Carelessness.....		
7,000	29,814	36,814	Engine 7	Engine 7	{ Bates, Shay, Rowe, Miller, } Bresnan, Campbell, Fore- man Spence.....	4, 6, 7, 9, 10, 12, 20, } 27, 29, 31, 32.....	1, 5, 6, 8, } 9, 11, } 12.....	15.25	1			Not ascertained.....	{ Private Jenaro Blazina, Engine Co. No. 7, eyelid slightly burned.....	
10		10			Fisher, Reilly.....		2.....	.10	1			Escaped gas igniting.....		
30		30	H. & L. 2	Engine 8	Fisher, Reilly.....	8.....	2.....	.20	1			Escaped gas igniting.....	{ Jacob Crarolin, hands and face burned.....	
					Reilly, Fisher.....		4.....	.10	1			Foul chimney.....		
1,500	2,600	4,100	Engine 23	Engine 23	Bates, Reilly, Orr, Wilhelm ..	8, 23, 26, 40.....	2, 4, 7.....	1.25	1			Escaped gas igniting.....		
						13.....		.03	1			Carelessness.....		
20	175	195			Reilly.....			.03	1			{ Window curtain igniting } { from gas-light.....		
25		25	Engine 15	Engine 15	Bates, Miller, Bresnan ..	15.....	6.....	.10	1			Heat from stove.....		
100		100	H. & L. 16	Engine 22	Orr.....	22.....	13, 16.....	1.05	1			Defective chimney.....		
50	150	200					9.....	.25	1			Soot igniting in chimney.....		
10		10			Bates, Shay, Campbell, Bresnan		9.....	.15	1			{ Defective arrangement of } { furnace.....		
100		100	Engine 20	Engine 20	Bates, Bonner, Miller ..	20, 31.....	8, 9.....	.35	1			Heat from furnace.....		
								.10	1			Foul chimney.....		{ Caused from smoke issuing from premises 190 and 192 Bowery.
1,000	300	1,300	Engine 7	Engine 7	Bates, Bonner, Rowe.....	7, 12, 29.....	1, 10.....	1.30	1			Carelessness.....		
500	1,500	2,000	Engine 10	Engine 10	{ Bates, Shay, Bonner, Miller, } Rowe, Foreman Spence ..	4, 6, 7, 10, 12, 29, 31, 32	1, 6, 8, 10	2.30	1			{ Defective arrangement of } { boiler.....		
10		10					5.....	.05	1			Sparks from stove.....		
150	500	650	Engine 30	Engine 30	{ Bates, Foreman Spence, } Campbell.....	30.....	8.....	.30	1			Not ascertained.....		
							15.....	.05	1			Carelessness.....		
75	150	225			Fisher, Reilly.....	2.....		.30	1			Carelessness.....		{ Caused by smoke issuing from premises 122 West 45th street.
					Reilly, Fisher.....			.05	1			Carelessness.....		
					Bates, Rowe.....				1			Carelessness.....		{ Caused by smoke issuing from premises 8 West street.
10	1,342	1,352	Engine 9	Engine 9	Bates, Miller, Bonner ..	9, 15, 17.....	1, 6.....	.30	1			Defective flue.....		
250	4,600	4,850	Engine 16	Engine 16	Bates, Fisher, Reilly, Bresnan	5, 14, 16, 28.....	3, 7, 11.....	1.00	1			Not ascertained.....		
500	650	1,150	Engine 4	Engine 32	Bates, Rowe, Bonner.....	4, 6, 32.....	1, 10.....	1.25	1			Carelessness.....		
						9.....		.07	1			Foul chimney.....		
						8.....		.01	1			Carelessness.....		
			Engine 20	Engine 20	Shay, Bresnan, Miller.....	20.....	6, 9.....	.15	1			Carelessness.....	{ Foreman Thos. Leonard, H. & L. 9, slightly injured by a fall through hatchway.....	
	5	5						.05	1			Sparks from Elevated R.R.....		
20	40	60				2.....		.15	1			Overheated stove.....		
	10	10			Reilly, Fisher.....	2.....		.05	1			{ Children playing with } { matches.....		
					Bates, Bresnan.....			.05	1			Carelessness with matches..		
10	1,131	1,141			{ Bates, Foreman Spence, } Campbell.....		9.....	.10	1			Stove upsetting.....		
50	100	150	Engine 31	Engine 12	Bates, Bonner.....	12.....	6.....	.20	1			Kerosene lamp exploding ..		
10		10				17.....		.10	1			Gas-light igniting woodwork		
			Engine 6	Engine 6	Bates, Rowe.....	6.....	10.....	.20	1			{ Sparks produced by } { workmen striking cot- } { ton-hook against hoop } { on bale cotton.....		
						31.....		.05	1			Carelessness.....		
50	1,450	1,500	Engine 17	Engine 17	Bates, Miller, Bresnan.....	15, 17.....	6, 9.....	.20	1			Gas-light igniting woodwork		
1,000	900	1,900	Engine 4	Engine 4	Bates, Rowe, Miller ..	4, 32.....	1, 10.....	1.45	1			Carelessness.....	{ Fireman Geo. Gosler, Engine Co. No. 4, slightly injured...	
100	200	300	Engine 33	Engine 33	{ Bates, Campbell, Foreman } Spence.....	33.....	3, 5.....	.20	1			Defective grate.....		
					Reilly, Fisher.....							Carelessness.....		{ Caused by back-draught of chimney, No. 683 Broadway. Sent out for purpose of pulling down walls, etc., at ruins, 13 Front street.
					Bates, Rowe.....				1			Kerosene lamp upsetting...		
					{ Bates, Foreman Spence, } Campbell.....			.10	1			Careless use of matches....		
300	200	500	Engine 33	Engine 33	Bates, Bresnan, Campbell.....	33.....	3.....	.30	1			Carelessness.....		
110	30	140			Bates, Bresnan, Fisher.....		3.....	.20	1			Carelessness.....		
	15	15			Bates, Campbell, Fisher.....		12.....	.05	1			{ Window curtain taking fire } { from gas.....	{ Fireman Jas. J. McGrath, Jr., Engine Co. No. 14, slightly injured. Foreman M. D. Tompkins, Firemen Thomas Kearney, John McClane, Thomas Larkin, Simon Hexter, H. & L. 11, slightly injured.....	
200	2,100	2,300	Engine 28	Engine 28	Bates, Bresnan, Miller.....	5, 11, 28.....	3, 11.....	2.00	1			Friction of machinery.....		
						21.....		.10	1			Foul chimney.....		
					Rowe.....							Not ascertained.....		
250	1,187	1,437	Engine 39	Engine 39	Orr, Wilhelm, Fisher.....	39.....	2.....	.10	1			Carelessness.....		{ Caused by smoke issuing from premises No. 59 Vesey street.
					{ Shay, Bonner, Foreman } Spence.....			.10	1			Carelessness.....		
200	1,200	1,400	Engine 12	Engine 12	Shay, Bonner, Miller.....	12.....	1, 6.....	.45	1			{ Soot in chimney igniting, } { setting fire to goods... } { Children playing with } { matches.....		
							7.....	.03	1					

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.		
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.					Number of Stories.					Material Built of.	Area.
					Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.							
1881.																					
Mar. 7	3.20 p.m.	Still	317 Bleecker street.	1		1								3	Brick	18 x 30	N. Laird.	Dwelling	2d floor.		
" 7	8.18 p.m.	319	34 West 13th street (rear)	1		1					1			5	Brick	25 x 40	David Sheehan.	Dwelling	5th floor.		
" 7	9.00 p.m.	Still	{ 26th and 27th streets, Madison } { and 4th avenues. }	1		1					1		1&2	Brick	200 x 400	M. Kuntz.	Pedestrian contest.	1st floor.			
" 7	9.15 p.m.	383	137 East 21st street.	1		1								5	Brick	20 x 60	S. B. Van Campon.	Dwelling	Basement.		
" 8	8.43 a.m.	169	97 Chrystie street.	1		1					1			5	Brick	25 x 60	S. Albert and others.	Dwelling	2d floor.		
" 8	9.01 a.m.	169	124 Hester street.	1		1							1	4	Brick	25 x 20	J. Adams.	Dwelling	3d floor.		
" 8	6.20 p.m.	583	849 Fifth avenue.	1		1					1		4½	Brick, br. stone ft.	25 x 70	Thos. Rutter.	Dwelling	3d floor.	4th floor.		
" 8	6.30 p.m.	Still	110 Essex street.	1		1					1		5	Brick	25 x 65	Eva Radloff.	Ladies' hair-dresser.	1st floor.			
" 8	8.03 p.m.	3 and 2d alarm	26 Front street.	1		1					1		5	Brick	25 x 75	E. B. Woolsey.	Dealer in flour.	2d floor.	3d floor.		
" 8	8.14 p.m.	895	4th ave., bet. 166th and 167th sts.	1		1					1		2½	Frame	25 x 30	Frank Siers.	Dwelling	Attic			
" 9	1.15 a.m.	379	218 Fifth avenue.	1		1					1		4	Brick, br. stone ft.	30 x 70	Mis L. Troup.	Dwelling	Roof			
" 9	6.15 p.m.	Still	316 Delancey street.	1		1					1		3	Frame, brick ft.	25 x 30	A. Dusenbury.	Dwelling	1st floor.			
" 10	1.18 a.m.	63	49 and 51 Park place.	1		1					1		5	Brick	56 x 80	Carhart & Bro.	Provision dealers.	Sub-cellar.			
" 10	8.35 a.m.	Still		1		1					1										
" 10	11.18 a.m.	441	1241 Broadway	1		1					1		2	Brick	100 x 100	Chas. D. Shepherd.	Liquor saloon	1st floor.			
" 10	2.25 p.m.	Still	404 West 26th street.	1		1						1	4	Brick	25 x 40	Kate Frost.	Dwelling	4th floor.			
" 10	3.27 p.m.	{ Circuit 3. } { Aut. Signal 7. }		1		1					1		1								
" 10	4.35 p.m.	Still	37 Nassau street.	1		1					1		5	Brick	25 x 80	Law Telegraph Co.	Offices, etc.	5th floor.			
" 10	4.47 p.m.	896	Boston ave., near 166th street.	1		1					1		3	Frame	50 x 50	Wm. Cauldwell.	Dwelling	3d floor.			
" 10	10.05 p.m.	Still	18 Ludlow street.	1		1						1	5	Brick	25 x 18	Pauline Solomon.	Dwelling	3d floor.			
" 11	8.10 a.m.	Still		1		1						1									
" 11	12.25 p.m.	388	516 East 20th street.	1		1					1		3	Brick	25 x 45	Hall & Sons.	Sash and blind mfrs.	1st floor.			
" 11	12.50 p.m.	Still	96 Eldridge street.	1		1						1	3	Brick	25 x 45	Christopher Bewer.	Dwelling	Basement.			
" 11	11.30 p.m.	Still	12th ave., bet. 128th and 129th sts.	1		1						1					Hudson R. R. Co.	Freight car.	In car.		
" 12	5.52 p.m.	74	100 Chambers street.	1		1					1		5	Brick	25 x 75	R. Rothhoby.	Dealer in shoes.	4th floor.			
" 12	10.56 p.m.	Still	43 Henry street (rear)	1		1						1	4	Brick	25 x 30	Rose Handly and ors.	Dwelling	1st floor.			
" 12	11.03 p.m.	193	63 Norfolk street.	1		1					1		4	Brick	25 x 50	{ Thomas Kumisky } { and others. }	Dwelling	2d floor			
" 13	4.50 p.m.	42		1		1					1										
" 13	7.15 p.m.	Still	50 North Moore street.	1		1					1		3	Brick	25 x 50	Christian Bros.	School, etc.	1st floor			
" 13	10.11 p.m.	96	138½ Cherry street.	1		1					1		2½	Frame	15 x 40	John Smith	Dwelling	Attic			
" 13	11.48 p.m.	Still	132 East 85th street.	1		1						1	4	Brick	25 x 100	Saml. Apolant.	Dwelling	3d floor			
" 14	1.23 a.m.	Still		1		1						1									
" 14	8.00 p.m.	Still	201 East 80th street.	1		1					1		2	Frame	25 x 50	C. Welsheimer	Dwelling	1st floor			
" 14	8.23 p.m.	475	300 West 40th street	1		1					1		5	Brick	25 x 30	Henry Gautz	Dwelling	4th floor.			
" 15	5.40 a.m.	Still	306 East 85th street	1		1						1	4	Brick	25 x 60	Julius Porges.	Dwelling	1st floor			
" 15	10.40 p.m.	771	136th street, near College avenue	1		1					1		1½	Frame	20 x 20	{ Robt. Stephenson } { & Sons }	Coal dealers	1st floor			
" 15	10.44 p.m.	151	45 Eldridge street	1		1					1		3½	Brick	22 x 30	J. Lewin & others.	Grocery and dwelling.	Basement.			
" 16	2.07 a.m.	377	50 West 24th street	1		1					1		5	Brick	20 x 60	Elizabeth Mitchel	Dwelling	5th floor.			
" 16	12.20 p.m.	163	In front of 12 Desbrosses street.	1		1					1										
" 16	7.25 p.m.	Still	23 Allen street.	1		1						1	5	Brick	25 x 60	Raphael Manazewitz.	Dwelling	4th floor.			
" 16	10.20 p.m.	Still	107 Liberty street.	1		1					1		5	Brick	25 x 100	E. E. Roberts	Machine shop.	Basement.			
" 17	6.01¼ a.m.	459	1299 to 1305 Broadway.	1		1					1		3&4	Brick	100 x 125	L. W. Parker.	Restaurant	2d floor			
" 17	12.10 p.m.	88	473 Pearl street.	1		1					1		3½	Brick	20 x 60	Charles Foster	Dealer in petroleum.	1st floor			
" 17	8.00 p.m.	Still	423 East 12th street	1		1						1	4	Brick	25 x 45	{ John Cunningham } { and others. }	Dwelling	2d floor.			
" 18	2.46 a.m.	74	102 Chambers street	1		1					1		5	Brick	25 x 200	William L. Hubbell	Manufactory of toys	4th floor.			
" 18	3.10 p.m.	144	23 Lispenard street	1		1					1		3	Brick	25 x 45	Lewis Appel	Restaurant	Basement.			
" 18	5.18 p.m.	Still	226 West 11th street	1		1						1	3	Brick	25 x 60	A. McCarthy.	Dwelling	2d floor.			
" 18	5.30 p.m.	Still	73 and 75 Wall street	1		1						1	3	Brick	35 x 15	T. Ryan	Liquor saloon.	Basement.			
" 18	8.23 p.m.	171	32 Ludlow street.	1		1					1		3	Frame, brick ft.	25 x 30	Israel Block	Dealer in tinware	1st floor			
" 18	8.40 p.m.	Still	646 Greenwich street	1		1					1	2½	Brick	25 x 40	James Miller	Dwelling	2d floor.				
" 18	9.00 p.m.	125 and 2d alarm.	392 Broadway	1		1					1		5	Brick, marble ft.	25 x 180	Bacon & Eaton.	{ Umbrella and parasol } { manufactory }	5th floor			
" 18	10.55 p.m.	Still	110 Broad street	1		1						1	4	Brick	25 x 75	Albert R. Gray.	Commission merchant.	2d floor.			
" 19	8.50 a.m.	Still	144 West 30th street	1		1					1		3½	Brick	25 x 50	Benj. Pelevison	Dwelling	3d floor.			
" 19	5.45 p.m.	Still	65 and 67 Nassau street	1		1					1		5	Brick	40 x 60	L. Santer.	Manufactory of jewelry.	3d floor			
" 19	7.20 p.m.	Still	172 Second street.	1		1						1	3½	Brick	25 x 40	Frank Marz	Dwelling	2d floor			
" 20	4.07 p.m.	447	440 Third avenue	1		1					1		4	Brick	25 x 25	Wolf Barnett	Dwelling	2d floor			
" 20	5.07 p.m.	Still	2171 Third avenue	1		1					1		1	Frame	25 x 60	George Keller	{ Dealer in smoked pro- } { visions }	1st floor			
" 20	7.30 p.m.	Still	263 East 4th street	1		1					1		3	Brick	20 x 60	Jacob Goodheim	Dwelling	2d floor			
" 20	10.21 p.m.	374	337 West 22d street	1		1					1		3½	Brick	30 x 60	G. W. White	Dwelling, etc.	Cellar			
" 21	6.45 p.m.	45	37 John street.	1		1					1		4	Brick	25 x 75	Robert Snider	Dealer in stationery.	2d floor.			
" 21	11.30 p.m.	Still	407 First avenue.	1		1					1		4	Brick	25 x 50	M. L. Hengo.	Groceries.	1st floor.			
" 22	8.15 a.m.	526	226 East 47th street	1		1					1		5	Brick	25 x 50	John Young	Dwelling	2d floor			
" 22	12.13 p.m.	152	129 Division street	1		1					1		3	Brick	25 x 40	Mrs. Madden.	Dwelling	3d floor.			
" 22	6.00 p.m.	Still	229 East 60th street.	1		1					1		3	Brick, br. stone ft.	20 x 50	Asher Frank.	Dwelling	2d floor.			
" 22	9.15 p.m.	Still	112 Greene street.	1		1					1		3	Brick	25 x 40	Elizabeth Maxwell.	Dwelling	2d floor.			
" 22	9.30 p.m.	{ Still and spe- } { cal call. }	17 and 19 East Broadway.	1		1					1		3½	Brick	50 x 25	Simon Burnett	Tailoring establishment.	Attic			
" 24	2.51 a.m.	546	803 Third avenue.	1		1					1		2	Brick	21 x 40	Geo. A. Haggerty.	Bell hanging, etc.	2d floor			
" 24	5.15 p.m.	Still	142 West 33d street.	1		1					1		3	Brick	25 x 25	Various families.	Dwelling	2d floor.			

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
								H. M.						
					Bates, Foreman Spence.		5	10	1			Lighted match falling in rubbish.		
					Fisher.			10	1			Kerosene lamp igniting window frame.		
								03	1			Carelessness.		
\$300	\$200	\$500	Engine 14	Engine 14	Bates, Bresnan, Fisher.	14, 16.	3, 7	45	1			Explosion, gas.		
	20	20			Bates, Miller, Bonner.		6	05	1			Child playing with matches.		
					Bates, Miller, Bonner.		6	10	1			Heat from stove.		
\$1,300	3,247	5,547	Engine 23	Engine 23	Fisher.	23, 39.	2, 13.	30	1			Carelessness.		
	100	100					17	10	1			Gas-light igniting curtain.		
500	2,500	3,000	Engine 10	Engine 10	{ Bates, Shay, Bonner, Rowe, } { Miller, Foreman Spence. }	4, 6, 10, 32.	1, 6, 8, 10	1-30	1			Carelessness.		
145	121	266	H. & L. 18	H. & L. 18	Rhodes.	47, 42.	18.	1-30	1			Defective flue.		
215		215	Engine 14	Engine 14	Bates, Fisher, Orr.	1, 14.	7, 12.	30	1			{ Supposed sparks from tel- } { egraph wires. }		
								05	1			Kerosene lamp exploding.		
200	250	450	H. & L. 10	Engine 29	Bates, Rowe, Bonner.	29.	1, 10.	35	1			Carelessness.		{ Smoke issuing from prem- } { ises 642 Greenwich st. }
					Orr, Fisher.	1.	7.	20	1			Spontaneous combustion.		
	10	10						05	1			Defective stove-pipe.		{ Heat from gas-light start- } { ing Automatic Signal, } { 185 and 187 Mercer st. }
								10	1			Foul chimney.		
600	246	846	Engine 42	Engine 42	Rhodes.	42.	18.	45	1			{ Window curtain taking } { fire from candle. }		
	25	25						05	1			Carelessness.		{ Back draught chimney, } { 152d street and Bergen } { avenue. }
			Engine 16	Engine 16	Bates, Bresnan.	5, 16.	3, 7.	30	1			{ Sparks from furnace ig- } { niting shavings. }		
								05	1			Foul chimney.		
5		5						05	1			Overheated stove.		
300	2,225	2,525	H. & L. 1	Engine 31	Bates, Rowe, Bonner.	7, 31.	1, 10.	35	1			Not ascertained.		
								08	1			Foul chimney.		
20	150	170			Bates, Miller, Bresnan.	17.	6.	10	1			Kerosene lamp exploding.		{ Smoke issuing from prem- } { ises 39 and 41 Cort- } { landt street. }
					Bates, Foreman Spence.									
								10	1			Carelessness.		
200	150	350	Engine 12	Engine 12	Bates, Bonner, Miller.	12.	1, 6.	1-00	1			Carelessness.		
50		50	Engine 22	Engine 22		22.	13.	30	1			Carelessness.		{ Smoke issuing from prem- } { ises 15 Catharine street. }
	40	40						05	1			{ Window curtain taking } { fire from gas-light. }		
					Orr, Fisher.			10	1			Kerosene lamp upsetting.		
40	200	240						15	1			Carelessness with matches.		
					Rhodes.			17.	1			Defective flue.		
150	410	560	H. & L. 6	Engine 9	Bates, Miller, Bonner.	9, Ch. 6.	6.	20	1			Not ascertained.		
280	900	1,180	Engine 1	Engine 1	Bates, Campbell, Orr.	1, 14.	3, 12.	30	1			{ Sparks from candle ignit- } { ing bedding. }		
	100	100	Engine 27	Engine 27	{ Bates, Foreman Spence, } { Campbell. }	27.	8.	40	1			Carelessness.		
								6.	15	1		Foul chimney.		
								05	1			Carelessness.		
1,250	1,223	2,473	Engine 26	Engine 26	Fisher.	1, 26, 34.	4, 7.	40	1			Sparks from furnace.		
150	800	950	Engine 12	Engine 12	Bates, Bonner, Rowe.	7, 12, 31.	1, 10.	1-00	1			{ Vapor from kerosene oil } { igniting. }		{ Ass't Engineer of Steamer John } { Lynch and Fireman John } { Duane, Engine Co. No. 12, } { slightly burned. }
								05	1			Child playing with matches.		{ Mrs. Cunningham's child re- } { moved in a suffocated con- } { dition. }
1,000	1,440	2,440	Engine 7	Engine 7	Bates, Rowe, Foreman Spence.	7, 12.	1, 10.	45	1			Not ascertained.		
	25	25			Bates, Rowe, Foreman Spence.		8.	15	1			{ Defective construction of } { building beams. }		
20		20						18.	1			Defective flue.		
								32.	1			Soot in chimney taking fire.		
10	85	95			Bates, Miller, Bonner.		6, 9.	10	1			Defective flue.		
								05	1			Varnish boiling over.		
1,000	10,637	11,637	Engine 31	Engine 31	{ Bates, Shay, Bonner, Fore- } { man Spence, Rowe, } { Campbell. }	7, 13, 31.	1, 8, 10.	1-45	1			Defective flue.		{ Fireman John H. Shute, H. & } { L. Co. No. 8, hand slightly } { injured. }
								02	1			Gas-light igniting woodwork.		
								01	1			Pot of fat boiling over.		
								10	1			Hot coals from grate.		
								25.	1			Foul chimney.		
5	75	80			Fisher, Orr.		7.	10	1			Carelessness.		
	40	40	Engine 35	Engine 35		35.		10	1			{ Meat in smoke-house } { taking fire. }		
50	300	350						11.	20	1		Carelessness.		
					Bates, Campbell, Orr.			12.	15	1		Escaped gas igniting.		
200	12,000	12,200	Engine 4	Engine 4	Bates, Bonner, Rowe.	4.	1, 10.	1-00	1			{ Soot in chimney igniting } { fire-board. }		
								02	1			Kerosene lamp upsetting.		
200	244	444	H. & L. 2	Engine 8	Fisher, Reilly.	8.	2, 7.	30	1			Child playing with matches.		
150	50	200	Engine 9	Ch. 6.	Bates, Bonner, Miller.	Ch. 6.	6.	35	1			{ Defective arrangement of } { stove-pipe. }		
	75	75						05	1			{ Window curtain lighting } { from gas-light. }		
			Engine 13	Engine 13		13.		05	1			Carelessness.		
150	150	300	Engine 9	Engine 9		9.	6.	25	1			Carelessness.		
270	2,342	2,612	H. & L. 2	Engine 8	Fisher, Reilly.	8, 21.	2.	50	1			{ Defective arrangement of } { furnace. }		
								05	1			{ Soot in chimney igniting } { fire-board. }		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.		Material Built of.	Area.							
					Fire.	Indication of Fire. Unnecessary. Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.			District Key Holders.	Citizen Key Holders.	Other Sources.				
1881.																			
Mar. 24	9.13 p.m.	829	{ Northeast corner Lind av- enue and Union street..... }	I	I	I	I	I	I	I	I	2	Frame.....	30 x 25	John Spellman.....	Stables.....	1st floor.....		
" 25	10.55 a.m.	Still	118 Madison street.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 50	Elizabeth Bergin.....	Dwelling.....	5th floor.....		
" 25	6.41 p.m.	63	28 Warren street.....	I	I	I	I	I	I	I	I	5	Brick, br. stone ft.	25 x 75	Gabriel & Levy.....	Continental Chromo Co..	2d floor.....		
" 25	7.24 p.m.	214	345 Hudson street.....	I	I	I	I	I	I	I	I	3	Brick.....	25 x 45	R. Flynn.....	Dry goods.....	1st floor.....		
" 26	10.09 a.m.	717	135 Cannon street.....	I	I	I	I	I	I	I	I	5	Brick.....	22 x 50	Jacob Spiess.....	Dwelling.....	2d floor.....		
" 26	12.20 p.m.	Still	984 Second avenue.....	I	I	I	I	I	I	I	I	4	Brick, br. stone ft.	25 x 50	Charles Luzirs.....	Drug store.....	1st floor.....		
" 26	7.30 a.m.	Still	343 East 78th street.....	I	I	I	I	I	I	I	I	4	Brick.....	25 x 60	Mary Finnegan.....	Dwelling.....	4th floor.....		
" 26	1.00 p.m.	Still	14 Bethune street.....	I	I	I	I	I	I	I	I	3	Brick.....	25 x 50	Mrs. C. Lawson.....	Dwelling.....	3d floor.....		
" 26	6.54 p.m.	Still	128 Sixth avenue.....	I	I	I	I	I	I	I	I	2 1/2	Brick.....	20 x 40	Valentine Stutzwan ..	Dwelling.....	Roof.....		
" 26	9.00 p.m.	Still	300 East 33d street.....	I	I	I	I	I	I	I	I	4	Brick.....	25 x 45	Isabelle Paine.....	Dwelling.....	3d floor.....		
" 27	2.46 a.m.	Still	60 Fulton street.....	I	I	I	I	I	I	I	I	6	Brick.....	25 x 60	Eickstein & Hoffman.....	Lithographers.....	6th floor.....		
" 27	3.31 a.m.	46	270 Stanton street.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 50	Peter Otten.....	Grocery store.....	1st floor.....		
" 27	9.10 a.m.	Still	860 Third avenue.....	I	I	I	I	I	I	I	I	4	Brick.....	25 x 50	Fred. Kemster.....	Dwelling.....	4th floor.....		
" 27	10.03 a.m.	Still	58th st., Broadway and 7th ave.	I	I	I	I	I	I	I	I	2	Frame.....	15 x 20	Lewis Miller.....	Dwelling.....	2d floor.....		
" 27	10.11 a.m.	Still	216 West street.....	I	I	I	I	I	I	I	I	2	Frame.....	20 x 30	B. Ryerson.....	Real estate office.....	Roof.....		
" 27	6.32 p.m.	767	2331 Third avenue.....	I	I	I	I	I	I	I	I	2 1/2	Frame.....	20 x 30	Thomas McFarlan...	Dwelling.....	Attic.....		
" 27	10.37 p.m.	929	Wash'n ave., 174th and 175th sts.	I	I	I	I	I	I	I	I	2 1/2	Frame.....	20 x 30	{ Old Dominion S. S. } { Line..... }	Storage.....	Dock.....		
" 27	9.44 a.m.	141	Pier 37, North river.....	I	I	I	I	I	I	I	I	4	Brick.....	50 x 30	Various families.....	Dwelling.....	3d floor.....		
" 28	9.44 a.m.	141	123 Liberty street.....	I	I	I	I	I	I	I	I	1	Frame.....	18 x 25	John Wilson.....	Dwelling.....	Roof.....		
" 28	12.50 p.m.	Still	142d st., Alexander & Willis aves.	I	I	I	I	I	I	I	I	3	Brick.....	20 x 40	Lawrence McCormick.....	Dwelling.....	Basement.....		
" 28	6.00 p.m.	Still	949 Second avenue.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 50	Richard Lyon.....	Dwelling.....	Cellar.....		
" 28	6.44 p.m.	Still	140 West 30th street.....	I	I	I	I	I	I	I	I	4 1/2	Brick.....	25 x 60	William E. Trell.....	Salesroom.....	1st floor.....		
" 28	7.20 p.m.	Still	18 East 14th street.....	I	I	I	I	I	I	I	I	2	Frame.....	25 x 40	William H. Neilson ..	Stable.....	2d floor.....		
" 28	9.29 p.m.	339	N. W. cor. Avenue B and 84th st.	I	I	I	I	I	I	I	I	4	Brick.....	25 x 50	Charles T. Kindland.	Dwelling.....	1st floor.....		
" 28	9.35 p.m.	658	209 East 28th street.....	I	I	I	I	I	I	I	I	3	Brick.....	20 x 40	Michael Welsh.....	Dwelling.....	3d floor.....		
" 29	8.15 a.m.	556	849 Ninth avenue.....	I	I	I	I	I	I	I	I	3	Brick.....	20 x 50	C. T. Timpson.....	Dwelling.....	3d floor.....		
" 29	11.39 a.m.	92	10-8 Madison avenue.....	I	I	I	I	I	I	I	I	6	Brick.....	25 x 50	John Dunn.....	Dwelling.....	6th floor.....		
" 29	12.45 a.m.	Still	55 Rose street.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	50 x 25	Isaac Birnett.....	Dwelling.....	2d floor.....		
" 29	11.50 a.m.	Still	19 and 21 East Broadway.....	I	I	I	I	I	I	I	I	2 1/2	Frame, brick ft.	25 x 30	H. Gebenstein.....	Shoemaker's shop.....	Basement.....		
" 29	8.39 p.m.	226	41 Clinton street.....	I	I	I	I	I	I	I	I	4	Brick.....	20 x 60	James Baker.....	Dwelling.....	Basement.....		
" 30	8.15 a.m.	Still	211 East 83d street.....	I	I	I	I	I	I	I	I	6	Brick.....	20 x 60	J. W. De Peyster.....	Dwelling.....	3d floor.....		
" 30	10.38 a.m.	381	59 East 21st street.....	I	I	I	I	I	I	I	I	6	Brick.....	25 x 70	D. M. Stone.....	Storage, etc.....	4th floor.....	6th floor.....	
" 30	6.47 1/2 p.m.	15	76 Beaver street.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	20 x 50	S. Cohen.....	Dwelling.....	1st floor.....		
" 30	7.06 p.m.	486	322 East 43d street.....	I	I	I	I	I	I	I	I	3	Brick.....	25 x 45	Miss Reed.....	Dwelling.....	Attic.....		
" 30	7.55 p.m.	Still	62 Hester street.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	25 x 60	Mrs. Duell.....	Dwelling.....	Cellar.....		
" 30	7.57 p.m.	94	95 Madison street.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	18 x 40	Mrs. McGowan.....	Dwelling.....	Basement.....		
" 31	1.41 a.m.	447	205 East 31st street.....	I	I	I	I	I	I	I	I	3	Brick.....	40 x 60	Mrs. Carroll.....	Dwelling.....	Cellar.....		
" 31	10.53 a.m.	283	340 West 11th street.....	I	I	I	I	I	I	I	I	4	Brick.....	20 x 50	Anthony Tourtory...	Dwelling.....	4th floor.....		
" 31	1.05 p.m.	Still	45 New Bowery.....	I	I	I	I	I	I	I	I	3	Brick.....	25 x 50	Various families.....	Dwelling.....	1st floor.....		
" 31	4.50 p.m.	Still	308 Hudson street.....	I	I	I	I	I	I	I	I	6 1/2	Brick.....	50 x 40	J. M. Morton.....	Hotel.....	Basement.....	{ 1st floor and par- } { quet of theatre }	
" 31	8.35 p.m.	576	418 to 424 Washington street.....	I	I	I	I	I	I	I	I	9	Brick.....	100 x 100	Holbrook & Co.....	Soap manufacturers.....	7th floor.....		
April 1	7.02 a.m.	162	89 1/2 Sixth avenue.....	I	I	I	I	I	I	I	I	6	Brick.....	40 x 65	Thos. H. Harrison...	Dwelling.....	3d floor.....		
" 1	11.17 a.m.	Still	157 West 44th street.....	I	I	I	I	I	I	I	I	4	Brick, br. stone ft.	25 x 60	Sarah Stever.....	Dwelling.....	2d floor.....		
" 1	3.03 p.m.	518	411 Second avenue.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 60	Various families.....	Dwelling.....	Cellar.....		
" 2	12.45 p.m.	Still	Sedgwick ave., near Morris lane	I	I	I	I	I	I	I	I	4	{ Woods, fences, } { etc..... }	Unoccupied.....	Unoccupied.....	Woods.....	Woods.....		
" 2	4.26 p.m.	921	349 West 41st street.....	I	I	I	I	I	I	I	I	4	Brick.....	25 x 50	Cornelia Veine.....	Dwelling.....	3d floor.....		
" 2	6.42 p.m.	474	237 West 10th street.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 70	John Rough.....	Dwelling.....	5th floor.....		
" 2	6.50 p.m.	Still	54 and 56 East 14th street.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	25 x 75	Several families.....	Dwelling.....	2d floor.....		
" 4	9.30 a.m.	Still	666 Hudson street.....	I	I	I	I	I	I	I	I	1	Frame.....	25 x 100	Herring & Farrell.....	Paint shop.....	1st floor.....		
" 4	12.50 p.m.	Still	354 West 52d street.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 50	Edward Holboron...	Dwelling.....	3d floor.....		
" 4	2.30 p.m.	Still	Manhattan street, near 10th ave.	I	I	I	I	I	I	I	I	3	Frame.....	22 x 30	Philip Becker.....	Dwelling.....	2d floor.....		
" 4	7.05 p.m.	Still	25 White street.....	I	I	I	I	I	I	I	I	6	Brick, stone front.	25 x 75	H. Schoenwald.....	{ Manufacturer of cloaks } { and suits..... }	6th floor.....		
" 4	7.48 p.m.	{ 144 and 2d } { alarm to 143 }	161 Elizabeth street.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 60	John Dowling.....	Dwelling.....	3d floor.....		
" 5	8.40 a.m.	Still	104 Waverley place.....	I	I	I	I	I	I	I	I	3 1/2	Brick.....	25 x 50	Mrs. Moran.....	Dwelling.....	3d floor.....		
" 5	8.48 a.m.	287	69 and 71 Barrow street.....	I	I	I	I	I	I	I	I	2 1/2	Brick.....	50 x 30	{ Geo. C. Smith and } { Peter Conklet... }	Dwelling.....	Roof.....		
" 5	9.25 a.m.	{ Still..... } { Special call, } { Station 254. }	69 West 19th street.....	I	I	I	I	I	I	I	I	3	Brick.....	25 x 60	R. F. Halleck & Co..	Designers.....	1st floor.....		
" 5	3.10 p.m.	358	84 1st avenue.....	I	I	I	I	I	I	I	I	5	Brick.....	25 x 60	Charles Linder.....	Pork packing, etc.....	Basement.....		
" 5	5.25 p.m.	Still		I	I	I	I	I	I	I	I								

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$100	\$180	\$280	H. & L. 19	H. & L. 19	Rhodes.....		19.....	.50	I			Not ascertained.....		
10		10						.05	I			Heat from stove.....		
70		70			Bates, Rowe, Bonner.....		1, 10.....	.15	I			Carelessness.....		
	50	50			{ Bates, Foreman Spence, Campbell..... }	30.....		.05	I			{ Goods in show-window taking fire from gas- light..... }		{ Smoke issuing from prem- ises No. 230 East 106th street.
					Orr, Wilhelm.....			.05	I			Foul chimney.....		
	15	15						.03	I			Sparks from locomotive.....		
15	10	25						.05	I			Sparks from chimney.....		
	20	20					5.....	.05	I			Child playing with matches.....		{ Smoke issuing from prem- ises No. 243 West 47th street.
10		10				18.....		.10	I			Sparks from locomotive.....		
	10	10						.05	I			Kerosene lamp exploding.....	{ Isabelle Paine and child severe- ly burned..... }	
														{ Reflection of lighted can- dle, No. 22 Cliff street.
30	50	80	Engine 32	Engine 32	Bates, Rowe, Bonner.....	32.....	1, 10.....	.15	I			Spontaneous combustion.....		
	15	15				11.....		.05	I			Kerosene stove taking fire.....		
20		20	Engine 23	Engine 23		8.....		.03	I			Carelessness.....		
			Engine 27	Engine 27	Bates, Bonner, Campbell.....	27.....	8.....	.20	I			{ Sparks from chimney ig- niting roof..... }		
10		10	Engine 36	Engine 36	Wilhelm.....	36.....	14.....	.10	I			Boys building bonfire.....		
25		25	Ch. 4....	Ch. 4....	Foreman Poynton, Ch. 4....	Ch. 4....	18.....	.30	I			Sparks from locomotive.....		
	265	265			Bates, Campbell, Bonner.....		8.....	.10	I			Sparks igniting roof.....		
								.10	I			{ Supposed sparks from passing steamship..... }		
5		5						.10	I			Foul chimney.....		
10	15	25						.17	.15	I		Sparks igniting roof.....		
								.02	I			Kerosene lamp explosion.....		
						1.....		.01	I			Straw burning in cellar.....		
200	100	300			Bates, Bresnan, Gicquel.....	3.....	3.....	.20	I			{ Soot in chimney setting fire to woodwork..... }		
200	50	250	Engine 22	Engine 22	Orr, Wilhelm.....	22.....	13.....	1.25	I			Not ascertained.....		
							7.....	.05	I			{ Soot in chimney taking fire & igniting fire-board }		
					Reilly, Fisher.....	23.....		.10	I			Foul chimney.....		
					Bates, Bonner, Rowe.....									{ Smoke issuing from prem- ises No. 10 New Bowery.
10	50	60						.05	I			{ Window curtain taking fire from gas-light..... }	Mary Terpin, hands burned....	
50	50	100						.12	I			Carelessness.....		
20		20						.05	I			{ Defective construction of furnace..... }		
50	125	175			Bates, Miller.....		11.....	.10	I			Not ascertained.....		
						22.....		.05	I			Foul chimney.....		
					Bates, Bresnan, Fisher.....		3.....	.15	I			Foul chimney.....		
1,500	575	2,075	Engine 10	Engine 10	Bates, Rowe, Bonner.....	4, 10, 32.....	1, 10.....	.45	I			Steam-pipe igniting paper.....		
	30	30			Fisher, Reilly.....		2.....	.08	I			Spontaneous combustion.....		
					Bates, Bonner.....			.05	I			Kerosene lamp explosion.....		
30	25	55	H. & L. 7	Engine 16	Fisher, Reilly.....	16.....	7.....	.10	I			Foul chimney.....		
25		25	H. & L. 5	Engine 18	Bates, Gicquel, Campbell.....	3, 18, 24.....	5, 12.....	.45	I			Soot in chimney taking fire.....		
20	10	30				9.....		.05	I			Carelessness.....		
								.05	I			Child playing with matches.....		
								.05	I			Carelessness.....		
					Reilly, Fisher.....									{ Smoke issuing from prem- ises No. 103 Fifty- seventh street.
	25	25			Bates, Campbell, Rowe.....			.03	I			Carelessness.....	{ Assistant Engineer of Steamer Wm. R. Massie, Engine Co. No. 27, hand slightly injured.	
						18.....		.10	I			Foul chimney.....		
10	30	40			Reilly.....		4.....	.05	I			{ Window curtain taking fire from gas-light..... }		
						16.....		.02	I			Carelessness.....		
			Ch. 4....	Ch. 4....	Rhodes.....	Ch. 4....	19.....	.45	I			Sparks from locomotive.....		
	50	50			Reilly, Fisher.....			.03	I			{ Window curtain taking fire from lamp..... }		
								.03	I			Kerosene lamp explosion.....		
200		200	Engine 14	Engine 14	{ Bates, Shay, Bresnan, Gic- quel, Miller, Bonner..... }	5, 14.....	3, 9, 12.....	.45	I			Not ascertained.....	{ Fireman William H. Farrell, Engine Co. No. 5, arm and knee slightly injured by fall from tender; Fireman Thos. Connolly, H. & L. Co. No. 3, leg slightly injured..... }	
100	745	845	Engine 39	Engine 39	Bates, Fisher, Orr.....	39.....	2.....	.20	I			Carelessness.....		
	10	10				20.....		.08	I			Soot in chimney taking fire.....		
	5	5			Fisher, Reilly.....		2.....	.05	I			Clothes taking fire from stove.....		
					Bates, Shay, Bonner, Miller.....			.05	I			Meat taking fire in oven.....		
								.05	I			Stove upsetting.....	{ J. R. Peulis, head injured by explosion of fire extinguisher..... }	{ Smoke issuing from prem- ises No. 42 Vesey street.
	15	15						.05	I			Carelessness.....		
						37.....		.20	I			Foul chimney.....		
100	3,120	3,220	H. & L. 8	Engine 27	{ Bates, Shay, Bonner, Rowe, Campbell..... }	13, 27.....	1, 8, 10.....	1.30	I			Not ascertained.....		
							9.....	.10	I			Foul chimney.....		
					Bates, Gicquel, Campbell.....			.05	I			Carelessness.....		
30		30			{ Foreman McLaughlin, En- gine 24..... }	24.....	5.....	.20	I			{ Sparks from Engine 24, while proceeding to Station 28..... }		
	95	95			Bates, Gicquel, Fisher.....		12.....	.10	I			Sparks from locomotive.....		
						25.....		.10	I			Soot in chimney.....		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.					
					Fire.	Indication of Fire.	Unnecessary.	Verbally.					Box Signals.	Special Signals.	Automatic Signals.	Attached to Fire Department.	
1881.																	
April 5	6.46 p.m.	853	176th street and 12th avenue	1					1			Woods, etc.		{ Estate of R. C. } { Rathbone }	Dwelling	Woods	
" 5	7.46 p.m.	872	180th street and 12th avenue	1					1			Woods, etc.		Potter's estate	Dwelling	Woods	
" 5	9.40 p.m.	Still	275 Second street	1						1 4		Brick	25 x 50	Adam Miller	Dwelling	4th floor	
" 5	8.55 p.m.	Still	Ward's Island	1						1 1		Frame	20 x 50	{ Comm'r's Charities } { and Correction }	Institution for Sick	1st floor	
" 6	3.56 a.m.	235	21 Vandam street	1					1		2 1/2	Brick	25 x 40	James Peacock	Dwelling	Attic	
" 6	12.07 a.m.	154	210 Madison street	1					1		4 1/2	Brick	25 x 40	J. Sammet and others	Dwelling	2d floor	
" 6	1.50 p.m.	Still	11 Frankfort street	1					1		5	Brick	25 x 80	Excelsior Printing Co.	Printing establishment	1st floor	
" 6	2.32 p.m.	{ Still and special call, Station 2 }	16 Pearl street	1					1		6	Brick	25 x 100	P. Stapleton & Sons	Storage for cotton	Cellar	
" 6	5.20 p.m.	366		1					1								
" 6	5.48 p.m.	356	203 West 19th street	1					1		4	Brick	20 x 50	Mrs. A. Weeks	Dwelling	3d floor	
" 6	10.40 p.m.	Still	121 East Broadway	1					1		3	Frame	40 x 25	A. A. Randall	Dwelling	2d floor	
" 6	6.47 p.m.	319	9 East 12th street	1					1		4	Brick	25 x 50	Mary Braunsen	Dwelling	2d floor	
" 6	10.30 p.m.	Still	456 West 40th street	1					1		3	Brick	25 x 40	Ernest Petzold	Dwelling	Basement	
" 6	6.48 p.m.	Still	162d street and Girard avenue	1					1			Brush, etc		F. Duer	Estate	Brush	
" 6	8.15 p.m.	Still	20 Suffolk street	1					1		5	Brick	25 x 50	J. Kupferman	Dwelling	2d floor	
" 6	8.58 p.m.	358	104 West 18th street	1					1		3	Brick	20 x 50	John G. Norman	Bell-hanger, etc	1st floor	
" 6	10.11 p.m.	Still	N. E. cor. 69th st. & Boulevard	1					1		1	Frame	20 x 40	F. Ohnen	Stables	1st floor	
" 6	6.29 p.m.	Still	11 Market street	1					1		3 1/2	Brick	25 x 40	Samuel Cohen	Mfr. of mineral waters	Basement	
" 7	3.04 a.m.	22	92 New Church street	1					1		4	Brick	22 x 150	Atlantic Chem'l Wks.	Disillers of essence	4th floor	
" 7	6.44 p.m.	644	116 East 82d street	1					1		3	Brick, br. stone ft.	15 x 35	William Peckens	Dwelling	3d floor	
" 7	7.50 p.m.	736		1					1								
" 7	8.18 p.m.	{ Special call, Station 173 }	11 Suffolk street	1					1		4 1/2	Brick	25 x 50	Jacob Emanuel	Dwelling	3d floor	
" 7	10.23 p.m.	Still	784 Eighth avenue	1					1		2	Frame	25 x 100	Charles Smith	Dealer in butter and eggs	1st floor	
" 8	8.45 a.m.	Still	21 Gold street	1					1		2	Brick	25 x 100	Jos. W. Smitzer & Co.	Packing box manufacturers	2d floor	
" 8	12.30 p.m.	319		1					1								
" 8	3.30 p.m.	Still	533 Broadway	1					1		6	Brick	50 x 100	William Paluski	Hair-dresser, etc	Basement	
" 8	5.48 p.m.	379	13 West 22d street	1					1		4	Brick, br. stone ft.	25 x 60	R. E. Harris	Dwelling	1st floor	
" 8	7.28 p.m.	184	60 Thompson street	1					1		2	Frame	20 x 60	Unoccupied		2d floor	
" 8	8.47 p.m.	669	N.W. cor. 89th st. and Avenue A	1					1		3	Frame	50 x 75	{ St. Joseph's Orphan } { Asylum }	Asylum	Cellar	3d floor
" 8	10.11 p.m.	73	61 Warren street	1					1		5	Brick	25 x 75	E. R. Beach	Dealer in oil lamps	2d floor	3d floor
" 9	5.32 a.m.	Still	391 Seventh avenue (rear)	1					1		3	Frame	20 x 40	Various families	Dwelling	2d floor	
" 9	9.13 a.m.	Still	St. Lawrence st., Manhattanville	1					1		3	Frame	22 x 30	Dr. Rhodenstein	Dwelling	1st floor	
" 9	1.38 p.m.	29	Pier 18, East river	1					1			S. S. "Galina"		L. O. Mocu	Great West'rn S. S. Line	Main deck	
" 9	8.23 p.m.	771	{ Foot Alexander avenue and } { Harlem river }	1					1			{ Dredging scow } { "Knickerbocker" }		{ H. N. & H. A. } { Beardsley }	Dredging scow	Deck	
" 10	2.44 p.m.	Still	25 Fulton street	1					1		5	Brick	25 x 75	C. H. Meyer	Dealer in liquors	Cellar	
" 10	4.35 p.m.	Still	Foot 118th street and East river	1					1			Dock	25 x 100	Unoccupied	Dock, etc	On dock	
" 10	5.20 p.m.	Still	Boulevard, bet. 152d and 153d sts.	1					1			Fence, etc				Dry leaves	
" 10	7.30 p.m.	Still	249 West 36th street	1					1		4	Brick	25 x 50	Lewis Herman	Dwelling	3d floor	
" 10	8.20 p.m.	Still	205 Greenwich street	1					1		3	Brick	25 x 75	Noritzky & Bro	Dry goods	1st floor	
" 10	10.55 p.m.	Still		1					1								
" 10	11.30 p.m.	Still	111 West 24th street	1					1		3	Brick	25 x 45	Henry Sleetes	Groceries	1st floor	
" 10	11.27 p.m.	294		1					1								
" 10	11.49 a.m.	Still	{ 153d street, bet. 10th and St. } { Nicholas avenues }	1					1			Fence, etc				Dry leaves	
" 11	1.14 p.m.	Still	621 East 11th street	1					1		5	Brick	25 x 70	F. Belmont	Dwelling	4th floor	
" 11	3.30 p.m.	Still	234 Ninth avenue	1					1		2	Frame	25 x 40	Patrick Mullaney	Groceries	1st floor	
" 11	3.40 p.m.	7	1 1/2 Stone street	1					1		4	Brick	25 x 75	Wm. Westfall	Primary school, etc	3d floor	4th floor
" 11	6.04 p.m.	356	234 West 19th street	1					1		5	Brick	25 x 65	Various families	Dwelling	Cellar	
" 11	8.34 p.m.	88		1					1								
" 11	10.30 p.m.	Still	S. E. cor. 23d street and 6th ave.	1					1		5	Brick, granite ft.	100 x 75	Henry E. Abbey	Theatre	Stage	
" 13	5.42 a.m.	Still	410 West 16th street	1					1		2	Frame	25 x 40	Ernest Horst	Dwelling	1st floor	
" 13	8.26 a.m.	513	550 West 45th street	1					1		4	Brick	25 x 60	John Graham	Dwelling	3d floor	
" 13	10.15 a.m.	Still	349 East 13th street	1					1		4	Brick	25 x 50	Patrnck Sherry	Dwelling	4th floor	
" 13	4.38 p.m.	Still	419 Third avenue	1					1		5	Brick	25 x 80	Various families	Dwelling	1st floor	
" 13	7.40 p.m.	Still		1					1								
" 13	7.44 p.m.	Still	69 East 10th street	1					1		5	Brick	25 x 50	Health Food Co	Storage	Basement	
" 13	9.34 p.m.	785		1					1								
" 14	8.04 1/2 a.m.	38	4 Burling slip	1					1		4	Brick	25 x 25	H. H. Foot	Cigar manufacturer	Cellar	
" 14	11.40 a.m.	218		1					1								
" 14	5.21 p.m.	183	15 Grand street	1					1		2 1/2	Brick	20 x 30	Wm. H. Clayton	Dwelling	Basement	
" 14	8.01 p.m.	45	39 John street	1					1		4	Brick	25 x 60	F. W. Gesswein	Mfr. jewelers' tools	3d floor	
" 14	9.35 p.m.	Still	{ 3d avenue, between 30th and } { 31st streets }	1					1		2	Brick	50 x 125	Mr. Parker	Theatre, etc	1st floor	
" 15	10.12 a.m.	Still	17 Barclay street	1					1		5	Brick, br. stone ft.	25 x 100	Thomas Kelly	Book publisher	2d floor	
" 15	6.15 a.m.	Still	255 Spring street	1					1		3	Brick	25 x 50	Wm. Nash	Workshop	1st floor	
" 15	2.35 p.m.	Still	165 and 167 Bowery	1					1		3	Brick	50 x 125	Harry Miner	Theatre	Flies	
" 15	3.30 p.m.	627	1240 Third avenue	1					1		4	Brick	20 x 75	James Flynn	Boots and shoes	Cellar	
" 15	4.33 a.m.	168 and 3d alarm	145 Mulberry street	1					1		6	Brick	50 x 60	Wm. Smith and ors.	Cabinet mfrs., etc	Cellar	{ All floors & 147 } { Mulberry st. }
" 15			Extended to 147 Mulberry street								5	Brick	20 x 60	Various parties	Mfrs. various trades		

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		HOW EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.				
					Foreman Best, Engine 38.....			H. M. 10	Sparks from locomotive.....		
			H. & L. 15	H. & L. 15	Foreman Vetter, H. & L. 15..	38.....	15.....	1.39	Sparks from locomotive.....		
\$20	\$20							1.10	{ Lighted candle setting fire to clothing..... }		
\$30	75	105						.20	Sparks from furnace.....		
150	125	275			Bates, Campbell, Gicquel.....	30.....	9.....	.10	Hot coals from stove.....		
10	100	110			Bates, Miller, Bonner.....			.05	Not ascertained.....		
								.25	Carelessness.....		
			Engine 10	Engine 10	Rowe.....	10.....	10.....	.25	Carelessness.....		
					Bates, Bresnan, Fisher.....						{ Smoke issuing from prem- ises No. 425 East 17th street.
					Bates, Gicquel, Reilly.....		12.....	.10	Foul chimney.....		
								.03	Carelessness.....		
					Bates, Gicquel, Campbell.....		3.....	.10	Foul chimney.....		
								.05	Foul chimney.....		
							19.....	.10	Malicious mischief.....		
50	50							.05	Carelessness.....		
226	226				Bates, Gicquel, Reilly.....		12.....	.30	{ Soot in chimney igniting fire-board..... }		
10	10		Engine 40	Engine 40		40.....		.10	Heat from manure.....	{ Ass't Foreman Francis Carey, Engine Co. No. 40, foot slightly injured..... }	
						9.....		.03	{ Heat from stove-pipe ig- niting floor beams..... }	{ Fireman Thos. B. Green, H. & L. Co. No. 1, knee slightly injured. Foreman David Connor, Engine Co. No. 6, hand slightly injured..... }	
1,000	1,400	2,400	Engine 6	Engine 6	Bates, Rowe, Bonner.....	4, 6, 10.....	1, 10.....	1.30	Not ascertained.....		
					Orr.....			.05	Escaped gas igniting.....		
					Orr, Rhodes.....						{ Reflection of fire in stove on 2d floor of premises No. 2116 Third avenue.
200	225	425	Ch. 6...	Ch. 6...	Miller.....	Ch. 6.....	6.....	.37	Supposed from hot coals.....		
15	15						4.....	.10	Carelessness.....		
						32.....		.10	Heat from boiler igniting roof.....		{ Sent out by President King for the purpose of show- ing the efficiency of the Department to the May- or and Common Council of Toronto, Canada.
					Bates, Gicquel, Campbell.....		13.....	.10	Carelessness.....		
75	75				Reilly.....			.05	Carelessness.....		
					Bates, Campbell, Gicquel.....	13.....	8.....	.30	Foul chimney.....		
300	75	375	H. & L. 13	Engine 22	Orr, Wilhelm.....	22, 44.....	13, 16.....	3.38	Defective flue.....		
100	375	475	Engine 27	Engine 27	Bates, Bonner, Rowe.....	7, 27.....	1, 8.....	1.00	Carelessness.....		
15	15					1.....		.03	Not ascertained.....		
						37.....		.05	Foul chimney.....		
100	100	200	Engine 32	Engine 32	Bates, Rowe.....	32.....	10.....	.30	Not ascertained.....	{ John Moore, boatswain, face and hand severely burned... }	
2,000	2,000		H. & L. 17	H. & L. 17	Rhodes.....		14, 17.....	.50	Kerosene lamp exploding..	{ Fireman Frederick Neubauer, Engine Co. No. 36, foot slightly injured..... }	
						32.....		.05	Carelessness.....		
						35.....		.15	Carelessness.....		
							15.....	.10	Boys building bonfire.....		
75	75							.05	{ Window curtain taking fire from gas..... }		
10	10							.05	Sparks from locomotive.....		
											{ Smoke issuing from prem- ises No. 23 Dey street.
								.02	Supposed incendiary.....		
					Bates, Bresnan, Gicquel.....				Malicious mischief.....		
							15.....	.12	{ Children playing with matches..... }		
						28.....		.10	{ Heat from stove-pipe igniting fire-board..... }		
						19.....		.02	Child playing with matches.		
1,000	300	1,300	Engine 10	Engine 10	Bates, Rowe.....	4, 6, 10.....	1, 10.....	1.30	Carelessness.....	{ Walter Westfall suffocated. "Died"..... }	
					Bates, Reilly, Campbell.....		12.....	.05	Carelessness.....		
					Bates, Bonner, Rowe.....						{ Smoke issuing from prem- ises No. 486 Pearl street.
								.03	Scenery igniting from gas..		
10	60	70				3.....		.05	Heat from stove.....		
					Reilly, Fisher.....	2.....		.10	Foul chimney.....		
50	150	200				5.....		.30	{ Children playing with matches..... }		
								.05	Pot of fat taking fire.....		
											{ Reflection of fire in grate in premises No. 87 Lib- erty street.
						3.....		.10	Pot of glue taking fire.....		
					Wilhelm.....				Malicious mischief.....		
50	1,000	1,050	Engine 32	Engine 32	Bates, Rowe, Bonner.....	4, 32.....	10.....	.30	Carelessness.....		
					Bates, Campbell, Miller.....						{ Smoke issuing from prem- ises No. 126 Crosby st.
15	20	35			Bates, Campbell, Gicquel.....		8.....	.15	Heat from stove.....		
300	972	1,272	Engine 4	Engine 4	Bates, Rowe, Campbell.....	4, 29.....	1, 10.....	.35	Soot in fire-place igniting..		
						8.....		.02	{ Show-board taking fire from lamp..... }		
					Rowe.....			.02	Vapor from benzine.....		
	20	20						.15	Hot coals from furnace.....		
								.02	Escaped gas igniting.....		
					Orr, Wilhelm.....	30.....		.05	Carelessness.....		
7,500	12,200	19,700	Engine 20	Engine 20	{ Bates, Shay, Miller, Rowe, Campbell, Bresnan, Gicquel (7, 9, 11, 12, 13, 15, 17, 20, 24, 27, 30, 31, 33..... }		3, 6, 8, 9.....	4.30	Not ascertained.....		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.		
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.					Number of Stories.					Material Built of.	Area.
					Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.							
1881.																					
April 16	1.58 a.m.	14 and 2d alarm.	6 Broadway	1										5	Brick	25 x 100	Wm. H. H. Smith	Cotton storage	4th floor	5th floor	
" 16	2.37 p.m.	21	Pier 8, North river	1										2	Frame	150 x 200	New Jersey S.R.R.Co.	Freight depot	1st floor		
" 16	2.40 p.m.	Still	87 East Broadway	1										3	Brick	25 x 50	Morris Rosenthal	Dwelling	2d floor		
" 16	2.47 p.m.	872	{190th street, between Ridge road and Harlem river....}	1											Leaves, etc.		Crittenden estate	Dwelling, etc	Woods		
" 16	3.56 p.m.	168	115 Mulberry street	1										4 1/2	Brick	25 x 50	John Coachman & ors.	Dwelling	3d floor		
" 16	5.27 p.m.	{144 and 2d alarm to 143.}	24 and 26 White street	1										6	Brick, marble ft.	40 x 80	Miles Shires & Co	Manufacturers of shirts.	2d floor	3d floor	
" 16	5.37 p.m.	{Special call, Stat'n 88, and 2d and 3d alarms....}	130 and 132 Worth street	1										5	Brick, br. stone ft.	40 x 50	H. H. Cohen	Dealer in looking-glasses.	Cellar		
" 16	7.20 p.m.	Still	874 Broadway	1										5	Brick	25 x 40	Ewen McIntyre	Druggist	1st floor		
" 16	8.08 p.m.	{Still & special call, Station 617....}	140 East 56th street	1										3 1/2	Brick, br. stone ft.	20 x 50	Chas. Storm	Dwelling	3d floor		
" 16	11.17 p.m.	Still	64 Liberty street	1										4	Brick	25 x 75	John Sotherland	Restaurant	3d floor		
" 17	12.07 a.m.	647	1470 Second avenue	1										1	Frame	20 x 30	Jordan Downing	Butcher shop	1st floor		
" 17	2.05 p.m.	767	208 and 210 East 127th street	1										1	Frame	50 x 75	{Presbyterian Con- gregation....}	Place of worship	Roof		
" 17	4.08 p.m.	Still	{194th street, Ridge road and Harlem river....}	1											Leaves, etc.		Stewart estate	Dwelling	Woods		
" 17	5.01 p.m.	614	{South side 56th street, bet. 10th and 11th avenues....}	1										1	Frame	50 x 20	Michael Landgren	Dwelling	Roof		
" 17	6.27 p.m.	515	440 West 45th street	1										2 1/2	Frame	25 x 20	John Pensegram	Dwelling	Attic		
" 17	6.35 p.m.	Still	Broadway and 172d street	1											Leaves, etc.				Woods		
" 17	9.35 p.m.	Still	163 East 39th street	1										3	Brick	25 x 65	Wm. Griffen	Lodging-house	2d floor		
" 18	2.21 a.m.	931		1																	
" 18	4.00 a.m.	236 and 3d alarm.	152 and 154 Thompson st. (rear).	1										2	Frame	50 x 15	Various families	Dwelling	2d floor	{1st floor & Nos. 78 & 80 South 5th ave. (rear) 76 South 5th ave..}	
" 18			{Extended to 78 and 80 South 5th avenue (rear)....}											2	Brick and frame.	50 x 15	Several parties	Stables			
" 18														3	Frame	25 x 20	Various families	Dwelling			
" 18	6.36 1/2 a.m.	37	174 and 176 Pearl street	1										4	Brick	50 x 100	Chas. Kramer	Restaurant	Cellar		
" 18	9.35 a.m.	Still		1																	
" 18	8.43 p.m.	629	73d st., Avenue A and East river	1										1	Frame	15 x 15	James Haggerty	Stable	1st floor		
" 19	11.21 a.m.	443	7 East 33d street	1										4 1/2	Brick	20 x 60	C. L. Atterberg	Dwelling	Basement		
" 19	1.45 p.m.	Still	1296 Third avenue	1										5	Brick, freestone ft	25 x 60	Mrs. Buckenhamer	Dwelling	2d floor		
" 19	2.50 p.m.	Still	141st st. and Southern Boulevard	1											Leaves, etc.		Estate of S. E. Lyon	Dwelling, etc.	Woods		
" 19	4.50 p.m.	Still	31 Chambers street	1										5	Brick, iron front.	25 x 100	Dept. Public Works	Offices, etc.	3d floor		
" 19	8.29 p.m.	356	220 West 18th street	1										3	Brick	25 x 40	John Lambers	Dwelling	1st floor		
" 19	8.54 p.m.	45	182 Broadway	1										5	Brick, br. stone ft.	25 x 100	John R. Greason & Co.	Manufacturers of jewelry.	4th floor	5th floor	
" 19	10.28 p.m.	417	272 Seventh avenue	1										4 1/2	Brick	25 x 50	A. Wianionka	Boot and shoe maker	Basement		
" 19	11.06 p.m.	263	88 1/2 and 90 Bleecker street	1										4	Frame	40 x 30	Asher Sondheim	Furnishing goods	1st floor		
" 20	2.36 3/4 a.m.	331 and 2d alarm.	531 West 14th street	1										2	Frame	18 x 40	Beckage & Hirsch	Lumber dealers	1st floor	{Roof and 533 & 535 W. 14th st. 540 W. 15th st.. 544 & 546 W. 15th st.....}	
" 20			Extended to 533 & 535 W. 14th st.											1	Brick	50 x 60	Beckage & Hirsch	Saw-mill			
" 20			Extended to 540 W. 15th street											1 1/2	Frame	50 x 80	S. R. Budd	Whiting manufacturer			
" 20	5.28 p.m.	243	103 First street	1										4	Brick	25 x 30	Carl Grahling & ors.	Butcher shop, etc.	1st floor		
" 20	2.51 p.m.	526	755 Third avenue	1										4	Brick	25 x 70	Bernard Byrnes	Dwelling	2d floor		
" 20	6.39 p.m.	474	352 & 354 West 41st street (rear)	1										4	Brick	50 x 50	Crouch & Fitzgerald	Manufacturers of trunks	4th floor		
" 20	7.14 p.m.	464	546 Third avenue	1										4	Brick	25 x 60	Charles E. Garrett	House furnishing goods	Cellar		
" 21	1.52 a.m.	47	4 and 6 Gold street	1										5	Brick	50 x 85	Thomas Walsh	Dealer in cotton	4th floor	5th floor	
" 21	11.29 a.m.	753	S. W. cor. 114th st. and 8th ave.	1										1	Frame	20 x 30	William Staffeldt	Stable	1st floor	Adjoining building	
" 21			Extended to adjoining building											2	Frame	20 x 20	William Staffeldt	Dwelling			
" 21	1.30 p.m.	Still	Kingsbridge ave., near Broadway	1														Fence			
" 21	2.52 p.m.	377	124 West 24th street	1										4	Brick	20 x 45	Jos. O. Gasselone	Dwelling	4th floor		
" 21	3.29 p.m.	Still	48 Maiden lane	1										5	Brick	25 x 125	Abby Jubris	Merchandise	1st floor		
" 21	3.49 p.m.	334	407 West 52d street	1										2	Brick	25 x 60	D. Reed & R. Hayes	Sash manufacturers	2d floor	{785 Ninth ave. and 409 West 52d street....}	
" 21			Extended to 409 West 52d street											3	Frame	25 x 30	Caroline Ellroat	Dwelling			
" 21	6.10 p.m.	Still	{127th street, between 9th and 10th avenues....}	1										2	Frame	20 x 15	David Quill	Dwelling	Roof		
" 21	7.52 p.m.	753	N. W. cor. 118th street and 8th ave	1										1	Frame	20 x 20	George Lampe	Stable	1st floor		
" 21	8.03 p.m.	373	457 West 22d street	1										4	Brick, br. stone ft.	20 x 60	J. G. Nelson	Dwelling	4th floor		
" 21	8.20 p.m.	Still	19 and 21 Elizabeth street	1										3	Brick	50 x 100	Unoccupied		2d floor		
" 22	1.34 p.m.	Still	West Broadway and Beach street	1														Truck load of hay		Truck	
" 22	10.18 p.m.	478	141 West 43d street	1										4	Brick, br. stone ft.	20 x 50	Moses B. McClellan	Dwelling	3d floor		
" 23	1.28 a.m.	98	54 Market street	1										3 1/2	Brick	25 x 75	J. Hughes	Dwelling	Basement		
" 23	5.26 a.m.	477 and 2d alarm.	513 Seventh avenue	1										1	Frame	50 x 50	Henry Howard	Stables	1st floor	146 West 38th st.	
" 23			Extended to 146 West 38th street											1	Brick	25 x 60	Charles Hoffman	Mfrs. of dumb-waiters			
" 23	8.05 a.m.	Still	113 East 129th street	1										5	Brick	25 x 50	Frank Werner	Dwelling	2d floor		
" 23	10.00 a.m.	Still	342 Third avenue	1										4	Brick	25 x 60	Patrick Kerns	Office	Awning		
" 23	10.06 a.m.	Still	531 West 14th street	1											Ruins of late fire.				In ruins		
" 23	11.44 a.m.	186	157 Elm street	1										4	Brick	30 x 30	Frederick H. Giede	Carpenter shop	3d floor		
" 23	12.39 p.m.	872	{90th street, between Kings- bridge and Ridge road....}	1											Leaves, brush, etc.		Stewart estate	Dwelling	Woods		
" 23	2.19 p.m.	649	1428 Avenue A	1										4	Brick	25 x 60	Samuel Rochnitz	Dwelling	2d floor		
" 23	7.30 p.m.	Still	209 East 27th street	1										2	Brick	25 x 40	George Smith	Dwelling	2d floor		
" 23	8.02 p.m.	224	186 Eldridge street	1										6	Brick	25 x 75	P. Shookman & others	Dwelling	Cellar		
" 24	12.29 a.m.	213	314 and 316 Spring street	1										1	Frame	40 x 20	Abraham Jacobs	House-furnishing goods	1st floor		
" 24	4.29 a.m.	239	28 and 30 East Houston street	1										4	Brick	50 x 50	Henry Hill	Hotel, etc.	4th floor		
" 24	11.20 a.m.	Still	60 Thompson street	1											Rubbish, etc.				In rubbish		
" 24	2.13 p.m.	Still		1																	
" 24	2.25 p.m.	363		1																	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		H. M.	DURATION OF FIRE.	How EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.						
\$1,060	\$7,874	\$8,934	Engine 10	Engine 10	{ Bates, Shay, Rowe, Bon- ner, Miller, Campbell... }	4, 6, 7, 10, 12, 29, 31, 32	1, 8, 10, 11	4.45	1	1	Not ascertained.	{ Fireman John L. Rooney, H. & L. Co. No. 10, shoulder slight- ly injured }	
25	25	25			Bates, Rowe, Bonner	6	10	.30	1	1	Pot of tar on fire.		
								.15	1	1	Foul chimney.		
					Foreman Vetter, H. & L. 15.	38	15	2.40	1	1	Sparks from locomotive.		
	20	20			Bates, Miller, Rowe.			.05	1	1	Carelessness.		
2,000	54,000	56,000			Bates Rowe, Gicquel	4, 6, 7, 10, 12, 29, 31, 32	1, 8, 10, 11	4.45	1	1	Not ascertained.		
300	600	900	Engine 9	Engine 9	Shay, Miller, Bonner, Bresnan	4, 9	6	.25	1	1	Carelessness.		
20	25	45				14		.03	1	1	{ Window-shade igniting from gas-light. }		
187	250	437	Engine 39	Engine 39	Fisher	39	2	.20	1	1	Carelessness.	{ Fireman Edward Hogan, En- gine Co. No. 39, hand cut by glass. }	
								.05	1	1	Clothing taking fire		
75	115	190	Engine 44	Engine 44	Orr, Wilhelm	22, 44	13	1.06	1	1	{ Sparks from stove igniting sawdust }		
25	25	25	Engine 36	Engine 36	Wilhelm	36	14	.20	1	1	Sparks from locomotive		
								.15	1	1	Sparks from locomotive		
					Reilly, Orr			.03	1	1	Sparks from stove-pipe		
					Reilly, Fisher	2		.05	1	1	Carelessness.		
								.18	1	1	Malicious mischief.		
	5	5						.05	1	1	Kerosene lamp upsetting		
					Foreman Ward, H. & L. 18.								
70	475	545	Engine 33	Engine 33	{ Shay, Campbell, Gicquel, Bresnan, Bonner, Miller. }	13, 14, 20, 30, 33	3, 5, 6, 8, 9	.45	1	1	Not ascertained.	{ Ass't Foreman Terrance Bren- nan, H. & L. 3, foot injured. Private Mandeville Sandford, H. & L. 9, hand slightly cut. }	Fire in New Jersey.
150	50	200	Engine 32	Engine 32	Bates, Bonner, Miller	4, 32	1, 10	.35	1	1	{ Heat from furnace pipe igniting flooring }		{ Back-draught of chimney at No. 245 West 126th street. }
10	10	20	Engine 44	Engine 22	Orr, Fisher	22	13	1.12	1	1	Carelessness.		
					Fisher		7	.10	1	1	Foul chimney		
5	5	5	Ch. 1	Ch. 1		Ch. 1		.10	1	1	Sparks from locomotive		
	20	20						.10	1	1	Carelessness.		
					Bates, Gicquel, Fisher			.05	1	1	Foul chimney		
500	500	1,000	Engine 6	Engine 6	Bates, Rowe, Bonner	6	1, 10	1.00	1	1	Spontaneous combustion.		
20	135	155	Engine 1	Engine 1	Fisher	1	7, 12	.20	1	1	Not ascertained.		
150	1,400	1,550	Engine 33	Engine 33	Bates, Campbrell, Gicquel	33	9	.05	1	1	Gas-light igniting goods	{ Ass't Engineer Wm. H. Rush, Engine Co. No. 3, knee slight- ly injured }	
9,300	17,480	26,780	Engine 3	Engine 3	{ Bates, Shay, Gicquel, Bres- nan, Campbell, Fisher... }	1, 3, 13, 14, 18, 19, 24, 30, 33, 34, 43	{ 3, 5, 9, 11, 12, 16 }	40.00	1	1	Not ascertained.		
	100	100			Bates, Miller		9	.20	1	1	Kerosene lamp exploding		
10	10	10			Fisher, Reilly		2	.10	1	1	Defective flue.		
75	2,500	2,575	Engine 26	Engine 26	Reilly, Fisher	26	4, 12	.30	1	1	Carelessness.		
	10	10	Engine 21	Engine 21	Fisher	21	7	.05	1	1	Carelessness.		
1,500	3,905	5,405	Engine 32	Engine 32	Bates, Rowe, Bonner	4, 6, 12, 32	1, 6, 10	7.45	1	1	Cotton on storage igniting		
450	50	500	Engine 37	Engine 37	Orr, Rhodes	35, 36, 37	14, 16	1.25	1	1	{ Children playing with matches. }		
											{ Children playing with matches }	{ Fireman Jos. Murray, Engine Co. No. 37, leg injured. }	
					Reilly, Gicquel			.02	1	1	Fat on stove taking fire		
	50	50				4		.03	1	1	Soot in chimney taking fire.		
190	500	690	Engine 23	Engine 23	Reilly, Fisher	2, 23	2, 4	.40	1	1	{ Sparks from stove igniting shavings. }		
						37		.10	1	1	Sparks from chimney		
200	10	210	Engine 37	Engine 37	Orr, Rhodes	37	14, 16	1.00	1	1	Sparks from locomotive		
20	10	30			Bates, Gicquel, Reilly		7	.05	1	1	{ Window curtain taking fire from gas. }		
								.10	1	1	{ Vagrants entering prem- ises and building fire. }		
	15	15					8	.03	1	1	{ Sparks from locomotive Elevated R. R. }		
100	650	750			Reilly		4	.15	1	1	{ Curtain taking fire from gas-light }		
	20	20			Bates, Bonner, Miller		6	.10	1	1	Carelessness.		
125	207	325	Engine 26	Engine 26	{ Bates, Reilly, Fisher, Orr, Gicquel }	1, 26, 34	4, 7, 12	.50	1	1	Carelessness		{ Engine Co. No. 26 res- cued five horses from burning stables }
						36		.15	1	1	Foul chimney		
	5	5						.02	1	1	Carelessness		
						3		.30	1	1	Rekindling of previous fire.		
10	10	10			Bates, Shay, Campbell, Miller.		9	.30	1	1	Overheated furnace flue.		
					Foreman Best, Engine 38	38	15	.40	1	1	Malicious mischief.		
					Orr, Wilhelm	44		.10	1	1	Foul chimney		
							7	.05	1	1	Carelessness.		
					Bates, Miller, Bresnan		9	.05	1	1	{ Child setting fire to wood- work with matches. }		
75	500	575	Engine 30	Engine 30	Bates, Campbell, Gicquel	24, 30	5, 8	.30	1	1	Not ascertained.		
500	300	800	H. & L. 9	Engine 33	Bates, Bresnan, Miller	20, 33	3, 9	.45	1	1	Carelessness		
						13		.30	1	1	Boys building bonfire.		
					Bates, Bresnan, Fisher								{ Smoke issuing from prem- ises No. 523 Hudson st. Smoke issuing from prem- ises No. 148 East 18th st. }

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.	
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.					Material Built of.					Area.
					Fire.	Indication of Fire. Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.						
1881.																		
April 24	7.55 p.m.	Still.....	N. E. cor. 129th st. and 3d ave.	1		1						1	Fruit stand.....		John Brady.....	Dealer in fruits, etc.....	On stand.....	
" 24	8.45 p.m.	Still.....	220 West 21st street.....	1		1						4	Brick.....	16 x 50	Lizzie Herbert.....	Dwelling.....	4th floor.....	
" 24	9.27 p.m.	565.....	203 East 55th street.....	1		1						3½	Brick.....	25 x 30	J. C. Cohen.....	Dwelling.....	3d floor.....	
" 25	8.04 a.m.	73.....			1	1												
" 25	8.45 a.m.	Still.....			1	1						1						
" 25	10.15 a.m.	Still.....	41 Park street.....	1		1						4	Brick.....	25 x 60	J. O'Brien.....	Dwelling.....	2d floor.....	
" 25	11.00 a.m.	Still.....	321 East 80th street.....	1		1						4	Brick.....	25 x 60	Rachael Goldstein.....	Dwelling.....	3d floor.....	
" 25	1.39 p.m.	588.....	1143 First avenue.....	1		1						4	Brick.....	25 x 60	William Rathler.....	Dwelling.....	3d floor.....	
" 25	2.02 p.m.	221.....			1	1						1						
" 25	3.56 p.m.	384.....	271 Third avenue.....	1		1						3	Brick.....	20 x 40	Charles Steifanis.....	Dwelling.....	3d floor.....	
" 25	7.40 p.m.	Still.....	160 Lewis street.....	1		1						4	Brick.....	25 x 50	Solomon Brinz.....	Dwelling.....	3d floor.....	
" 25	6.05 p.m.	Still.....	314 West 38th street.....	1		1						5½	Brick.....	25 x 50	Various families.....	Dwelling.....	Basement.....	
" 25	8.15 p.m.	Still.....	262 Broome street.....	1		1						5	Brick.....	25 x 60	{ Moses Levy and others..... }	Dwelling.....	3d floor.....	
" 25	10.25 p.m.	Still.....	93 Seventh street.....	1		1						4	Brick.....	25 x 40	Various families.....	Dwelling.....	1st floor.....	
" 26	8.49 a.m.	339.....	72 Fifth avenue.....	1		1						4	Brick, stone front	50 x 60	Charles Chitman.....	Dwelling.....	Basement.....	
" 26	9.25 a.m.	193.....	71 Suffolk street.....	1		1						5	Brick.....	25 x 30	{ Harris, Sinclair, and others..... }	Dwelling.....	5th floor.....	
" 26	3.00 p.m.	Still.....	122 East 88th street.....	1		1						5	Brick.....	25 x 60	Peter Deery.....	Dwelling.....	1st floor.....	
" 26	3.17 p.m.	452.....	382 Eleventh avenue.....	1		1						2	Brick, cor. iron..	25 x 50	James M. Hillery.....	Dealer in hay and feed..	1st floor.....	
" 26	6.38 p.m.	168.....	88 Grand street.....	1		1						4	Brick.....	25 x 100	Wuerth & Weise.....	Mfrs. of mouldings.....	2d floor.....	
" 26	11.38 p.m.	Still.....			1	1						1						
" 27	2.10½ a.m.	318.....	114 Sixth avenue.....	1		1						3½	Brick.....	25 x 60	Charles Drummond.....	Dwelling, etc.....	Attic.....	
" 27	2.56 p.m.	627.....	164 East 70th street.....	1		1						4	Brick, br. stone ft.	20 x 60	Joseph Strauss.....	Dwelling, etc.....	2d floor.....	
" 27	4.00 p.m.	Still.....	731 Ninth avenue.....	1		1						4	Brick.....	25 x 60	Moses Levy.....	Clothing store.....	1st floor.....	
" 27	5.13 p.m.	Still.....	18 Ludlow street.....	1		1						5	Brick.....	25 x 40	Aaron Blunt.....	Dwelling.....	3d floor.....	
" 27	9.35 p.m.	Still.....	5 Hester street.....	1		1						4	Brick.....	25 x 40	Samuel Alexander.....	Dwelling.....	3d floor.....	
" 27	11.32 p.m.	319.....			1	1												
" 28	1.46 a.m.	869.....	{ Elton avenue, bet. 156th and 157th streets..... }	1		1						2½	Frame.....	25 x 40	Berdima Wemer.....	Dwelling.....	1st floor.....	
" 28	7.05 a.m.	Still.....	153 West 33d street.....	1		1						4	Brick.....	20 x 50	Various families.....	Dwelling.....	2d floor.....	
" 28	10.40 a.m.	{ Circuit 4..... { Aut. Signal 43 }			1							1						
" 28	8.07 p.m.	462.....	38 West 35th street.....	1		1						3½	Brick, br. stone ft.	25 x 50	M. Gunerson.....	Dwelling.....	2d floor.....	
" 28	8.34 p.m.	193.....			1	1												
" 28	10.21 p.m.	522.....	751 Sixth avenue.....	1		1						4	Brick.....	25 x 60	Henry Roewer.....	Cleaner of feathers.....	2d floor.....	
" 29	12.05 a.m.	Still.....			1	1												
" 29	8.03 p.m.	194.....	47 Attorney street.....	1		1						3½	Frame, br. stone ft.	20 x 30	J. Gaudre and others.....	Dwelling.....	2d floor.....	
" 29	11.50 p.m.	Still.....	17 Front street.....	1		1						1	Brick.....	10 x 15	Bendell & Percell.....	Office, etc.....	1st floor.....	
" 30	12.58 p.m.	Still.....	Broadway, bet. 57th and 58th sts.	1		1							Fence.....					
" 30	4.01 p.m.	334.....	49 Tenth avenue.....	1		1						1	Frame.....	50 x 150	J. W. Wilson.....	Dealer in lumber.....	Roof.....	
" 30	7.25 p.m.	627.....	165 East 71st street.....	1		1						4	Brick, br. stone ft.	17 x 45	A. Shriver.....	Dwelling.....	1st floor.....	
" 30	7.26 p.m.	263.....	200 Mercer street.....	1		1						3	Brick.....	20 x 30	T. Overton, Jr.....	Carpenter shop.....	2d floor.....	
" 30	7.36 p.m.	{ Still & special call, Station 636..... }	1318 Third avenue.....	1		1						3	Brick.....	20 x 50	John M. Shea.....	Dealer in dry goods.....	1st floor.....	
" 30	8.45 p.m.	Still.....	206 West 23d street.....	1		1						4	Brick.....	25 x 55	Mrs. Hickey.....	Dwelling.....	Basement.....	
May 1	12.15 a.m.	Still.....	333 Third avenue.....	1		1						3	Frame.....	20 x 40	John Fitzsimmons.....	Dwelling.....	2d floor.....	
" 1	12.36 a.m.	338.....	39 West 14th street.....	1		1						5	Brick.....	25 x 80	Whitlock & Co.....	Dealers in military goods.	Cellar.....	
" 1	11.52 a.m.	534.....	365 West 52d street.....	1		1						2	Frame.....	20 x 35	N. Johnson.....	Dwelling.....	1st floor.....	
" 1	3.43 p.m.	181.....	471 Washington street.....	1		1						2½	Brick.....	25 x 50	Unoccupied.....		1st floor.....	
" 1	5.39 p.m.	771.....	{ Willis avenue, between 135th and 136th streets..... }	1		1						1	Frame.....	10 x 75	Richard Fox.....	Woodsheds, etc.....		
" 1	5.50 p.m.	Still.....	45 Crosby street (rear).....	1		1						5	Brick.....	25 x 40	Francisco Ramato.....	Dwelling.....	1st floor.....	
" 1	7.17 p.m.	{ Still & special call, Station 215..... }	278 Spring street.....	1		1						3	Brick.....	25 x 50	Henry Stephenson.....	Dwelling.....	2d floor.....	
" 1	7.18 p.m.	464.....	112 East 35th street.....	1		1						4	Brick, br. stone ft.	20 x 50	V. R. Cruger.....	Dwelling.....	2d floor.....	
" 1	10.05 p.m.	Still.....	341 East 10th street.....	1		1						5	Brick.....	25 x 60	Jacob Hahn.....	Dwelling.....	3d floor.....	
" 2	5.09 a.m.	264.....	698 Broadway.....	1		1						3	Brick.....	25 x 50	E. McNamee.....	Dwelling.....	3d floor.....	
" 2	6.23 a.m.	166.....	27 Wooster street.....	1		1						3	Brick.....	25 x 75	A. Rousseau.....	Confectionery.....	1st floor.....	
" 2	8.02½ a.m.	263.....	218 Greene street (rear).....	1		1						2½	Frame.....	20 x 25	Charles Coes.....	Dwelling.....	Attic.....	
" 2	9.17 a.m.	{ 69 and 2d alarm to 59..... }	243 Front street.....	1		1						4½	Brick.....	25 x 75	Broomer & Co.....	Dealers in lime, grain, etc.	4th floor.....	
" 2	5.20 p.m.	332 and 2d alarm.	73 Little 12th street (rear).....	1		1						1½	Brick.....	25 x 50	Perrin, Payson & Co.	Varnish and japan mfrs..	1st floor.....	
" 2			{ Extended to 73 Little 12th street (front)..... }									2	Brick.....	20 x 60	Perrin, Payson & Co.	Salesroom, etc.....	{ 508 to 512 West 13th st. (rear). { Little 12th st. (front)..... }	
" 2			{ Extended to 508 and 512 West 13th street (rear)..... }									1	Frame.....	60 x 100	Perrin, Payson & Co.	Tank-yard, etc.....	{ 508 West 13th street (front). }	
" 2			{ Extended to 508 West 13th street (front)..... }									2	Brick.....	25 x 75	Robert Beatil.....	Blacksmith shop.....		
" 2	5.57 p.m.	566.....	1050 Second avenue.....	1		1						3	Brick, br. stone ft.	20 x 45	A. Falk.....	Dwelling.....	1st floor.....	
" 2	9.05 p.m.	Still.....	47 and 49 Liberty street.....	1		1						5	Brick.....	50 x 90	Barker & Co.....	Auctioneers.....	2d floor.....	
" 3	3.41 a.m.	383.....	279 Third avenue.....	1		1						3	Brick.....	25 x 50	Leopold Leyersohn.....	Bakery.....	Basement.....	
" 3	4.25 a.m.	665.....	1568 Third avenue.....	1		1						4	Brick.....	25 x 60	John Dougherty.....	Dwelling.....	3d floor.....	
" 3	10.50 a.m.	Still.....	70 East Broadway.....	1		1						4	Brick.....	25 x 60	Mark Aronson.....	Dry goods.....	1st floor.....	
" 3	7.45 p.m.	Still.....	781 Eighth avenue.....	1		1						3	Brick.....	25 x 100	Terence Leonard.....	Furniture.....	3d floor.....	
" 3	10.00 p.m.	263.....	181 Greene street.....	1		1						3	Brick.....	25 x 50	Wm. Smith.....	Cigar store.....	1st floor.....	
" 3	11.45 p.m.	37.....	9 Fletcher street.....	1		1						3	Brick.....	20 x 40	B. C. Duffy.....	Cooperage.....	1st floor.....	
" 4	2.35½ a.m.	439.....	155 West 31st street (rear).....	1		1							Fence, etc.....				Yard.....	
" 4	12.30 p.m.	Still.....	{ 186th street, 10th avenue and Hudson river..... }	1		1						1	Frame.....	6 x 10	Charles Petra.....	Piggery.....	Floor.....	
" 4	6.41½ p.m.	376.....	202 West 23d street.....	1		1						4	Brick.....	25 x 60	Mrs. Brown.....	Dwelling.....	3d floor.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTINGUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
.....	.....	.....	.....	.....	.....	.....	.....	H. M.	.....	.....	.....	.....	.....	.....
.....	\$15	\$15	.....	.....	.....	.....	.....	.02	1	.....	.....	Kerosene lamp exploding...	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	.....	.....	{ Window curtain taking fire from gas-light..... }	.....	.....
\$30	500	530	Engine 8	Engine 8	Fisher, Reilly.....	8.....	2.....	.15	1	.....	.....	Defective flue.....	.....	{ Back-draught of chimney, No. 65 Warren street.
.....	.....	.....	.....	.....	Bates, Bonner.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 20 Vesey street.
.....	.....	.....	.....	.....	.....	.....	.....	.10	1	.....	.....	{ Overheated stove-pipe ig- niting fire-board..... }	.....	.....
20	140	160	.....	.....	.....	.....	.....	.15	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	Orr.....	39.....	.....	.05	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 185 Bowery.
25	50	75	Engine 16	Engine 16	Bresnan.....	16.....	7.....	.15	1	.....	.....	{ Soot in chimney igniting mantel..... }	.....	.....
.....	.....	.....	.....	.....	.....	11.....	.....	.05	1	.....	.....	Kerosene lamp upsetting...	.....	.....
20	.....	20	.....	.....	.....	26.....	.....	.05	1	.....	.....	Defective chimney.....	.....	.....
.....	5	5	.....	.....	.....	.....	.....	.03	1	.....	.....	Kerosene lamp upsetting...	.....	.....
.....	15	15	.....	.....	.....	.....	.....	.05	1	.....	.....	Carelessness.....	.....	.....
.....	50	50	.....	.....	Bates, Bresnan, Gicquel.....	.....	3.....	.30	1	.....	.....	Foul chimney.....	.....	.....
50	260	310	Engine 17	Engine 17	Bates, Miller, Bresnan.....	17.....	6.....	.10	1	.....	.....	Child playing with fire...	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.04	1	.....	.....	{ Heat from stove igniting wooden partition..... }	.....	.....
.....	50	50	Engine 34	Engine 34	Fisher.....	34.....	4.....	.15	1	.....	.....	Sparks from locomotive.....	.....	.....
150	4,500	4,650	Engine 20	Engine 20	{ Bates, Shay, Bonner, Miller, Rowe..... }	17, 20, 31.....	9, 8.....	1.30	.....	.....	.....	.....	{ Private Edward Keyes, H. & L. Co. No. 9, hand cut with glass..... }	{ Smoke issuing from prem- ises No. 528 Grand street.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
100	200	300	Engine 18	Engine 18	Bates, Gicquel, Campbell.....	18.....	5.....	.30	1	.....	.....	.....	{ Charles Drummond burned to death..... }	.....
.....	.....	.....	.....	.....	Fisher, Wilhelm.....	39.....	.....	.15	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.10	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	.....	.....	{ Soot in chimney taking fire and igniting fire- board..... }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	.....	.....	Kerosene oil lamp upsetting...	.....	.....
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Sent out by President King to show efficiency of De- partment to visitors.
200	.....	200	Engine 41	Engine 41	Rhodes.....	41 and Ch. 1.....	17, 18.....	.50	.....	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	26.....	.....	.30	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Bonner.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Workmen at 17 Vande- water street striking automatic instrument.
.....	30	30	.....	.....	Fisher, Reilly.....	.....	.....	.08	1	.....	.....	{ Window curtain taking fire from gas-light..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 144 Delancey street.
.....	60	60	.....	.....	Reilly, Fisher.....	.....	.....	.03	1	.....	.....	{ Feathers igniting from kerosene lamp..... }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 155 West Broadway.
25	100	125	.....	.....	Bates, Miller, Bresnan.....	.....	6.....	.10	1	.....	.....	Children playing with fire..	.....	.....
.....	.....	.....	.....	.....	.....	10.....	.....	.03	1	.....	.....	{ Workmen burning rub- bish, etc..... }	.....	.....
.....	.....	.....	.....	.....	.....	25.....	.....	.01	1	.....	.....	{ Boys making bonfire against fence..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Gicquel, Reilly.....	.....	5.....	.05	1	.....	.....	Sparks from chimney.....	.....	.....
.....	.....	.....	.....	.....	Orr, Fisher, Wilhelm.....	39.....	.....	.10	1	.....	.....	Foul chimney.....	.....	.....
300	300	600	Engine 33	Engine 33	Bates, Gicquel.....	13, 20, 33.....	5, 9.....	1.00	.....	.....	.....	Carelessness.....	.....	.....
200	452	652	.....	.....	Orr, Fisher.....	39.....	13.....	.30	1	.....	.....	{ Goods in show-window igniting from gas-light. }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	16.....	.....	.15	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	Engine 18	Engine 18	Bates, Gicquel.....	14, 18.....	3.....	.30	.....	.....	.....	{ Felting around boiler ig- niting..... }	.....	.....
.....	.....	.....	.....	.....	Reilly, Fisher.....	.....	.....	.10	1	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Shay, Campbell.....	.....	.....	.03	1	.....	.....	Boys building bonfire.....	.....	.....
150	.....	150	.....	.....	Orr.....	36, 41.....	17.....	.32	.....	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	20.....	.....	.05	1	.....	.....	Foul chimney.....	.....	.....
.....	100	100	.....	.....	Campbell.....	30.....	8.....	.10	1	.....	.....	Foul chimney.....	.....	.....
200	1,200	1,400	.....	.....	Fisher, Reilly.....	.....	7.....	.10	1	.....	.....	{ Window curtain igniting from lamp..... }	.....	.....
10	200	210	.....	.....	.....	28.....	.....	.15	1	.....	.....	Carelessness.....	.....	.....
100	50	150	Engine 33	Engine 33	{ Shay, Campbell, Bresnan, Gicquel..... }	33.....	3, 9.....	.15	.....	.....	.....	Carelessness.....	.....	.....
.....	10	10	.....	.....	Shay, Campbell, Bonner.....	.....	8.....	.05	1	.....	.....	{ Gas-light igniting wood- work..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Campbell, Gicquel.....	33.....	9.....	.20	1	.....	.....	Foul chimney.....	.....	.....
1,000	350	1,350	Engine 12	Engine 12	{ Bates, Shay, Rowe, Bon- ner, Miller, Campbell..... }	4, 6, 7, 9, 12, 29, 31, 32.....	1, 6, 8, 10.....	3.15	.....	.....	.....	Carelessness.....	.....	.....
5,200	29,120	34,320	Engine 3	Engine 3	{ Bates, Shay, Campbell, Gic- quel, Bresnan, Reilly..... }	3, 14, 18, 19, 24, 30, { 33, 34, 43..... }	3, 5, 9, 12.....	9.00	.....	.....	.....	{ Japan taking fire on prem- ises..... }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	Fisher.....	.....	.....	.02	1	.....	.....	{ Children playing with matches..... }	.....	.....
20	20	40	.....	.....	.....	4.....	.....	.05	1	.....	.....	Carelessness.....	.....	.....
150	75	225	Engine 16	Engine 16	Bates, Bresnan, Fisher.....	14, 16.....	3, 7.....	.30	.....	.....	.....	Fat boiling over on furnace.	.....	.....
100	25	125	H. & L. 13	H. & L. 13	Orr, Wilhelm.....	.....	13.....	.20	1	.....	.....	{ Window curtain taking fire from gas..... }	.....	.....
.....	.....	.....	.....	.....	.....	9.....	.....	.02	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.08	1	.....	.....	Escaped gas igniting.....	.....	.....
.....	.....	.....	.....	.....	Bates, Campbell, Gicquel.....	.....	.....	.01	1	.....	.....	Kerosene lamp falling.....	.....	.....
100	50	150	Engine 4	Engine 4	Bates, Rowe, Bonner.....	4, 32.....	1, 10.....	.20	.....	.....	.....	Carelessness.....	.....	.....
10	.....	10	Engine 1	Engine 1	Reilly, Fisher.....	1.....	12.....	.10	1	.....	.....	Malicious mischief.....	.....	.....
10	.....	10	.....	.....	.....	.....	.....	.10	1	.....	.....	Incendiary.....	.....	{ Chas. Petra convicted and sent to Juvenile Asylum.
25	190	215	.....	.....	Bates, Gicquel, Reilly.....	.....	12.....	.20	1	.....	.....	{ Window curtain taking fire from gas-light..... }	.....	.....

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.	
DATE.	HOUR.	SIGNAL.		CAUSE.		IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.					Number of Stories.	Material Built of.					Area.
				Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.	Citizen Key Holders.							
1881.																				
May 5	4.38 a.m.	Still	95 Hudson street	1		1							3	Brick	25 x 50	Nicholas Gobey	Bakery	Basement		
" 5	11.00 a.m.	Still	1420 Third avenue	1		1			1				1	Brick	20 x 60	Martin Lane	Grocery store	Awning		
" 5	12.40 p.m.	351	515 West 19th street (rear)	1		1							3	Brick	25 x 25	Mary Arthur	Dwelling	Roof		
" 5	12.54 p.m.	577	Front of 207 East 59th street	1		1					1			{Box of giant powder}				In powder		
" 5	6.15 p.m.	Still	432 Third avenue	1		1				1			4	Brick	25 x 50	Doctor Groute	Dentist office	4th floor		
" 5	6.18 p.m.	Still	377 Seventh avenue	1		1					1		4	Brick	25 x 50	F. Bauer	Lager beer saloon	1st floor		
" 5	11.18 p.m.	219	148 and 150 Elizabeth street	1		1					1		4	Brick	50 x 100	Wm. E. Clark & Co.	Provisions	1st floor		
" 6	10.34 a.m.	675	{5th avenue, between 94th and 95th streets}	1		1					1		6	Frame	10 x 14	M. Gillenger	Stable	1st floor		
" 6	11.15 a.m.	649	{78th street, Avenue A and East river}	1		1					1		1½	Frame	26 x 32	W. Stack	Dwelling	1st floor		
" 6	4.30 p.m.	64	7 Barclay street	1		1					1			Brick, br. stone ft.	25 x 80	Mack & Co.	{Manufacturers mineral waters}	Sub-cellar		
" 6	5.33 p.m.	Still	57 Ferry street	1		1							2	Brick	22 x 22	James Lyons	Dealer in leather	2d floor		
" 7	8.49 a.m.	486	309 East 42d street	1		1					1		4	Brick	20 x 45	L. Metyger	Dwelling	Cellar		
" 7	{9.58 a.m. {Aut. Signal 13. 9.58½ a.m. {64.}}			1		1														
" 7	10.17 a.m.	Still			1	1							1							
" 7	2.06 p.m.	Still	Castle Garden, Pier 1, N. R.	1		1				1				Fence, etc.		Com'rs of Emigration	Receiving station	Yard		
" 7	7.45 p.m.	147	215 Canal street	1		1					1		5	Brick, br. stone ft.	20 x 50	Fussell & Co.	Mfrs. window shades	3d floor		
" 7	5.45 p.m.	{Still and special call, Station 84.}	68 Thomas street	1				1		1			4	Brick	25 x 75	H. C. Higgins	Restaurant	Roof		
" 7	9.13 p.m.	474	359 West 40th street	1		1					1		5	Brick	25 x 60	Lewis Jaretsky	Groceries	1st floor		
" 7	10.40 p.m.	944	Westchester road and Marion st.		1	1				1			2	Brick	80 x 30	M. Eddy & Co.	Tape manufacturers	1st floor		
" 8	5.50 a.m.	897	Boston ave., 169th and 170th sts.	1		1				1			2½	Frame	25 x 30	Unoccupied		1st floor		
" 8	11.20 a.m.	Still	43 Henry street (rear)	1		1					1		4	Brick	25 x 40	Ellen McCarthy	Dwelling	3d floor		
" 8	2.00 p.m.	12	59 Washington street	1		1					1		5	Brick	25 x 60	M. Maloney	Groceries	1st floor		
" 8	2.16 p.m.	Still			1	1							1							
" 9	9.07½ a.m.	172	47 Norfolk street	1		1					1		3	Brick	20 x 25	F. Creigar and others	Dwelling	2d floor		
" 9	3.10 p.m.	Still	1284 Third avenue	1		1							1	Frame	20 x 35	Frank Warren	Groceries	Cellar		
" 9	9.46 p.m.	Still			1	1					1									
" 10	9.35 a.m.	127	99 White street	1		1					1		4	Brick	20 x 50	Charles Alt	Manufacturer eye-glasses	4th floor		
" 10	10.20 a.m.	Still	36 Vandam street	1		1							4	Brick	25 x 40	Mrs. Amsel	Dwelling	2d floor		
" 10	11.35 a.m.	Still			1	1							1							
" 10	6.14 p.m.	Still	167 Varick street	1		1							3	Brick	20 x 40	Frank Rogers	Dwelling	2d floor		
" 10	7.10 p.m.	896			1	1							1							
" 11	3.06 a.m.	484	484 Lexington avenue	1		1					1		4½	Brick, br. stone ft.	22 x 50	O. D. Pomeroy	Dwelling	3d floor		
" 11	8.41 a.m.	82	16 and 18 Jay street	1		1					1		4	Brick	50 x 100	Baker & Clark	Pork-packing establishm't.	1st floor		
" 11	10.05 a.m.	Still	13 West 30th street	1		1							5	Brick, br. stone ft.	25 x 75	A. Wallack	Dwelling	1st floor		
" 11	11.40 a.m.	187			1	1														
" 11	3.13 p.m.	{Circuit 9. Aut. Signal 5.}			1	1					1									
" 11	6.20 p.m.	377			1	1					1									
" 11	7.17 p.m.	182	288 Hudson street (rear)	1		1					1		2½	Frame	30 x 15	A. Fagarra	Dwelling	Attic		
" 11	10.32 p.m.	789	151 and 153 East 129th street	1		1					1		1	Frame	50 x 50	P. Owens	Planing mill, etc.	Cellar		
" 12	10.29 a.m.	Still	2211 Third avenue	1		1							3	Frame	25 x 25	Mary Crookshank	Dwelling	2d floor		
" 12	3.05 p.m.	{Circuit 3. Aut. Signal 4.}			1								1							
" 12	5.22 p.m.	128	58 Baxter street	1		1					1		1	Frame	12 x 15	Felia Gardin	Dwelling	1st floor		
" 12	6.19 p.m.	869	164th st., Boston & Grove aves.	1		1					1		3	Frame	40 x 40	A. J. Parker	Dwelling	Basement		
" 12	7.35 p.m.	163	221 Hudson street	1		1					1		3	Brick	20 x 50	M. Rothman	Millinery goods	1st floor		
" 12	7.47 p.m.	{Special call & Station 145.}			1			1		1										
" 12	9.32 p.m.	86	318 Broadway	1		1					1		5	Brick	25 x 100	E. A. King	Designer	5th floor		
" 12	10.56 p.m.	375	226 Eighth avenue	1		1					1		2½	Brick	20 x 50	Bernard Jacobs	Mfr. of furniture	1st floor	2d floor	
" 13	1.17 p.m.	174	172 Clinton street	1		1					1		2½	Brick	20 x 30	Mrs. Schwartz	Dwelling	Attic		
" 13	8.00 p.m.	Still	424 East 11th street	1		1							5	Brick	25 x 50	Mary Tamany	Dwelling	2d floor		
" 13	9.39 p.m.	225	132 Suffolk street	1		1					1		2½	Brick	20 x 25	D. Meade	Dwelling	2d floor		
" 13	11.49 p.m.	829	Dover street and Lind avenue	1		1				1			1	Frame	25 x 15	James McNamee	Storage	2d floor	Adjoining building	
" 13			{Extended to Dover street and Lind avenue}										2	Frame	30 x 30	John Savor	Stable			
" 13	11.49 p.m.	282	148 to 158 Bank street	1		1					1		3	Brick	50 x 50	Geo. S. Small	Planing mill, etc.	1st floor		
" 14	6.14 p.m.	Still	473 East Houston street	1		1					1		4	Brick	25 x 60	August Krulman	Dwelling	1st floor		
" 14	6.30 p.m.	Still	{148th street, Courtland and 3d avenues}	1		1							2½	Frame	20 x 40	John Kulet	Dwelling	2d floor		
" 14	6.55 p.m.	388 and 2d alarm.	509 and 511 East 18th street	1		1					1		3	Brick	50 x 100	John Jennings & others	Builders	1st floor	3d floor	
" 14	7.14 p.m.	{437 and 3d alarm to 438.}	233 and 235 West 29th street	1		1					1		2	Brick	50 x 100	Carey & Moen	Wire manufactory	1st floor		
" 14	10.04 p.m.	216	94 and 96 Thompson street	1		1					1		3	Brick	50 x 30	Washington Brown	Stable	1st floor	2d floor	
" 14	11.45 p.m.	Still	109 Barrow street	1		1							3½	Brick	25 x 40	Thomas Moore	Dwelling	2d floor		
" 15	11.37 a.m.	461	629 Sixth avenue	1		1					1		4	Brick	25 x 50	Geo. E. Howard	Dwelling	3d floor		
" 15	6.00 p.m.	Still	313 East 45th street	1		1					1		5	Brick	25 x 70	Michael Burke	Dwelling	3d floor		
" 15	7.00 p.m.	Still	46 Vandam street	1		1				1			2½	Brick	25 x 40	Mr. Clark	Dwelling	Basement		
" 15	10.00 p.m.	127	151 Centre street	1		1					1		2	Brick	25 x 50	L. Schmidt	Restaurant	1st floor		
" 16	1.49 a.m.	195			1	1					1									
" 16	4.58 a.m.	553	487 Tenth avenue	1		1					1		4	Brick	25 x 60	Jacob Subzman	Bakery	Basement		
" 16	6.35 a.m.	Still	134 Pitt street	1		1							3	Frame, brick ft.	20 x 35	Sol. Dauzmaer	Dwelling	3d floor		
" 16	10.50 a.m.	Still	4 Bayard street	1		1							6	Brick	25 x 40	Joseph Karl	Dwelling	5th floor		

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
.....	.....	.....	.....	.....	.....	27.....	.....	H. M. .10	I	.....	.....	Tar taking fire on stove .....	.....	.....
.....	\$45	\$45	.....	.....	.....	.....	.....	.05	I	.....	.....	Sparks from locomotive .....	.....	.....
\$50	.....	50	.....	.....	Bates, Gicquel, Reilly .....	.....	12.....	.40	I	.....	.....	{ Sparks from stove-pipe } igniting roof .....	.....	.....
.....	.....	.....	.....	.....	Fisher, Reilly .....	.....	.....	.02	I	.....	.....	Igniting of dynamite .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.05	I	.....	.....	Incendiary .....	.....	.....
.....	20	20	.....	.....	.....	1.....	.....	.10	I	.....	.....	Escaped gas igniting .....	.....	.....
.....	15	15	Engine 20	Engine 20	Bates, Miller, Bresnan .....	20.....	9.....	.10	I	.....	.....	Hams falling in fire .....	.....	.....
10	.....	10	Engine 22	Engine 22	Wilhelm .....	22.....	13.....	.20	I	.....	.....	Carelessness .....	.....	.....
.....	.....	.....	.....	.....	Wilhelm .....	44.....	.....	.10	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	.....	.....	Bates, Rowe .....	.....	10.....	.03	I	.....	.....	Defective flue .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.15	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	Engine 21	Engine 21	Fisher, Reilly .....	21.....	2.....	.10	I	.....	.....	Carelessness .....	.....	.....
.....	.....	.....	.....	.....	Shay, Rowe .....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 30 and 32 Bar- clay street.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 434 West 17th street.
10	.....	10	.....	.....	.....	43.....	.....	.15	I	.....	.....	{ Employees burning straw } in yard .....	.....	.....
.....	.....	.....	.....	.....	Pates, Miller, Rowe .....	.....	6.....	.05	I	.....	.....	Not ascertained .....	.....	.....
25	.....	25	Engine 27	Engine 27	Foreman Engine Co. 27 .....	27.....	8.....	.35	I	.....	.....	Defective flue .....	.....	.....
.....	.....	.....	.....	.....	Reilly, Fisher .....	.....	.....	.05	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	.....	.....	.....	45.....	.....	.30	I	.....	.....	.....	.....	Fire outside city limits.
300	.....	300	Engine 42	Engine 42	Rhodes .....	42.....	18.....	.50	I	.....	.....	Vagrants entering premises .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.06	I	.....	.....	Foul chimney .....	.....	.....
20	10	30	.....	.....	Bates, Bonner, Rowe .....	6.....	10.....	.10	I	.....	.....	{ Foreman Geo. W. Quackenbush, Engine Co. No. 10, leg slight- ly injured .....	.....	{ Smoke issuing from prem- ises No. 85 Liberty street.
.....	.....	.....	.....	.....	Rowe .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
150	200	350	Engine 17	Engine 17	Bates, Miller, Bresnan .....	17.....	6.....	.10	I	.....	.....	Child playing with matches .....	.....	.....
.....	.....	.....	.....	.....	.....	44.....	.....	.05	I	.....	.....	Carelessness .....	.....	.....
800	1,500	2,300	Engine 31	Engine 31	Bates, Miller, Bresnan .....	7, 12, 31 .....	1, 8.....	.50	I	.....	.....	{ Foreman Wm. Birmingham, Engine Co. No. 12, hand severely cut with glass .....	.....	{ Smoke issuing from prem- ises No. 8 Catharine street.
.....	.....	.....	.....	.....	.....	.....	.....	.10	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 8 West 20th street.
20	.....	20	.....	.....	.....	30.....	.....	.10	I	.....	.....	Mice gnawing matches .....	.....	.....
.....	.....	.....	.....	.....	Rhodes .....	.....	.....	.....	.....	.....	.....	Not ascertained .....	.....	.....
250	300	550	Engine 21	Engine 21	Fisher, Reilly .....	21.....	2.....	.20	I	.....	.....	Spontaneous combustion .....	.....	.....
.....	.....	.....	.....	.....	Bates, Bonner, Campbell .....	.....	.....	.10	I	.....	.....	Hams falling in fire .....	.....	.....
.....	.....	.....	.....	.....	.....	1.....	.....	.02	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	.....	.....	Bates, Bresnan .....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke from premises No. 173 Bowery.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Not ascertained .....	.....	.....
.....	.....	.....	.....	.....	Bates, Gicquel, Reilly .....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 374 Sixth ave.
15	10	25	.....	.....	Bates, Campbell, Gicquel .....	.....	.....	.02	I	.....	.....	Kerosene lamp explosion .....	.....	.....
.....	.....	.....	.....	.....	Wilhelm, Rhodes .....	.....	14.....	.30	I	.....	.....	{ Sparks from furnace ignit- ing rubbish on top of boiler .....	.....	.....
10	.....	10	.....	.....	.....	35.....	.....	.10	I	.....	.....	{ Sparks from stove-pipe } igniting soot in chimney .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Heat on premises starting automatic instrument.
25	.....	25	Engine 31	Engine 31	Bates, Rowe, Miller .....	31.....	1.....	.15	I	.....	.....	{ Heat from stove-pipe } igniting roof .....	.....	.....
.....	.....	.....	.....	.....	Rhodes .....	.....	18.....	.10	I	.....	.....	Phosphorus igniting .....	.....	.....
.....	50	50	.....	.....	Bates Campbell, Gicquel .....	.....	.....	.02	I	.....	.....	{ Foreman Robt. Farrell, En- gine Co. No. 43, head injured ..	.....	{ Sent out by telegraph operator, on account of receiving Automatic Signal 153.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Unknown .....	.....	.....
500	300	800	Engine 31	Engine 31	Bates, Shay, Rowe .....	31.....	1, 8.....	.20	I	.....	.....	Mice gnawing matches .....	.....	.....
800	1,442	2,242	H. & L. 12	Engine 19	Bates, Gicquel, Reilly .....	1, 3, 19.....	5, 12.....	1.30	I	.....	.....	Not ascertained .....	.....	.....
50	50	100	Engine 17	Engine 17	Miller .....	17.....	6, 9.....	.10	I	.....	.....	{ Sparks from chimney ig- niting roof .....	.....	.....
.....	.....	.....	.....	.....	.....	28.....	.....	.15	I	.....	.....	Foul chimney .....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan .....	.....	.....	.02	I	.....	.....	Kerosene lamp exploding .....	.....	.....
105	60	165	H. & L. 19	H. & L. 19	Rhodes .....	.....	19.....	1.10	I	.....	.....	Vagrants entering premises .....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	50	50	H. & L. 12	Engine 24	Bates, Gicquel, Campbell .....	3, 24.....	5.....	.20	I	.....	.....	{ Sparks from furnace ignit- ing rubbish .....	.....	.....
25	10	35	.....	.....	.....	11.....	.....	.10	I	.....	.....	Carelessness with matches .....	.....	.....
.....	.....	.....	.....	.....	.....	41.....	.....	.15	I	.....	.....	Foul chimney .....	.....	.....
2,400	3,600	6,000	Engine 5	Engine 5	{ Bates, Shay, Bresnan, } { Fisher, Reilly, Gicquel.. }	5, 11, 14, 16, 17, 21, } 25, 28.....	3, 7, 11, 12	3.30	I	.....	.....	{ Sparks from furnace ignit- ing shavings .....	.....	{ Two workmen severely burned; Fireman Thos. Larkin, H. & L. Co. No. 11, hand and foot cut .....
50	100	150	Engine 1	Engine 1	Bates, Shay, Reilly, Gicquel .....	1, 19, 26, 34.....	4.....	1.20	I	.....	.....	{ Sparks from furnace ignit- ing shavings .....	.....	.....
50	300	350	Engine 13	Engine 13	Bates, Gicquel .....	13, 20.....	8, 9.....	1.00	I	.....	.....	Carelessness .....	.....	.....
.....	150	150	.....	.....	.....	.....	.....	.05	I	.....	.....	{ Curtain taking fire from } matches .....	.....	.....
.....	.....	.....	.....	.....	Reilly, Fisher .....	26.....	.....	.10	I	.....	.....	Foul chimney .....	.....	.....
10	20	30	.....	.....	.....	.....	.....	.03	I	.....	.....	{ Sparks from stove-pipe } igniting mantel .....	.....	.....
.....	.....	.....	.....	.....	.....	30.....	.....	.10	I	.....	.....	Foul chimney .....	.....	.....
50	200	250	Engine 31	Engine 31	Bates, Bonner, Miller .....	31.....	1, 8.....	.30	I	.....	.....	Not ascertained .....	.....	.....
.....	.....	.....	.....	.....	Shay, Miller, Bresnan .....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 482 Grand street.
20	25	45	Engine 23	Engine 2	Reilly, Fisher .....	2.....	2, 4.....	.10	I	.....	.....	Fat taking fire on stove .....	.....	.....
.....	.....	.....	.....	.....	.....	11.....	.....	.05	I	.....	.....	Foul chimney .....	.....	.....
50	150	200	.....	.....	.....	9.....	.....	.10	I	.....	.....	Child playing with matches .....	.....	.....

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.	BY WHOM COMMUNICATED.						Material Built of.	Area.						
						Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.			Automatic Signals.	Attaches of Fire Department.				
1881.																			
May 16	4.40 p.m.	Still																	
" 16	7.48 p.m.	856	175th st. and Kingsbridge road.										2 1/2	Brick	22 x 30	Patrick Coughlin	Dwelling	1st floor	
" 17	11.05 a.m.	Still																	
" 17	12.19 p.m.	553	823 Tenth avenue.										5	Brick	25 x 50	Peter Cooney	Dwelling	1st floor	
" 17	6.56 p.m.	265	91 Bleecker street.										5	Brick, marble ft.	25 x 100	Myer Bros	Fancy feathers	Cellar	
" 18	9.46 a.m.	677	205 East 92d street.										3	Frame	30 x 40	Peter Hand	Dwelling	2d floor	
" 18	5.40 p.m.	Still	24 Charles street.										3	Brick	25 x 50	Jane E. Norris	Dwelling	Basement	
" 18	9.24 p.m.	471	546 West 41st street.										1	Frame	25 x 60	Robinson & Wilson	Iron foundry	1st floor	
" 19	1.48 1/2 a.m.	665	1579 Third avenue.										1	Frame	25 x 25	P. Murphy	Stable	1st floor	1581 Third avenue.
" 19			Extended to 1581 Third avenue.										1	Frame	12 x 40	P. Gorn	Bowling alley, etc.		
" 19	8.35 p.m.	132																	
" 19	10.50 p.m.	829																	
" 20	4.50 p.m.	Still	696 and 698 Sixth avenue										5	Brick	59 x 100	Richard Mears	Hotel, etc	Basement	
" 20	5.04 p.m.	474	548 Ninth avenue										5	Brick	25 x 60	Ellen Imhoff	Dwelling	3d floor	
" 21	12.23 a.m.	87	57 Duane street.										2 1/2	Frame, iron ft.	40 x 100	Sylvester & Frank	Wagon builders	2d floor	
" 21	8.45 p.m.	Still	216 West 31st street.										4	Brick	25 x 50	Gilbert L. Young	Dwelling	4th floor	
" 21	9.17 p.m.	Still	205 Greenwich street.										3	Brick	25 x 50	Mary Bremer	Dwelling	3d floor	
" 22	9.00 a.m.	Still	127 West 29th street.										4	Brick	25 x 50	Mrs. Sauteria	Dwelling	Basement	
" 22	1.40 p.m.	Still	41 Oak street.										3	Brick	25 x 35	Timothy McCarthy	Dwelling	3d floor	
" 22	8.15 p.m.	Still																	
" 22	10.38 p.m.	Still	24 Allen street.										5	Brick	25 x 50	Song Long	Laundry	1st floor	
" 23	8.43 a.m.	329	417 East 10th street.										3	Brick	25 x 50	J. McNally	Restaurant	1st floor	
" 23	11.35 a.m.	Still	448 West 45th street.										4	Brick	25 x 60	Mrs. Buckridge	Dwelling	1st floor	
" 23	2.43 p.m.	198																	
" 23	8.46 p.m.	Still	36 East Broadway (rear)										1	Frame	15 x 15	R. Cohen	Woodshed, etc.	Roof	
" 24	5.17 a.m.	47	92 William street.										5	Brick	40 x 100	Snyder & Block	Printers	5th floor	
" 24	1.20 p.m.	Still	403 East Houston street.										4	Brick	25 x 50	David Solomon	Dwelling	2d floor	
" 24	2.30 p.m.	Still	218 West 48th street.										3	Brick	25 x 50	H. Jacobs	Dwelling	2d floor	
" 24	10.07 p.m.	Still	55 Crosby street										5	Brick	25 x 75	Prospect Boulder	Dwelling	4th floor	
" 25	8.44 a.m.	73	66 Warren street.										5	Brick	25 x 75	J. Casker	Drugs	2d floor	
" 25	1.03 p.m.	179	600 Grand street.										3	Frame	25 x 30	Thos. Wilson and ors.	Drugs	2d floor	
" 25	7.19 p.m.	37	74 Pine street.										5	Brick	25 x 65	John Burke	Dwelling	3d floor	
" 25	8.12 p.m.	477	1441 to 1447 Broadway										3	Brick	100 x 200	Bial & Co	Concert hall	Roof	
" 25	8.10 p.m.	Still	348 West 37th street										4	Brick	25 x 60	Margaret Mahoney	Dwelling	3d floor	
" 26	6.58 p.m.	339	22 West 14th street										5	Brick	25 x 95	Johnson & Co.	Ladies' trimmings.	Basement	
" 26	11.40 a.m.	Still	187 Spring street.										6	Brick	30 x 45	John Carronin	Dwelling	3d floor	
" 27	2.00 p.m.	Still	228 West 20th street										3	Brick	25 x 45	Mrs. Murray	Dwelling	Cellar	
" 27	3.06 p.m.	526																	
" 27	4.40 p.m.	Still	669 Third avenue										5	Brick, br. stone ft.	25 x 60	Mr. Murray & others	Dwelling	Basement	
" 27	8.20 p.m.	Still	102 West 14th street										3	Brick	20 x 60	John Scheffler	Lager bier saloon	2d floor	
" 27	9.45 p.m.	287	2 Christopher street.										5	Brick	20 x 60	George Keyes	Dwelling	1st floor	
" 27	11.01 p.m.	473																	
" 27	11.08 p.m.	Still	181 Clinton street										4	Brick	25 x 20	Jacob Gross	Dwelling	4th floor	
" 28	2.20 a.m.	Still	77 Tompkins Market										1	Frame	6 x 10	John Smith	Fruit stand		
" 28	1.51 p.m.	562	43 West 55th street.										4	Brick, br. stone ft.	25 x 60	Jane Carman	Dwelling	1st floor	
" 28	5.46 p.m.	144 and 2d alarm.	60 Walker street.										5	Brick	25 x 80	L. H. Rice & Co.	Manufacturers of shirts.	Cellar	1st floor.
" 28	9.15 p.m.	233	62 King street										3	Brick	25 x 50	Mrs. Mills	Dwelling	1st floor	
" 29	9.40 a.m.	236	165 Wooster street.										2 & 3	Brick	25 x 100	Louis Levy	Dealer in rags.	Cellar	
" 29	11.24 a.m.	162																	
" 29	5.45 p.m.	Still	203 Washington street.										3	Brick	25 x 65	John Duane	Liquors	1st floor	
" 30	11.28 a.m.	617	110 East 66th street.										2	Brick	25 x 75	A. C. H. Stephens	Stable	2d floor	
" 30	2.20 p.m.	236	56 South 5th avenue.										5	Brick	25 x 50	M. Melchior	Restaurant	1st floor	
" 30	2.41 p.m.	898																	
" 30	5.55 p.m.	168																	
" 30	7.49 p.m.	Still																	
" 30	9.56 p.m.	238	11 East Houston street.										4	Brick	25 x 60	M. Marks	Tailor shop	1st floor	
" 30	10.37 p.m.	655																	
" 31	3.00 a.m.	Still	352 and 354 Sixth avenue.										3	Brick	25 x 50	Victor Varine	Lager bier saloon	Basement	
" 31	11.47 a.m.	296	97 East 8th street.										5	Brick	25 x 60	Frank Bolk and others	Dwelling	4th floor	
" 31	5.22 p.m.	Still	152 West 28th street.										5	Brick	25 x 50	James A. Flanagan	Dwelling	4th floor	
" 31	9.00 p.m.	Still	189 and 191 Sixth avenue.										4	Brick	50 x 100	Sheppard Knapp	Carpets	2d floor	
June 1	12.06 p.m.	Still	217 Fifth street.										5	Brick	25 x 60	Various families	Dwelling	Cellar	
" 1	9.16 p.m.	88																	
" 1	10.03 p.m.	756	215 East 122d street.										2 1/2	Frame	35 x 35	P. F. Davids	Dwelling	Attic	
" 2	7.30 a.m.	Still	409 Ninth street.										4	Brick	25 x 40	Francis Coehing	Dwelling	2d floor	
" 2	11.55 a.m.	Still	548 Eighth avenue										4	Brick	20 x 50	Various families	Dwelling	2d floor	
" 2	1.34 p.m.	212	136 Charlton street.										2	Brick	25 x 25	Alexander Searles	Dwelling	2d floor	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE. Fire Extinguishers, Hydrant Streams, etc.	How EXTINGUISHED. One Engine Stream. Two or Three Engine Streams. Exceeding Three Engine Streams.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.					
					Foreman Best, Engine 38			H. M.				{ Smoke issuing from premises No. 451 West 44th street.
					Fisher			.15	1	Foul chimney		{ Smoke issuing from premises 4th avenue, near Devco street.
\$800	\$800		Engine 33	Engine 33	Bates, Gicquel, Bresnan	33		.10	1	Vapor from benzine igniting.	Two employees severely burned	
					Wilhelm			.13	.05	{ Heat from stove-pipe igniting wooden partition }		
					Reilly, Fisher	2		1.30	1	Foul chimney		
\$10	145	155	Engine 2	Engine 2	Wilhelm	22, 44		.10	1	{ Spontaneous combustion of oily waste }		
75	260	335	H. & L. 13	Engine 22				.55	1	Not ascertained		
					Bates, Miller, Rowe							{ Steam issuing from premises Nos. 48 and 50 Bowery.
					Rhodes					Not ascertained		
25		25						.15	1	{ Heat from range-pipe igniting ceiling }		
10		10			Reilly			.05	1	{ Overheated stove-pipe igniting mantel }		
125	800	925			Bates, Bonner, Rowe	7, 12, 31		1.15	1	{ Heat from furnace igniting woodwork }		
	50	50						.02	1	Kerosene lamp explosion		
	10	10						.05	1	Carelessness		
								.03	1	Foul chimney		
								.10	1	{ Defective arrangement of stove-pipe }		{ Smoke issuing from premises No. 17 Front street.
30		30						.10	1	Carelessness		
20		20			Bates, Bresnan, Miller			.15	1	{ Heat from range igniting flooring }		
								.01	1	{ Children playing with matches }		
					Bates, Miller, Bresnan							{ Smoke issuing from premises No. 34 Mangin st.
25		25						.10	1	Carelessness		
100	8,000	8,100	Engine 4	Engine 4	Bates, Bonner, Miller	4		1.10	1	Spontaneous combustion		
								.15	1	Foul chimney		
5	150	155						.10	1	Carelessness		
								.05	1	{ Window curtain taking fire from gas-light }		
25	65	90			Bates, Bonner, Rowe			.10	1	Gum taking fire on stove		
					Bates, Miller, Bresnan			.03	1	Foul chimney	Fireman Gillespie, Engine Co. No. 17, hand and knee slightly injured	
500	650	1,150			Bates, Rowe, Bonner	4, 6, 32		1.10	1	Kerosene lamp explosion		
	10	10			Reilly, Fisher			.05	1	{ Awning taking fire from gas-light }		
								.05	1	Foul chimney		
			Engine 14	Engine 14	Bates, Bresnan, Gicquel	14		.10	1	Carelessness		
								.05	1	Foul chimney		
								.05	1	Kerosene lamp upsetting		
					Fisher							{ Smoke issuing from premises No. 710 Third ave.
								.03	1	Escaped gas igniting		
								.05	1	Sparks from electric wires		
					Bates, Gicquel, Campbell			.05	1	Carelessness		
					Fisher							{ Smoke issuing from premises No. 539 Tenth ave.
								.03	1	Carelessness		
								.05	1	Overheated stove		
75	3,000	3,075			Reilly, Fisher			.12	1	Carelessness		
1,000	10,000	11,000	H. & L. 8	Engine 31	{ Bates, Shay, Rowe, Bonner, Gicquel }	7, 13, 20, 27, 31	1, 8, 9, 10	1.00	1	Not ascertained	Foreman Thos. J. Van Horn, H. & L. Co. No. 1, foot slightly injured; Fireman Thos. B. Green, H. & L. Co. No. 1, arm broken; Fireman Patrick Trainor, Engine Co. No. 30, leg injured	
	50	50			Bates, Gicquel	24		.05	1	Carelessness		
50	50	100	Engine 13	Engine 13	Bates, Campbell, Gicquel	13, 30, 33	8, 9	.30	1	Carelessness		{ Smoke issuing from premises Nos. 444 and 446 Greenwich street.
					Bates, Campbell, Bonner							
10	25	35						.35	1	Defective flue	Foreman John J. Cashman, Engine Co. No. 29, foot slightly injured	
100	100	200	Engine 39	Engine 39	Orr, Fisher	39	2, 13	.45	1	{ Children playing with matches }		
					Bates, Campbell, Gicquel			.05	1	Defective flue		
					Foreman H. & L. 18					Not ascertained		
					Bates, Miller, Rowe, Bonner							{ Smoke issuing from premises No. 178 Grand st.
												{ Smoke issuing from premises 121st street, bet. 4th and Lexington aves.
15	15				Bates, Shay, Campbell, Gicquel			.02	1	Escaped gas igniting		
					Orr, Wilhelm					Not ascertained		
20	20	40								Incendiary		
	50	50			Bates, Miller			.11	.05	{ Children playing with matches }		
								.02	1	Foul chimney		
								.05	1	Sparks from electric wires		
								.05	1	{ Unknown person setting fire to straw }		{ Caused by occupants of No. 37 Park street fighting.
75	50	125			Bates, Bonner, Rowe							
			Engine 35	Engine 35	Wilhelm, Rhodes	35		.35	1	Carelessness		
10		10						.15	1	Foul chimney		
								.03	1	Overheated stove		
					Bates, Campbell, Gicquel			.02	1	{ Heat from stove igniting paper }		

FIRST NOTICE OF FIRE OR ALARM.				ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.		IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.			Number of Stories.	Material Built of.	Area.					
				Fire.	Indication of Fire. Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.				District Key Holders.	Citizen Key Holders.	Other Sources.		
1881.																			
June 3	4.23 a.m.	764	121 East 124th street.	I									2	Frame, brick ft.	20 x 35	Isaac Piser	Dwelling	Basement	
" 3	7.20 a.m.	Still	1511 Fourth avenue.	I									3	Frame	20 x 35	Sarah Mulhern	Dwelling	1st floor	
" 3	10.20 a.m.	Still	2 Macdougall street	I									3	Brick	25 x 50	David Wertheimer	Market	1st floor	
" 3	1.53 p.m.	184	66 Thompson street.	I									5	Brick, br. stone ft.	30 x 60	J. W. Connors & ors	Dwelling	Yard	
" 3	9.32 p.m.	226	191 Stanton street.	I									3	Brick	25 x 30	Geo. Supple & ors	Wood turning	1st floor	
" 4	3.55 p.m.	3																	
" 4	8.00 p.m.	Still	239 West 29th street.	I									3	Frame	25 x 50	Mary Burke	Dwelling	1st floor	
" 4	8.01 p.m.	13	7 Greenwich street.	I									2	Brick	25 x 50	Elevated Railroad Co.	Workshop	2d floor	
" 4	9.26 p.m.	Still	156 Greenwich street.	I									5	Brick	30 x 50	Edward Bannen	Dwelling	5th floor	
" 5	12.10 a.m.	649																	
" 5	8.02 p.m.	565	145 East 55th street	I									4	Brick	25 x 50	William Slater	Dwelling	4th floor	
" 6	12.05 a.m.	638	1453 First avenue	I									2	Frame	50 x 30	Henry Falterman	Stable	1st floor	
" 6	2.17 p.m.	849	{ 154th street, Elton and Court- land avenues }	I									2	Frame	28 x 30	John Schwenk	Dwelling	1st floor	
" 6	6.36 p.m.	92	381 and 383 Pearl street	I									5	Brick	50 x 100	Ascher & Paynter	Printers	3d floor	
" 6	9.50 p.m.	24	11 1/2 Wall street	I									5	Brick	25 x 75	Several parties	Offices, etc	Sub-cellar	
" 6	12.30 p.m.	Still	421 East 16th street	I									5	Brick	25 x 60	Mr. Connors	Dwelling	5th floor	
" 7	12.40 p.m.	Still	409 East 75th street	I									3	Brick	18 x 30	John Dolan	Dwelling	1st floor	
" 7	6.37 p.m.	Still	1 Wall street	I									4	Brick	20 x 45	James Hamilton	Trunks	1st floor	
" 7	7.17 p.m.	224	186 Eldridge street.	I									6	Brick	25 x 75	D. Deltman and others	Dwelling	3d floor	
" 7	8.47 p.m.	Still	417 West 32d street	I									3	Frame	25 x 30	John Durst	Dwelling	1st floor	
" 7	9.44 p.m.	Still	337 East 13th street	I									4	Brick	25 x 60	Edward E. Fitzgerald	Dwelling	2d floor	
" 8	8.24 p.m.	Still	281 Stanton street.	I									5	Brick	25 x 30	H. P. Langwasser	Dwelling	3d floor	
" 8	10.30 p.m.	Still	River avenue, near Palisade ave.	I									2 1/2	Brick	30 x 50	Chas. Landon	Dwelling	Attic	
" 9	11.23 a.m.	585	141 East 60th street	I									3	Brick, br. stone ft.	25 x 50	Caroline Davis	Dwelling	Basement	
" 9	4.27 p.m.	517	615 Ninth avenue	I									4	Brick	25 x 60	Thomas Ginger	Bakery	1st floor	
" 9	4.07 p.m.	Still	431 East 10th street	I									3	Brick	50 x 75	Chas. Cullen	Cooperage	1st floor	
" 10	8.05 a.m.	647	1526 Second avenue	I									4	Brick	25 x 40	John Keating	Dwelling	2d floor	
" 10	9.47 a.m.	266																	
" 10	9.51 a.m.	46	146 and 148 William street.	I									4	Brick	50 x 40	Thomas Rickseker	Druggist	3d floor	
" 10	12.46 p.m.	Still	218 West 30th street	I									4	Brick	25 x 35	Susan Jones	Dwelling	1st floor	
" 10	11.40 p.m.	Still	156 Ludlow street.	I									5	Brick	25 x 65	Jas. Landers and others	Dwelling	2d floor	
" 10	8.25 p.m.	Still	Front of 2387 Third avenue	I															
" 11	8.37 p.m.	644	1266 Fourth avenue	I									2	Frame	25 x 25	Josie Bernard	Dwelling	1st floor	
" 12	1.25 a.m.	92	2 New Bowery.	I									1	Frame	5 x 10	John Finnigan	Oyster saloon	1st floor	
" 12	8.41 a.m.	337																	
" 12	11.46 a.m.	Still	925 Broadway	I									4	Brick, br. stone ft.	25 x 90	Mrs. Lynch	Jewelry	1st floor	
" 12	2.14 p.m.	527	227 East 47th street	I									2	Brick	25 x 50	Jaegar & Bros.	Cigar manufacturers	1st floor	
" 13	9.30 a.m.	Still	533 Third avenue.	I									4	Brick	25 x 40	James W. Moswett	Dwelling	1st floor	
" 13	2.50 p.m.	471	555 West 38th street.	I									2	Frame	20 x 30	Andrew Wick	Dwelling	Yard	
" 13	4.20 p.m.	358	291 Sixth avenue	I									3	Brick	20 x 30	E. B. Levy	Jeweler	1st floor	
" 13	7.15 p.m.	Still	29 East 39th street.	I									4	Brick, br. stone ft.	25 x 50	Norman White	Dwelling	2d floor	
" 13	7.57 p.m.	533	766 Tenth avenue	I									5	Brick	25 x 75	Robert E. Rogenskei	Glazier	Basement	
" 13	9.00 p.m.	Still	196 Bleecker street.	I									3 1/2	Brick	25 x 50	John Maddil	Oyster saloon	2d floor	
" 14	1.59 a.m.	Still	43 Centre street.	I									5	Brick	25 x 75	F. Y. Otto & Son	Machinists	5th floor	
" 14	8.17 a.m.	281	Pier 47, North river	I									1	Frame, cor. iron	50 x 100	Quebec Steamship Co.	Storage for freight	Roof	
" 14	1.22 p.m.	438	322 and 324 Seventh avenue.	I									4 1/2	Brick	50 x 100	{ Columbia Car Spring Co. }	Manufactory	1st floor	
" 15	6.33 a.m.	31	91 West street.	I									5	Brick	25 x 75	John Beck	Ship chandlery	1st floor	
" 15	9.46 a.m.	Still																	
" 15	10.06 a.m.	{ Circuit 3..... Aut. Signal 124 }																	
" 15	1.09 p.m.	841	157th street and 12th avenue.	I									2 1/2	Frame	40 x 40	Wm. Degrau	Dwelling	Attic	
" 15	6.20 p.m.	Still																	
" 16	11.04 a.m.	93	187 Worth street.	I									4	Brick	20 x 25	{ Ann O'Keefe and others }	Dwelling	4th floor	
" 16	4.35 p.m.	Still	777 Eighth avenue.	I									5	Brick, br. stone ft.	25 x 95	J. C. Moore	Dwelling	2d floor	
" 16	6.12 p.m.	Still	1065 and 1067 Third avenue.	I									4	Brick	30 x 50	Mary E. Thompson	Dwelling	2d floor	
" 16	6.56 p.m.	572	942 Ninth avenue.	I									2 1/2	Frame	50 x 100	Michael Groh	Brewery	Roof	
" 16	10.35 p.m.	516	317 West 46th street.	I									4	Brick, br. stone ft.	25 x 60	Mark Santer	Dwelling	4th floor	
" 16	10.40 p.m.	Still	199 and 201 Bowery.	I									2	Brick	50 x 125	Mrs. Falk	Theatre	Stage	
" 17	6.30 p.m.	Still	144th street, 3d and Willis aves.	I									2 1/2	Frame	23 x 25	Mrs. Mullen	Dwelling	2d floor	
" 17	7.15 p.m.	Still	311 Madison street.	I									5	Brick	25 x 50	Philip Brady	Dwelling	3d floor	
" 17	9.35 p.m.	Still	58 Dey street.	I									5	Brick	25 x 65	P. F. Wine & Co.	Hotel	5th floor	
" 18	7.25 a.m.	Still	314 West 40th street.	I									5	Brick	25 x 40	Max Schmittburger	Dwelling	5th floor	
" 18	7.25 a.m.	Still	82 Vandam street.	I									2 1/2	Brick	25 x 40	John Griffin	Dwelling	Basement	
" 19	3.08 a.m.	326	505 East 11th street.	I									5	Brick	25 x 25	Conrad Meyer	Dwelling	2d floor	
" 19	7.30 p.m.	Still	132 Allen street.	I									5	Brick	25 x 45	John Reickert	Lager beer saloon	1st floor	
" 19	8.05 p.m.	Still	320 Henry street.	I									5	Brick	25 x 60	Ben. Kamblums	Dwelling	3d floor	
" 19	8.05 p.m.	619	335 East 65th street.	I									3 1/2	Brick	18 x 50	Henry Meleider	Dwelling	3d floor	
" 19	9.38 p.m.	223	265 Bowery	I									3	Brick	25 x 100	Eve Priler	Dwelling	3d floor	
" 19	10.09 p.m.	787																	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT.  (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.	
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.						
\$200	\$200	\$400	H. & L. 14	Engine 36	Wilhelm	36, 37	14	.20	I	{ Overheated stoveigniting } woodwork.....			
							13	.10	I	Foul chimney.....			
						30		.05	I	Foul chimney.....			
15		15	Engine 13	Engine 13	Bates, Campbell	13	8	.10	I	{ Children playing with } matches.....			
					Bates, Miller, Bresnan		6	.03	I	Carelessness.....			
					Bates, Rowe					Not ascertained.....			
						1		.05	I	Foul chimney.....			
					Bates, Bonner, Rowe	10	10	.15	I	{ Children playing with } matches.....			
						6		.10	I	Carelessness.....			
					Orr, Wilhelm					Not ascertained.....			
5	30	35			Reilly, Fisher		2	.05	I	{ Window curtain coming } in contact with gas- light.....			
					Orr, Wilhelm			.05	I	Carelessness.....			
					Rhodes			.05	I	{ Pot of tar boiling over } { and igniting on stove..			
50	300	350	Engine 9	Engine 12	Bates, Bonner, Miller	12	1, 10	.15	I	Spontaneous combustion...	{ Assistant Foreman John Rior- dan, Engine Co. No. 12, hand injured.		
					Bates, Bonner, Campbell	4	10	.15	I	Carelessness.....			
	5	5						.02	I	Child playing with matches.	Mary Connors burned to death..		
						44		.20	I	Foul chimney.....			
						4		.10	I	Mice igniting matches.....			
					Bates, Miller			.02	I	Kerosene lamp falling.....			
						34		.30	I	Foul chimney.....			
						5		.05	I	Kerosene lamp exploding...			
						11		.05	I	Kerosene lamp exploding...			
160	25	185						.05	I	Foul chimney.....	{ Ann Murphy, servant, slightly burned .....		
					Orr, Fisher	39		.15	I	Foul chimney.....			
					Reilly, Fisher	2		.10	I	Foul chimney.....			
						28		.20	I	Foul chimney.....			
					Orr, Wilhelm	44		.02	I	{ Overheated stove pipe ig- niting woodwork.....	{ Fireman James Finn, H. & L. Co. No. 13, back sprained; Fireman Edward Hogan, En- gine Co. No. 39, severely in- jured.....		
					Bates, Bresnan, Gicquel							{ Smoke issuing from prem- ises No. 85 Lafayette place.	
					Bonner, Rowe			.05	I	Pomade taking fire on stove.			
						1		.03	I	Foul chimney.....			
								.02	I	Carelessness.....			
								.02	I	Carelessness.....			
					Orr, Wilhelm		13	.10	I	Foul chimney.....			
50	25	75	Engine 12	Engine 12	Bates, Bonner, Rowe	12	1	.35	I	Not ascertained.....			
	40	40			Bates, Gicquel, Reilly							{ Smoke issuing from premi- ses No. 401 West 13th st.	
	30	30				14		.02	I	Carelessness.....			
					Fisher, Reilly		2	.10	I	{ Overheated stove igniting } woodwork.....			
						7		.05	I	Foul chimney.....			
					Reilly, Fisher			.05	I	{ Pot of tar boiling over and } { igniting.....			
	10	10			Bates, Gicquel, Reilly			.02	I	Sparks from locomotive.....			
25	50	75						.03	I	{ Window curtain taking } fire from gas-light.....			
15	45	60	Engine 2	Engine 2	Reilly, Fisher	2	4	.12	I	Kerosene lamp falling.....			
50		50				33		.10	I	Workmen burning rubbish..			
200	1,000	1,200	Engine 7	Engine 7	Bonner	7	1		I	Sparks from forge.....			
20		20			Bates, Campbell, Gicquel		5	.20	I	{ Defective arrangement of } stove-pipe.....			
					Engine 1	Engine 1	Fisher	1	.10	I	{ Heat from furnace ignit- ing rubbish.....		
50	525	575	Engine 6	Engine 6	Bates, Rowe, Bonner	6	1, 10	.40	I	Not ascertained.....			
												{ Smoke issuing from prem- ises No. 335 Fourth ave. Defective thermostat at No. 454 Broome street.	
75	25	100	Engine 38	Engine 38	Foreman Best, Engine 38	38	15	.20	I	Defective flue.....			
												{ Smoke issuing from prem- ises No. 125 Greenwich street.	
					Bates, Miller, Bonner	9	6	.03	I	Foul chimney.....			
75		75					4	.15	I	Carelessness.....			
						39		.15	I	Foul chimney.....			
30		30			Reilly	23		.10	I	Sparks from locomotive.....			
850	2,500	3,350	Engine 2	Engine 2	Reilly, Fisher	2, 23	2, 4	1.40	I	Carelessness.....		{ Members of H. & L. Co. No. 4 rescued several inmates from building.	
						11		.05	I	{ Paper taking fire from } gas-light.....			
						17		.20	I	Foul chimney.....			
						9		.05	I	Foul chimney.....			
					Rowe			.02	I	{ Window curtain taking } fire from gas-light.....			
20	100	120						.05	I	Carelessness.....			
						30		.30	I	Foul chimney.....			
	50	50			Bates, Bresnan, Miller		3	.10	I	Not ascertained.....			
								.15	I	{ Fly-paper on ceiling tak- ing fire from gas-light..			
	25	25				15		.10	I	Kerosene lamp falling.....			
					Fisher			.05	I	Carelessness.....			
500	300	800	H. & L. 9	Engine 20	Bates, Bresnan, Miller	20	6, 9	.45	I	Carelessness.....			
					Wilhelm					False alarm.....			

## SUPPLEMENT.

## THE CITY RECORD.

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.		Number of Stories.	Material Built of.	Area.						
					Fire.	Indication of Fire. Unnecessary.	Verbally.	Box Signals.	Special Signals.				Automatic Signals.	Attaches of Fire Department.				
1881.																		
June 20	12.21 p.m.	417.....	148 West 27th street.....	1						3	Brick.....	25 x 50	B. D. Whithurst.....	Dwelling.....	2d floor.....			
" 20	4.43 p.m.	443.....	57 East 33d street.....	1						2	Brick.....	25 x 50	A. M. Dodge.....	Stable.....	1st floor.....			
" 20	5.50 p.m.	55.....	5 and 7 Spruce street.....	1						3	Brick.....	50 x 100	N. Y. Tribune.....	Press-room.....	Sub-cellar.....			
" 21	1.05 a.m.	664.....	1546 Fourth avenue.....	1						1	Frame.....	22 x 30	Richard Clements....	Grocery store .....	1st floor.....			
" 21	1.50 p.m.	Still.....	157 Thompson street.....	1						5	Brick.....	25 x 75	Adolph Rose.....	Dwelling.....	3d floor.....			
" 21	7.18 p.m.	73.....	85 Warren street.....	1						5	Brick, br. stone ft.	25 x 75	C. A. Martin.....	Bootmaker.....	4th floor.....			
" 22	2.00 a.m.	Still.....	2325 First avenue.....	1						4	Brick.....	20 x 35	Wm. Jones.....	Shoes.....	1st floor.....			
" 22	7.15½ a.m.	417.....	.....	1														
" 22	10.30 a.m.	Still.....	77 Norfolk street.....	1						4	Brick.....	25 x 30	J. Raig.....	Shoemaker.....	1st floor.....			
" 22	2.50 p.m.	Still.....	164 Eighth avenue.....	1						4	Brick.....	25 x 65	T. Meier.....	Dwelling.....	Cellar.....			
" 22	11.30 p.m.	Still.....	149 Eighth street.....	1						3	Brick.....	50 x 80	Jacob Aberle.....	Theatre.....	Stage.....			
" 23	1.12 p.m.	153.....	179 East Broadway.....	1						6	Brick.....	25 x 65	N. Conblume.....	Grocery.....	1st floor.....			
" 23	7.09 p.m.	85.....	141 Duane street.....	1						6	Brick.....	25 x 70	T. G. & R. Patterson.	Packing-box manufactory.	Cellar.....			
" 23	7.30 p.m.	Still.....	{ 166th street, Washington and } Third avenues..... }	1						3	Frame.....	116 x 46	C. Sherwood.....	Lager beer saloon.....	1st floor.....			
" 23	8.30 p.m.	Still.....	301 East Broadway.....	1						3	Brick.....	25 x 50	George Brown.....	Dwelling.....	Roof.....			
" 23	10.59 p.m.	171.....	37 Allen street.....	1						5	Brick.....	25 x 25	S. Goldstein and others	Dwelling.....	4th floor.....			
" 23	11.30 p.m.	346.....	716 East 14th street (rear).....	1						3	Brick.....	25 x 40	Eagle Pencil Co.....	Manufactory.....	1st floor.....			
" 24	8.45 a.m.	Still.....	.....	1														
" 24	11.17 a.m.	477.....	141 West 39th street.....	1						4	Brick.....	25 x 60	Unoccupied.....		1st floor.....			
" 24	4.45 p.m.	653..... { Special call, Engine 38 to Station 855. }	84th st., bet. 11th and 12th aves.	1						1	Frame.....	12 x 20	A. O. Dell.....	Stable.....	1st floor.....			
" 24	10.14 p.m.	{ Engine 38 to Station 855. }	.....	1														
" 24	11.07 p.m.	163.....	449 Greenwich street.....	1						2½	Frame.....	25 x 50	C. Kelly.....	Dwelling.....	2d floor.....			
" 25	12.31½ a.m.	564.....	113 East 54th street.....	1						5	Brick, br. stone ft.	17 x 40	Thos. C. Acton.....	Dwelling.....	Basement.....			
" 25	12.54 a.m.	828.....	Morris avenue and 167th street.	1						2	Frame.....	150 x 25	Henry Weiss.....	Carriage-house.....	2d floor.....			
" 25	11.13 a.m.	553.....	516 West 55th street.....	1						4	Brick.....	25 x 50	Mrs. Perry.....	Dwelling.....	1st floor.....			
" 25	11.50 a.m.	Still.....	133 East 118th street.....	1						3½	Frame.....	20 x 35	August Hipp.....	Dwelling.....	1st floor.....			
" 25	11.53 a.m.	771 and 2d alarm.	{ Southern Boulevard, bet. 3d } { and Lincoln avenues..... }	1						2	Frame.....	50 x 50	Pritchard & Chidestar	Planing and saw mill.....	1st floor.....	2d floor.....		
" 25	12.05 p.m.	Still.....	165 East 86th street.....	1						4	Brick.....	20 x 60	James Cachran.....	Dwelling.....	3d floor.....			
" 25	2.10 p.m.	Still.....	44 East Broadway.....	1						4	Brick.....	25 x 60	Jewish congregation..	Synagogue.....	4th floor.....			
" 25	6.58 p.m.	147.....	207 Canal street.....	1						5	Brick.....	25 x 75	N. C. Crowen.....	Window glass.....	Cellar.....			
" 26	12.02 a.m.	648.....	.....	1														
" 26	1.23 a.m.	3d alarm, 652 ..	.....	1														
" 26	7.30 p.m.	Still.....	330 East 47th street.....	1						4	Brick.....	25 x 46	Mary Lawler.....	Dwelling.....	3d floor.....			
" 27	5.18 a.m.	Still.....	24 Fulton street.....	1						3	Brick.....	25 x 30	Wm. Parkhouse.....	Restaurant.....	1st floor.....			
" 27	1.28 p.m.	416.....	.....	1														
" 27	7.45 p.m.	179.....	.....	1														
" 27	8.24 p.m.	277.....	167 Lewis street.....	1						3	Brick.....	25 x 30	S. Rosenberg & others	Dwelling.....	3d floor.....			
" 27	9.11 p.m.	258.....	.....	1														
" 28	4.50 p.m.	12 and 2d alarm..	52 and 54 Greenwich street.....	1						5	Brick, marble ft..	50 x 100	W. H. Newman.....	Storage for cotton.....	5th floor.....	4th floor.....		
" 28	9.13 p.m.	645.....	.....	1														
" 29	12.23 a.m.	23..... { Special call, Engine 1 to Station 417. }	.....	1														
" 29	12.31 a.m.	{ Engine 1 to Station 417. }	167 West 25th street.....	1						4	Brick.....	25 x 60	J. Scanlon.....	Dwelling.....	3d floor.....			
" 29	3.00 p.m.	Still.....	47 East 68th street.....	1						4	Brick, br. stone ft.	25 x 50	Ella Coptitze.....	Dwelling.....	3d floor.....			
" 30	11.15 a.m.	Still.....	1335 Fourth avenue.....	1						2½	Frame.....	20 x 40	Peter McGinnis.....	Dwelling.....	1st floor.....			
" 30	3.10 p.m.	332.....	73 and 75 Little 12th street.....	1						1	Brick.....	20 x 25	Wm. R. Payson & Co.	Varnish manufacturers...	1st floor.....			
" 30	4.07 p.m.	158.....	370 South street.....	1						3	Brick.....	20 x 50	Patrick Hayes.....	Dealer in old rigging, etc.	3d floor.....	All floors.....		
" 30			Extended to 369 South street.....							3	Brick.....	20 x 60	Unoccupied.....			369 and 371 South st.		
" 30			Extended to 371 South street.....							3	Brick.....	20 x 50	D. D. Owens.....	Dealer in liquors.....				
" 30	7.05 p.m.	Still.....	5 East Broadway.....	1						4	Brick.....	25 x 60	Hyman Smitzer, Jr..	Furniture manufacturer...	Yard.....			
" 30	8.00 p.m.	328.....	210 Avenue C.....	1						4	Brick.....	25 x 60	Levy Putzee.....	Fancy goods.....	1st floor.....			
" 30	9.30 p.m.	Still.....	441 Pearl street.....	1						2½	Brick.....	12½ x 40	Rosanna Branigan...	Dwelling.....	2d floor.....			
" 30	9.55 p.m.	Still.....	321 East 74th street.....	1						5	Brick.....	25 x 60	Morris Stack.....	Dwelling.....	5th floor.....			
" 30	10.16 p.m.	287.....	164 and 166 Waverley place.....	1						3	Frame.....	50 x 125	Colored congregation.	Place of worship.....	Roof.....			
" 30	10.24 p.m.	129.....	56 Mulberry street.....	1						3	Brick.....	30 x 35	B. Gazonia and others	Dwelling.....	2d floor.....			
July 1	7.30 a.m.	Still.....	11 Prince street.....	1						3	Brick.....	20 x 35	Mrs. Fitzgerald.....	Dwelling.....	2d floor.....			
" 1	5.10 p.m.	255.....	.....	1														
" 1	8.10 p.m.	Still.....	223 East 29th street.....	1						4	Brick.....	25 x 40	Patrick O'Brien.....	Dwelling.....	3d floor.....			
" 1	2.49 a.m.	25.....	60 Cedar street.....	1						5	Brick.....	25 x 75	H. Lee.....	Bank-note printer.....	4th floor.....	5th floor.....		
" 2	11.03½ a.m.	{ 514..... } { Ambulance call }	.....	1														
" 2	11.30 p.m.	Still.....	458 West 22d street.....	1						5	Brick.....	25 x 50	Joseph S. Bosworth ..	Dwelling.....	Basement.....			
" 2	2.15 p.m.	Still.....	136 East 13th street.....	1						4	Brick.....	25 x 45	Jacob Blank.....	Restaurant.....	1st floor.....			
" 2	7.28 p.m.	789.....	204 to 208 East 129th street.....	1						2	Frame.....	75 x 100	R. Pryor.....	Stables.....	1st floor.....			
" 2	9.20 p.m.	Still.....	113 Bleeker street.....	1						4	Brick.....	20 x 60	Kolkman & Boltmer..	Dwelling.....	Awning.....			
" 2	9.12 p.m.	Still.....	322 West 20th street.....	1						3	Brick.....	16 x 50	Edward Schenck.....	Dwelling.....	3d floor.....			
" 2	9.40 p.m.	225.....	130 Norfolk street.....	1						2	Brick and frame..	20 x 30	Jacob Hines.....	Dwelling.....	Roof.....			
" 2	11.20 p.m.	Still.....	Front of 213 Greenwich street..	1									John Hayes.....	Carriage-house.....	Lamp on wagon			
" 3	11.55 a.m.	Still.....	.....	1														

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE. H. M.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
.....	\$20	\$20	.....	.....	Reilly, Fisher.....	.....	12.....	.05	I	.....	.....	{ Window curtain taking fire from gas-light..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Fisher, Reilly.....	.....	.....	.05	I	.....	.....	Carelessness.....	.....	.....
\$50	200	250	Engine 7	Engine 7	Bates, Rowe, Bonner.....	4, 7, 12.....	1, 10.....	.15	.....	.....	.....	Gas-light igniting flooring...	.....	.....
100	730	830	H. & L. 13	Engine 22	Wilhelm.....	22, 44.....	13, 16.....	.35	.....	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	13.....	.....	.10	I	.....	.....	Carelessness.....	.....	.....
150	70	220	Engine 27	Engine 27	Bates, Bonner, Rowe.....	7, 27.....	1, 8.....	.45	.....	.....	.....	Not ascertained.....	{ Private John Moore, H. & L. Co. No. 10, hand slightly injured..... }	.....
.....	.....	.....	.....	.....	Reilly, Fisher.....	.....	.....	.05	I	.....	.....	{ Kerosene lamp igniting woodwork..... }	.....	{ Smoke issuing from defec- tive flue, No. 202 West 25th street.
.....	.....	.....	.....	.....	.....	.....	.....	.05	I	.....	.....	{ Spirit lamp igniting wood- en partition..... }	.....	.....
.....	.....	.....	.....	.....	.....	24.....	5.....	.15	I	.....	.....	Supposed from fire-cracker..	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.01	I	.....	.....	{ Paper lantern taking fire on stage..... }	.....	.....
50	50	.....	.....	.....	Bates, Miller, Bonner.....	.....	6.....	.05	I	.....	.....	{ Kerosene lamp igniting woodwork..... }	.....	.....
20	20	.....	Engine 27	Engine 27	Bates, Campbell.....	27.....	1, 8.....	.15	.....	.....	.....	Heat from boiler.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	18.....	.02	I	.....	.....	Boys playing with matches..	.....	.....
10	10	.....	.....	.....	.....	15.....	.....	.20	I	.....	.....	Fireworks.....	.....	.....
.....	20	20	.....	.....	Bates, Miller.....	.....	6.....	.05	I	.....	.....	Kerosene lamp upsetting.....	{ Flora Rosenberg burned by clothes taking fire..... }	.....
20	1,000	1,020	Engine 28	Engine 28	Bresnan.....	5, 11, 28.....	3, 11.....	1.30	.....	.....	.....	Heat from steam-pipes.....	{ Ass't Engineer of Steamer Ber- nard McAllister, Engine Co. No. 11, ankle sprained; Fore- man Edward O'Brien, Engine Co. No. 28, leg slightly injured. }	{ Smoke issuing from prem- ises No. 200 East 25th street.
.....	.....	.....	.....	.....	Reilly.....	26.....	.....	.05	I	.....	.....	{ Defective construction of building beams..... }	.....	.....
50	100	150	H. & L. 16	Engine 40	Wilhelm.....	40.....	16.....	.20	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	{ Bates, Campbell, Gicquel, Bonner..... }	.....	8.....	.15	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	Reilly.....	.....	2.....	.07	I	.....	.....	Foul chimney.....	.....	.....
500	80	580	H. & L. 18	Engine 42	Rhodes.....	42.....	18.....	2.30	.....	.....	.....	{ Vagrants entering prem- ises smoking and ignit- ing hay..... }	.....	.....
.....	.....	.....	.....	.....	Fisher, Reilly.....	23.....	.....	.10	I	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	35.....	.....	.05	I	.....	.....	Foul chimney.....	.....	.....
2,300	3,900	6,200	Engine 36	Engine 36	Shay, Rhodes.....	36, 41, Ch. 1.....	14, 17, 18.....	2.00	.....	.....	.....	{ Back-draught of furnace igniting shavings..... }	.....	.....
.....	25	25	.....	.....	.....	.....	13.....	.05	I	.....	.....	{ Children playing with matches..... }	.....	.....
50	20	70	.....	.....	.....	9.....	.....	.10	I	.....	.....	Heat from furnace.....	.....	.....
.....	.....	.....	.....	.....	Shay, Bonner, Miller.....	.....	6.....	.05	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	Wilhelm.....	.....	.....	.....	.....	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	Bates, Wilhelm, Reilly, Fisher.....	.....	.....	.....	.....	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	32.....	.....	.05	I	.....	.....	{ Heat from stove igniting towel..... }	.....	.....
.....	.....	.....	.....	.....	Reilly, Fisher.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 260 W. 26th st. Smoke issuing from prem- ises No. 15 East street.
.....	.....	.....	.....	.....	Bates, Miller, Bresnan.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	15	15	.....	.....	Bates, Miller, Bresnan.....	.....	.....	.03	I	.....	.....	Malicious mischief.....	Sophie Rosenberg burned to death	.....
.....	.....	.....	.....	.....	Bates, Campbell, Gicquel.....	.....	.....	.....	.....	.....	.....	{ Fireman C. L. Daniels, Engine Co. No. 23, neck injured... }	.....	{ Smoke issuing from prem- ises No. 22 Minetta lane.
4,000	20,000	24,000	Engine 6	Engine 6	{ Bates, Shay, Rowe, Bonner, Campbell, Miller..... }	4, 6, 7, 10, 12, 13, 27, 29, 32.....	1, 5, 6, 7, 8, 10, 11.....	12.30	.....	.....	.....	Sparks from furnace.....	{ Capt. Hull, Insurance Patrol, severely injured; Private Geo. McGrath, Engine Co. No. 7, left hip injured..... }	{ Smoke issuing from furnace on roof of building No. 110 East 79th street.
.....	.....	.....	.....	.....	Wilhelm.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	Bates, Rowe, Bonner.....	.....	.....	.....	.....	.....	.....	Malicious mischief.....	.....	.....
10	2	12	.....	.....	.....	1.....	.....	.10	I	.....	.....	Malicious mischief.....	.....	.....
10	100	110	.....	.....	.....	.....	.....	.10	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	13.....	.10	I	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell.....	.....	.....	1.00	I	.....	.....	Varnish taking fire on furnace	Wm. R. Payson severely burned	.....
1,100	2,100	3,200	Engine 15	Engine 15	Bates, Miller, Bresnan.....	11, 15, 17.....	6, 11.....	2.30	.....	.....	.....	Sparks from chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	9.....	.....	.03	I	.....	.....	Carelessness.....	.....	.....
20	500	520	Engine 28	Engine 28	Bates, Bresnan, Miller.....	28.....	11.....	.15	.....	.....	.....	Carelessness.....	.....	.....
.....	10	10	.....	.....	.....	12.....	.....	.05	I	.....	.....	Soot in fire-place igniting...	.....	.....
.....	.....	.....	.....	.....	.....	44.....	.....	.05	I	.....	.....	Kerosene lamp upsetting.....	.....	.....
100	.....	100	Engine 18	Engine 18	Bates, Gicquel, Campbell.....	18.....	5.....	.30	.....	.....	.....	Fireworks.....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Rowe.....	.....	.....	.03	I	.....	.....	Kerosene lamp falling.....	.....	.....
.....	10	10	.....	.....	.....	.....	9.....	.05	I	.....	.....	Child playing with matches..	.....	{ Smoke issuing from defec- tive flue, No. 299 Bleeck- er street.
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell.....	.....	.....	.05	I	.....	.....	Kerosene lamp upsetting.....	.....	.....
1,000	11,890	12,890	Engine 4	Engine 4	Bates, Bonner, Rowe.....	4, 32.....	1, 10.....	1.15	.....	.....	.....	Not ascertained.....	.....	{ Ambulance call, sent out to remove man run over by H. R. R. R. car.
.....	.....	.....	.....	.....	Reilly, Fisher.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	19.....	.....	.03	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.02	I	.....	.....	Carelessness.....	.....	.....
.....	50	50	Engine 36	Engine 35	Wilhelm, Rhodes.....	35.....	14.....	.10	.....	.....	.....	Escaped gas igniting.....	.....	.....
.....	20	20	.....	.....	.....	33.....	.....	.05	I	.....	.....	Fireworks.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.01	I	.....	.....	{ Window curtain taking fire from gas-light..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan.....	.....	.....	.02	I	.....	.....	Fireworks.....	.....	.....
.....	.....	.....	.....	.....	Campbell.....	.....	.....	.02	I	.....	.....	Upsetting of gasoline lamp..	John Hayes severely burned...	{ Smoke issuing from prem- ises No. 135 Varick st.

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE] EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.		IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.		Number of Stories.	Material Built of.	Area.						
				Fire.	Indication of Fire. Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	District Key Holders.				Citizen Key Holders.	Other Sources.				
1881.																				
July 3	12.02 p.m.	146.....	237 Centre street .....	1								3	Brick .....	25 x 40	J. Wersberger .....	Picture frames.....	3d floor.....			
" 3	12.43 p.m.	433.....	382 Tenth avenue.....	1								5	Brick .....	50 x 65	J. Fleming and others.	Dwelling .....	5th floor.....			
" 3	1.20 p.m.	Still .....	441 East 74th street.....	1								1 1/2	Frame .....	15 x 30	George P. Bach.....	Dwelling .....	5th floor.....			
" 3	5.00 p.m.	Still .....	937 Third avenue .....	1								5	Brick.....	20 x 50	Otto Dophner .....	Drug store .....	1st floor.....			
" 3	5.26 p.m.	471.....	37th street and North river .....	1									Dock.....		Various parties.....	Manure dock.....	In straw.....			
" 3	7.24 p.m.	147.....	206 and 208 Canal street.....	1								6	Brick.....	50 x 100	Ackerman Bros.....	Furniture.....	Cellar.....			
" 3	8.00 p.m.	Still .....	{ 136th street, between Lincoln and Alexander avenues ... }	1								2	Frame .....	23 x 28	Richard T. Mason....	Dwelling .....	2d floor .....			
" 4	12.01 a.m.	53.....		1																
" 4	10.00 a.m.	Still .....	78 Eldridge street (rear).....	1								5	Brick.....	25 x 15	Alfred Cook.....	Dwelling .....	3d floor .....			
" 4	10.24 a.m.	257.....	7 Cornelia street.....	1								5	Brick.....	25 x 50	Various families.....	Dwelling .....	1st floor .....			
" 4	11.20 a.m.	636.....	205 East 77th street .....	1								2 1/2	Frame .....	50 x 30	Bernard Kolb.....	Dwelling .....	Roof .....			
" 4	11.45 a.m.	Still.....	2143 Third avenue.....	1								4	Brick .....	20 x 60	Christopher Mooney..	Groceries.....	Awning.....			
" 4	11.55 a.m.	Still.....	123 Orchard street.....	1								2 1/2	Brick.....	25 x 35	Julius Jurs.....	Dwelling .....	Roof.....			
" 4	11.45 a.m.	Still.....	526 Sixth avenue .....	1								4	Brick.....	25 x 50	August Searles.....	Dwelling .....	Awning.....			
" 4	2.26 p.m.	483.....	4th ave., bet. 42d and 43d streets	1								1	Brick.....	25 x 75	H. R. R. Co.....	Package room.....	1st floor.....			
" 4	4.30 p.m.	464.....	534 Third avenue.....	1								4	Brick.....	25 x 50	Leon Pitzer.....	Glazier .....	Basement.....			
" 4	7.00 p.m.	Still.....	220 East Houston street.....	1								3	Brick.....	25 x 35	Mr. Strauss.....	Dwelling .....	2d floor.....			
" 4	8.14 p.m.	218.....		1																
" 4	8.25 p.m.	Still.....	262 Broome street.....	1								5	Brick .....	40 x 40	Levy Brill & others..	Dwelling .....	3d floor .....			
" 4	8.10 p.m.	Still.....	3d avenue and 43d street.....	1								3	Brick .....	25 x 75	James Faulhaber.....	Lager bier saloon .....	Awning.....			
" 4	9.31 p.m.	22.....	93 Greenwich street.....	1								5	Brick .....	25 x 70	Bertha Beer.....	Toys.....	1st floor .....			
" 4	9.40 p.m.	Still.....	46 Forsyth street .....	1								5	Brick.....	25 x 60	Max Ellwich.....	Dwelling .....	3d floor .....			
" 4	10.32 p.m.	189.....	200 Mott street (rear) .....	1								6	Brick.....	25 x 30	Louisa Viscar & others	Dwelling .....	6th floor.....			
" 4	11.51 p.m.	Still .....	3 Beaver street.....	1								4	Brick .....	25 x 75	Jacob Rortman.....	Restaurant .....	2d floor.....			
" 5	8.33 a.m.	717.....	231 East 106th street (rear)....	1									Rubbish, etc.....		Vacant lot.....		Brush.....			
" 5	5.01 p.m.	Still .....	423 East 5th street.....	1								5	Brick .....	25 x 60	Geo. Becker.....	Groceries .....	1st floor .....			
" 5	3.22 p.m.	748.....	228 East 120th street.....	1								4	Brick .....	25 x 50	Unoccupied .....		2d floor.....			
" 5	4.30 p.m.	Still.....	352 East 4th street.....	1								3	Brick .....	20 x 40	Israel Gommana.....	Dwelling .....	1st floor.....			
" 6	5.21 p.m.	317.....	172 Waverley place.....	1								3	Brick .....	25 x 25	Cragin & Co.....	Smoke-house, etc.....	1st floor.....			
" 7	9.17 a.m.	335.....	12 Gansevoort street.....	1								3	Brick .....	25 x 50	William Wiley.....	Dwelling .....	3d floor.....			
" 7	5.55 p.m.	Still .....	51 Suffolk street.....	1								3 1/2	Brick .....	20 x 30	Harry Meyers .....	Tailor shop.....	Basement .....			
" 7	6.24 p.m.	287.....		1																
" 7	9.12 p.m.	459.....	138 West 34th street.....	1								4	Brick, br. stone ft.	25 x 50	P. G. Starin.....	Dwelling .....	3d floor.....			
" 8	10.34 a.m.	534.....	749 Ninth avenue.....	1								3	Frame .....	25 x 40	A. McCool.....	Dwelling .....	3d floor.....			
" 8	11.35 a.m.	Still.....	4th ave., bet. 138th and 139th sts.	1								2	Frame .....	30 x 20	Jacob Wickham.....	Dwelling .....	1st floor.....			
" 8	6.05 p.m.	Still.....	216 Fulton street.....	1								2 1/2	Brick .....	25 x 35	J. McArthur & Co....	Brush manufacturers....	Basement .....			
" 8	7.03 p.m.	314.....	82 and 84 Bank street.....	1								5	Brick .....	50 x 75	Wilson & Co.....	Mfrs. calcium lights....	1st floor.....			
" 9	11.51 a.m.	764.....	127 West 125th street.....	1								2	Frame .....	20 x 18	J. L. Liscomb.....	Stables, etc.....	2d floor.....			
" 9	8.20 p.m.	Still.....	Broadway, bet. 58th and 59th sts.	1								6	Brick .....	75 x 100	A. C. Schaffer.....	Hotel, etc.....	1st floor.....			
" 9	8.35 p.m.	52.....	57 Vesey street.....	1								3	Brick .....	25 x 40	Mrs. King.....	Dealer in groceries.....	1st floor.....			
" 9	9.06 p.m.	126.....	136 and 140 Leonard street.....	1								3	Brick .....	50 x 75	J. W. Bunn.....	Lodging-house, etc.....	2d floor.....			
" 10	2.05 p.m.	324.....	238 East 12th street .....	1								4	Brick, br. stone ft.	20 x 60	H. D. Newton.....	Dwelling .....	2d floor .....			
" 11	11.29 a.m.	339.....	4 East 14th street .....	1								4	Brick, br. stone ft.	25 x 90	George Lisner.....	Dealer in fancy goods....	1st floor .....			
" 11	7.25 p.m.	Still .....		1																
" 11	8.23 p.m.	165.....	12 Thompson street .....	1								5	Brick .....	25 x 60	Mrs. Bennett.....	Dwelling .....	4th floor.....			
" 11	8.57 p.m.	335.....	22 Gansevoort street .....	1								5	Brick .....	25 x 100	Edward Callan .....	Dwelling .....	Cellar.....			
" 12	8.06 a.m.	389.....	24th street and East river.....	1								6	Brick .....	50 x 200	F. G. & J. N. Van Vliet	Dealers in malt.....	1st floor.....			
" 13	4.15 a.m.	566.....	1006 Second avenue.....	1								5	Brick .....	25 x 60	J. Cardes.....	Butcher shop.....	Awning .....			
" 13	1.04 p.m.	614.....	66th street and North river.....	1									Dock.....		{ Harlem River R. } { R. Co..... }	Storage for freight.....	In freight.....			
" 13	7.45 p.m.	379.....	1117 Broadway .....	1								5	Brick .....	50 x 100	Caswell & Co.....	Druggists.....	1st floor .....			
" 13	8.22 p.m.	Still .....	228 East 75th street .....	1								4	Brick .....	25 x 50	Chas. Kowl.....	Dwelling .....	Basement.....			
" 13	8.42 p.m.	Still .....	19 Bayard street.....	1								3	Frame .....	30 x 25	H. Hyman.....	Dwelling .....	2d floor .....			
" 13	8.31 p.m.	648.....	1595 Second avenue.....	1								4	Brick .....	25 x 60	Henry Pincus.....	Fancy goods.....	1st floor .....			
" 14	10.04 a.m.	629.....	{ Northeast corner Avenue A { and 70th street .....	1								5 1/2	Brick .....	50 x 80	J. P. Davis.....	Planing mills, etc .....	Basement.....			
" 14	12.00 1/2 p.m.	194.....	37 Ridge street .....	1								3	Brick .....	25 x 30	Henry Antonius.....	Carpenter shop.....	3d floor .....			
" 14	1.30 p.m.	158.....		1																
" 14	10.10 p.m.	42.....	151 Greenwich street.....	1								4	Brick .....	25 x 60	Harris Cohn.....	Clothing store .....	1st floor .....			
" 15	8.50 a.m.	Still .....	5 Hester street (rear).....	1								4	Brick .....	25 x 25	Michael Simon.....	Dwelling .....	3d floor .....			
" 15	12.00 m.	Still .....	35 Maiden lane .....	1								4	Brick.....	25 x 75	Oppenheimer & Bros.	Jewelers.....	2d floor.....			
" 15	2.06 p.m.	Still .....	77 Cedar street .....	1								4	Brick.....	25 x 75	Murphy & Power....	Restaurant .....	Basement.....			
" 15	8.16 p.m.	Still .....	713 East 5th street .....	1								4	Brick.....	25 x 40	Brown & Hall .....	Planing mill, etc.....	Cellar .....			
" 16	1.20 p.m.	Still .....	481 Third avenue .....	1								4	Brick.....	25 x 50	Bridget Marrow.....	Dwelling .....	4th floor .....			
" 16	5.54 p.m.	{ Circuit 3..... } { Aut. Signal 74. }		1																
" 16	8.48 p.m.	191.....	44 Delancey street.....	1								4	Brick.....	20 x 40	{ Isaac Sumansky } { and others..... }	Dwelling, etc.....	3d floor.....			
" 17	1.12 a.m.	Still .....	315 West 21st street.....	1								4	Brick.....	25 x 50	Maggie Gillett.....	Dwelling, etc.....	Basement.....			
" 17	9.48 a.m.	Still .....	129 East 12th street .....	1								4	Brick.....	25 x 50	Bernard Lyness.....	Dwelling .....	Cellar .....			
" 17	10.40 a.m.	541.....	850 Sixth avenue .....	1								4	Brick, br. stone ft.	25 x 50	Wm. R. Jenkins.....	Stationery .....	Awning .....			

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	How EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.					
.....	\$25	\$25	Engine 20	Engine 20	Bates, Shay, Bonner, Campbell	20.....	6.....	H. M.	1	{ Children playing with matches..... }	Patrick Shay, leg scalded.....	{ Fireman Edward H. Tobin, Engine Co. No. 1, rescued Wm. McCormack from fifth floor of building.
\$1,800	1,455	3,255	Engine 34	Engine 34	Reilly, Fisher	1, 2, 19, 34.....	4, 12.....	2.00	1	Fireworks.....	{ Firemen Geo. Davis and Thos. McCarthy, Engine Co. No. 1, hands and face severely burned..... }	
.....	5	5	.....	.....	.....	.....	.....	.05	1	Fireworks.....	.....	
.....	50	50	Engine 34	Engine 34	Reilly, Fisher	34.....	.....	.30	1	Carelessness.....	.....	{ Foreman John H. Kehoe, H. & L. Co. No. 6, foot slightly injured..... }
5	5	5	Engine 31	Engine 31	Bates, Bonner, Miller	31.....	6, 9.....	.15	1	Fireworks.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	{ Heat from stove-pipe igniting mantel..... }	.....	
.....	15	15	.....	.....	Bates, Rowe, Bonner	.....	.....	.....	.....	.....	.....	{ Smoke issuing from premises No. 129 West street.
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell	18.....	.....	.05	1	Carelessness.....	.....	
.....	.....	.....	.....	.....	Orr, Wilhelm	44.....	.....	.10	1	Fireworks.....	.....	
.....	16	16	.....	.....	.....	.....	.....	.02	1	Fireworks.....	.....	{ Smoke issuing from premises No. 48 Marion street.
100	25	125	.....	.....	.....	17.....	.....	.02	1	Fireworks.....	.....	
.....	5	5	.....	.....	.....	.....	.....	.03	1	{ Sparks from locomotive, Sixth Avenue Elevated Railroad..... } { Defective construction of building beams in chimney..... }	.....	
25	.....	25	Engine 21	Engine 21	Fisher, Reilly	21.....	2.....	.15	1	Not ascertained.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
10	300	310	H. & L. 7	Engine 21	Fisher, Reilly	16, 21.....	2, 7.....	.15	1	Not ascertained.....	.....	
.....	25	25	.....	.....	Bates, Shay, Campbell, Miller	.....	.....	.....	.....	.....	.....	
.....	20	20	.....	.....	.....	.....	.....	.05	1	Fireworks.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	.....	.....	.....	.17	.....	Fireworks.....	.....	
15	130	145	Engine 6	Engine 6	Bates, Rowe, Bonner	6.....	10.....	.15	1	Fireworks.....	.....	
10	.....	10	.....	.....	.....	.....	.....	.05	1	Fireworks.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
20	10	30	.....	.....	Bates, Miller, Bresnan	.....	9.....	.03	1	Fireworks.....	.....	
.....	50	50	.....	.....	.....	10.....	.....	.05	1	Fireworks.....	.....	
.....	10	10	.....	.....	Wilhelm, Orr	.....	.....	.02	1	Malicious mischief.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
.....	.....	.....	.....	.....	.....	25.....	.....	.05	1	Fireworks.....	.....	
.....	.....	.....	.....	.....	Wilhelm, Rhodes	35.....	.....	.10	1	Carelessness.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	Fireworks.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
.....	.....	.....	Engine 18	Engine 18	Bates, Gicquel, Campbell	18.....	.....	.05	1	Overheated smoke-house.....	.....	
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell	.....	5.....	.15	1	Foul chimney.....	.....	
.....	.....	.....	.....	.....	.....	17.....	.....	.10	1	Foul chimney.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
.....	100	100	.....	.....	Bates, Gicquel, Campbell	.....	.....	.....	.....	.....	.....	
20	50	70	.....	.....	Reilly, Fisher	1.....	.....	.08	1	{ Window curtain taking fire from gas-light..... }	.....	
.....	.....	.....	.....	.....	Reilly	.....	4.....	.12	1	{ Children playing with matches..... }	.....	{ Smoke issuing from premises No. 114 Waverley place.
.....	.....	.....	.....	.....	.....	.....	17.....	.10	1	Foul chimney.....	.....	
.....	10	10	.....	.....	.....	.....	10.....	.10	1	{ Heat from stove igniting fire-board..... }	.....	
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell	.....	.....	.02	1	Carelessness.....	.....	{ Smoke issuing from premises No. 114 Waverley place.
25	15	40	Engine 36	Engine 36	Wilhelm	36.....	14.....	.20	1	{ Children playing with matches..... }	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.01	1	{ Window curtain taking fire from gas..... }	.....	
.....	.....	.....	.....	.....	Bates, Bonner, Rowe	.....	.....	.05	1	Kerosene lamp falling.....	{ Jacob Kromatcher and Wm. Meyers, hands and arms slightly burned..... }	{ Smoke issuing from premises No. 78 Thompson street.
20	25	45	Engine 31	Engine 31	Bates, Bonner	31.....	1.....	.15	1	Oil lamp taking fire.....	.....	
.....	50	50	.....	.....	Bates, Bresnan, Miller	.....	3.....	.10	1	Carelessness.....	.....	
.....	.....	.....	.....	.....	Bates, Bresnan, Foreman Shaw	.....	.....	.05	1	Carelessness.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	Bates, Bonner, Campbell	.....	.....	.05	1	Kerosene lamp falling.....	.....	
.....	.....	.....	.....	.....	Bates, Gicquel, Campbell	.....	5.....	.05	1	Carelessness.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	Fisher, Bresnan	.....	7.....	.05	1	Carelessness.....	.....	
.....	25	25	.....	.....	Fisher, Reilly	.....	2.....	.05	1	Carelessness.....	.....	
.....	193	193	.....	.....	Reilly	.....	.....	.30	1	Carelessness.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	10	10	.....	.....	Fisher, Reilly	.....	.....	.03	1	{ Netting over goods in store taking fire from gas..... }	.....	
.....	.....	.....	.....	.....	.....	44.....	.....	.10	1	{ Overheated stove-pipe igniting fire-board..... }	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.05	1	Foul chimney.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	50	50	.....	.....	Wilhelm	.....	.....	.10	1	Foul chimney.....	.....	
.....	.....	.....	Engine 44	Engine 44	Fisher	44.....	.....	.20	1	{ Goods in window taking fire from gas..... }	.....	
300	250	550	Engine 17	Engine 17	Bates, Bresnan, Miller	11, 15, 17.....	6, 11.....	.45	1	Carelessness.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	Bates, Miller, Bresnan	.....	.....	.....	.....	Malicious mischief.....	.....	
20	20	40	Engine 6	Engine 6	Bates, Rowe, Campbell	6.....	10.....	.10	1	Not ascertained.....	.....	
.....	.....	.....	.....	.....	.....	.....	9.....	.10	1	Foul chimney.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	.....	.....	4.....	.10	1	Carelessness.....	.....	
25	25	25	.....	.....	.....	6.....	.....	.10	1	{ Heat from range igniting woodwork..... }	.....	
100	100	100	.....	.....	.....	.....	.....	1.00	1	{ Heat from boiler igniting shavings..... }	.....	{ Smoke issuing from premises No. 78 Thompson street.
10	50	60	.....	.....	Fisher	.....	.....	.12	1	{ Children playing with matches..... }	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Not ascertained.....	.....	
20	100	120	Engine 17	Engine 17	Bates, Miller, Bresnan	17.....	9.....	.10	1	Kerosene lamp breaking.....	.....	{ Smoke issuing from premises No. 78 Thompson street.
15	20	35	.....	.....	.....	.....	.....	.02	1	Carelessness.....	.....	
.....	.....	.....	.....	.....	.....	.....	3.....	.05	1	Carelessness.....	.....	
.....	20	20	.....	.....	Reilly, Fisher	.....	4.....	.05	1	{ Sparks from locomotive, Elevated R. R..... }	.....	{ Smoke issuing from premises No. 78 Thompson street.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

FIRST NOTICE OF FIRE OR ALARM.				ALARMS.										DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.		IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.				Number of Stories.	Material Built of.	Area.				
				Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.							
1881.																				
July 17	7.21 p.m.	474.....	562 Ninth avenue .....	1									4	Brick.....	25 x 60	M. Loebe .....	Dealer in furniture.....	Basement.....		
" 17	11.07 p.m.	289.....	.....	1									1							
" 17	11.45 p.m.	Still .....	6 Manhattan street.....	1									2 1/2	Frame.....	20 x 30	Wm. C. L. Brocgee ..	Dwelling .....	2d floor.....		
" 18	12.15 p.m.	Still .....	10th avenue and 124th street.....	1									1 1/2	Frame.....	20 x 15	Mary Hector.....	Dwelling .....	Roof .....		
" 18	7.49 p.m.	467.....	N. W. cor. 34th street and 1st ave.	1										Rubbish, etc. ....		Vacant lot .....		In rubbish .....		
" 18	8.41 p.m.	314.....	402 to 408 Bleecker street .....	1									5	Brick.....	30 x 100	Biddle, Voorhees & Co.	Drug mills, etc.....	5th floor.....		
" 19	2.32 1/4 a.m.	536.....	831 Eighth avenue .....	1									4	Brick.....	25 x 50	Philip Donohce .....	Dealer in liquors.....	Awning .....		
" 19	5.46 a.m.	199.....	724 Water street .....	1									9	Brick.....	150 x 100	{ North River Sugar } { Refiners .....	Manufactory.....	8th floor.....		
" 19	11.50 a.m.	Still .....	7 Ludlow street (rear).....	1									4	Brick .....	25 x 25	Rebecca Sounceglauz	Dwelling .....	2d floor .....		
" 19	1.06 p.m.	475.....	636 Eighth avenue .....	1									4	Brick .....	25 x 50	Various families.....	Dwelling .....	Roof .....		
" 19	9.11 p.m.	413.....	526 West 27th street.....	1									4	Brick.....	20 x 60	Cornelius Callahan...	Dealer in liquors.....	1st floor.....		
" 20	8.05 a.m.	Still .....	689 Broadway.....	1									4	Brick .....	25 x 40	A. Gibson .....	Office, etc .....	Cellar .....		
" 20	9.30 a.m.	Still .....	225 East Forty-first street.....	1									4	Brick .....	20 x 40	John Ensborough ...	Dwelling .....	3d floor.....		
" 20	11.45 a.m.	453.....	527 West Thirty-fourth street.....	1									1	Frame .....	12 x 25	Milford & Swenarthon	Stables, etc.....	1st floor.....		
" 21	2.45 1/2 a.m.	481.....	739 Sixth avenue.....	1									4	Brick.....	25 x 50	Louis A. Bates.....	Druggist, etc.....	Awning .....		
" 21	3.20 a.m.	Still .....	788 Broadway .....	1									4	Brick.....	50 x 100	Gaff, Fleishman & Co.	Bakery.....	Cellar .....		
" 21	8.20 a.m.	Still .....	132 and 134 Front street.....	1									5	Brick.....	50 x 75	James K. Place.....	Dealer in oils.....	Cellar .....		
" 21	9.11 a.m.	{ Circuit 5 .....	.....																	
" 21	10.46 a.m.	553.....	542 West Fifty-fourth street ...	1									3	Brick .....	25 x 60	Jacob Holzwarth.....	Dwelling .....	2d floor.....		
" 21	11.13 a.m.	Still .....	70 East Broadway.....	1									4	Brick .....	25 x 60	Moses Aaronson.....	Dea'er in fancy goods...	1st floor .....		
" 21	2.05 p.m.	147.....	123 Walker street.....	1									2 1/2	Frame .....	25 x 30	Abraham Ven Rosa ..	Dwelling .....	Roof .....		
" 21	4.40 p.m.	129.....	86 and 88 Bayard street .....	1									1	Frame .....	50 x 10	A. Solomon and others	Stables, etc.....	1st floor .....		
" 21	5.50 p.m.	Still .....	47 Mulberry street.....	1									5	Brick .....	25 x 50	Joseph Labrealo.....	Dwelling.....	2d floor.....		
" 21	6.35 p.m.	861.....	{ 174th street, bet. 12th avenue } { and Hudson river..... }	1										Hay, etc .....						
" 21	6.49 p.m.	658.....	517 East Eighty-fourth street.....	1									3	Brick, br. stone ft.	20 x 60	C. A. Ricker.....	Dwelling .....	Cellar .....		
" 21	8.17 p.m.	245.....	363 East Houston street.....	1									3 1/2	Brick .....	25 x 40	F. Gardecan.....	Carpet weaver.....	Basement .....		
" 21	9.07 p.m.	585.....	988 Third avenue.....	1									3	Brick.....	20 x 50	P. McCaffery.....	Photographs.....	3d floor.....		
" 21	9.19 p.m.	321.....	15 West 11th street.....	1									4	Erick, br. stone ft.	25 x 65	J. Wagner.....	Dwelling .....	4th floor.....		
" 22	8.35 a.m.	Still .....	147 Eighth street.....	1									3	Brick.....	25 x 50	Various families.....	Dwelling .....	3d floor.....		
" 22	9.42 a.m.	{ Circuit 5 .....	.....																	
" 22	8.20 p.m.	Still .....	1025 Second avenue .....	1									5	Brick.....	25 x 75	John Borsh.....	Dwelling .....	4th floor.....		
" 23	9.40 a.m.	Still .....	265 Spring street.....	1									4	Brick.....	25 x 50	Mrs. Stewart.....	Dwelling .....	4th floor.....		
" 23	2.20 p.m.	335.....	438 West 13th street.....	1									3	Brick.....	20 x 20	Jane Smith.....	Dwelling .....	3d floor.....		
" 23	9.50 p.m.	Still .....	103 Leroy street.....	1										Vault under walk.		Mr. McHannan.....	Sleeping room.....	Vault.....		
" 23	11.34 p.m.	8.....	24 Stone street.....	1									5	Brick.....	25 x 60	Normann & Ostenses	Dealers in ship stores...	Basement.....		
" 24	4.13 a.m.	122.....	179 Franklin street.....	1									2 1/2	Brick.....	20 x 40	R. Wilich.....	Dwelling .....	2d floor.....		
" 24	12.19 p.m.	149.....	288 South street.....	1										Bales cotton.....				Sidewalk .....	{ Front doors of } { building..... }	
" 24	1.05 p.m.	Still .....	1326 Fourth avenue.....	1									3	Frame.....	20 x 40	William Murphy.....	Dwelling.....	Chimney.....		
" 25	1.30 p.m.	727.....	315 East 111th street.....	1									4	Brick.....	20 x 60	John Sheehan.....	Dwelling .....	3d floor.....		
" 25	6.30 p.m.	Still .....	86 Division street.....	1									3	Brick.....	25 x 50	Lewis Hehn.....	Dwelling .....	1st floor .....		
" 25	6.52 p.m.	25.....	36 and 38 Cedar street.....	1									4	Brick.....	50 x 10	O'Connell Bros.....	Painters.....	2d floor.....		
" 25	9.59 p.m.	575.....	.....																	
" 25	11.50 p.m.	373.....	.....																	
" 26	12.26 a.m.	337.....	333 West 14th street.....	1										Rubbish, etc.....				Sidewalk .....		
" 26	9.15 p.m.	Still .....	43 Third street .....	1									3	Brick.....	25 x 50	Unoccupied.....		Cellar .....		
" 26	9.20 p.m.	Still .....	440 West 35th street.....	1									3	Brick.....	25 x 45	Eveline Banker.....	Dwelling .....	2d floor.....		
" 26	9.45 p.m.	432.....	.....																	
" 26	10.51 p.m.	314.....	402 and 404 Bleecker.....	1									5	Brick.....	50 x 90	Voorhees & Co.....	Drug mills.....	Cellar .....		
" 27	3.02 a.m.	169.....	93 Chrystie street.....	1									3	Frame .....	25 x 30	Unoccupied .....		1st floor.....		
" 27	11.25 a.m.	{ Circuit 5 .....	.....																	
" 27	3.32 p.m.	46.....	131 William street.....	1									6	Brick.....	25 x 96	H. D. Merritt.....	Dealer in stationery.....	3d floor.....		
" 27	6.01 p.m.	Still .....	131 William street.....	1									6	Brick.....	25 x 96	Jones & Skinner.....	Paper dealers.....	1st floor.....		
" 27	7.19 p.m.	412.....	.....																	
" 27	7.31 p.m.	193.....	65 and 67 Suffolk street.....	1									3	Brick.....	50 x 120	Kromer & Co.....	Manufacturer book stands.	1st floor.....	2d floor.....	
" 27	7.39 p.m.	225.....	.....																	
" 27	8.55 p.m.	Still .....	23 Eldridge street.....	1									4	Brick.....	25 x 60	Mrs. Hulda Feldman.	Dwelling .....	2d floor.....		
" 27	11.53 p.m.	Still .....	10 Catharine street.....	1									5	Brick.....	50 x 50	T. F. Maloney.....	Tailor store.....	1st floor.....		
" 28	2.35 a.m.	Still .....	33 Gold street.....	1									4	Brick.....	25 x 20	Edward Allt.....	Brass finisher.....	2d floor.....		
" 28	8.29 a.m.	789.....	160 East 129th street.....	1									3	Frame.....	22 x 35	Wm. Lewis.....	Dwelling .....	3d floor.....		
" 28	11.00 p.m.	627.....	158 East 73d street.....	1									3	Brick.....	25 x 45	J. C. Plotts.....	Dwelling.....	Basement.....		
" 29	4.49 a.m.	425 and 2d alarm.	328 and 330 East 26th street....	1									3	Brick.....	50 x 100	John Matthews.....	Manufacturer glass signs.	2d floor.....	3d floor.....	
" 29	12.21 p.m.	287.....	137 Waverley place (rear) .....	1									1	Frame .....	10 x 10	Mrs. O'Reilly .....	Store-house.....	1st floor .....		
" 29	7.39 p.m.	124 and 2d alarm.	52 Leonard street.....	1									5	Brick.....	25 x 100	H. C. Kelly .....	Dealer in twines, etc ....	Cellar .....		
" 29	11.15 p.m.	374.....	180 Ninth avenue .....	1									4	Brick.....	30 x 60	Livingston, Ward & Co	Dealers in paints.....	Awning .....		
" 29	11.54 p.m.	146.....	199 and 201 Centre street.....	1									5	Brick.....	50 x 50	Cale & Comstock ...	Dealers in veneers.....	Cellar.....	1st and 2d floors..	
" 30	5.33 a.m.	73.....	154 Chambers street .....	1									5	Brick and stone..	25 x 150	John S. Hawley & Co.	Confectionery .....	Cellar .....		
" 30	9.11 a.m.	{ Circuit 9 .....	.....																	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		HOW EXTINGUISHED.				CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.	DURATION OF FIRE.	Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
.....	\$25	\$25	.....	.....	Reilly, Fisher .....	.....	4.....	H. M. .15	I	.....	.....	Malicious mischief.....	.....	.....
.....	.....	.....	.....	.....	Bates, Bresnan, Gicquel.....	.....	.....	.....	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Kerosene lamp exploding... { Sparks from stovepipe } { Igniting roof .....	.....	.....
\$5	5	5	.....	.....	.....	37.....	.....	.....	I	.....	.....	Boys building bonfire.....	.....	.....
.....	.....	.....	Engine 21	Engine 21	.....	21.....	7.....	.....	I	.....	.....	Carelessness.....	.....	.....
20	20	20	Engine 18	Engine 18	Bates, Gicquel, Campbell .....	18.....	5.....	.....	I	.....	.....	Carelessness.....	.....	.....
25	25	25	.....	.....	Reilly, Fisher .....	.....	4.....	.....	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan .....	.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	6.....	.....	I	.....	.....	Hot coals from furnace....	.....	.....
10	10	10	.....	.....	Reilly.....	.....	4.....	.....	I	.....	.....	{ Children playing with } { matches .....	.....	.....
.....	.....	.....	.....	.....	Reilly .....	19 .....	.....	.....	I	.....	.....	{ Soot in chimney taking } { fire and igniting rubbish } { in fireplace .....	Fireman Laurence Reynolds, Engine No. 3, shoulder slightly injured .....	.....
.....	.....	.....	.....	.....	.....	23.....	.....	.....	I	.....	.....	{ Heat from the stovepipe } { igniting blankets.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Fisher, Reilly .....	34.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
25	25	25	.....	.....	Reilly, Fisher.....	.....	.....	.....	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	32.....	.....	.....	I	.....	.....	Heat from boiler igniting coal	.....	Workmen at 350 Broad- way, striking thermost- at.
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Foul chimney.....	.....	.....
.....	10	10	.....	.....	Reilly, Orr.....	23.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
5	5	5	.....	.....	Bates, Miller, Rhodes.....	31.....	6.....	.....	I	.....	.....	{ Defective arrangement of } { stovepipe .....	.....	.....
300	300	300	Engine 31	Engine 31	Bates, Miller, Rhodes.....	9, 12, 31 .....	1, 6.....	.....	I	.....	.....	Boys smoking on roof.....	.....	.....
.....	10	10	.....	.....	{ Assistant Foreman Conklin, } { Engine Co. No. 38..... }	31.....	.....	.....	I	.....	.....	Not ascertained.....	.....	.....
10	10	10	.....	.....	Wilhelm .....	38.....	.....	.....	I	.....	.....	{ Sparks from locomotive— } { Hudson River Railroad. } { Children playing with } { matches .....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan .....	.....	.....	.....	I	.....	.....	Kerosene lamp falling.....	.....	.....
25	25	25	.....	.....	Orr.....	.....	.....	.....	I	.....	.....	Kerosene oil stove taking fire { Window curtain taking } { fire from gas light.... }	.....	.....
20	25	45	.....	.....	Bates, Bresnan, Gicquel.....	.....	3.....	.....	I	.....	.....	Defective flue.....	.....	Workmen at No. 64 Leon- ard street striking ther- mostat.
50	50	50	.....	.....	.....	33.....	.....	.....	I	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	Foul chimney.....	.....	.....
100	150	250	Engine 3	Engine 3	Bates, Gicquel .....	3.....	5, 12.....	.....	I	.....	.....	Child playing with matches.	.....	.....
.....	.....	.....	.....	.....	.....	24.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
50	1,500	1,550	Engine 10	Engine 10	Rhodes, Bonner.....	10.....	10.....	.....	I	.....	.....	Carelessness.....	.....	.....
20	10	30	.....	.....	Bates, Campbell, Bonner.....	.....	8.....	.....	I	.....	.....	Carelessness.....	.....	.....
25	1,500	1,525	Engine 15	Engine 15	Bates, Miller, Bonner.....	15.....	6, 11.....	.....	I	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	13.....	.....	I	.....	.....	Foul chimney.....	.....	.....
.....	.....	.....	.....	.....	Wilhelm .....	35.....	.....	.....	I	.....	.....	Foul chimney.....	.....	.....
.....	10	10	.....	.....	.....	.....	6.....	.....	I	.....	.....	Kerosene lamp exploding...	Assistant Foreman Richard F. Kennehan, Engine Co. No. 4, hand slightly cut with glass; Private Gustave Cosmak, En- gine Co. No. 6, knee cut.	.....
500	250	750	Engine 4	Engine 4	Bates, Bonner, Miller.....	4, 6, 32.....	1, 10.....	.....	I	.....	.....	Spontaneous combustion...	.....	.....
.....	.....	.....	.....	.....	Reilly, Orr .....	.....	.....	.....	.....	.....	.....	Malicious mischief.....	.....	.....
.....	.....	.....	.....	.....	Bates, Gicquel, Reilly.....	.....	.....	.....	.....	.....	.....	Malicious mischief.....	.....	.....
.....	.....	.....	Engine 3	Engine 3	Bates, Gicquel, Reilly.....	3.....	12.....	.....	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	25.....	.....	.....	I	.....	.....	{ Straw, etc., set on fire by } { unknown persons..... }	.....	.....
10	200	210	.....	.....	.....	34.....	.....	.....	I	.....	.....	{ Clothing taking fire from } { oil lamp..... }	.....	.....
.....	.....	.....	.....	.....	Reilly, Orr.....	.....	.....	.....	.....	.....	.....	Malicious mischief.....	.....	.....
.....	.....	.....	H. & L. 5	Engine 18	Bates, Gicquel, Campbell.....	18.....	5.....	.....	I	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bonner.....	.....	6.....	.....	I	.....	.....	Carelessness.....	.....	Caused by leak of water- pipe in premises No. 101 Duane street, starting thermostat.
.....	.....	.....	.....	.....	Bonner.....	.....	.....	.....	.....	.....	.....	{ Pan of phosphorus } { taking fire..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Rhodes, Miller.....	.....	.....	.....	I	.....	.....	{ Pan of phosphorus } { taking fire..... }	.....	.....
.....	.....	.....	.....	.....	.....	32.....	.....	.....	I	.....	.....	.....	.....	Sent out by President for exhibition.
.....	.....	.....	.....	.....	Bates, Gicquel, Orr.....	.....	.....	.....	.....	.....	.....	{ Heat from boiler igniting } { lumber..... }	.....	.....
300	520	820	Engine 17	Engine 17	Bates, Miller, Bresnan.....	9, 15, 17.....	6, 9.....	.....	I	.....	.....	.....	.....	Smoke from fire Nos. 65 and 67 Suffolk street.
.....	.....	.....	.....	.....	Bresnan .....	.....	6.....	.....	I	.....	.....	Not ascertained.....	.....	.....
100	400	500	.....	.....	.....	.....	.....	.....	I	.....	.....	Explosion of astral oil lamp.	.....	.....
10	100	110	.....	.....	.....	32.....	.....	.....	I	.....	.....	{ Hot coals from furnace } { igniting flooring..... }	.....	.....
20	20	20	.....	.....	.....	.....	.....	.....	I	.....	.....	Carelessness.....	.....	.....
20	50	70	.....	.....	Wilhelm.....	.....	14.....	.....	I	.....	.....	Kerosene lamp explosion...	.....	.....
.....	.....	.....	.....	.....	Reilly, Wilhelm.....	.....	.....	.....	I	.....	.....	Not ascertained.....	.....	.....
500	3,850	4,350	Engine 16	Engine 16	{ Bates, Shay, Bresnan, } { Reilly, Gicquel, Miller.. }	5, 16, 21, 23.....	2, 3, 7.....	.....	I	.....	.....	Not ascertained.....	.....	.....
50	50	50	Engine 18	Engine 18	Bates, Gicquel, Campbell.....	18.....	5.....	.....	I	.....	.....	Not ascertained.....	.....	.....
150	1,000	1,150	H. & L. 8	Engine 31	{ Bates, Shay, Bonner, } { Rhodes, Campbell, Gic- } { quel..... }	31.....	8.....	.....	I	.....	.....	Carelessness.....	.....	.....
.....	15	15	.....	.....	Bates, Gicquel, Reilly .....	.....	12.....	.....	I	.....	.....	Carelessness.....	.....	.....
500	2,000	2,500	Engine 31	Engine 31	Bates, Bonner, Campbe .....	7, 20, 31.....	6, 8 .....	.....	I	.....	.....	Not ascertained.....	.....	.....
50	50	50	.....	.....	Bates, Bonner, Rhodes.....	.....	1, 8 .....	.....	I	.....	.....	{ Heat from boiler igniting } { felting..... }	.....	.....
.....	.....	.....	.....	.....	Bresnan .....	.....	.....	.....	.....	.....	.....	Malicious mischief .....	.....	.....

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.			Number of Stories.	Material Built of.	Area.				
					Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.				Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	
1881.																	
July 30	11.18 a.m.	677.....	{ South side of 93d street, be- tween 2d and 3d avenues .. }	1							7	Brick.....	100 x 50	George Ehret.....	Brewery .....	6th floor.....	
" 30	12.01 p.m.	Still .....	65 East Broadway.....	1							4	Brick.....	25 x 60	J. Liedson .....	{ Dry good store and dwelling .....	Woodshed.....	
" 31	9.12 a.m.	646.....	180 East 80th street.....	1							4	Brick, br. stone ft.	20 x 50	R. J. Black .....	Dwelling .....	2d floor.....	
" 31	10.35 a.m.	566.....	226 East 58th street .....	1							4	Brick, br. stone ft.	25 x 50	S. Heibrun .....	Dwelling .....	Basement.....	
" 31	11.45 a.m.	Still .....	385 Third avenue (rear).....	1							1	Frame.....	15 x 20	John Walsh.....	Grate and fender mfr.....	1st floor .....	
" 31	2.10 a.m.	Still .....	51 Avenue A .....	1							4	Brick.....	25 x 50	R. Bendig .....	Jeweler .....	1st floor .....	
" 31	9.25 p.m.	679.....	{ North side of 91st street, be- tween 1st ave. & Avenue A. }	1							2	Brick.....	50 x 75	J. Hanson .....	Planing mills .....	Cellar.....	
Aug. 1	5.00 a.m.	5 and 3d alarm...	13 and 14 West street .....	1							5	Brick .....	50 x 100	William C. Tilghman.	Storage warehouse .....	1st floor .....	{ Roof & through hatchway..... }
" 1	8.12 p.m.	459.....	1317 Broadway .....	1							3	Brick.....	25 x 50	J. Haggerty .....	Express office .....	1st floor .....	
" 2	7.12 a.m.	796.....	147th street, near St. Ann's ave.	1							1	Frame.....	22 x 16	Anthony Hartman ..	Barn, etc.....	1st floor .....	
" 2	2 05 p.m.	Still .....	13 and 14 West street .....	1							5	Brick.....	25 x 75	William C. Tilghman.	Storage warehouse .....	1st floor .....	
" 2	3.10 p.m.	Still .....	175 Essex street.....	1							3	Brick.....	25 x 45	Isaac Feiber.....	Dealer in combs.....	Awning .....	
" 3	12.54 p.m.	449 and 2d alarm.	N. E. cor. 1st ave. and 31st st...	1							1	Brick.....	25 x 25	William Tilden.....	Varnish manufactory.....	1st floor.....	
" 3	6.44 p.m.	536.....	860 Eighth avenue.....	1							4	Brick, br. stone ft	25 x 50	R. Levy.....	Butcher-shop.....	1st floor.....	
" 3	7.02 p.m.	146.....	19 Howard street.....	1							3	Brick.....	25 x 40	J. Becker.....	Dealer in show cases.....	Cellar.....	
" 3	8.35 p.m.	Still.....	330 East 74th street.....	1							5	Brick.....	25 x 60	Mr. Quinn.....	Dwelling .....	2d floor.....	
" 3	11.21 p.m.	Still.....	2 Spring street.....	1							1	Frame .....	30 x 15	Henry Werle.....	Cigar store.....	1st floor.....	
" 4	12.42 a.m.	29 and 2d alarm...	142 and 144 Front street.....	1							5½	Brick.....	50 x 100	{ D. H. Houghtaling } & Co.....	Importers of teas.....	1st floor.....	3d floor.....
" 4	4.10 a.m.	418.....	432 Sixth avenue.....	1								Awning.....				Awning.....	
" 4	4.51½ a.m.	772.....	136th st., Willis & St. Ann's aves.	1							1	Frame.....	22 x 17	H. H. Clark & Bros..	Printers .....	1st floor.....	
" 4	5.29 a.m.	2.....	38 Whitehall street.....	1							5	Brick.....	25 x 50	Hughes, Hicks & Co.	Dealers in grain.....	2d floor.....	
" 4	11.03 a.m.	717.....		1													
" 4	1.05 p.m.	Still.....	12 Hester street.....	1							6	Brick.....	25 x 60	Harris Fieldburg....	Dwelling .....	2d floor.....	
" 4	4.00 p.m.	Still.....	91 N nth avenue.....	1							5	Brick.....	25 x 60	Alexander Shields...	Dwelling .....	2d floor.....	
" 4	7.23 p.m.	Still.....		1													
" 4	9.13 p.m.	35.....	184 Broadway .....	1							5	Brick.....	40 x 50	P. Schneider & Co..	Mfrs. canes and whips...	Sub-cellar .....	
" 5	1.10 a.m.	161.....	437 Washington street (rear)...	1								Wood, etc.....				Yard.....	
" 5	8.25 p.m.	358.....	40 West 18th street.....	1							4	Brick.....	25 x 80	Hilborn & Roosevelt.	Organ manufacturers.....	4th floor.....	
" 5	8.45 p.m.	Still.....	Madison ave., near Third ave.	1								Hay-stack.....				Hay.....	
" 5	9.56 p.m.	66.....	12 Frankfort street.....	1							6	Brick.....	25 x 150	A. Schwartz.....	Dealer in chemicals.....	1st floor .....	
" 5	11.17 p.m.	Still .....	300 East 39th str. et .....	1							4	Brick.....	25 x 60	Ellen Costello .....	Dwelling .....	4th floor.....	
" 6	1.13 a.m.	Still .....		1													
" 6	3.30½ a.m.	528.....	842 First avenue .....	1							5	Brick.....	25 x 60	George A. Feld.....	House-furnishing goods..	Cellar .....	
" 6	7.10 p.m.	88.....	48 Centre street .....	1							5	Brick.....	25 x 75	Hoole & Co.....	Machinists .....	3d floor.....	4th floor.....
" 6	7.24 p.m.	618.....		1													
" 7	12.31 p.m.	Still .....	9 East 17th street .....	1							4	Brick.....	25 x 60	J. B. Littiz.....	Dwelling .....	4th floor.....	
" 7	3.05 p.m.	Still .....	378 East 123d street.....	1								Barrels of lime...				Street .....	
" 7	3.18 p.m.	Still .....	320 Pearl street.....	1							4½	Brick.....	25 x 40	John Mullane.....	Dwelling .....	4th floor.....	
" 7	8.23 p.m.	{ Still and spe- cial call .....	28 Market street.....	1							3	Brick.....	25 x 50	Morris Kauffman ...	Dwelling .....	3d floor.....	
" 8	10.30 a.m.	Still.....	1107 Lexington avenue.....	1							3	Brick.....	17 x 52	A. Danziz.....	Dwelling .....	Basement.....	
" 8	10.24 a.m.	33.....	440 West 13th street .....	1							3	Brick.....	50 x 100	James Carr.....	Pottery .....	1st floor.....	
" 8	11.44 a.m.	363.....	70 Irving place .....	1							4½	Brick .....	25 x 65	Oliver De Camp.....	Dwelling, etc.....	Cellar.....	
" 8	11.20 p.m.	553.....	783 Tenth avenue .....	1							3	Frame .....	25 x 50	A. Schlosser.....	Druggist.....	1st floor.....	
" 9	7.23 a.m.	Still .....	60 Avenue C.....	1							3	Brick .....	20 x 40	Jacob Jacobs.....	Dwelling .....	2d floor.....	
" 9	8.15 p.m.	193.....	386 Grand street.....	1							5	Brick.....	25 x 75	J. Meyer .....	Dealer in shoes .....	1st floor .....	
" 9	9.28 p.m.	761 and 2d alarm.	{ Manhattan street, between 11th and 12th avenues..... }	1							4	Brick.....	40 x 40	D. F. Tiemann.....	Paint and color works...	4th floor.....	
" 9	11.05 p.m.	Still .....	33 Gold street .....	1							4	Brick.....	25 x 30	Edmund Allt .....	Brass foundry .....	2d floor.....	
" 10	3.29 a.m.	236.....	55 South 5th avenue .....	1							2	Brick.....	25 x 40	C. C. Berthoff.....	Dealer in bottles.....	2d floor.....	
" 10	5.45 p.m.	Still.....	{ East side 11th avenue, bet. 134th and 135th streets..... }	1								Decayed tree...				In tree.....	
" 10	7.30 p.m.	Still.....	327 East 60th street.....	1							1	Frame.....	25 x 50	T. Gilroy.....	Carpenter shop.....	1st floor.....	
" 10	8.01 p.m.	462.....	54 West 35th street.....	1							3	Brick.....	25 x 50	Amand Smith.....	Dwelling .....	3d floor.....	
" 10	8.40 p.m.	Still.....	40 Charles street.....	1							3	Brick.....	25 x 60	Charles H. Schofield.	Dwelling .....	3d floor.....	
" 10	8.56 p.m.	Still.....		1													
" 10	10.34 p.m.	152.....	204 East Broadway.....	1							6	Brick.....	25 x 80	R. Nash.....	Dwelling .....	4th floor.....	
" 11	12.01 a.m.	{ Still & Special call, Station 439..... }	157 to 163 West 32d street.....	1							5	Brick.....	100 x 150	Killian Bros.....	Furniture manufacturers..	1st floor.....	
" 11	3.10 a.m.	Still.....	27 Rose street.....	1							5	Brick.....	25 x 70	H. J. Hewitt.....	Printing office.....	4th floor.....	
" 11	9.16 a.m.	Still.....	58 Chatham street.....	1							3	Brick.....	25 x 70	Jno. A. Tomey.....	Restaurant.....	1st floor.....	
" 11	11.03 a.m.	Still.....	154 East 25th street.....	1							2	Frame.....	25 x 40	Wm. L. Williams ...	Dealer in coal and wood..	1st floor.....	
" 11	2.55 p.m.	282.....	1 and 3 Thirteenth avenue.....	1								Bales of cotton...				In street.....	
" 11	2.59 p.m.	163.....	6 Desbrosses street.....	1							2½	Frame.....	25 x 40	Jno. Nubby.....	Dwelling .....	Yard.....	
" 11	9.57 p.m.	163.....	462 Canal street.....	1							3	Brick.....	25 x 40	M. J. Shanley.....	Dwelling .....	2d floor.....	
" 11	10.16 p.m.	416.....	306 West 28th street.....	1							4	Brick.....	25 x 50	Geo. M. Vancost. . .	Dwelling .....	4th floor.....	
" 12	9.31 a.m.	441.....	56 to 60 West 33d street.....	1							4	Brick.....	75 x 60	M. J. Leonard.....	Hotel .....	4th floor.....	
" 12	11.44 a.m.	522.....	104 West 44th street.....	1							3½	Brick, br. stone ft.	25 x 50	Charles Luther .....	Dwelling .....	1st floor.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$1,800	\$17,200	\$19,000	H. & L. 13	Engine 22	Wilhelm	22, 44	13, 16	.30				Explosion of malt dust.	Foreman Peter Vetter, H. & L. Co. No. 13, hand slightly cut; Fireman Michael Martin, H. & L. Co. No. 13, breast slightly injured; hand cut; Fireman Stephen C. Purdy, Engine Co. No. 22, knee slightly injured.	
								.05	I			{ Children playing with fire } { and igniting rubbish... }		
10		10			Wilhelm		13	.05	I			Defective flue.		
					Orr, Reilly			.05	I			Foul chimney.		
					Orr		7	.10	I			{ Sparks from furnace ig- } { niting sky-light... }		
30	25	55				25		.15	I			Kerosene lamp taking fire.		
			H. & L. 13	Engine 22	Wilhelm	22	13	1.00				{ Sparks from furnace ignit- } { ing shavings... }	Fireman Richard Hyland, En- gine Co. No. 22, slightly in- jured.	
8,390	37,631	46,021	Engine 6	Engine 6	{ Bates, Shay, Bonner, Campbell, Miller, Gic- quel, Bresnan, Rhodes... }	4, 6, 7, 9, 10, 12, 13, 27, 29, 31, 32, 43	1, 6, 8, 9, 10	10.00				Not ascertained.	Chief W. W. Rhodes, 10th Bat- talion, back severely injured by falling down stairs.	
					Reilly, Orr			5.01				Escaped gas igniting		
150		150	Ch. 1	Ch. 1	Wilhelm	41, Ch. 1	17	.20				{ Vagrants entering prem- } { ises and smoking... }		
			Engine 10	Engine 10	Bates	10		.30				Rekindling of previous fire.		
	25	25						.05	I			Carelessness.		
250	754	1,004	H. & L. 7	Engine 16	Bates, Shay, Orr, Bresnan	5, 16, 21	2, 3, 7	2.35				{ Vapor of varnish igniting } { from furnace... }		
30	75	105			Orr		4	.15	I			Carelessness.		
					Bates, Shay, Bonner, Campbell	31		.10	I			Not ascertained.		
25	30	55				44		2.20	I			Kerosene lamp upsetting.		
20		20	Engine 20	Engine 20		20		.10				Carelessness.		
500	7,000	7,500	Engine 32	Engine 32	{ Bates, Shay, Bonner, Camp- } { bell, Foreman Monroe... }	4, 32	1, 6, 8, 10	1.00				{ Heat from chimney igni- } { ting floor beams... }	Private James C. O'Shaugh- nessy, H. & L. Co. No. 1, side injured; Foreman John H. Kehoe, H. & L. Co. No. 6, leg slightly injured.	
	5	5			Orr			.05	I			Carelessness.		
15	620	635			Wilhelm		17	.25	I			Spontaneous combustion.		
100	50	150	Engine 10	Engine 10	{ Bates, Bonner, Foreman } { Monroe... }	10	10	.25				Not ascertained.		
					Wilhelm									{ Smoke issuing from prem- } { ises No. 174 East 104th } street.
								.05	I			Carelessness.		
30	50	80	Engine 3	Engine 3		3		.05				{ Heat from range igniting } { woodwork... }		{ Smoke issuing from prem- } { ises No. 8 Reade street.
												Escaped gas igniting		
100		100	Engine 4	Engine 4	{ Shay, Campbell, Foreman } { Monroe... }	4	10	.10				Not ascertained.		
					{ Shay, Campbell, Gicquel, } { Foreman Monroe... }	27		.05	I			Carelessness.		
300	7,500	7,800	Engine 14	Engine 14	Gicquel, Reilly	3, 14, 18	3, 12	.40				Carelessness.		
								.15	I			{ Children playing with } { matches... }		
	75	75	Engine 7	Engine 12	Shay, Bonner, Rowe	12	1	.15				Gas-light igniting woodwork		
	10	10			Bonner			.05	I			Kerosene lamp exploding.		{ Gas-jet reflecting on win- } { dow of premises 26 } Beekman street.
100	2,215	2,315	H. & L. 2	Engine 8	Fisher, Reilly	8, 21	2, 7	.30				Not ascertained.		
100	25	125	Engine 7	Engine 7	Shay, Bonner, Rowe	7, 31	1	.45				{ Heat from chimney igni- } { ting floor beams... }		
					Fisher							Malicious mischief.		
						14		.01	I			Carelessness.		
	5	5			Wilhelm		14	.10	I			Slaking of lime.		
10	20	30				32		.15	I			Carelessness.		
300	500	800	Engine 9	Engine 9	Foreman Erb, Engine Co. No. 9	9	6	.40				Kerosene lamp falling		
						44		.10	I			Foul chimney.		
					{ Shay, Gicquel, Foreman } { Spence... }			.05	I			Foul chimney.		
					Shay, Bresnan, Fisher	3		.15	I			Escaped gas igniting		
					Reilly, Fisher		4	.05	I			Defective flue.		
						11		.05	I			Kerosene lamp upsetting		
	15	15			Shay, Foreman Judge			.03	I			Carelessness.	Fireman Peter Barrett, Engine Co. No. 36, leg slightly in- jured.	
405	1,405	1,810	Engine 37	Engine 37	Wilhelm, McCabe	36, 37	14	1.30				Spontaneous combustion.	Fireman Michael Daly, H. & L. Co. No. 14, face slightly injured.	
50	25	75	Engine 32	Engine 32		32		.30				{ Heat from furnace ignit- } { ing floor beams... }		
	10	10			Shay, Foreman Spence, Gicquel	33	9	.10	I			Not ascertained.		
								.03	I			Malicious mischief.		
								.03	I			Not ascertained.		
	10	10			Fisher		7	.05	I			{ Window curtain taking } { fire from gas-light... }		
								.01	I			{ Window curtain taking } { fire from gas-light... }		{ Sparks issuing from prem- } { ises at 141st street, bet. } Alexander and Willis avenues.
	50	50			Shay, Bonner			.10	I			{ Can of liniment taking } { fire on stove... }		
					Gicquel	1	12	.35	I			Foul chimney.		
						12		.05	I			Vapor of benzine igniting.		
25		25					1	.15	I			{ Can of sugar taking fire } { on range... }		
75	100	175	Engine 16	Engine 16		16	7	.30				{ Sparks from furnace ig- } { niting shavings... }		
	500	500			Shay, Gicquel, Foreman Spence			.10	I			Carelessness.		
					Foreman Spence, Gicquel			.02	I			Carelessness.		
	25	25			Shay, Foreman Spence, Gicquel			.05	I			Kerosene lamp upsetting		
5	10	15			Reilly, Fisher			.03	I			{ Window curtain taking } { fire from gas-light... }		
150	10	160	Engine 1	Engine 1	Shay, Reilly, Fisher	1	7	.30				{ Heat from chimney of ad- } { joining building... }	Chief Francis J. Reilly, 7th Bat- talion, face slightly cut.	
50	75	125			Reilly, Fisher		4	.10	I			Not ascertained.		

THE CITY RECORD.

(100)

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTINGUISHED.				CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.	Exceeding Three Engine Streams.			
\$50	\$50	\$100			Wilhelm		14	.15	I				{Children playing with matches {Pot of stew boiling over on stove		
								.05	I				Escaped gas igniting		
								.02	I				Kerosene lamp explosion		
800	400	1,200	Engine 46	Engine 46	Foreman Poynton	46	18	1.00	I				Foul chimney	Horse suffocated	
					{Shay, Foreman Spence, {Gicquel	38		.40	I				Foul chimney		Reflection of gas-light or attic window of prem- ises No. 115, Bleeker street.
100	30	130	Engine 15	Engine 15	{Shay, Foreman Judge, {Bresnan	15	6, 11	.45	I				Carelessness		{Smoke issuing from prem- ises No. 121 Lewis street.
					{Shay, Bresnan, Foreman {Judge								{Heat from stove igniting {clothes		
	5	5			Reilly, Fisher			.03	I				Foul chimney		
100	500	600	Engine 33	Engine 33	{Bates, Gicquel, Foreman {Spence	33	3, 5	1.00	I				Carelessness	{Private Michael E. Lawler, En- gine Co. No. 32, eye injured.	
50	200	250	Engine 12	Engine 12	{Bates, Bonner, Foreman {Judge	12		.30	I				Not ascertained		
500	398	898	Engine 32	Engine 4	{Bates, Bonner, Foreman {Judge	4, 29, 32	1, 10	1.00	I				{Heat from range igniting {partition		
	5	5			Fisher, Reilly		7	.05	I				Carelessness		
	15	15			Fisher, Reilly		7	.05	I				Carelessness		
					{Bates, Foreman Judge, {Bresnan								Carelessness		
	10	10	Engine 24	Engine 24	Bates, Foreman Spence, Gicquel	24	5	.20	I				Carelessness		
650	200	850	Engine 37	Engine 37	Wilhelm	35, 36, 37	14	1.45	I				Not ascertained	{Fireman Patrick Kennedy, H. & L. Co. No. 14, foot severely cut	{Smoke from burning brush in Central Park.
	150	150			Bates, Rowe, Bonner		10	.35	I				{Clothing taking fire from {lamp		
	15	15			Fisher, Miller	1		.03	I				Carelessness		
							13	.05	I				{Sparks from chimney ig- niting roof		
			Engine 2	Engine 2	Reilly, Fisher	2, 23	4	.15	I				{Sparks from furnace ignit- ing shavings		
								.03	I				Carelessness with cigars		{Smoke from defective flue No. 825 1/2 Broadway.
								.10	I				Foul chimney		
						41	17	.08	I				Carelessness		
						38		.10	I				Foul chimney		
					Wilhelm, Orr		16	.05	I				Foul chimney		
						25		.20	I				Foul chimney		
150		150	Engine 15	Engine 15	{Bates, Foreman Judge, {Bresnan	15	6, 11	.30	I				Tobacco in oven taking fire. {Defective construction of building beams in chim- ney		
	50	50			{Bates, Foreman Judge, {Gicquel		3	.10	I				Tar boiling over and igniting		
	10	10			Bates, Campbell, Gicquel			.02	I				{Window curtain taking fire from gas		
10		10	Engine 31	Engine 31	Bates, Bonner, Miller	31		.15	I				Kerosene lamp fall ng		
600		600	Engine 21	Engine 21	Fisher, Foreman McNeill	21	2, 7	.30	I				Not ascertained		
	5	5						.03	I				Carelessness		
					Wilhelm			.02	I				Not ascertained		
	10	10			Bates, Gicquel, Campbell		5	.10	I				Child playing with matches		
50	75	125	Engine 17	Engine 17	Bates, Miller, Bonner	17	6	.30	I				Carelessness		
								.03	I				Gas light igniting woodwork		
								.11	I				Foul chimney		
					Bates, Bonner, Miller		6	.15	I				Carelessness		
						31		.01	I				{Soot in chimney taking fire and igniting rub- bish		
100	75	175	Engine 12	Engine 12	Bates, Bonner, Rowe	12		.45	I				Spontaneous combustion		
10	50	60					6	.10	I				Not ascertained		
						4		.05	I				{Can of biters exploding on range		{An insane man shouting fire at No. 324 West 46th street.
					Wilhelm										{Fire balloons alighting on roof of building No. 171 East 127th street.
					Shay, Campbell, Gicquel		5	.10	I				{Soot in chimney taking fire and igniting fire-board		
30	265	295	Engine 21	Engine 21	Fisher, Foreman McNeill	8, 21	2, 7	1.00	I				Carelessness		
								.10	I				Soot in chimney taking fire		
					Orr			.20	I				Workmen burning brush, etc.		
			Engine 26	Engine 26	Foreman McNeill, Fisher	26		.10	I				Sparks from forge		
3,000	4,000	7,000	Engine 36	Engine 36	Wilhelm, Orr	35, 36, 41, and Ch. 1	14, 17, 18	6.00	I				Not ascertained		
	5	5			Bates, Gicquel, Campbell			.02	I				{Window curtain taking fire from gas		
					Bates, Foreman Judge, Gicquel		3	.30	I				Foul chimney		
					Bonner										{Caused by disarrangement of thermostat at Nos. 15 and 17 Thomas street.
50	800	850	Engine 4	Engine 4	Bates, Bonner, Rowe	4	1, 10	.45	I				Spontaneous combustion	{Private Dennis McDonald, H. & L. Co. No. 10, hand slightly injured	
20	25	45						.15	I				{Window curtain taking fire from gas		
600	670	1,270	Engine 19	Engine 19	{Bates, Shay, Gicquel, Fore- man McNeill, Foreman {Judge	1, 2, 3, 14, 18, 19, 34	5, 7, 12	5.00	I				Not ascertained	{Foreman Chas. H. Shay, Engine Co. No. 14, leg slightly injured by fall through roof of building.	{Smoke issuing from prem- ises Nos. 113 and 115 Walker street.
15		15	Engine 41	Engine 41	Wilhelm	41	18	.20	I				Carelessness		
10		10				38		.20	I				Boys building bonfire		

FIRST NOTICE OF FIRE OR ALARM.				ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.							
					Fire Indication of Fire. Unnecessary. Verbally.	Box Signals.	Special Signals.	Automatic Signals.					Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.				
1881.																			
Aug. 27	10.54 a.m.	Still.....	142 East 14th street.....	1							5	Brick, br. stone ft.	20 x 60	Unoccupied.....			5th floor.....		
" 27	8.33 p.m.	22.....	113 Greenwich street.....	1							3½	Brick.....	25 x 60	Ellen Donnelly.....	Dwelling.....		3d floor.....		
" 27	11.20 p.m.	55.....	17 Spruce street.....	1							5	Brick.....	25 x 40	J. W. Bailey.....	Printing office.....		3d floor.....		
" 28	4.59 a.m.	313 and 2d alarm.	384 West 12th street.....	1							1	Brick.....	25 x 80	C. Brooks & Co.....	Varnish manufacturers...		1st floor.....		
" 28	9.20 a.m.	Still.....	305 East 29th street.....	1							4	Brick.....	20 x 40	John McKenna.....	Dwelling.....		2d floor.....		
" 28	11.30 a.m.	Still.....	121 Chambers street.....	1							5	Brick, br. stone ft.	25 x 100	George Place.....	Iron works.....		Basement.....		
" 28	5.10 p.m.	194.....	196 Delancey street.....	1							2½	Brick and frame..	20 x 30	C. Rooney and others	Dwelling.....		1st floor.....		
" 28	10.23 p.m.	275.....	75 Avenue C.....	1							5	Brick.....	20 x 75	Barbara Erlick.....	Dry goods store.....		1st floor.....		
" 28	10.53 p.m.	343.....		1															
" 28	11.54 p.m.	Still.....	312 East 39th street.....	1							5	Brick.....	25 x 60	Thomas Hawley.....	Dwelling.....		3d floor.....		
" 29	2.02 a.m.	Still.....	848 Third avenue.....	1							4	Brick.....	25 x 40	C. Henricks.....	Confectionery.....		1st floor.....		
" 29	5.14 p.m.	44.....	(Southeast cor. Ann street and } Broadway.....)	1							6	Brick stone front.	80 x 120	James G. Bennett...	Newspaper establishment.		Basement.....		
" 29	6.03 p.m.	82.....	25 Jay street.....	1							5	Brick.....	25 x 75	Thomas Hart.....	Dealer in fish.....		1st floor.....		
" 29	10.10 p.m.	182.....	316½ Hudson street.....	1							3½	Brick.....	20 x 50	Thomas Mangune.....	Dwelling.....		Attic.....		
" 30	12.30 p.m.	Still.....	418 West 17th street.....	1							3	Frame.....	22 x 40	M. Mulligan.....	Dwell'ng.....		1st floor.....		
" 30	10.45 a.m.	Still.....	435 West 45th street.....	1							5	Brick.....	25 x 60	Various families.....	Dwelling.....		Roof.....		
" 30	3.25 p.m.	Still.....		1															
" 30	9.00 p.m.	Still.....	17 Chrystie street.....	1							5	Brick.....	25 x 50	Jacob Colls.....	Dwelling.....		3d floor.....		
" 31	12.01 p.m.	165.....	16 Lispenard street.....	1							3	Brick.....	25 x 80	Langstadter & Levy..	Mfrs. ladies' underwear..		1st floor.....		
" 31	10.00 a.m.	Still.....	117 West 10th street.....	1							3	Brick.....	25 x 40	A. Williams.....	Dwelling.....		2d floor.....		
" 31	{ 5.34 and { 5.37 p.m.	{ Special calls, { Engine Cos. { 8 and 39, to { Station 617.		1															
" 31	8.25 p.m.	Still.....		1															
" 31	5.45 p.m.	Still.....	205 East 111th street.....	1							2	Frame.....	15 x 25	John Smith.....	Dealer in stoves.....		1st floor.....		
Sept. 1	6.38 p.m.	237.....	186 Mercer street.....	1							3	Brick.....	25 x 40	Max Harris.....	Fur trimmers.....		2d floor.....		
" 1	6.45 p.m.	Still.....	112 Essex street.....	1							5	Brick.....	25 x 60	Lewis Boltz & others.	Dwelling.....		5th floor.....		
" 1	7.00 p.m.	Still.....	141 Varick street.....	1							2½	Frame.....	25 x 20	C. Lutz.....	Dwelling.....		2d floor.....		
" 1	7.00 p.m.	758.....	409 East 124th street.....	1							5	Brick.....	25 x 60	Mathew McGowan.....	Dwelling.....		3d floor.....		
" 1	7.22 p.m.	159 and 2d alarm.	380 and 381 South street.....	1							1&2	Brick.....	50 x 50	Jones & Co.....	Fertilizing Co.....		1st floor.....	All floors.....	
" 1	7.28 p.m.	Still.....		1															
" 2	8.25 p.m.	477.....	140 West 39th street.....	1							2	Brick.....	25 x 75	J. L. Burke.....	Blacksmith shop.....		1st floor.....		
" 2	9.30 p.m.	Still.....	45 Grand street.....	1							4	Brick.....	20 x 40	Charles Johnson.....	Dwelling.....		4th floor.....		
" 3	8.43 p.m.	467.....	345 East 31st street.....	1							4	Brick.....	20 x 45	Patrick Plunkett.....	Dwelling.....		1st floor.....		
" 3	9.59 p.m.	72.....	181 and 183 Chambers street...	1							6	Brick.....	35 x 60	Loudon & Johnson...	Coffee and spice mills...		Cellar.....		
" 3	1.33 p.m.	215.....	159½ Varick street.....	1							4	Brick.....	25 x 25	Mrs. Philleterter...	Dwelling.....		1st floor.....		
" 3	5.50 p.m.	313.....	763 Washington street.....	1							2	Frame.....	15 x 50	R. Hill.....	Carpenter shop.....		2d floor.....		
" 4	6.54 a.m.	532.....	638 and 640 West 48th street...	1							4	Brick.....	50 x 60	Storms & Co.....	Planing mill, etc.....		Basement.....		
" 4	7.33½ a.m.	748.....	2146 Third avenue.....	1							3	Frame.....	25 x 75	{ Hlsley, Doubleday { & Co.....	Painters' materials.....		1st floor.....		
" 4	10.15 a.m.	Still.....	271 and 275 Eighth avenue.....	1								Awning.....					Awning.....		
" 4	4.45 a.m.	Still.....	206 East 59th street.....	1							5	Brick.....	20 x 60	John Mulligan.....	Dwelling.....		3d floor.....		
" 5	9.17 a.m.	52.....	207 Washington street.....	1							4	Brick.....	25 x 60	M. H. Varsotti.....	Lodging house.....		4th floor.....		
" 5	11.37 a.m.	Still.....		1															
" 5	12.57 p.m.	Still.....	104 East Broadway.....	1							3	Frame.....	25 x 40	J. H. Peyton.....	Dwelling.....		1st floor.....		
" 5	5.40 p.m.	Still.....	4th avenue and 148th street...	1							1	Frame.....	8 x 10	Harlem River RR...	Switchman's house.....				
" 5	9.15 p.m.	Still.....	14th street and Irving place...	1							3	Brick.....	100 x 200	Kiralfy Bros.....	Theatre.....		1st floor.....		
" 5	9.26 p.m.	186.....	154 Grand street.....	1							2½	Brick.....	25 x 50	George Gage.....	Machinist, etc.....		Attic.....		
" 6	12.30 a.m.	44.....	14 Ann street.....	1							5	Brick.....	25 x 50	A. Dewitt.....	Restaurant.....		1st floor.....	2d floor.....	
" 6	2.00 p.m.	Still.....	{ Courtland avenue and 147th { and 148th streets.....	1							2	Frame.....	22 x 25	Theresa Hemansdan.	Dwelling.....		2d floor.....		
" 6	3.23 p.m.	{ Special call, { Engine 33, to { Station 237..}		1															
" 6	4.17 p.m.	191.....	107 Allen street.....	1							5	Brick.....	25 x 60	G. Morsching & ors..	Dwelling.....		2d floor.....		
" 6	7.45 p.m.	Still.....		1															
" 6	9.30 p.m.	Still.....	14th street and Irving place...	1							4	Brick.....	80 x 200	Kiralfy Bros.....	Theatre.....		Stage.....		
" 7	1.39 p.m.	Still.....	12th ave., bet. 159th & 160th sts.	1								Woods, etc.....		J. West.....			Woods.....		
" 7	3.17 p.m.	31.....	110 and 111 West street.....	1							3	Brick.....	50 x 70	S. Cole.....	Hotel, etc.....		2d floor.....		
" 7	6.22 p.m.	98.....	25 Monroe street.....	1							5	Brick.....	25 x 75	Ernest Berte.....	Grocery store.....		1st floor.....		
" 7	6.25 p.m.	Still.....	185 South 5th avenue.....	1							2½	Brick.....	20 x 40	Frank G. Howell...	Dwelling.....		1st floor.....		
" 7	10.01 p.m.	678.....	158 East 95th street.....	1							3	Brick, br. stone ft.	22 x 60	C. Mordant.....	Dwelling.....		3d floor.....		
" 8	11.35 a.m.	351.....	521 West 19th street.....	1							1	Brick.....	20 x 20	Jacob Link.....	Moulding mills.....		Boiler room...		
" 8	12.40 p.m.	282.....	55 Bethune street.....	1								Hay, etc.....					Yard.....		
" 8	4.54 p.m.	282.....	55 Bethune street.....	1							1	Frame.....	20 x 20	P. McManus.....	Stable.....		1st floor.....		
" 8	9.50 p.m.	Still.....	490 Seventh avenue.....	1							4	Brick.....	20 x 50	A. Suhrig & Co.....	Dwelling.....		1st floor.....		
" 8	11.10 p.m.	357.....	234 West 16th street.....	1							3	Frame.....	20 x 50	H. Mellor.....	Plumbing shop.....		Basement.....		
" 9	12.19 a.m.	Still.....	6 Market street.....	1							4	Brick.....	25 x 25	Daniel Hussey.....	Store.....		1st floor.....		
" 9	10.30 a.m.	Still.....	151 West 24th street.....	1							4	Brick.....	20 x 50	William H. Wells...	Dwelling.....		3d floor.....		
" 9	1.30 p.m.	Still.....	1 Beaver street.....	1							3	Brick.....	25 x 50	A. J. Luce & Co.....	Dealers in hops.....		Roof.....		
" 9	2.09 p.m.	Still.....	65 East Broadway.....	1							4	Brick.....	25 x 40	Herman Kline.....	Tailor shop.....		4th floor.....		
" 9	2.22 p.m.	Still.....	{ Southwest cor. 60th street and } { Boulevard.....	1								Brush, etc.....					Vacant lot.....		

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$25		\$25						3	10			Defective flue.		
25	\$10	35			Bates, Rowe, Bonner.			10	05			Kerosene lamp falling.		
100	100	200	Engine 7	Engine 12	{ Bates, Bonner, Rowe, Fore- man Judge.	12		1	40			Not ascertained.		
100	6,560	6,660	H. & L. 5	Engine 3	{ Bates, Shay, Gicquel, Fore- man McNeill, and Fore- man Judge.	3, 18, 19, 24	5, 12	8.00				Not ascertained.		
								05				{ Sparks from stove ignit- ing fire-board.		
								05				Spontaneous combustion.		
10		10			Bates, Miller, Foreman Judge.			6	05			Soot in fire-place taking fire.		
200	2,300	2,500	Engine 11	Engine 11	Bates, Foreman Judge, Miller.	11, 28		11	45			{ Goods taking fire from gas-light.		{ Smoke from premises No. 111 Third avenue.
					Bates, Fisher, Foreman Judge.									
10		10						03				Kerosene lamp upsetting.		
	5	5						05				{ Sparks from locomotive, E. R. R.		
					Bates, Campbell.			10	10			Carelessness.		
					Bates, Bonner, Campbell.			05				Carelessness.		
					Bates, Campbell, Gicquel.			02				Kerosene lamp explosion.		
								05				Carelessness.		
10		10						4	03			{ Children playing with matches.		Ambulance call.
								05				Not ascertained.		
100	3,741	3,841	Engine 13	Engine 13	Bates, Campbell, Bonner.	13		1, 8	10			Not ascertained.		
	20	20						02				Carelessness.		
					Fisher.							Malicious mischief.		
					Rowe.									{ Smoke issuing from prem- ises No. 189 Broadway.
								02				Upsetting furnace.		
50	3,955	4,005	Engine 20	Engine 20	Bates, Campbell, Gicquel.	20		8, 9	15			Not ascertained.		
	34	34						17	10			Kerosene stove upsetting.		
								05				Grease taking fire on stove.		
					Wilhelm.			14	05			Kerosene lamp upsetting.	{ Margaret McGowan severely burned.	
200	5,000	5,200	Engine 15	Engine 15	{ Bates, Shay, Miller, Rowe, Campbell, Foreman Judge.	9, 11, 15, 17, 43	6, 11	2.00				{ Naphtha vapor igniting from lamp.	{ Daniel Bradley and Michael Cowan instantly killed; John Green, skull fractured.	{ Smoke issuing from prem- ises No. 6 Bowling Green.
					Foreman McNeill.			4	05			{ Heat from forge igniting trough.		
								13	05			Straw burning in fire-place.		
					Fisher, Foreman McNeill.			7	10			Foul chimney.		
50	1,000	1,050	Engine 27	Engine 27	{ Bates, Rowe, Bonner, Campbell.	27		10	15			{ Sparks in chimney ignit- ing coffee refuse.		
250	100	350	Engine 30	Engine 30	Bates, Campbell.	13, 24, 30	8, 9	1.00				Carelessness.		
	10	10	Engine 3	Engine 3	Bates, Gicquel.	3		5	30			Not ascertained.		
			Engine 2	Engine 2	Foreman McNeill, Fisher.	2		4	05			Sawdust igniting from cigar.		
					Wilhelm.			35	07			Sparks from chimney.		
	2	2						12	02			Not ascertained.		
								10				Foul chimney.		
100	1,000	1,100	Engine 29	Engine 29	Bates, Rowe, Foreman McGill.	4, 6, 29	8, 10	1.10				Carelessness.		{ Smoke issuing from prem- ises No. 1326 Fourth avenue.
								9	05			{ Children playing with matches.		
10		10						17	15			Carelessness.		
								11	02			{ Explosion of bomb ignit- ing ceiling.		
50	150	200	Engine 20	Engine 20	Bates, Campbell, Miller.	20		9	10			Kerosene lamp explosion.		
505	300	805	Engine 4	Engine 4	{ Bates, Foreman McGill, Campbell.	4, 29		1, 10	40			{ Pan of fat taking fire on range.		
	10	10						41	07			{ Children playing with matches.		{ Sent out by Chief Bates to show efficiency of De- partment to visitors.
					Bates.									
					Bates, Miller, Bresnan.	17		02				Escaped gas igniting.		
														{ Smoke issuing from prem- ises No. 86 Walker st.
								01				{ Explosion of bombs ignit- ing ceiling.		
								38	11			{ Sparks from locomotive on Hudson River RR.		
					Bates, Rowe, Foreman McGill.			10	10			Carelessness.		
300	1,000	1,300	Engine 9	Engine 9	Bates, Foreman McGill.	7, 9, 12	1, 6	1.00				Not ascertained.	{ Fireman John Duane, Engine Co. No. 12, hand cut with glass.	
								13	05			Foul chimney.		
					Wilhelm.			13	05			{ Window curtain taking fire from gas-light.		
					Bates, Foreman Shaw, Reilly.			05				{ Sparks from furnace ignit- ing shavings.		
					{ Bates, Foreman Shaw, Campbell.	24		5	05			Malicious mischief.		
					{ Bates, Foreman Shaw, Campbell.	24		5	05			Malicious mischief.		
					Foreman Gillies.	26		03				Carelessness.		
					Bates, Foreman Shaw, Reilly.			12	10			Carelessness.		
	20	20			Foreman Erb.	9		05				Kerosene lamp explosion.		
								20				Foul chimney.		
								10	20			{ Sparks from hoisting en- gine in adjoining lot.		
30		30						9	25			{ Heat from furnace ignit- ing flooring.		
								23	05			Unknown.		

FIRST NOTICE OF FIRE OR ALARM.			ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.				
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.	Material Built of.	Area.												
				Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.			Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.	Citizen Key Holders.	Other Sources.	Number of Stories.				
1881.																						
Sept. 9	3.20 p.m.	Still	189 Madison street.	1												5	Brick.	25 x 40	R. Mandelbaum.	Dwelling	2d floor.	
" 9	3.58 p.m.	864	{ Kingsbridge road and 180th } { and 181st street.	1												2½	Frame	25 x 60	Susan Madinn.	School	Roof.	
" 9	7.35 p.m.	Still	179 East Broadway.	1												5	Brick.	25 x 60	Mendez Levy.	Dwelling	5th floor.	
" 9	9.00 p.m.	Still	112 to 122 Crosby street.	1												4	Brick.	130 x 80	J. H. Haverly.	Theatre.	Cellar.	
" 9	9.15 p.m.	Still	14th street and Irving place.	1												3	Brick.	100 x 200	Kiralfy Bros.	Theatre	1st floor.	
" 9	10.32 p.m.	168	383 Broome street.	1												4	Brick.	25 x 75	F. Hildebrandt.	Restaurant	1st floor.	
" 10	3.35 a.m.	168	383 Broome street.	1												4	Brick.	25 x 75	F. Hildebrandt.	Restaurant	1st floor.	
" 10	4.40 a.m.	87 and 2d alarm.	51 and 57 Duane street.	1												1	Frame	100 x 75	James Cummings	Iron foundry.	1st floor	
" 10	4.38 p.m.	473	453 West 39th street	1												4	Brick.	25 x 60	John Vergey.	Dwelling	4th floor.	
" 10	6.57 p.m.	Still	70 East Broadway	1												4	Brick.	25 x 70	Jacob Cohn.	Tailor shop.	3d floor.	
" 10	9.15 p.m.	Still	14th street and Irving place	1												3	Brick.	100 x 200	Kiralfy Bros.	Theatre	1st floor.	
" 11	12.52 a.m.	275	278 East 3d street.	1												4	Frame, br. st. ft.	25 x 50	C. Walter and others.	Dwelling	3d floor.	
" 11	6.38 p.m.	239	29 East Houston street.	1												4	Brick.	25 x 60	Mrs. Walters & ors.	Dwelling	1st floor	
" 12	7.05 p.m.	Still	589 to 595 Seventh avenue	1												8	Brick.	100 x 100	Thomas B. Rand	Hotel.	1st floor	
" 13	6.33 a.m.	172	235 Broome street.	1												5	Brick.	25 x 60	Myer Marks & ors	Dwelling	3d floor.	
" 13	9.16 a.m.	Still		1																		
" 13	9.16 p.m.	Still	252 West Houston street	1												5	Brick.	25 x 40	William Purcell.	Dwelling	5th floor.	
" 14	12.02 a.m.	54	25 Beekman street	1												5	Brick, br. stone ft.	25 x 75	George Sanborn	Manufacturer of Presses.	2d floor.	
" 14	12.12 a.m.	567	346 East 54th street	1												5	Brick.	25 x 60	Henry Bertels.	Dwelling	2d floor.	
" 14	11.12 p.m.	376	181 Seventh avenue	1												1	Brick.	20 x 20	C. W. Burd.	Dealer in coal.	1st floor.	
" 15	10.14 a.m.	35	178 Broadway	1												6	Brick.	25 x 100	Stephens & Merritt	Office, etc	2d floor.	
" 15	11.33 a.m.	Still	14 Catharine street.	1												4	Brick.	25 x 75	L. Lindermann	Liquors	Basement.	
" 15	2.35 p.m.	726	1725 Lexington avenue	1												4	Brick.	25 x 60	George W. Stephens.	Dwelling	3d floor.	
" 15	9.40 p.m.	73	7 and 9 West Broadway	1												4	Brick.	50 x 40	M. Purcell	Dealer in Liquors.	1st floor.	
" 16	2.52 a.m.	627	1281 Third avenue	1												1	Frame	15 x 35	Anna Costa.	Confectionery	1st floor.	
" 16	3.00 a.m.	Still	265 Spring street.	1												3	Brick.	25 x 40	Martin Donnelly.	Dwelling	3d floor.	
" 16	2.21 p.m.	Still	35 Maiden lane	1												5	Brick.	25 x 75	R. Henrich	Jeweler	Attic	
" 16	4.20 p.m.	Still	8 West 10th street	1												4	Brick.	25 x 50	J. H. Beekman.	Dwelling	Cellar	
" 16	8.27 p.m.	471	544 and 546 West 41st street.	1												1	Frame.	50 x 75	Wilson & Fox	Iron foundry	1st floor	
" 16	11.50 p.m.	147	92 Baxter street.	1												5	Brick.	25 x 50	Various families	Dwelling	Cellar	
" 17	2.14 a.m.	48	31 Fulton street.	1												5	Brick.	22 x 65	F. E. McAllister	Dealer in flower seed	3d floor.	5th floor.
" 17	9.03 a.m.	{ Still & special } { call, Station } { 264. }	3 West 3d street	1												3½	Brick.	20 x 40	John McDonald.	Oyster saloon	1st floor	
" 17	5.40 a.m.	Still	1414 Third avenue	1												4	Brick.	20 x 50	Philip Brady	Dwelling	4th floor	
" 17	7.45 a.m.	Still	1136 and 1138 Broadway.	1												4	Brick.	50 x 150	J. Delmonico	Restaurant	Basement.	
" 17	9.12 p.m.	137	70 to 76 Rutgers slip	1												3	Frame.	100 x 25	H. Williams	Cigar manufacturer.	1st floor	
" 17	10.45 p.m.	214	84 Charlton street.	1												2½	Brick.	25 x 50	Patrick Leary	Dwelling	Attic	
" 18	1.30 a.m.	Still	70th street and 12th avenue	1													Freight car.		Hudson River RR. Co.	Freight car	Car	
" 18	4.07 a.m.	85 and 3d alarm.	141 Duane street.	1												6	Brick.	25 x 60	T. & R. Patterson	Packing-box mfrs	1st floor	
" 18	5.07 a.m.	Still	2021 Fifth avenue	1												3	Brick.	20 x 40	Mrs. Perrin	Dwelling	Cellar	
" 18	9.52 a.m.	849	{ Elton avenue, between 154th } { and 155th streets.	1												2	Frame.	25 x 35	J. C. Stickler	Dwelling	1st floor	Roof
" 18	8.40 p.m.	Still		1																		
" 18	9.55 p.m.	Still	370 East 10th street	1												5	Brick.	25 x 60	Isaac Rosenbaum	Meat market	1st floor	
" 18	10.09½ a.m.	{ Circuit 4..... } { Aut. Signal 43. }		1												1						
" 18	3.46 p.m.	Still	{ Unionport and Westchester } { roads.	1												1	Hay, etc.				Field.	
" 18	5.26 p.m.	Still		1												1						
" 18	5.55 p.m.	624	79th street and Central Park.	1													Brush, etc.					
" 18	6.05 p.m.	Still		1												1						
" 18	6.15 p.m.	144 and 2d alarm.	44 Walker street.	1												5	Brick, br. stone ft.	25 x 100	Sulzbacher & Wollstein	Manufacturers clocks, etc.	4th floor.	Roof.
" 19	1.24 a.m.	{ Circuit 5..... } { Aut. Signal 8. }		1												1						
" 19	7.32 a.m.	653	{ 83d street, 10th avenue and } { Boulevard.	1												3	Frame.	25 x 30	John McCarthy	Dwelling	1st floor	
" 21	1.25 a.m.	467	561 First avenue.	1												4	Brick.	25 x 55	Thomas Boylen	Grocery	Cellar.	
" 21	12.44 p.m.	668	403 East 88th street.	1												2½	Frame.	20 x 30	Charles Burton	Dwelling	Basement.	
" 22	5.20 p.m.	Still	16 West street.	1												3	Brick.	45 x 40	John Doerr	Restaurant	1st floor	
" 22	1.10 p.m.	Still	19 Catharine street.	1												4	Brick.	25 x 60	David Kraker	Dry goods.	1st floor	
" 22	5.15 p.m.	619	First ave., bet. 66th and 67th sts.	1												1	Frame.	12 x 18	John D. Crimmins	Tool house, etc.	1st floor	
" 22	7.42 p.m.	533	531 West 53d street.	1												2	Frame.	25 x 45	August Kempfem	Dwelling	1st floor	{ 2d floor and 533 } { West 53d st. }
" 22			Extended to 533 West 53d street.	1												2	Frame.	25 x 45	J. Gorman	Dwelling		
" 22	11.05 p.m.	{ Special calls, } { Engine 33 and } { H. & L. 9, to } { Station 237. }	149 Mercer street	1												3	Brick.	25 x 50	M. Herzig and others.	Furriers	2d floor.	
" 23	3.40 a.m.	335	671 Hudson street.	1												5	Brick.	200 x 100	Herring & Co.	Safe manufacturers.	Cellar.	
" 23	1.50 p.m.	231 and 3d alarm.	69 to 87 Clarkson street.	1												1	Frame	250 x 100	McArdle & Hart.	Dealers in junk.	1st floor	354 West street.
" 23			Extended to 354 West street.	1												3	Frame.	25 x 80	John Kenna & Son	Dwelling		590 Washington st.
" 23			Extended to 590 Washington st.	1												2	Frame.	25 x 100	Charles Merchand.	Chemist		
" 23	1.15 p.m.	Still	550 West 42d street.	1												4	Brick.	20 x 40	Ellen McGuire	Dwelling	1st floor	
" 23	6.35 p.m.	Still	157 East 28th street.	1												3½	Frame.	20 x 30	Patrick Curley	Dwelling	3d floor.	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
.....	.....	.....	.....	.....	.....	.....	.....	H. M.	.....	.....	.....	.....	.....	.....
\$50	.....	\$50	Engine 38	Engine 38	{ Assistant Foreman Conklin, Engine 38. .... }	38	.....	. 05	1	.....	.....	Foul chimney.....	.....	.....
.....	\$100	100	.....	.....	.....	.....	.....	. 15	1	.....	.....	{ Children playing with matches..... }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 10	1	.....	.....	Kerosene lamp exploding...	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 02	1	.....	.....	Flash-lights igniting scenery.	.....	.....
50	100	150	Engine 20	Engine 20	Bates, Foreman McGill, Miller	20	.....	. 02	1	.....	.....	{ Explosion of bombs ignit- ing scenery..... }	.....	.....
.....	.....	.....	Engine 20	Engine 20	{ Bates, Foreman McGill, Miller Gill, Rowe, Miller, Camp- bell, Fisher..... }	20	.....	. 40	1	.....	.....	{ Heat from range igniting flooring..... }	.....	.....
1,500	2,500	4,000	Engine 7	Engine 7	.....	4, 6, 7, 9, 12, 27, 29, 31	.....	. 15	1	.....	.....	Rekindling of previous fire..	.....	.....
200	80	280	Engine 2	Engine 2	Reilly, Fisher.....	2	.....	. 20	1	.....	.....	Heat from furnace in foundry	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 01	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 02	1	.....	.....	{ Explosion of bomb ignit- ing scenery..... }	.....	.....
.....	.....	.....	.....	.....	Bates, Miller, Bresnan.....	.....	.....	. 03	1	.....	.....	Carelessness.....	.....	.....
10	.....	10	.....	.....	Shay, Bresnan, Miller.....	.....	.....	. 10	1	.....	.....	Explosion Kerosene lamp ..	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 03	1	.....	.....	{ Occupants throwing light- ed cigarette on awning }	.....	.....
.....	.....	.....	.....	.....	Shay, Miller, Bresnan.....	17	.....	. 03	1	.....	.....	Kerosene stove taking fire..	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 02	1	.....	.....	Kerosene lamp upsetting...	.....	{ Back draught chimney, No. 97 Pine street.
25	25	50	Engine 4	Engine 4	Shay, Foreman McGill, Rowe	4	.....	. 15	1	.....	.....	Spontaneous combustion...	.....	.....
.....	.....	.....	.....	.....	Fisher, Reilly.....	8	.....	. 10	1	.....	.....	Foul chimney.....	.....	.....
.....	10	10	.....	.....	Foreman Shaw, Reilly.....	.....	.....	. 05	1	.....	.....	Carelessness.....	.....	.....
50	20	70	.....	.....	Shay, Rowe, Foreman McGill	.....	.....	. 05	1	.....	.....	Kerosene lamp explosion ..	.....	.....
.....	5	5	.....	.....	.....	.....	.....	3.01	.....	.....	.....	Carelessness.....	.....	.....
600	500	1,100	Engine 35	Engine 35	Orr, Wilhelm.....	35	.....	1.25	1	.....	.....	{ Children playing with matches..... }	.....	Engineer of steamer, Samuel M. Pattison, Engine No. 36, slightly injured.....
.....	20	20	.....	.....	Shay, Rowe, Campbell.....	.....	.....	. 03	1	.....	.....	{ Sparks from locomotive, Elevated Railroad..... }	.....	.....
200	250	450	Engine 44	Engine 44	Orr, Wilhelm, Fisher.....	39, 44	.....	. 55	1	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 15	1	.....	.....	Foul chimney.....	.....	.....
25	25	50	Engine 4	Engine 4	Foreman Crum.....	4	.....	. 10	1	.....	.....	{ Defective construction of building beams in chim- ney..... }	.....	.....
20	20	40	.....	.....	.....	.....	.....	. 05	1	.....	.....	Escaped gas igniting.....	.....	.....
3	3	6	Engine 2	Engine 2	Reilly.....	2	.....	. 05	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	Engine 31	Engine 31	Shay, Foreman McGill, Miller.	31	.....	. 15	1	.....	.....	{ Unknown person setting fire to straw bed..... }	.....	.....
500	5,100	5,600	Engine 32	Engine 32	Shay, Rowe, Foreman McGill.	4, 29, 32	.....	1.45	1	.....	.....	Not ascertained.....	.....	.....
100	25	125	Engine 33	Engine 33	Foreman Golden.....	33	.....	. 15	1	.....	.....	Defective flue.....	.....	.....
.....	75	75	.....	.....	.....	.....	.....	. 10	1	.....	.....	Child playing with matches.	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 03	1	.....	.....	Foul chimney.....	.....	.....
25	25	50	Engine 15	Engine 15	Shay, Miller, Foreman McGill.	15	.....	. 05	1	.....	.....	{ Sparks from furnace ig- niting flooring..... }	.....	.....
.....	10	10	.....	.....	Shay, Foreman Shaw.....	.....	.....	. 05	1	.....	.....	Kerosene lamp upsetting...	.....	.....
.....	450	450	Engine 40	Engine 40	Foreman McNeill.....	40	.....	1.30	1	.....	.....	Carboy of vitriol bursting ..	.....	{ Ass't Foreman Francis Carey, Engine Co. No. 40, hand in- jured..... Private Wm. J. Kennedy, En- gine Co. No. 29, hand slightly injured..... }
3,000	3,000	6,000	Engine 27	Engine 27	{ Shay, Rowe, Foreman McGill, Miller, Bresnan, Foreman Shaw..... }	4, 6, 7, 12, 13, 27, 29, 30, 31, 32	.....	3.35	1	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 10	1	.....	.....	Mice gnawing matches.....	.....	.....
500	125	625	Engine 41	Engine 41	Wilhelm.....	41	.....	1.00	1	.....	.....	{ Children playing with matches..... }	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 65 West 33d st.
50	75	125	Engine 28	Engine 28	Foreman O'Brien.....	28	.....	. 15	1	.....	.....	Carelessness.....	.....	.....
.....	.....	.....	.....	.....	Bonner.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 17 to 27 Vande- water street.
.....	.....	.....	Engine 45	Engine 45	Foreman Nash.....	45	.....	. 20	1	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 172 Waverley place.
.....	.....	.....	.....	.....	Orr.....	23, 40	.....	. 10	1	.....	.....	Workmen burning brush...	.....	.....
.....	.....	.....	.....	.....	Rowe.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Smoke issuing from prem- ises No. 20 Dey street.
1,000	22,600	23,600	H. & L. 8	Engine 31	{ Shay, Bonner, Rowe, Fore- man Shaw..... }	13, 20, 27, 29, 30, 31	.....	2.30	1	.....	.....	Not ascertained.....	.....	.....
.....	.....	.....	.....	.....	Bonner.....	.....	.....	.....	.....	.....	.....	.....	.....	{ Disarrangement of therm- ostat at Nos. 78 and 80 Worth street.
.....	.....	.....	.....	.....	Orr.....	.....	.....	. 05	1	.....	.....	Foul chimney.....	.....	.....
100	25	125	Engine 21	Engine 21	Fisher, Campbell.....	5, 16, 21	.....	. 30	1	.....	.....	Not ascertained.....	.....	.....
20	25	45	.....	.....	Wilhelm.....	.....	.....	. 05	1	.....	.....	{ Leak in kerosene stove and oil igniting..... }	.....	.....
25	10	35	.....	.....	Foreman Farrell.....	43	.....	. 10	1	.....	.....	Carelessness.....	.....	.....
.....	200	200	Engine 9	Engine 9	Foreman Erb.....	9	.....	. 02	1	.....	.....	Carelessness.....	.....	.....
20	.....	20	Engine 39	Engine 39	Fisher, Orr.....	39	.....	. 15	1	.....	.....	Malicious mischief.....	.....	.....
250	225	475	Engine 2	Engine 2	Campbell, Fisher.....	2, 23, 40	.....	. 30	1	.....	.....	Defective chimney.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	25	50	Engine 33	Engine 33	Foreman Golden.....	33	.....	. 15	1	.....	.....	Carelessness.....	.....	.....
50	50	100	Engine 3	Engine 3	Shay, Foreman Spence, Gicquel	3	.....	1.00	1	.....	.....	Not ascertained.....	.....	.....
1,500	12,100	13,600	Engine 24	Engine 24	{ Shay, Foreman Spence, Gic- quel, Bonner, Campbell, Bresnan, Miller..... }	{ 3, 13, 18, 20, 24, 25, 27, 29, 30, 31, 33, 43..... }	.....	3.00	1	.....	.....	Carelessness.....	.....	Foreman Hugh J. Golden, and Ass't Engineer John Barrett, Engine Co. No. 33, slightly injured. Ass't Foreman Mon- tanye, Engine Co. No. 3, foot injured.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	. 20	1	.....	.....	Foul chimney.....	.....	.....
.....	2	2	.....	.....	.....	.....	.....	. 02	1	.....	.....	Foul chimney.....	.....	.....

THE CITY RECORD.

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ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
								H. M.						
\$250	\$440	\$690	Engine 44	Engine 44	Orr, Wilhelm.....	22, 39, 44	2, 13	1.00	1	1		Carelessness.....	{ Foreman Wm. H. Landers, Engine Co. No. 44, arm cut with glass.....	District Telegraph Messen- ger notifying Engine Co. No. 27 that there was a fire at No. 387 Green- wich street.
20	10	30						.05	1			Malicious mischief.....		
					Campbell, Fisher.....	19		.40	1			Carelessness.....		{ Smoke issuing from prem- ises No. 306 West 40th street.
			Engine 24	Engine 24	Shay, Foreman Spence, Gicquel	24	5	.10	1	1		Sparks from fire engine.....		
								.05	1			Carelessness.....		
			Engine 2	Engine 2	Campbell, Fisher.....	2		4.00	1	1		Spontaneous combustion....	{ Fireman Wm. J. Noble, Engine Co. No. 2, leg injured.....	
						36		.05	1			{ Sparks from chimney ig- niting roof.....		
50		50	Engine 4	Engine 4	Shay, Rowe, Bonner.....	4		.05	1	1		Spontaneous combustion....	{ Fireman Thos. F. Farron, Engine Co. No. 32, slightly injured...	
								.01	1			Carelessness.....		
	20	20			Shay, Miller, Bonner.....		6	.03	1			{ Hot coals from range ig- niting floor.....		
					Shay, Bresnan, Miller.....			.05	1			Foul chimney.....		
	20	20				9		.03	1			Carelessness.....		
					Wilhelm, Orr.....			.05	1			Foul chimney.....		
20	30	50			Fisher, Campbell.....	8	2	.10	1			Kerosene lamp explosion...		
	10	10			Shay, Campbell.....			.02	1			Kerosene lamp explosion...		
			Engine 15	Engine 15	Shay, Miller, Bresnan.....	15		.20	1	1		Not ascertained.....		
								.02	1			Carelessness.....		{ Back-draught of chimney No. 251 Broadway.
					Shay, Bonner, Rowe.....									
					Shay, Miller, Bresnan.....			.02	1			Carelessness.....		{ Smoke issuing from prem- ises No. 237 E. 46th st.
					Fisher, Campbell.....									
						45		.25	1			Boys building bonfire.....		
							8	.15	1			{ Waste cotton igniting in furnace.....		
15		15				5		.15	1			Carelessness.....		
20	20	40				11		.15	1			Not ascertained.....		
					Shay, Miller, Bresnan.....	11	6	.05	1			Children playing with fire...		
	10	10				25		.05	1			Kerosene lamp upsetting...		
														{ Smoke issuing from prem- ises No. 155 Greenwich street.
					Wilhelm.....									{ Malicious person breaking door of alarm-box and sending out alarm.
					Shay, Miller, Bresnan.....	15	6	.15	1			Carelessness.....		
	50	50			Bresnan, Bonner.....		6	.05	1			Child playing with matches.		
						35		.05	1			Foul chimney.....		
					Bonner, Foreman Spence.....			.05	1			{ Sparks from chimney ig- niting drapery.....		
10		10			Fisher, Campbell.....			.05	1			{ Sparks from stove-pipe igniting roof.....		
75	100	175	Engine 34	Engine 34	Campbell, Fisher.....	34	12	.05	1	1		Carelessness.....		
								.01	1			Carelessness.....	{ Lena Marshall, servant, arm severely burned.....	
						13		.20	1			{ Hot irons igniting wood- work.....		
					Campbell, Fisher.....		18	.10	1			{ Sparks from forge igni- ting woodwork.....		
					Shay, Gicquel, Fisher.....			.05	1			{ Netting taking fire from gas-light.....		{ Back draught chimney at 783 Ninth avenue.
	5	5				33		.05	1			{ Window-curtain taking fire from gas-light.....		
					Shay, Foreman Spence, Gicquel	24		.10	1			Kerosene lamp explosion...		
						31		.10	1			Kerosene lamp falling.....		
														{ Reflection of lighted lamp in premises at corner 66th street and 10th ave.
5	2	7						.05	1			Carelessness.....		
								.01	1			Children playing with fire..	{ Fireman Jos. R. Harway, H. & L. Co. No. 6, severely injured by being run over by truck...	
	10	10			Shay, Miller, Bresnan.....		6	.03	1			Carelessness.....		
						21	7	.03	1			{ Workmen burning straw in fire-place.....		
	10	10			Bates, Foreman Spence, Gicquel			.05	1			{ Clothing falling on stove and igniting.....		
	10	10			Bates, Gicquel.....		5	.05	1			Carelessness.....		
	20	20					5	.05	1			Carelessness.....		{ Smoke issuing from man- ure heap, foot of 37th street, North river.
					Campbell, Fisher.....									
			Engine 37	Engine 37		37		.05	1			{ Coal overheating from unknown cause.....		
					Bates, Gicquel.....			.05	1			Stove upsetting.....		
							4	.05	1			Carelessness.....		
							11	.03	1			{ Pan of fat on stove tak- ing fire.....		
	15	15			Campbell, Fisher.....		4	.05	1			Carelessness.....		
	15	15				44		.05	1			{ Drapery taking fire from gaslight.....		
300	200	500	Engine 28	Engine 28	Bates, Bresnan, Miller.....	5, 28, 11	3, 11	.30	1	1		Spontaneous combustion....		
75	400	475	Engine 8	Engine 8	Orr, Fisher.....	8, 39, 44	2, 13	.55	1	1		Carelessness.....		
1,250	753	2,003	H. & L. 13	Engine 23	Orr, Wilhelm, Fisher.....	23		.45	1			Carelessness.....		
35	25	60	Engine 35	Engine 35	Wilhelm, Orr.....	35		.20	1	1		Malicious mischief.....		
100	500	600	H. & L. 6	Engine 31	Bates, Miller, Rowe.....	31		.25	1	1		Carelessness.....		
								.30	1			Foul chimney.....		
								.10	1			Kerosene lamp explosion...		
								.02	1			Kerosene lamp upsetting...		
10	5	15			Campbell, Fisher.....									

FIRST NOTICE OF FIRE OR ALARM.			ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.				
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.											
				Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.				Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.	Citizen Key Holders.	Other Sources.				
1881.																						
Oct. 2	7.41 p.m.	437	429 Eighth avenue	1				1					1			4	Brick	25 x 50	J. Fitzpatrick	Patent cap manufactory..	2d floor.....	
" 2	10.45 p.m.	448	565 Second avenue	1				1				1				4½	Brick	25 x 60	N. Levy	Shoe shop, etc.....	Basement.....	
" 2	11.10 p.m.	717	168 East 105th street	1				1				1				4	Brick	25 x 65	Unoccupied.....		1st floor.....	
" 3	2.14 p.m.	Still	504 Seventh avenue	1				1			1					1	Frame	12 x 25	Wm. O'Rourke.....	Cigar store.....	1st floor.....	
" 3	10.15 p.m.	188	251 Grand street	1				1			1					4½	Brick	25 x 50	Otto Zahn	Tailor shop.....	Basement.....	
" 4	2.10 a.m.	Still	118 Delancey street	1				1								1 5	Brick	25 x 60	Chas. Isaac and others.	Dwelling .....	Cellar.....	
" 4	2.34 p.m.	{Circuit 4.....} {Aut. Signal 3.}						1			1					1						
" 4	4.29 p.m.	436	258 West 32d street	1				1					1			4	Brick	25 x 50	Henry Platt	Dealer in pork.....	1st floor.....	
" 4	7.15 p.m.	453	525 to 537 West 35th street	1				1				1				8	Brick	175 x 100	H. P. Hale	Piano manufactory.....	1st floor.....	
" 4	8.00 p.m.	Still	241 East 59th street	1				1								1 5	Brick	25 x 60	A. Cohn	Dwelling .....	3d floor.....	
" 5	12.28 p.m.	927	{Sedgwick avenue and Ford- ham Landing road.....}	1				1				1					Wood, etc.....		Morris estate		Dry leaves.....	
" 5	3.39 p.m.	{316, and 2d and 3d alarms...}	61 to 71 Greenwich avenue	1				1				1				5	Brick	75 x 150	Tracy & Russell	Brewery .....	1st floor.....	
" 5	5.25 p.m.	566						1				1										
" 5	4.20 p.m.	Still	Jefferson Market	1				1								1 2	Brick	110 x 150	Varicus parties.....	Market, etc.....	Roof.....	
" 5	6.00 p.m.	Still						1								1						
" 5	8.20 p.m.	6	6 Bowling Green	1				1				1				4	Brick	25 x 75	Various parties .....	Offices, etc.....	1st floor.....	
" 5	6.30 a.m.	Still	Foot 37th street, North river	1				1			1						Straw, etc.....			Manure dump .....	Manure.....	
" 5	9.15 p.m.	263 and 2d alarm.	199 Wooster street	1				1				1				5	Brick	25 x 100	Boyd & Bros	Packing box manufactory.	Basement.....	All floors.....
" 6	6.44 a.m.	316 and 3d alarm.	61 to 71 Greenwich avenue	1				1			1					5	Brick	75 x 100	Tracy & Russell	Brewery .....	4th floor.....	Rear building.....
" 6			{Extended to 71 Greenwich ave- nue, rear.....}													2	Brick	50 x 50	Tracy & Russell	Storage.....		
" 6	5.55 a.m.	Still	74 Fulton street	1				1				1				4	Brick	50 x 75	W. W. Everett	Restaurant.....	1st floor.....	
" 6	9.03 a.m.	366	268 Avenue A	1				1				1				5	Brick	20 x 50	Christopher Nichols	Dealer in butter.....	1st floor.....	
" 6	10.13 a.m.	Still	709 Ninth avenue	1				1				1				3	Brick	16 x 50	Lizzie Schmitt	Dwelling .....	3d floor.....	
" 6	12.06 p.m.	277	163 Lewis street	1				1				1				4	Brick	25 x 40	S. Prince and others.	Dwelling .....	3d floor.....	
" 6	4.07 p.m.	155	42 and 44 Montgomery street	1				1				1				2	Frame	50 x 25	Frederick Wilms	Kindling wood manufactory	1st floor.....	2d floor.....
" 6	5.45 p.m.	Still	2072 Third avenue	1				1				1				1	Frame	20 x 60	Several families.....	Dwelling .....	1st floor.....	
" 6	7.20 p.m.	Still	7 Ludlow street	1				1								1 5	Brick	25 x 70	Max Goldstein	Bakery .....	Basement.....	
" 6	7.48 p.m.	92	8 New Bowery	1				1				1				5	Brick	25 x 30	{John McBride and others.....}	Dwelling .....	2d floor.....	
" 6	9.45 p.m.	Still	160 East 38th street	1				1				1				4½	Brick, br. st. ft.	25 x 50	Eugene Clark	Dwelling .....	1st floor.....	
" 6	11.29 p.m.	341						1				1										
" 7	12.20 a.m.	Still	91 Baxter street	1				1				1				2	Frame	20 x 25	Several parties .....	Stable.....	1st floor.....	
" 7	8.52 a.m.	57	75 Beekman street	1				1				1				5	Brick	25 x 100	Mulford	Brush manufactory.....	5th floor.....	
" 7	12.58 p.m.	254	64 Grove street	1				1				1				5	Brick	30 x 80	J. B. Thomas	Fancy box manufactory...	Cellar.....	
" 7	2.45 p.m.	Still	648 5th street	1				1								1 5	Brick	25 x 50	Joseph Wurth	Dwelling .....	1st floor.....	
" 7	3.50 p.m.	388	512 to 526 East 20th street	1				1				1				3	Brick	50 x 75	Wm. Hall & Son	Manufact'rs of Doors, etc.	1st floor.....	
" 7	5.31 p.m.	519						1														
" 7	6.31 p.m.	Still	419 Tenth avenue	1				1				1				4	Brick	25 x 65	Bernard McBride	Dwelling .....	4th floor.....	
" 7	6.45 p.m.	649	79th street bet. avenues A and B	1				1				1				1	Frame	32 x 75	M. C. Henry	Stove works.....	1st floor.....	
" 7	7.04 p.m.	476	402 West 41st street	1				1				1				2	Brick	15 x 25	Thos. Keenan	Dealer in rags.....	1st floor.....	
" 7	9.25 p.m.	Still	229 William street (rear)	1				1								1 3	Brick	20 x 70	Elizabeth Monheim	Dwelling .....	3d floor.....	
" 7	11.02 p.m.	127	260 Canal street	1				1				1				5	Brick, iron front.	25 x 100	Belanzer & Seigal	Clothiers.....	Roof.....	
" 7	5.09 a.m.	514	547 and 549 West 43d street	1				1				1				1	Frame	30 x 50	Henry Rice	Kindling wood Manuf'r.	1st floor.....	
" 8	9.10 a.m.	Still	{Aqueduct avenue, between Brick and Orchard streets.}	1				1				1					Fence, etc.....		Ogden Estate		in leaves.....	
" 8	9.54 a.m.	65	10 Park place	1				1				1				5	Brick	25 x 75	H. E. Heppie	Manufact'r of brushes...	3d floor.....	
" 8	12.01 p.m.	375 and 2d alarm.	245 West 21st street (rear)	1				1				1				2	Frame	18 x 75	Martin & Sons	Stable, etc.....	1st floor.....	{Roof, and 241 West 21st street.
" 8			{Extended to 241 West 21st street.....}													2	Frame	18 x 20	Wm. Scraff	Shop.....		{245 West 21st street, front..}
" 8			{Extended to 245 West 21st street front.}													3	Frame	20 x 40	John Murray	Dwelling.....		{243 and 239 W. 21st street...}
" 8			{Extended to 243 West 21st street.....}													3	Brick	20 x 40	Mrs. Levins	Dwelling .....		
" 8			{Extended to 239 West 21st street.....}													3	Frame	20 x 40	Several families.....	Dwelling.....		
" 8	12.30 p.m.	{417, Special call and 2d alarm.}	158 and 160 West 27th street	1				1				1				5	Brick	50 x 100	J. F. Tyrell	Soap manufacturer	5th floor.....	
" 8	2.47 p.m.	482	430 Fifth avenue	1				1				1				4	Brick, br. stone ft.	25 x 60	Geo. L. Kingsland	Dwelling .....	1st floor.....	
" 8	3.57 p.m.	219	19 Spring street	1				1				1				2½	Brick	25 x 30	F. Rietsch	Lagerbeer saloon	Attic.....	
" 8	4.03 p.m.	Still	152d st., bet. 10th and 11th aves.	1				1				1				1 3	Brick	40 x 45	G. E. Buck	Dwelling .....	Basement.....	
" 8	6.56 p.m.	Still	408 West 16th street	1				1				1				1 3	Brick	25 x 50	Elizabeth Rafferty	Dwelling .....	3d floor.....	
" 8	7.19 p.m.	454	525 West 36th street (rear)	1				1				1				4	Frame	25 x 30	Fredk. Bath	Dwelling .....	4th floor.....	
" 8	7.55 p.m.	456	304 and 306 West 36th street	1				1				1				3	Brick	50 x 40	John Walker	Hat manufactory .....	2d floor.....	3d floor.....
" 9	12.25 a.m.	413	297 Tenth avenue	1				1				1				3	Frame	25 x 40	Wm. H. Kline	Dwelling .....	3d floor.....	
" 9	2.50 p.m.	Still	420 West 17th street	1				1				1				1	Frame	12 x 30	M. C. Mulquieu	Stable.....	1st floor.....	
" 9	5.45 p.m.	Still	61 to 71 Greenwich avenue	1				1				1				1 5	Brick	150 x 75	Tracy & Russell	Brewery .....	4th floor.....	
" 9	7.05 p.m.	174	19 Suffolk street	1				1				1				3	Frame	20 x 35	F. Betz	Dwelling .....	3d floor.....	
" 10	8.45 a.m.	367 and 3d alarm.	512 and 514 East 17th street	1				1				1				5	Brick	50 x 100	Carl Upmann	Cigar manufacturer .....	1st floor.....	{All floors and to 516 and 518 E. 17th street...}
" 10			{Extended to 516 and 518 East 17th street.....}													5	Brick	75 x 60	Mellen & Co.	Curled hair manufactory.		
" 10	9.08 a.m.	172 and 2d alarm.	39 and 41 Essex street (rear)					1				1				1&2	Frame	30 x 15	T. O'Hara and ors.	Stables, etc.....	1st floor.....	{All floors & 39 & 43 Essex street}
" 10			{Extended to 39 Essex street (rear).....}													2	Brick	10 x 50	Wm. Doyle	Stables, etc.....		
" 10			{Extended to 43 Essex street (rear).....}													3	Frame, brick ft.	20 x 15	Several families.....	Dwelling .....		

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		How EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.				
	\$15	\$15			Campbell, Fisher.....	1.....		H. M. .05	Carelessness.....		
\$25	300	325	Engine 16	Engine 16	Fisher, Campbell.....	16.....	7.....	.10	Not ascertained.....		
600		600			Orr, Wilhelm.....	35.....	13, 14.....	.20	Carelessness.....	Foreman Peter Vetter, H. & L. Co. No. 13, slightly injured..	
						26.....		.02	Carelessness.....		
	30	30			Bates, Miller, Bresnan.....		6.....	.05	Kerosene lamp explosion...		
15		15	Engine 17	Engine 17		17.....		.25	Carelessness.....		
15	383	398	Engine 34	Engine 34	Campbell, Fisher.....	34.....	12.....	.05	{Soot in chimney taking fire and igniting wood- work.....}		{Caused by workmen tam- pering with automatic wires, 115 & 117 William st.
					Campbell, Fisher.....			.10	{Workmen burning rub- bish in furnace.....}		
	15	15						.05	Kerosene lamp explosion...		
					Foreman Ward.....		18, 19.....	1.30	Sparks from locomotive....	Engineer of Steamer Robert Gammel, Engine Co. No. 46, slightly injured by kick from horse.....	
10,618	42,903	53,521	Engine 18	Engine 18	{Bates, Shay, Gicquel..... Foreman Spence, Campbell, Bresnan, Bonner, Rowe..... Fisher.....}	{1, 3, 5, 11, 13, 14, 18, 19, 20, 24, 25, 28, 30, 33.....}	{1, 3, 5, 7, 8, 9, 12.....}	4.00	Not ascertained.....	Fireman Henry Campbell, H. & L. Co. No. 12, hand severely cut by falling slate.....	{Smoke issuing from prem- ises, 1018 and 1020 Sec- ond avenue.
50		50				18.....	5.....	.15	{Sparks from fire corner Greenwich avenue and 12th street.....}		{Smoke issuing from prem- ises, No. 26 Burling Slip.
					Bates, Bonner, Rowe.....			.01	Carelessness.....		
					Foreman McDonald.....	2.....		1.20	Spontaneous combustion....		
3,500	1,905	5,405	Engine 33	Engine 33	{Bates, Shay, Foreman Spence, Gicquel, Bresnan}	{13, 18, 20, 24, 25, 30, 31, 33.....}	3, 5, 8, 9.....	2.30	{Boys smoking outside of building, fire dropping inside.....}	Ass't Foreman Matthew Hicks, Engine Co. No. 25, slightly injured.....	
			Engine 18	Engine 18	{Bates, Shay, Gicquel, Fore- man Spence, Campbell, Bresnan, Bonner.....}	{1, 3, 5, 13, 14, 18, 19, 24, 25, 30, 33.....}	{2, 3, 5, 9, 11, 12.....}	5.00	Rekindling of previous fire..		
						32.....		.05	Foul chimney.....		
					Fisher.....			.05	Carelessness.....		
								.05	Carelessness.....		
50		50			Bates, Miller, Bresnan.....			.05	Sparks from furnace.....		
50		50	Engine 15	Engine 15	Bates, Miller.....	15.....	6.....	.25	{Goods in show window igniting from gas-light.}		
10	117	127				35.....		.10	Foul chimney.....		
							6.....	.03	Foul chimney.....		
					Bates, Miller, Rowe.....			.03	Foul chimney.....		
						21.....		.05	Foul chimney.....		
					Bates, Bresnan.....						{Sent out for exhibition to French visitors.
						31.....		.01	Carelessness.....		
500	2,000	2,500	Engine 32	Engine 32	Bates, Bonner, Rowe.....	32.....	1, 10.....	1.00	Heat from stove-pipe.....	Foreman Dan'l Bradley, H. & L. Co. No. 10, leg slightly injured	
			Engine 24	Engine 24	{Bates, Foreman Spence, Gicquel.....}	24.....	5.....	.15	Back-draft of chimney.....	Foreman John Castles, Engine Co. No. 18, leg slightly injured	
15		15					11.....	.15	Not ascertained.....		
					Shay, Bresnan.....			.02	Sparks from furnace.....	Foreman Edward O'Brien, En- gine Co. No. 28, wrist sprained	{Back draught chimney No. 1550 Broadway.
					Campbell.....						
10		10						.03	Kerosene lamp upsetting..		
10		10			Orr, Wilhelm.....		13.....	.03	{Kerosene lamp igniting wooden partition..... Children playing with matches.....}		
					Campbell.....		4.....	.05	Not ascertained.....		
25		25				12.....		.05	Not ascertained.....		
					Bates, Bonner, Miller.....	31.....		.05	Sparks from chimney.....		
138	660	798	Engine 2	Engine 2	Campbell.....	2, 26, 34.....	4.....	.45	{Sparks from furnace ig- niting sawdust.....}		
							19.....	.20	Boys building bonfire.....		
	15	15			Bates, Rowe, Bonner.....			.03	{Glue-pot taking fire on gas-light.....}		
1,250	1,375	2,625	H. & L. 12	Engine 19	Bates, Shay, Gicquel.....	{1, 3, 14, 16, 18, 19, 24, 26, 34.....}	3, 5, 7, 12.....	2.00	Boys playing with fire.....		
650	3,600	4,250			{Bates, Shay, Campbell, Bres- nan.....}	2, 3, 16, 23, 34.....	4, 5.....	1.30	{Fire from furnace igniting material from dry box.}		
75		75			Campbell.....			.05	Vapor of shellac igniting...		
300	500	800	H. & L. 9	Engine 20	Bates, Miller, Bresnan.....	13, 20.....	6, 9.....	1.00	Not ascertained.....		
10		10				38.....		.10	{Sparks from chimney ig- niting fire board.....}		
	5	5						.02	Kerosene lamp upsetting...		
	15	15			Campbell.....	34.....		.05	Kerosene lamp exploding...		
627	3,175	3,802	Engine 26	Engine 26	Campbell.....	1, 26, 34.....	4, 12.....	.30	Not ascertained.....	Thos. Brown died from suffo- cation; Chas. Knisten and M. P. Storgard jumped from third story of building; inter- nally injured.....	
					Campbell.....			.01	Kerosene lamp explosion...		
						3.....		.02	Carelessness.....		
						18.....	5.....	.40	Rekindling of previous fire.		
					Bates, Miller, Bonner.....			.02	Carelessness.....		
12,190	69,350	81,540	Engine 28	Engine 28	{Bates, Shay, Bresnan, Fisher, Miller, Campbell, McCabe, Foreman Spence}	{5, 11, 14, 15, 16, 17, 18, 21, 25, 28, 33.....}	{3, 6, 7, 11, 12.....}	4.00	Not ascertained.....		
950	1,615	2,665	Engine 9	Engine 9	{Bates, Shay, Miller, Mc- Cabe, Bonner.....}	9, 12, 20, 31.....	1, 6, 9.....	1.20	Heat from furnace.....		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.	
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.						Material Built of.					Area.
					Fire Indication of Fire. Unnecessary. Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	District Key Holders.	Citizen Key Holders.	Other Sources.	Number of Stories.							
1881.																				
Oct. 10	10.46 a.m.	92	27 Roosevelt street	1										6	Brick	25 x 75	Mr. Murphy	Dwelling	4th floor	
" 10	4.03 p.m.	473	439 West 40th street (rear)	1										2	Brick	25 x 25	Joseph Carroll	Stable	1st floor	
" 10	4.49 p.m.	214	306 Hudson street	1											Bales Excelsior				Sidewalk	
" 10	5.12 p.m.	316	61 to 71 Greenwich avenue	1										5	Brick	150 x 75	Tracy & Russell	Brewery	4th floor	
" 10	5.14 1/2 p.m.	225	97 Norfolk street	1										2 1/2	Frame	20 x 25	D. Davenport	Dwelling	2d floor	
" 10	5.59 p.m.	316	61 to 71 Greenwich avenue	1										5	Brick	150 x 75	Tracy & Russell	Brewery	4th floor	
" 10	6.46 p.m.	{443 and 2d & 3d alarms...}	204 to 208 Lexington avenue	1										2	Brick	75 x 80	4th Avenue R. R. Co.	{Hospital Stables and storage for feed...}	2d floor	{All floors and to 123 to 131 East 32d street...}
" 10			{Extended to 123 to 131 East 32d street...}											2	Brick	125 x 80	4th Avenue R. R. Co.	{Stables and storage for feed...}		479 to 493 4th ave.
" 10			Extended to 479 to 493 4th ave.											2	Brick	200 x 250	4th Avenue R. R. Co.	Car house and office		{122 to 126 East 33d street...}
" 10			{Extended to 122 to 126 East 33d street...}											2	Brick	76 x 80	4th Avenue R. R. Co.	Blacksmith shop		{210 to 216 Lexington ave...}
" 10			{Extended to 210 to 216 Lexington avenue...}											3	Brick	100 x 100	4th Avenue R. R. Co.	{Grain, mill room and repair shop...}		{102 to 118 East 32d street...}
" 10			{Extended to 102 to 118 East 32d street...}											6 1/2	Brick	160 x 100	John H. Morrell	Storage Warehouse		{120 to 122 East 32d street...}
" 10			{Extended to 120 to 122 East 32d street (rear)...}											2	Brick	40 x 50	John H. Morrell	Stables		477 4th avenue
" 10			Extended to 477 4th avenue											5	Brick	22 x 80	John H. Morrell	Office and Dwelling		184 Lexington ave.
" 10			Extended to 184 Lexington ave.											3 1/2	Brick	20 x 35	A. M. Black	Dwelling		186 Lexington ave.
" 10			Extended to 186 Lexington ave.											3 1/2	Brick	20 x 35	E. T. Beaman	Dwelling		
" 11	12.50 a.m.	98	33 Monroe street	1										5	Brick	25 x 50	J. Philips and others	Dwelling	5th floor	
" 11	1.45 p.m.	Still	Jerome ave. & Kingsbridge road	1										1 1/2	Frame	20 x 35	Patrick Nolan	Hotel	Roof	
" 11	2.44 p.m.	22	65 Washington street	1										4	Brick	25 x 75	Electric Tube Co.	Storage	Cellar	
" 11	4.55 p.m.	Still	112 Canal street	1										2 1/2	Frame	25 x 40	Jacob Friedmann	Upholstery	Basement	
" 11	8.15 p.m.	Still	560 East 5th street	1										5	Brick	25 x 75	Various families	Dwelling	1st floor	
" 11	8.25 1/2 p.m.	125	381 Broadway	1										5	Brick	25 x 100	J. Hardecker	Barber shop	Cellar	
" 11	10.50 p.m.	Still	139 West 33d street	1										3	Brick	25 x 50	Various families	Dwelling	Cellar	
" 12	8.26 a.m.	173	175 Division street	1										2 1/2	Brick	18 x 30	B. Fuerst	Fancy goods store	1st floor	
" 12	1.22 p.m.	Still	25 Centre street	1										4	Brick	50 x 100	James Bulger, Jr.	Brass foundry	1st floor	
" 12	8.50 a.m.	Still	103 West 32d street	1										4	Brick	25 x 90	Various families	Dwelling	2d floor	
" 12	3.57 p.m.	89	90 Park street	1										5	Brick	35 x 65	F. Dassori	Bakery	Cellar	
" 12	9.17 p.m.	447	202 and 204 East 29th street	1										4	Brick	50 x 100	Rosenberger & Co.	Machinist	2d floor	
" 13	6.43 a.m.	338 and 2d alarm	53 and 55 West 15th street	1										3	Brick, br. stone ft.	50 x 40	{Congregation St. Francis Xavier...}	Church, etc.	1st floor	{Roof No. 46 and 52 W. 16th st.}
" 13			{Extended from 46 to 52 West 16th street (rear)...}											5	Brick, granite ft.	100 x 175	{Congregation St. Francis Xavier...}	Church, etc.		
" 13	12.30 p.m.	Still	63 Baxter street	1										3	Brick	25 x 50	Lena Frank	Dwelling	Roof	
" 13	1.54 a.m.	Still		1																
" 13	5.17 1/2 p.m.	282 and 2d alarm	179 and 181 Bank street	1										1	Frame	16 x 16	O'Brien & Co.	Oil works	1st floor	
" 13	6.44 p.m.	277	366 East 4th street	1										2	Brick	40 x 25	J. Sohl	Wheelwright shop	1st floor	
" 13	11.17 p.m.	92	33 Madison street	1										4	Brick	25 x 60	Chas. Schmidt	Butcher shop	1st floor	
" 13	11.35 p.m.	Still	713 5th street	1											Brick	50 x 100	Brown & Hull	Planing mill, etc.	1st floor	
" 14	5.00 a.m.	174	4 Hester street	1										5	Brick	25 x 15	C. Dugan and others	Shoemaker	5th floor	
" 14	2.00 p.m.	Still	447 West 16th street	1										5	Brick	30 x 70	Edward Touhey	Dwelling	5th floor	
" 14	5.14 1/2 p.m.	238	27 Crosby street	1										2 1/2	Frame	25 x 40	Margaret Connor	Dwelling	Attic	
" 14	6.01 p.m.	541	57 West 49th street	1										4	Brick, br. stone ft.	25 x 60	E. T. Williams	Dwelling	2d floor	
" 14	9.03 p.m.	Still	137 South Fifth avenue	1										3	Frame	20 x 40	Andrew Gordon	Hoist wheel manufacturer	1st floor	
" 15	1.11 a.m.	273	213 East Fourth street	1										4	Brick	25 x 30	J. Besony	Cabinet manufacturers	4th floor	
" 15	4.25 a.m.	338		1																
" 15	1.52 p.m.	258	140 West Fourth street	1											Brick	25 x 60	Lewis Mercier	Dwelling	1st floor	
" 15	3.45 p.m.	Still		1																
" 15	8.24 p.m.	177	6 Columbia street	1										2 1/2	Frame	20 x 25	A. Dramon and others	Dwelling	1st floor	
" 15	9.40 p.m.	Still	372 Cherry street	1										5	Brick	25 x 75	Several families	Dwelling	Cellar	
" 16	2.23 p.m.	712	{103d street, between First and Second avenues (rear)...}	1										1	Frame	25 x 25	H. Enfling	Stable	1st floor	{Adjoining building, 336 East 104th st (rear)}
" 16			{Extended to 103d street, between 1st and 2d avenues}											1	Frame	25 x 25	Mary Harvey	Stable		
" 16			{Extended to 336 East 104th street (rear)...}											2	Frame	25 x 50	H. Sproessig	Carpenter shop		
" 16	6.40 p.m.	Still	Pier 45 North river	1											S'ship "Bothnia"		Cunard Line	Transport	In hold	
" 16	5.52 p.m.	186	139 Elm street	1										5	Brick	25 x 75	S. Curry	Packing-box manufactory	Basement	
" 16	9.26 p.m.	449	333 East 29th street	1										4 1/2	Brick	25 x 50	James Kenney	Dwelling	1st floor	
" 17	9.50 a.m.	{Circuit 9 Aut. Signal 2...}																		
" 17	9.48 1/2 p.m.	729	Ward's Island	1										3	Brick	60 x 30	{Commissioners of Charities and Correction...}	Homoeopathic Hospital	2d floor	
" 17	3.16 p.m.	467	549 First avenue	1										4	Brick	25 x 50	Marion Dougherty	Dwelling	3d floor	
" 18	1.03 a.m.	517	346 West 44th street	1										5	Brick	25 x 50	Jacob Fischer	Bakery	Basement	
" 18	12.40 p.m.	Still	303 West 46th street	1										2	Frame	30 x 25	Joseph Koch	Dwelling	1st floor	
" 18	6.57 1/2 p.m.	377	54 West 24th street	1										4	Brick	25 x 50	Mrs. Hendricks	Dwelling	3d floor	
" 19	11.38 a.m.	533	445 West 49th street	1										5	Brick	25 x 60	Patrick Dever	Dwelling	3d floor	
" 20	3.26 p.m.	646	233 East 81st street	1										4	Brick br. stone ft.	27 x 80	Anthony McQuade	Dwelling	2d floor	3d floor
" 20	3.30 p.m.	Still	144 East 14th street	1										5	Brick br. stone ft.	25 x 75	Various families	Dwelling	3d floor	
" 20	4.16 p.m.	{Circuit 4, auto-matic signal 45}																		
" 20	5.52 1/2 p.m.	168	193 Grand street	1										3	Brick	25 x 50	A. Goodman	Storage, etc.	Cellar	
" 21	7.10 p.m.	Still	192 Henry street	1										6	Brick	25 x 75	Morris Baumgaest	Dwelling	4th floor	
" 22	2.00 a.m.	267	37 Bond street	1										3 1/2	Brick	25 x 60	Several families	Dwelling	Attic	
" 22	2.30 p.m.	93	4 Mott street	1										3	Brick	25 x 30	Tom Lee	Cigar Store	1st floor	

SUPPLEMENT.

[illegible]

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.									DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.	Number of Stories.	Material Built of.	Area.						
					Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.					Special Signals.	Automatic Signals.				
1881.																			
Oct. 22	9.54 a.m.	318.....	132 West 11th street.....	1								2½	Frame.....	25 x 25	Wm. & H. Delamater	Dwelling.....	Attic.....		
" 22	2.30 p.m.	Still.....	880 Sixth avenue.....	1								4	Brick.....	25 x 50	Various families.....	Bakery.....	Roof.....		
" 22	4.46 p.m.	647.....	1522 Second avenue.....	1								4	Brick.....	25 x 60	John McCord.....	Dwelling.....	2d floor.....		
" 22	8.32 p.m.	561.....	51 West 53d street.....	1								4	Brick br. stone ft.	25 x 60	Mrs. Donahue.....	Dwelling.....	Basement.....		
" 22	9.21 p.m.	226.....	163 and 165 Attorney street.....	1								5	Brick.....	50 x 60	Liesenbein & Bros....	Cabinet Manufacturers.....	Cellar.....		
" 23	7.29 p.m.	45.....	81 Nassau street.....	1								5	Brick.....	25 x 75	A. Keanen.....	Manufacturer eye glasses.	5th floor.....		
" 23	9.29 p.m.	Still.....	128 Clinton place.....	1								5	Brick.....	25 x 25	Edward Deyzac.....	Dwelling.....	1st floor.....		
" 23	8.30 p.m.	Still.....	527 East 12th street.....	1								3	Brick.....	20 x 40	Mr. Kerschner.....	Dwelling.....	2d floor.....		
" 24	1.35 a.m.	Still.....	113 East Broadway.....	1								4½	Brick.....	25 x 50	Mark Rathael.....	Grocery store.....	Basement.....		
" 24	9.16 a.m.	Still.....	45 Gold street.....	1								5	Brick.....	25 x 75	Henry Tevers.....	Steam and gas fitter.....	Basement.....		
" 24	4.28 p.m.	337.....	233 West 13th street.....	1								3	Brick.....	25 x 50	Charles Williams....	Dwelling.....	2d floor.....		
" 24	5.02 p.m.	Still.....	842 and 846 Broadway.....	1								5	Brick.....	75 x 100	Adolph Menendorff....	Germania Theatre.....	2d floor.....		
" 24	8.00 p.m.	Still.....	{ Ridge place bet. Quarry road and Monroe street... }	1									Brush, etc.....				In vacant lot...		
" 25	8.18 a.m.	416.....	259 West 27th street.....	1								4	Brick.....	50 x 30	William Wagler.....	Manufacturer suspenders.	4th floor.....		
" 25	8.59 a.m.	416.....																	
" 25	2.51 p.m.	Still.....	108 Charles street.....	1								5	Brick.....	25 x 75	John Dodd.....	Dwelling.....	2d floor.....		
" 25	6.45 p.m.	Still.....	77 Avenue C (rear).....	1								3	Brick.....	50 x 30	Jacob Michaels.....	Dwelling.....	2d floor.....		
" 25	7.21 p.m.	353.....	450 West 20th street.....	1								4	Brick.....	25 x 60	M. Fontaine.....	Dwelling.....	4th floor.....		
" 25	7.35 p.m.	144.....	35 Walker sreet.....	1								3	Brick.....	25 x 75	J. Graceman.....	Restaurant.....	Cellar.....		
" 25	8.55 p.m.	Still.....	{ Ridge place, Quarry road and Monroe street... }	1									Brush, etc.....				Vacant lot.....		
" 25	9.02 p.m.	Still.....	48 Charlton street.....	1								5	Brick.....	25 x 50	William Anderson....	Dwelling.....	2d floor.....		
" 26	5.14 a.m.	352.....	352 West 16th street.....	1								3	Frame.....	25 x 25	Henry Parker.....	Dwelling.....	3d floor.....	Roof.....	
" 26	8.13 a.m.	251.....	Pier 46, North river.....	1									Steamship Bolivia .....		Anchor Line.....	Transport, etc.....	In hold.....		
" 26	9.49 a.m.	464.....	214 East 36th street.....	1								5	Brick.....	25 x 60	Emanuel Greenwood....	Dwelling.....	4th floor.....		
" 26	10.50 a.m.	Still.....	532 West 42d street.....	1								3½	Brick.....	20 x 50	Henry Jackson.....	Dwelling.....	Basement.....		
" 26	11.13 a.m.	335.....	419 West 13th street.....	1								3	Brick.....	25 x 35	P. Glancy.....	Dwelling.....	3d floor.....		
" 26	11.48 a.m.	869.....	Fourth avenue and 158th street.	1									{ Harlem River } { R.R. Bridge }		{ Harlem River } { R.R. Co. }.....	Bridge.....	Bridge.....		
" 27	10.50 a.m.	Still.....	172 East 79th street.....	1								3½	Brick.....	25 x 40	H. L. Goodwin.....	Dwelling.....	Basement.....		
" 27	12.00 m.	Still.....	241 West 21st street.....	1								2½	Frame.....	20 x 30	James Lennon.....	Dwelling.....	Cellar.....		
" 27	12.31 p.m.	131.....	65 Mott street.....	1								6	Brick.....	25 x 50	Various families.....	Dwelling.....	1st floor.....		
" 27	1.10 p.m.	Still.....	91 Division street.....	1								5	Brick.....	25 x 50	Several families.....	Dwelling.....	Roof.....		
" 27	2.45 p.m.	541.....																	
" 27	4.53¼ p.m.	312.....	15 Bogert street.....	1								1	Frame.....	20 x 30	Unoccupied.....		1st floor.....		
" 27	5.20½ p.m.	484.....	151 East 42d street.....	1								3½	Brick.....	15 x 50	Mary Platt.....	Dwelling.....	Basement.....		
" 27	5.49¾ p.m.	188.....	82 Allen street.....	1								4	Brick.....	25 x 40	A. Kramer.....	Picture frame manufactory	Cellar.....		
" 27	8.48 p.m.	53.....	258 Fulton street.....	1								4	Brick.....	18 x 60	S. Kramer.....	Cigar store.....	3d floor.....		
" 27	9.48 p.m.	193.....	139 Clinton street.....	1								2½	Frame, br. front.....	20 x 30	Simon Peyser.....	Dwelling, etc.....	2d floor.....		
" 27	9.30 p.m.	Still.....	147 and 149 Eighth street.....	1								3	Brick, stone front.	50 x 100	Jacob Aberle.....	Theatre.....	Stage.....		
" 28	6.25 a.m.	637.....	328 East 75th street.....	1								1	Frame.....	20 x 15	Dunn & Co.....	Blacksmith's shop.....	1st floor.....		
" 28	7.40 a.m.	Still.....	163d st., bet. 3d and Grove aves.	1								3	Frame.....	50 x 50	Shultz and others .....	Dwelling.....	1st floor.....		
" 28	12.19 p.m.	197.....	22 Broome street.....	1								5	Brick.....	25 x 50	Frederick Devela.....	Dwelling.....	3d floor.....		
" 28	3.29 p.m.	Still.....	194 Elizabeth street.....	1								5	Brick.....	25 x 60	James Crowley.....	Dwelling.....	4th floor.....		
" 28	4.39 p.m.	12.....	49 Greenwich street.....	1								5	Brick.....	16 x 20	G. Kaliskie.....	Gents' furnishing goods...	1st floor.....		
" 28	6.05 p.m.	62.....	88 Murray street.....	1								5	Brick.....	35 x 25	H. Opperman.....	Dwelling.....	Cellar.....		
" 28	7.15 p.m.	Still.....	461 West 47th street.....	1								3	Brick, br. stone ft.	25 x 50	John N. Vinter.....	Dwelling.....	Basement.....		
" 28	9.30 p.m.	Still.....	45 and 47 Bowery.....	1								3	Brick.....	100 x 100	John A. Stevens.....	Theatre.....	Stage.....		
" 28	9.00 p.m.	283 and 2d alarm.	113 and 115 Bank street.....	1								3	Brick.....	46 x 100	A. H. Bogart & Bros.	Builders, etc.....	2d floor.....	3d floor.....	
" 29	1.45 a.m.	Still.....	24 East 20th street.....	1								4	Brick.....	25 x 60	N. Jarvis.....	Dwelling.....	Basement.....		
" 29	10.40 p.m.	Still.....	39 Barrow street.....	1								3	Brick.....	25 x 30	Peter Heitman.....	Dwelling.....	1st floor.....		
" 29	6.15 p.m.	Still.....	329 West 26th street.....	1								4	Brick.....	20 x 50	Michael Kane.....	Dwelling.....	1st floor.....		
" 29	8.23 p.m.	67.....	16 and 18 Jacob street.....	1								5	Brick.....	50 x 100	S. W. Green.....	Printing establishment ...	2d floor.....		
" 29	10.21 p.m.	274.....																	
" 30	3.23 a.m.	168.....	229 Grand street.....	1								3	Brick.....	25 x 50	Brinkerhoff & Co....	Cracker bakery.....	1st floor.....		
" 30	9.25 p.m.	Still.....	77 East Broadway.....	1								4	Brick.....	50 x 25	Charles Weeks.....	Tailor shop.....	1st floor.....		
" 30	11.50 p.m.	Still.....	300 East 2d Street.....	1								3	Brick.....	25 x 60	Samuel Rothmuller ..	Bakery, etc.....	3d floor.....		
" 31	2.18 a.m.	288.....	1 McDougal street.....	1								2	Brick.....	15 x 15	James Miner.....	Stable.....	Cellar.....		
" 31	4.23 a.m.	332.....	78 Little 12th street.....	1								1	Frame.....	50 x 100	Brown & Co.....	Stone Cutters.....	Roof.....		
" 31	10.10 a.m.	Still.....	512 West 38th street.....	1								4	Brick.....	25 x 50	Mrs. Hart.....	Dwelling.....	4th floor.....		
" 31	2.34 p.m.	758.....	2434 First avenue.....	1								4	Brick, br. stone ft.	25 x 60	Henry Meyers.....	Dwelling.....	3d floor.....		
Nov. 1	12.04 a.m.	134.....	22 Catharine street.....	1								5	Brick.....	25 x 75	E. D. Shaw.....	Hardware store.....	Cellar.....		
" 1	5.51 p.m.	627.....	70th street and Second avenue..	1								1	Frame.....	25 x 40	Unoccupied.....		1st floor.....		
" 1	6.19 p.m.	263 and 2d alarm.	199 Wooster street.....	1								5	Brick.....	25 x 60	Boyd & Co.....	Box manufactory.....	4th floor.....	5th floor.....	
" 2	5.30 a.m.	Still.....																	
" 2	10.35 a.m.	Still.....	137 East 16th street.....	1								5	Brick.....	25 x 50	M. Kerrel.....	Dwelling.....	1st floor.....		
" 2	5.25 p.m.	Still.....	208 Broome street.....	1									Brick.....	25 x 35	Margaret Titlebaum..	Fancy-goods store.....	1st floor.....		
" 2	9.40 p.m.	Still.....	200 Broome street.....	1								5	Brick.....	25 x 50	Lewis Silverman.....	Dwelling.....	3d floor.....		
" 3	4.50 a.m.	Still.....																	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$20	\$25	\$45	Engine 18	Engine 18	Bates, Gicquel.....	18.....	5.....	20	I			Heat from stove igniting floor.....		
					Wilhelm.....		13.....	20	I			Defective flue.....		
					Campbell, Fisher.....			02	I			Foul chimney.....		
					Bates, Miller, Bresnan.....		11.....	03	I			Spontaneous combustion.....		
20		20	Engine 4	Engine 4	Bates, Bonner, Rowe.....	4.....	1, 10.....	20	I			Spontaneous combustion.....		
								05	I			Not ascertained.....		
								10	I			Carelessness.....		
20	200	220	Engine 9	Engine 9				20	I			Kerosene lamp upsetting.....		
25		25	Engine 32	Engine 32		32.....		30	I			Kerosene lamp explosion.....		
20	50	70			Bates, Gicquel, Fisher.....		5.....	20	I			{ Vapor from gasoline } { lamp taking fire..... }		
						46.....		05	I			Carelessness.....		
								2 15	I			{ Electric light sparks from } { wires..... }		
	50	50			Campbell, Fisher.....		12.....	10	I			Boys building bonfire.....		
					Campbell, Fisher.....			03	I			Carelessness.....		Caused by Foreman Hen-
								20	I			{ Heat from stove setting } { fire to clothing..... }		derson, Engine Co. No.
75	100	175			Bates, Gicquel, Campbell.....		12.....	1 00	I			Kerosene lamp upsetting.....		19, endeavoring to adjust
150	1805	1,955	H. & L. 8	Engine 31	Bates, Bonner.....	13, 31.....	1, 8.....	45	I			Carelessness.....		box.
			Engine 46	Engine 46		46.....		2 40	I			Not ascertained.....		{ Foreman Thomas J. VanHorn, } { H. & L. Co. No. 1, hand } { severely cut with glass.... }
25	50	75						05	I			Boys building bonfire.....		
300	375	675	Engine 3	Engine 3	Bates, Gicquel, Campbell.....	3, 18, 19.....	5, 12.....	2 00	I			Upsetting of oil lamp.....		
					{ Bates, Foreman Spence, } { Gicquel..... }			10	I			Not ascertained.....		{ Mr. and Mrs. Mary Parker } { and two children severely } { injured by jumping from 3d } { story of building..... }
					Campbell, Fisher.....			15	I			{ Chlorate of potash ignit- } { ing from friction..... }		
								03	I			Meat in oven taking fire.....		
20	5	25			Bates, Gicquel, Foreman Spence	3.....	5.....	20	I			{ Overheated stove pipe } { setting fire to fireboard } { Sparks from locomotive } { igniting flooring..... }		
10		10	Engine 41	Engine 41	Wilhelm.....	41.....	17, 18.....	15	I			Foul chimney.....		
						44.....		10	I			Foul chimney.....		
								12	I			Boys building bonfire.....		
					Bates, Bonner, Miller.....		6.....	20	I			Sparks from Elevated R.R.....		
20		20						6.....	25	I		Carelessness.....		Smoke issuing from
					Campbell, Fisher.....									premises No. 60 West
5		5	Engine 3	Engine 3	Bates, Gicquel, Foreman Spence	3.....	5.....	05	I			Carelessness.....		49th street.
					Fisher, Campbell.....			15	I			Foul Chimney.....		
50	500	550	Engine 17	Engine 17	Bates, Miller, Bresnan.....	17.....	6, 9.....	30	I			{ Glue pot taking fire from } { lamp..... }		
150	644	794	Engine 29	Engine 29	Bates, Rowe, Foreman Spence	29.....	1, 10.....	25	I			Not ascertained.....		
150	200	350	Engine 17	Engine 17	Bates, Miller, Bresnan.....	17.....	6, 9.....	30	I			Carelessness.....		{ Margaret Greenwald over- } { come by smoke..... }
								05	I			Gaslight igniting scenery.....		
100	150	250	Engine 44	Engine 44	Foreman Landers.....	44.....	13.....	15	I			Not ascertained.....		
	40	40						18.....	10	I		{ Sparks from stove ignit- } { ing lounge..... }		
					Bates, Miller, Bresnan.....	11.....		05	I			Foul chimney.....		
								03	I			Child playing with matches.		
	100	100	Engine 10	Engine 10	Bates, Rowe.....	10.....	10.....	05	I			Carelessness.....		
					Bates, Rowe, Bonner.....			05	I			Child playing with fire.....		
	15	15						4.....	08	I		Careless ness.....		
								1/2	I			Gas-light igniting scenery ..		
3,500	4,000	7,500	H. & L. 5	Engine 24	{ Bates, Shay, Foreman } { Spence, Bresnan, Camp- } { bell, Miller, Bonner..... }	{ 1, 3, 13, 14, 18, 19, } { 20, 24, 27, 30, 33 }	3, 5, 8, 12	2 40	I			Not ascertained.....		
75		75				14.....		1 00	I			Not ascertained.....		
						24.....		05	I			Overheated stove.....		
								05	I			Foul chimney.....		
					Bates, Bonner, Rowe.....			05	I			Carelessness.....		Smoke issuing from prem-
					Bates, Bresnan, Miller.....									ises 644 East 6th street.
25		25			Bates, Shay, Bonner, Miller ..		9.....	25	I			{ Heat from range in ad- } { joining building..... }		
								03	I			Carelessness.....		
5	25	30					11.....	05	I			Kerosene lamp explosion.....		
20	500	520	Engine 18	Engine 18	{ Bates, Gicquel, Foreman } { Spence..... }	18.....	5.....	30	I			Carelessness.....		{ Engineer of Steamer James } { Rogers, Engine Co. No. 33, } { back severely injured, thrown } { from engine..... }
10		10	Engine 3	Engine 3	{ Bates, Gicquel, Foreman } { Spence..... }	3.....	5.....	30	I			Heat from furnace pipe.....		
	15	15			Wilhelm, Reilly.....			05	I			Children playing with fire.....		
								05	I			Foul chimney.....		
	25	25	Engine 9	Engine 9	Bates, Bonner, Miller.....	9.....	6.....	20	I			Carelessness.....		
					Bonner, Fisher.....			13.....	10	I		{ Sparks from chimney igni- } { ting roof..... }		
300	1,070	1,370	Engine 33	Engine 33	Bates, Shay, Gicquel, Miller ..	20, 30, 33.....	5, 8, 9 ..	1 30	I			Not ascertained.....		Smoke issuing from gar-
														bage not at Nos. 98 to
														102 Mangin street.
	150	150						10	I			Foul Chimney.....		
								05	I			{ Child playing with match- } { es..... }		
								05	I			Carelessness.....		Smoke issuing from prem-
														ises No. 11 South street.

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.			Material Built of.	Area.					
					Fire.	Indication of Fire.	Unnecessary.	Verbal.	Box Signals.	Special Signals.			Automatic Signals.				
1881.																	
Nov. 3	3.10 p.m.	Still.....	743 Third avenue.....	1							5	Brick.....	25 x 60	Various families.....	Dwelling.....	2d floor.....	
" 4	5.06 p.m.	Still.....	245 West 32d street.....	1							3	Brick.....	25 x 40	Mr. Wernich.....	Lager-beer saloon.....	1st floor.....	
" 4	9.30 p.m.	Still.....	214 West 48th street.....	1							4	Brick, br. stone ft.	12 x 45	Thos. McGann.....	Dwelling.....	4th floor.....	
" 5	1.15 p.m.	576.....		1													
" 5	2.05 p.m.	Still.....		1													
" 5	3.05 p.m.	225.....	105 Norfolk street (rear).....	1							3	Brick.....	25 x 40	C. Witlich.....	Manufacturer of desks....	Cellar.....	
" 5	5.35½ p.m.	523.....	503 Fifth avenue.....	1							5½	Brick, br. stone ft.	27 x 130	Unoccupied.....		Roof.....	
" 5	7.07 p.m.	Still.....	343 5th street.....	1							6	Brick.....	25 x 40	Henry Kessler.....	Confectionery.....	1st floor.....	
" 5	6.21 p.m.	23.....	68 Broadway.....	1							4	Brick.....	25 x 150	R. F. Scully.....	Dwelling.....	4th floor.....	
" 5	7.07½ p.m.	221.....	22 Rivington street.....	1							4	Brick.....	25 x 60	J. Friends.....	Printing establishment...	3d floor.....	
" 5	9.08½ p.m.	532.....		1													
" 5	10.48 p.m.	565.....	922 3d avenue.....	1							5½	Brick.....	25 x 50	Michael Tremberger.....	Grocery store.....	Basement.....	
" 5	10.57¾ p.m.	262.....	233 Thompson street.....	1							1	Frame.....	10 x 20	Edward Brown.....	Dealer in coal.....	1st floor.....	
" 6	12.08 a.m.	Still.....	203 East 52d street.....	1							5	Brick.....	35 x 25	John A. Kelly.....	Harness-maker.....	1st floor.....	
" 6	9.54 p.m.	Still.....	25 Greenwich avenue.....	1							3	Brick.....	25 x 50	Mrs. Keneshaw.....	Dwelling.....	1st floor.....	
" 7	12.34 a.m.	264.....	19 West 3d street.....	1							4	Brick.....	16 x 50	M. Ardizone.....	Grocery store.....	1st floor.....	
" 7	10.00 a.m.	Still.....	42 Whitehall street.....	1							4	Brick.....	25 x 75	Edward Housaman.....	Restaurant.....	1st floor.....	
" 7	10.50 a.m.	Still.....	83 Third street.....	1							5	Brick.....	25 x 56	Henry Schmidt.....	Dwelling.....	Cellar.....	
" 7	1.46 p.m.	336.....	21 Jane street.....	1							4	Brick.....	25 x 50	Crawford & Co.....	Mfctrs. frames.....	4th floor.....	
" 7	2.57 p.m.	Still.....	331 East 18th street.....	1							3½	Brick.....	25 x 50	Paul Loeser.....	Dwelling.....	1st floor.....	
" 7	4.27½ p.m.	{ 339 and 2d and 3d alarms... }	1 West 14th street.....	1							4	Brick.....	50 x 80	Dieutsch & Co.....	{ Mfctrs. ladies' under- wear..... }	3d floor.....	
" 7	6.14½ p.m.	463.....	41 Park avenue.....	1							4½	Brick, br. stone ft.	25 x 60	Charles Genidet.....	Dwelling.....	3d floor.....	
" 7	9.31 p.m.	9.....	29 South street.....	1							5	Brick.....	20 x 70	Banker, Crowe & Co.	Ship chandlers.....	4th floor.....	5th floor.....
" 7	9.41 p.m.	Still.....	85 Christopher street.....	1							6	Brick.....	25 x 60	Mrs. Morrisey.....	Dwelling.....	Cellar.....	
" 7	11.43 p.m.	143 and 2d alarm.	7 Laight street.....	1							5	Brick.....	25 x 100	Peter Kelly.....	Dealer in carpets.....	Cellar.....	5th floor.....
" 7	11.54 p.m.	{ 8 and 2d and 3d alarms... }	53 Stone street.....	1							5	Brick.....	25 x 125	T. Rose & Co.....	Storage for old paper.....	Cellar.....	1st floor.....
" 7	9.41 p.m.	Still.....	344 West 49th street.....	1							1	Frame.....	20 x 15	Jones & Roberts.....	Paint store.....	1st floor.....	
" 8	5.56 a.m.	165.....	17 Laight street.....	1							5	Brick.....	25 x 100	Peter Kelly.....	Dealer in carpets.....	Cellar.....	
" 8	7.01 a.m.	231.....	87 Clarkson street.....	1							3	Frame, iron ft....	25 x 80	McArthur & Co.....	Dealers in rags, etc.....	1st floor.....	
" 8	3.56 a.m.	Still.....		1													
" 8	7.23½ a.m.	35.....	182 Broadway.....	1							5	Brick.....	35 x 80	A. Demarest, Jr.....	Designer and engraver...	1st floor.....	
" 9	7.11 a.m.	166.....	53 and 55 Grand street.....														
" 9	9.15 a.m.	528.....	401 East Forty-seventh street....	1							5	Brick.....	25 x 60	John Tierney.....	Dwelling.....	2d floor.....	
" 9	10.30 a.m.	Still.....		1													
" 9	2.00 p.m.	Still.....	521 West 43d street.....	1							5½	Brick.....	25 x 60	Duncan Kelly.....	Dwelling.....	1st floor.....	
" 9	3.20 p.m.	Still.....	10 Essex street.....	1							3	Brick.....	25 x 25	Lewis Bros.....	Dwelling.....	3d floor.....	
" 9	6.30 p.m.	Still.....	2247 Third avenue.....	1							3	Brick.....	20 x 60	Mine Kahn.....	Millinery store.....	1st floor.....	
" 10	2.30 a.m.	Still.....	521 West 43d street.....	1							5	Brick.....	25 x 75	Catharine Farrell.....	Dwelling.....	1st floor.....	
" 10	7.15 a.m.	Still.....	136 Varick street.....	1							3½	Frame.....	25 x 50	Daniel Chadwick.....	Dwelling.....	2d floor.....	
" 10	10.45 a.m.	Still.....	44 West 14th street.....	1							4	Brick.....	25 x 70	Wm. Taylor.....	Clothier.....	2d floor.....	
" 10	9.31 p.m.	158.....	Pier 52 East River.....	1								Frame.....		Wm. Sands.....	Canal boat.....	Cabin.....	
" 10	11.30 p.m.	295.....		1													
" 11	3.00 a.m.	168.....	206 Grand street.....	1							2½	Brick.....	25 x 75	E. McEllory.....	Storage for liquors.....	Cellar.....	
" 11	4.07 a.m.	4.....	128 Broad street.....	1							3	Brick.....	25 x 40	Ahearn & Vemty.....	Cooperage.....	1st floor.....	
" 11	11.54 a.m.	532.....	667 Eleventh avenue.....	1							4	Brick.....	25 x 60	Wm. Kelly.....	Dwelling.....	3d floor.....	
" 11	6.30 p.m.	Still.....	1 Monroe street.....	1							3	Brick.....	25 x 25	Mrs. Lynch.....	Dwelling.....	3d floor.....	
" 11	8.25 p.m.	389.....		1													
" 11	10.40 p.m.	771.....	{ Third avenue and Southern Boulevard... }	1							5	Brick.....	50 x 100	J. L. Mott.....	Iron works.....	1st floor.....	
" 12	1.09 a.m.	Still.....	125 West street.....	1							3	Brick.....	25 x 65	John Casleet.....	Restaurant.....	1st floor.....	
" 12	10.51 a.m.	688.....	1830 Second avenue.....	1							1	Frame.....	20 x 30	S. Jones.....	Dwelling, etc.....	Cellar.....	
" 12	9.10 a.m.	Still.....	194½ Franklin street.....	1							5	Brick.....	20 x 30	Various families.....	Dwelling, etc.....	4th floor.....	
" 12	8.53 p.m.	529.....	407 East 44th street.....	1							1	Frame, brick ft....	15 x 84	Looman Frank.....	Slaughter house, etc.....	1st floor.....	
" 12	11.44 p.m.	28.....	49 South street.....	1							5	Brick.....	25 x 70	M. Farrell.....	Restaurant.....	1st floor.....	
" 13	6.52 a.m.	{ 63 and 2d and 3d alarms... }	56 and 58 Murray street.....	1							5	Brick.....	50 x 90	Harris & Co.....	Show cards.....	3d floor.....	All floors.....
" 13	8.42 p.m.	Still.....	556 West 43d street.....	1							5	Brick.....	25 x 60	Jno. Wade.....	Dwelling.....	1st floor.....	
" 13	9.16 p.m.	{ Sp. call H. & L. 14 to St. 785. }		1													
" 14	9.41 a.m.	Still.....		1													
" 14	11.18 a.m.	553.....	438 West 53d street.....	1							5	Brick.....	25 x 60	Jno. Carney.....	Dwelling.....	2d floor.....	
" 14	2.49 p.m.	169.....	86 Christopher street.....	1							6	Brick.....	25 x 60	Owen McPharlan.....	Dwelling.....	3d floor.....	
" 14	3.58 p.m.	Still.....	479 Tenth avenue.....	1							6	Brick.....	25 x 100	C. F. Dilman.....	Piano manufacturer.....	1st floor.....	
" 14	5.45 p.m.	522.....	739 Sixth avenue.....	1							4	Brick.....	18 x 40	Miss Murray.....	Dwelling.....	1st floor.....	
" 14	5.49 p.m.	158.....	401 to 405 Cherry street.....	1							4	Brick.....	60 x 25	Gregory & Jones.....	Drug mills.....	4th floor.....	
" 14	6.55 p.m.	Still.....	200 Avenue B.....	1							4	Brick.....	25 x 50	Wilhelm Klingler.....	Dealer in provisions.....	Basement.....	
" 14	9.20 a.m.	Still.....	339 East 122d street.....	1							4	Brick.....	25 x 60	Patrick Glynn.....	Dwelling.....	3d floor.....	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	How EXTIN- GUISHED.	CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.					
								H. M.				
										Foul chimney.....		
										Kerosene lamp falling.....		
	\$15	\$15			Fisher, Campbell.....					{ Window curtains igniting from gas-light..... }		{ Back draught chimney, No. 741 Lexington ave- nue. Smoke issuing from prem- ises No. 59 Sullivan street.
\$50	200	250	Engine 17	Engine 17	Bates, Miller, Bresnan.....	17.....	6.....	30	1	Spontaneous combustion.....		
					Fisher, Campbell.....		2, 4.....	10	1	{ Sparks from chimney ig- niting roof..... }		
										Carelessness.....		
500	200	700	Engine 6	Engine 6	Bates, Rowe, Mahedy.....	4, 6, 10.....	1, 10.....	45	1	Child playing with matches.		
150	2,939	3,089	H. & L. 9.	Engine 20	Bates, Bresnan, Miller.....	20.....	6, 9.....	30	1	Spontaneous combustion.....		{ Cry of fire during street fight at No. 548 W. 48th street.
					Campbell, Fisher.....							
10	20	30			Fisher, Campbell.....					{ Kerosene lamp igniting ceiling..... }		
					Bates, Gicquel.....	33.....		05	1	Kerosene lamp upsetting.....	Edward Brown severely burned.	
100	500	600	Engine 18	Engine 18		18.....		30	1	Carelessness.....		
	10	10				18.....		10	1	{ Window curtain igniting from gas..... }		
100	675	775	Engine 33	Engine 33	Shay, Bresnan.....	33.....	9.....	15	1	Carelessness.....		
						10.....		02	1	Defective flue.....		
						25.....		10	1	Escaped gas igniting.....		
					Bates, Gicquel, Reeves.....		5.....	10	1	Overheated journal.....		
20	25	45						10	1	Foul chimney.....		
2,500	10,105	12,605	Engine 14	Engine 14	{ Bates, Shay, Gicquel, Ma- hedy, Reeves, Campbell, Miller..... }	1, 3, 5, 14, 16, 18, 33..	3, 5, 7, 9.	1.30	1	Defective flue.....	{ Asst. Eng'r of steamer Robert Brewer, Engine Co. No. 18, back slightly injured..... }	
70	25	95			Fisher, Campbell.....		7.....	08	1	{ Window curtain taking fire from gas-light..... }		
20	775	795	Engine 10	Engine 10	Bates, Mahedy, Miller.....	4, 10.....	1, 10.....	15	1	Carelessness.....	{ Private Henry Wolfer, H. & L. Co. No. 1, knee injured..... }	
	20	20	H. & L. 5.	Engine 18	Bates, Gicquel, Reeves.....	18.....	5, 12.....	30	1	Child playing with matches.	{ Fireman Andrew Gaffney, H. & L. Co. No. 1, rescued child from building..... }	
1,000	1,098	2,098	H. & L. 8.	Engine 30	{ Bates, Shay, Reeves, Ma- hedy, Gicquel..... }	7, 12, 13, 27, 29, 30, 31.	1, 8, 9.....	3.50	1	Not ascertained.....	{ Fireman Joseph Smullen, En- gine Co. No. 30, hand cut with glass..... }	
500	250	750	Engine 10	Engine 10	Miller, Bresnan, Gicquel.....	4, 6, 10, 32.....	6, 10.....	1.00	1	Not ascertained.....		
										Spontaneous combustion.....		
			H & L 8	Engine 13	Bates, Reeves, Mahedy.....	13, 30.....	1, 8.....	20	1	Rekindling of previous fire.		
			Engine 24	Engine 24	Bates, Reeves, Gicquel.....	24.....		20	1	Spontaneous combustion.....		
					Bates, Rowe, Mahedy.....			05	1	Carelessness.....		{ Back draught chimney No. 137 New Bowery.
75		75			{ Bates Shay, Reeves, Ma- hedy, Gicquel..... }	13, 20, 30.....	{ 5, 8, 9, 10, 11. }				{ Nine occupants killed, five se- verely injured. Fireman John Gillespie, Engine Co. No. 11, ankle broken..... }	{ Alarm caused by falling of building Nos. 53 and 55 Grand street.
	25	25			Fisher, Campbell.....		2.....	08	1	Carelessness.....		{ Smoke issuing from premises No. 31 Cham- bers street.
										{ Defective construction building beams in chim- ney..... }		
10	5	15				2.....		03	1	Child playing with matches.		
	20	20						10	1	{ Goods in show window taking fire from gas... Soot in chimney taking fire and igniting woodwork. Soot in chimney taking fire and igniting fireboard... }		
	310	310								Defective flue.....		
20		20						03	1			
20		20						10	1	Kerosene lamp explosion...		
50	20	70	Engine 15	Engine 15	Bates, Miller, Bresnan.....	15.....		30	1			{ Reflection of fire in grate No. 200 East 10th street.
					Bates, Bresnan, Miller.....							
200	50	250	H. & L. 9	Engine 31	Bates, Shay, Miller, Rowe ..	17, 20, 31.....	8, 9.....	30	1	Carelessness.....		
500	800	1,300			Bates, Rowe, Miller.....	4, 10, 32.....	1, 10.....	1.30	1	Carelessness.....		
					Campbell.....		4.....	10	1	{ Overheated stovepipe ig- niting fireboard..... }		
								01	1	{ Heat from stovepipe ig- niting rags..... }		{ Smoke issuing from prem- ises No. 628 East 23d st.
					Bates, Bresnan.....							
					Reilly.....	17.....		03	1	Carelessness.....		
					Rowe.....	10.....		10	1	Foul Chimney.....		
					Wilhelm, Bonner.....	13.....		5 0	1	Careless-ness.....		
						27.....		10	1	Carelessness.....		
15		15	Engine 8.	Engine 8.	Fisher, Campbell.....	8.....		10	1	Gas-light igniting woodwork		
20		20	Engine 4.	Engine 4.	Bates, Rowe, Mahedy.....	4.....		05	1	Carelessness.....		
3,000	20,390	23,390	Engine 29	Engine 29	{ Bates, Rowe, Reeves, Ma- hedy, Bresnan, Miller... }	{ 4, 6, 7, 9, 10, 12, 13, 24, 27, 29, 30, 31, 32 }	1, 6, 8, 9, 10.	5.10	1	Kerosene lamp upsetting...	{ Private Jno. Duffy, Engine Co. No. 29, overcome with smoke; Private Jno. Burke, Engine Co. No. 27, and Private Rich- ard Condon, H. & L. Co. No. 6, hand cut; Fireman James Shute, H. & L. Co. No. 8, foot slightly injured..... }	
										Spontaneous combustion.....		
					Bonner.....					Malicious mischief.....		
	10	10			Fisher.....		4.....	08	1	Child playing with matches.	{ Mrs. Catharine Carney and child severely burned; died.. }	
	50	50			Bates, Miller, Mahedy.....		6.....	05	1	Not ascertained.....		
						34.....		05	1	Foul Chimney.....		
					Fisher.....			02	1	{ Window curtains igniting from gas..... }		
										Carelessness.....	{ Wm. Hines run over by tender; leg slightly injured..... }	
50		50			Bates, Miller, Mahedy, Bresnan		6.....	20	1			
						28.....		10	1	Foul chimney.....		
10		10						01	1	{ Children playing with matches..... }		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.										DESCRIPTION OF BUILDING.			OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.					BY WHOM COMMUNICATED.					MATERIAL BUILT OF.	AREA.				
					Fire.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.						
Nov. 14	11.13 p.m.	{Sp. call. H. and L. No. 7, and still.....}	333 East 24th street	1										4	Brick	25 x 25	Mrs. Schappe	Dwelling	1st floor	
" 15	5.58 a.m.	83	116 Reade street	1										5	Brick	50 x 150	{H. K. & F.B. Thur- bur & Co.	Wholesale grocers	Cellar	
" 15	10.53 a.m.	182	273 Hudson street	1										6	Brick	25 x 40	Joseph Farren	Dwelling	4th floor	
" 15	3.31 p.m.	536	231 West 50th street	1										2	Brick	20 x 50	Robert Dunn	Carpenter shop	2d floor	
" 15	6.45 p.m.	Still	519 Ninth avenue	1										3	Brick	25 x 45	Frederick Kutze	Dwelling	2d floor	
" 15	9.33 p.m.	237	105 Prince street	1										3 1/2	Brick	25 x 60	Levisin & Son	Dealers in furs	1st floor	
" 15	10.54 p.m.	163	499 Canal street	1										3 1/2	Brick	18 x 50	Mrs. Rosenberg	Dealer in hats	1st floor	Attic floor
" 16	1.15 a.m.	Still	5 Ludlow street	1										3	Frame	25 x 25	Patrick McNulty	Dwelling	2d floor	
" 16	10.21 a.m.	585		1																
" 16	11.13 a.m.	428		1																
" 16	4.07 1/2 p.m.	844	170th St. and Kingsbridge road	1															Leaves	
" 16	6.21 p.m.	81		1																
" 16	6.41 p.m.	319		1																
" 16	8.00 p.m.	Still	143 South Fifth avenue	1										2	Brick	18 x 20	James Ker	Oyster saloon	1st floor	
" 17	11.00 a.m.	Still	6 Morton street	1										3	Brick	16 x 30	George U. Sheffer	Restaurant	1st floor	
" 17	12.40 p.m.	Still	11th ave., bet. 31st and 32d sts.	1											{Freight Car, Harlem R. Co.}		Harlem R. R. Co.		In car	
" 17	2.54 p.m.	154	Front of 228 Clinton street	1											Truck load of hay				In hay	
" 17	3.35 p.m.	Still	32 Chambers street	1										4	Brick, br. stone ft.	50 x 100	{Tax Commission- ers, etc.}	Office and court room	2d floor	
" 17	4.15 p.m.	Still	150th street and Robinson ave.	1										1	Frame	18 x 16	James Reilly	Dwelling	1st floor	
" 17	6.04 p.m.	166	10 Wooster street	1										3	Brick	25 x 100	Edward A. Mallett	Paper box manufactory	2d floor	
" 17	7.14 p.m.	95	59 Jane street	1										2 1/2	Brick	25 x 40	G. Garhier	Confectionery, etc.	2d floor	
" 17	8.41 1/2 p.m.	231	590 Washington street	1										2	Frame	25 x 100	Charles Merchand	Manufacturing chemist	1st floor	
" 17	11.00 p.m.	Still	155 8th street	1										3	Brick	25 x 40	Joseph McDonald	Hat and cap manufactory	Cellar	
" 18	6.29 a.m.	357	230 West 16th street	1										4	Brick	25 x 30	Jane Ward	Dwelling	4th floor	
" 18	12.45 p.m.	Still	194 Broadway	1										5	Brick	25 x 150	{Holmes Burglar Telegraph Co.}	Offices	Roof	
" 18	2.34 p.m.	225	104 Suffolk street	1										2 1/2	Brick	25 x 30	W. F. Nash & others	Manufacturers of shoes	Attic	
" 18	2.55 p.m.	Still	51 Orchard street	1										5	Brick	25 x 60	Various families	Dwelling	Cellar	
" 18	9.08 1/2 p.m.	418	33 West 26th street	1										4	Brick, br. stone ft.	25 x 60	L. B. Bankner	Dwelling	4th floor	
" 18	11.03 p.m.	551		1																
" 19	10.40 a.m.	837	7th ave. bet. 147th and 148th sts.	1															In open lot	
" 19	12.50 p.m.	223	197 Forsyth street	1										5	Brick	25 x 40	Jacob G. Bahr	Manufacturer of demijohns	Basement	
" 19	4.39 p.m.	225		1																
" 19	5.33 p.m.	416	258 West 28th street	1										5	Brick	25 x 100	A. R. Walsh	Wood turning, etc.	1st floor	
" 19	8.12 p.m.	Still	834 Third avenue	1										4	Frame	25 x 40	Mrs. Overhause	Dwelling	2d floor	
" 19	8.12 1/2 p.m.	339	7 West 14th street	1										5	Brick	25 x 75	Edward Lawrence	School, etc.	3d floor	
" 19	9.00 p.m.	Still	84 East Broadway	1										3 1/2	Frame	25 x 40	John Gabzel	Painter	Basement	
" 19	10.06 1/2 p.m.	438 and 2d alarm	258 West 28th street	1										5	Brick	25 x 100	A. R. Walsh	Wood-turner, etc.	1st floor	{2d floor and 256 West 28th st.}
" 19			Extended to 256 West 28th street	1										5	Brick	25 x 100	Teepe & Ziegler	Mfctrs. wooden ware		
" 20	12.20 a.m.	736	2073 Third avenue	1										1	Frame	20 x 75	Mrs. Barita	Fancy goods store	1st floor	
" 20	1.22 p.m.	Still	129th st., bet. 10th and 11th aves.	1															In rubbish	
" 20	10.25 a.m.	Still	{150th street, between 10th and St. Nicholas avenues.....}	1										3	Frame	20 x 35	Henry Brown	Dwelling	2d floor	
" 20	5.00 p.m.	Still	142 East 16th street	1										5	Brick	22 x 50	Ellen Owens	Dwelling	5th floor	
" 20	5.25 p.m.	645	118 East 78th street	1										3	Brick, br. stone ft.	20 x 40	R. Ash	Dwelling	2d floor	
" 20	7.03 p.m.	436	445 Eighth avenue	1										3	Brick	25 x 75	David Garcewich	Dwelling	3d floor	
" 20	9.44 1/2 p.m.	2	5 Front street	1										5	Brick	25 x 80	P. H. Van Riper & Co.	Butter, cheese, etc.	Cellar	
" 21	2.45 p.m.	239	29 Bleecker street	1										3	Brick	20 x 50	G. P. Overn	Dwelling	1st floor	
" 21	3.59 p.m.	217	109 Wooster street	1										3 1/2	Brick	20 x 60	E. V. Blasino	Mfctr. of bronzes	1st floor	
" 21	5.30 p.m.	Still	254 and 256 Canal street	1										5	Brick, iron front.	50 x 75	Julius Duihelspiel & Co	Mfctrs. of buttons	5th floor	
" 21	7.18 p.m.	441	1239 Broadway	1										3	Brick	25 x 125	J. A. McCauley	Bijou Opera House	Stage	
" 21	7.44 p.m.	98	9 Monroe street	1										4	Frame	28 x 40	{Annie Cushman and others.....}	Dwelling	4th floor	
" 21	9.33 p.m.	213	519 Greenwich street	1										4	Brick	20 x 100	Burnap & Ely	Dry goods store	1st floor	
" 22	1.24 a.m.	332	530 and 532 West street	1										1	Brick	50 x 100	Billings & Co.	Mfctrs. horse shoes	Roof	
" 22	10.06 a.m.	462	389 5th avenue	1										4 1/2	Brick	30 x 75	P. Lorillard	Dwelling	1st floor	
" 22	1.58 p.m.	172	52 Ludlow street	1										4	Brick	25 x 60	B. Rosenthal	Russian Baths	Cellar	
" 22	2.04 1/2 p.m.	134	38 East Broadway	1										2 1/2	Brick	25 x 75	R. Rothelsein	Gents' furnishing goods	1st floor	
" 22	5.50 p.m.	Still	162 Spring street	1										4	Brick	20 x 40	George Liginger	Smoke house, etc.	1st floor	
" 22	8.02 p.m.	Still	22 Allen street	1										3	Brick	20 x 25	David Minski	Dwelling	2d floor	
" 22	10.23 p.m.	679	Foot 93d street, East river	1										3	Frame	50 x 40	Knickerbocker Ice Co	Stables, etc.	1st floor	
" 23	7.10 a.m.	93	45 New Bowery (rear)	1										1	Frame	10 x 25	Several parties	Wood-shed, etc.	Floor	
" 23	7.50 a.m.	129	69 Bayard street	1										4	Brick	25 x 50	Samuel Martecksky	Dwelling	1st floor	
" 23	8.27 a.m.	575	644 Madison avenue	1										4	Brick br. stone ft.	25 x 50	H. Bernheimer	Dwelling	Cellar	
" 23	10.43 a.m.	Still	1600 Third avenue	1										1	Frame	15 x 6	Several parties	Wood-shed, etc.	1st floor	
" 23	4.19 p.m.	149		1																
" 23	5.15 p.m.	Still	217 East 29th street	1										6	Brick	25 x 75	Henry Eley	Dwelling	2d floor	
" 23	6.25 p.m.	144	9 Walker street	1										2 1/2	Brick	20 x 50	L. Spurling	Dealer in sponges	1st floor	
" 23	6.42 p.m.	526	155 and 157 East 44th street	1										4	Brick	50 x 90	John Murphy	Carpenter's shop	Basement	
" 23	9.14 p.m.	627	184 East 70th street	1										4	Brick	25 x 25	Whalen & Hartnell	Tailor shop	1st floor	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.				CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.	Exceeding Three Engine Streams.			
\$50	\$275	\$325	Engine 16	Engine 16	Fisher.....	16.....	7.....	10	I	I	I	I	Kerosene lamp explosion.		
			Engine 27	Engine 27	Bates, Mahedy, Reeves .....	27.....	1, 8.....	35	I	I	I	I	Not ascertained.....		
					Bates, Reeves, Gicquel.....	30.....		05	I	I	I	I	Foul chimney.....		
20	200	220			Campbell, Fisher .....		4.....	20	I	I	I	I	{ Sparks from stove ignit- ing shavings..... }		
						34.....		10	I	I	I	I	Foul chimney.....		
200	4,019	4,219	Engine 20	Engine 20	Bates, Reeves, Gicquel .....	13, 20, 33.....	8, 9.....	20	I	I	I	I	Not ascertained.....		
500	500	1,000	Engine 30	Engine 30	Bates, Reeves, Gicquel.....	13, 27, 30.....	5, 8.....	45	I	I	I	I	Not ascertained.....	Lizzie and Hannah Phiffer and Harriet Brown severely burned.....	
20	10	30			Wilhelm, Fisher.....			10	I	I	I	I	{ Clothing igniting from stove..... }		
					Bates, Shay, Gicquel, Bresnan.....										{ Back draught chimney, No. 227 E. 60th street. Alarm sent out to show efficiency of depart- ment to visitors.
					Bonner.....	38.....		20	I	I	I	I	Boys building bonfire.....		
					Bates, Rowe, Mahedy, Reeves .....										{ Reflection of furnace No. 214 West street Smoke issuing from prem- ises No. 5 East 12th street.
					Bates, Gicquel, Reeves.....										
								05	I	I	I	I	Foul chimney.....		
								05	I	I	I	I	Overheated stove-pipe.....		
125	400	525	Engine 34	Engine 34	Assistant Foreman Cosgrove..	34.....	12.....	05	I	I	I	I	Spontaneous combustion....		
	25	25	Engine 15	Engine 15	Bates, Miller .....	15.....	6.....	10	I	I	I	I	Not ascertained .....		
50		50						05	I	I	I	I	{ Heat from furnace ignit- ing floor-beams..... }		
									I	I	I	I	Carelessness.....	James Reilly severely burned...	
100	675	775	H. & L. 8	Engine 13	Bates, Reeves, Rowe .....	13.....	8, 9.....	30	I	I	I	I	Not ascertained.....		
250	550	800	Engine 12	Engine 12	Bates, Miller, Rowe.....	7, 12.....	1, 6.....	25	I	I	I	I	Carelessness.....		
25		25	Engine 24	Engine 24	Bates, Reeves .....	24.....	5, 8.....	15	I	I	I	I	{ Heat from furnace ignit- ing fireboard..... }		
						3.....		02	I	I	I	I	Carelessness.....		
25	15	40			Bates, Gicquel, Campbell.....		12.....	20	I	I	I	I	Not ascertained.....		
25		25					10.....	10	I	I	I	I	Carelessness.....		
					Bates, Miller, Bresnan .....			03	I	I	I	I	Carelessness.....		
							6.....	05	I	I	I	I	Carelessness.....		
	10	10			Campbell.....								{ Window curtain igniting from gas..... }		
					Campbell.....								Malicious mischief.....		
	30	30			Wilhelm .....	38.....		25	I	I	I	I	{ Supposed from tramps smoking..... }		
	10	10			Bates, Miller, Bresnan .....		9.....	05	I	I	I	I	Carelessness.....		{ Smoke issuing from tin- smith's furnace on roo- of house No. 90 Norfolk street.
					Bates, Miller, Bresnan .....								{ Sparks from furnace ig- niting rubbish..... }		
					Campbell, Fisher .....		12.....	15	I	I	I	I	{ Clothing taking fire from stove..... }		
486	631	1,117	Engine 14	Engine 14	Bates, Bresnan, Gicquel.....	14.....	3, 12.....	30	I	I	I	I	Kerosene lamp exploding..		
								02	I	I	I	I	Kerosene stove taking fire..		
1,000	6,425	7,425	Engine 19	Engine 19	{ Bates, Campbell, Fisher, Gicquel, Bresnan, Wil- helm..... }	1, 3, 14, 18, 19, 26, 34.	4, 5, 7, 12	2, 30	I	I	I	I	Not ascertained.....		
125	1,936	2,061	Engine 35	Engine 35	Bonner, Wilhelm .....	35.....	14.....	45	I	I	I	I	Carelessness.....		
						37.....		10	I	I	I	I	Foul chimney.....		
						38.....		40	I	I	I	I	Foul chimney.....		
	10	10						05	I	I	I	I	{ Window curtain igniting from gas..... }	Assistant Foreman Stephen Cartwright, Engine Co. No. 44, head cut—struck with iron pulley.....	
15	75	90			Wilhelm, Bonner .....	44.....	13.....	05	I	I	I	I	{ Window curtain igniting from gas..... }		
200	750	950	Engine 34	Engine 34	Campbell, Fisher .....	1, 34.....	4, 12.....	03	I	I	I	I	Kerosene lamp exploding..		
100	150	250	Engine 10	Engine 10	Bates, Rowe, Mahedy.....	4, 10.....	1, 10.....	35	I	I	I	I	Spontaneous combustion...		
	25	25			Shay, Bresnan, Miller.....		9.....	05	I	I	I	I	Child playing with matches.		
100	500	600	Engine 13	Engine 13	Bates, Reeves, Gicquel.....	13.....	8.....	20	I	I	I	I	{ Vapor from benzine ig- niting from gas-light.... }		
	500	500						01	I	I	I	I	Bursting of carboy of vitriol		
100	400	500			Fisher .....		7, 12.....	20	I	I	I	I	{ Drop curtain igniting from gas torch..... }		
					Bates, Miller, Mahedy .....				I	I	I	I	Not ascertained.....		
					Bates, Reeves, Gicquel.....		8.....	15	I	I	I	I	{ Heat from furnace ignit- ing floor-beams..... }		
50		50			Bates, Gicquel, Reeves.....		5.....	1,00	I	I	I	I	{ Heat from furnace ignit- ing roof..... }		
					Fisher, Campbell.....		7.....	20	I	I	I	I	{ Soot in chimney taking fire and igniting woodwork }		
50		50	Engine 17	Engine 17	Bates, Miller.....	17.....	6, 9.....	25	I	I	I	I	Carelessness.....		
150		150	Engine 12	Engine 12	Bates, Mahedy, Miller.....	7, 12.....	1.....	15	I	I	I	I	Carelessness.....		
						13.....		10	I	I	I	I	Foul Chimney.....		
10	150	160					6.....	10	I	I	I	I	Child playing with matches.		
75	75	150	Engine 22	Engine 22	Wilhelm, Bonner.....	22, 44.....	13.....	1, 30	I	I	I	I	{ Overheated stove igniting woodwork..... }	Assistant Foreman Stephen Cartwright, Engine Co. No. 44, severely injured.....	
5	10	15	Engine 9	Engine 9	Bates, Mahedy, Miller.....	9, 12.....	1, 6.....	15	I	I	I	I	Spontaneous combustion...		
					Bates, Mahedy, Miller.....	31.....		10	I	I	I	I	Foul chimney.....		
					Fisher, Campbell, Wilhelm...		2.....	02	I	I	I	I	{ Heat from furnace ignit- ing woodwork..... }		
							13.....	05	I	I	I	I	Carelessness.....		
					Bates, Mahedy.....										{ Smoke issuing from prem- ises No. 576 Water street..... }
	10	10					7.....	05	I	I	I	I	Kerosene lamp explosion...		
300	500	800	H. & L. 8	Engine 31	Bates, Reeves, Mahedy, Rowe	13, 27, 31.....	1, 8.....	50	I	I	I	I	Not ascertained.....		
					Fisher, Campbell.....		2.....	10	I	I	I	I	Foul chimney.....		
450	650	1,100	Engine 39	Engine 39	Fisher.....	39, 44.....	13.....	15	I	I	I	I	Not ascertained.....		

FIRST NOTICE OF FIRE OR ALARM.			LOCATION.	ALARMS.								DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.
DATE.	HOUR.	SIGNAL.		CAUSE.	IN WHAT MANNER RECEIVED.			BY WHOM COMMUNICATED.		Number of Stories.	Material Built of.	Area.					
					Fire Indication of Fire. Unnecessary. Verbally.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.				Attaches of Police Department.	District Key Holders.			
1881.																	
Nov. 23	9.45½ p.m.	322	810 Broadway	I							5	Brick, marble ft.	25 x 100	Glockman & Lingg	Manufact'rs tassels, etc.	4th floor	
" 23	11.12 p.m.	171	22 Orchard street	I							5	Brick	25 x 50	{ Morris Bernstein } and others.	Dwelling, etc.	4th floor	
" 24	3.27 a.m.	191	165 Chrystie street	I							5	Brick	25 x 50	Various families	Dwelling	Cellar	
" 24	8.40 a.m.	736	2059 3d avenue	I							4	Brick	25 x 50	H. Horton	Dwelling	4th floor	
" 24	10.10 a.m.	Still	204 Avenue A	I							1 4	Brick	25 x 45	Christian Moritz	Dwelling	3d floor	
" 24	10.20 a.m.	Still	119 Varick street	I							4	Brick	25 x 50	Mrs. Campbell	Dwelling	1st floor	
" 24	1.20 p.m.	482	7 West 39th street	I							4	Brick br. stone ft.	20 x 40	H. P. Nichols	Dwelling	1st floor	
" 24	2.35 p.m.	Still	49 East 21st street	I							5	Brick	26 x 60	H. Godley	Dwelling	1st floor	
" 24	3.39 p.m.	532	672 11th avenue	I							4	Brick	25 x 60	Michael Cassidy	Fish and oyster dealer	1st floor	
" 24	6.39½ p.m.	382	106 East 23d street	I							5	Brick br. stone ft.	25 x 75	M. Saportas	Dwelling	Cellar	
" 24	7.39 p.m.	313		I													
" 24	8.21 p.m.	221		I													
" 25	9.48 a.m.	Still		I													
" 25	1.45 p.m.	188	274 Grand street	I							4	Brick	25 x 100	Bains & Co	Dealers in teas	Cellar	
" 25	3.23 p.m.	583	4 Gramercy place	I							1 4	Brick	25 x 70	James Harper	Dwelling	1st floor	
" 25	4.23½ p.m.	329		I													
" 25	5.30 p.m.	69	247 Front street	I							4	Brick	25 x 60	T. Girard	Dealer in liquors	3d floor	
" 25	7.10 p.m.	Still	41 Ann street	I							5	Brick	25 x 40	Frederick Hanfield	Dealer in liquors	1st floor	
" 25	8.05 p.m.	Still	298 Madison avenue	I							3	Brick br. stone ft.	25 x 50	William Thompson	Dwelling	Basement	
" 25	8.15 p.m.	Still	327 5th street	I							5	Brick	25 x 65	Valentine Market	Dwelling	2d floor	
" 26	1.49 a.m.	168	174 Mulberry street	I							3	Brick	25 x 25	Chung Lee	Laundry	1st floor	
" 26	6.13 a.m.	59 and 2d alarm	228 and 230 Front street	I							5	Brick	40 x 75	George F. Wilson	Cracker bakery	3d floor	
" 26	10.44 a.m.	195		I													
" 26	12.36 p.m.	64	39 Barclay street	I							6	Brick, iron front	50 x 150	S. S. & G. D. Fullman	Manufacturers toys	Sub-cellar	
" 26	6.08 p.m.	242	209 Allen street	I							3	Frame, brick front	20 x 30	William Bleiser	Rest. urant	Basement	
" 26	7.25 p.m.	292	724 Broadway	I							5	Brick, marble fnt.	25 x 75	Rosentbaum & Co.	Manufacturers tassels	5th floor	
" 27	2.09 p.m.	154	209 Henry street	I							5	Brick	25 x 40	Bernheime & Co.	Grocer	1st floor	
" 27	2.27 p.m.	234	218 West Houston street	I							4	Brick	25 x 60	J. B. Perkins	Carpenter shop	1st floor	
" 27	4.17 p.m.	237	159 Green street (rear)	I							4	Brick	25 x 20	John Giovanie	Dw lling	3d floor	
" 27	4.44½p.m.	44	21 Park Row	I							5	Brick, b. st. front	25 x 125	Gustave Baur	Dealer in liquors	Sub-cellar	
" 27	5.52½p.m.	891	{ 175th street and McComb's } { Dam road }	I													
" 27	6.00 p.m.	Still	27 Jay street	I							3	Brick	25 x 45	Goldberg & Co.	Dealers in wooden ware	Cellar	
" 27	6.37 p.m.	187	140 Bowery	I							2	Brick	25 x 50	John Callahan	Manufacturer of hats	1st floor	
" 27	9.21 p.m.	646	1444 Third avenue	I							4	Brick	25 x 40	H. Oe jen	Dwelling	4th floor	
" 28	6.15 a.m.	Still	407 Fifth street	I							5	Brick	25 x 40	Anthony Langrast	Dwelling	3d floor	
" 28	4.31 p.m.	844	{ 164th street, 10th and 11th } { avenues }	I							2	Frame	30 x 50	Deaf & Dumb Asylum	Hospital	Attic	
" 28	6.11 p.m.	42 and 2d alarm	31 Courtland street	I							5	Brick, b. st. front	25 x 100	G. R. Martin	{ Manufacturer musical } { instruments }	3d floor	5th floor
" 28	7.25 p.m.	438 and 2d alarm	327 Seventh avenue	I							3	Brick	25 x 100	S. F. Hewitt	Stables	1st floor	
" 28	11.16 p.m.	Still	54 Market street	I							3	Brick	25 x 50	James Hughes	Dwelling	2d floor	
" 29	9.25 a.m.	Still	206 West 26th street	I							4	Brick	25 x 50	Various families	Dwelling	4th floor	
" 29	7.26 p.m.	Still	60 Avenue D	I							3	Brick	25 x 50	Several families	Dwelling	3d floor	
" 29	8.00 p.m.	Still	157 to 161 West 29th street	I							7	Brick	75 x 75	A. G. Newman	Dealer in hardware	3d floor	
" 29	8.38 p.m.	236	101 West Houston street	I							5	Brick	25 x 75	Lewis Laporte	Dwelling	2d floor	
" 29	8.53 p.m.	54	111 Nassau street	I							4	Brick	35 x 70	B. Karfiol & Co.	Manfrs. of rubber stamps	3d floor	
" 29	9.45 p.m.	177	10 and 12 Columbia street (rear)	I							4	Brick	50 x 25	B. Engler	Tailor	3d floor	4th floor
" 30	9.56 p.m.	243	112 Stanton street	I							4	Brick	25 x 50	Joeger & Dieter	Blacksmiths	1st floor	
Dec. 1	12.17 a.m.	186	154 Grand street	I							2	Brick	25 x 75	John Thompson	Restaurant	Basement	
" 1	8.55 a.m.	Still	120 West 31st street	I							4	Brick	25 x 50	W. West	Dwelling	3d floor	
" 1	10.00 a.m.	Still	152 Avenue C	I							5	Brick	25 x 60	Various families	Dwelling	4th floor	
" 1	1.15 p.m.	466	661 First avenue	I							4	Brick	25 x 50	Jam's McQuade	Dwelling	3d floor	
" 1	5.55 p.m.	Still	425 East 14th street	I							5	Brick	25 x 60	Mrs. Moritz	Confectionery	1st floor	
" 1	6.15 p.m.	Still	103 Ludlow street	I							4	Brick	40 x 25	J. S. Bramberg	Dwelling	2d floor	
" 1	7.11 p.m.	462	384 Fifth avenue	I							4	Brick, br. stone ft.	25 x 60	James P. Karnachan	Dwelling	2d floor	
" 1	7.36 p.m.	675	12 East 92d street	I							1	Frame	20 x 20	M. Mahoney	Dwelling	Attic	14 East 92d street
" 1			Extended to 14 East 92d street								2	Frame	20 x 20	Henry Noel	Dwelling		
" 1	8.40 p.m.	Still	422 5th street	I							5	Brick	25 x 65	Michael Konig	Dwelling	3d floor	
" 1	8.27 p.m.	252	165 Christopher street	I							2	Brick	25 x 60	Bradford & McDonald	Wheelwright shop	1st floor	
" 1	9.27 p.m.	321	38 University place	I							4	Brick	25 x 60	Christian Winans	Dwelling	Basement	
" 2	9.51 a.m.	484		I													
" 2	2.29 p.m.	293	761 Broadway	I							4	Brick	25 x 100	F. Johnson	Dry goods, etc.	1st floor	
" 2	10.42 p.m.	226	69 Clinton street	I							5	Brick	25 x 50	Aaron Steer	Fancy goods	1st floor	
" 3	12.05 p.m.	5.3	451 West 52d street	I							5	Brick	25 x 60	John Hase	Dwelling	3d floor	
" 3	4.47 p.m.	789	2,360 Third avenue	I							4	Brick	25 x 75	J. Augeonie	Grocery store	Cellar	
" 3	9.16½p.m.	9	18 Coenties slip	I							5	Brick	30 x 30	Haviland & Pressey	Ship brokers, etc.	3d floor	

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTIN- GUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$800	\$6,285	\$7,085	H. & L. 3	Engine 33	Bates, Bresnan, Gicquel.....	14, 18, 33	3, 5.....	1.30	..	..	..	Spontaneous combustion....	Fireman Thomas Aiken, En- gine Co. 33, arm injured.....	
300	1,000	1,300	H. & L. 6	Engine 17	Bates, Miller, Mahedy.....	7, 17.....	6, 9.....	.25	..	..	..	Not ascertained.....	Fireman Lawrence Farley, En- gine Co. No. 20, rescued H. Kauffman from 3d floor of building; found in uncon- scious condition. H. & L. Co. No. 9 rescued two women and a boy from 2d floor of building.....	
150		150	Engine 17	Engine 17	Bates, Miller, Brennan.....	9, 17, 20.....	6, 9.....	.25	..	..	..	Carelessness.....		
	40	40			Wilhelm, Bonner.....			.10	I	..	..	Carelessness.....		
								.05	I	..	..	Foul chimney.....		
								.03	I	..	..	Foul chimney.....		
50	150	200			Campbell, Fisher.....	26.....		.03	I	..	..	Carelessness.....		
						14.....		.05	I	..	..	Defective heater pipes.....		
15		15			Campbell, Fisher.....	2.....	4.....	.10	I	..	..	Soot in chimney igniting fireboard.....		
50	40	90	Engine 16	Engine 16	Bates, Bresnan, Fisher.....	14, 16.....	3, 7.....	.20	..	..	..	Defective heater pipe.....		
					Bates, Gicquel, Reeves.....									Reflection of fire in stove at premises No. 10 Be- thune street. Steam issuing from prem- ises No. 235 and 237 Bowery. Steam issuing from prem- ises No. 18 East 54th street.
					Bates, Bresnan, Miller.....									
					Bates, Miller, Bresnan.....		6.....	.28	I	..	..	Refuse igniting from sparks in chimney.....		
					Bates, Bresnan.....			.02	I	..	..	Workmen burning oily rags in fireplace.....		
					Bates, Bresnan, Miller.....									
100	500	600	Engine 12	Engine 12	Bates, Mahedy, Rowe.....	7, 12.....	1, 10.....	.25	..	..	..	Heat from stove.....		
25		25			Mahedy.....	7.....		.35	I	..	..	Not ascertained.....		
						21.....		.05	I	..	..	Heat from furnace ignit- ing floor beams.....		
						25.....		.10	I	..	..	Overheated stove.....		
500	150	650			Bates, Shay, Mahedy, Miller.....	20, 31.....	8, 9.....	.15	..	..	..	Not ascertained.....	Firemen Lawrence P. Farley and Private Robert L. Kent, Engine Co. No. 20, rescued Joseph and Fulmor Manlor from second floor of building..	
3,000	4,888	7,888	Engine 32	Engine 32	{ Bates, Shay, Mahedy, Mil- ler, Rowe, Bresnan, Gic- quel, Reeves.....	{ 4, 6, 7, 9, 10, 12, 15, 27, 29, 31, 32.....	{ 1, 6, 8, 1 9, 10 }	4.35	..	..	..	Heat from oven.....		
					Bates, Miller, Bresnan.....									Smoke issuing from prem- ises, No. 88 Broome street
50		50	Engine 29	Engine 29	Bates, Mahedy, Rowe.....	29.....	10.....	.20	..	..	..	Heat from furnace ignit- ing goods.....		
20	20	40			Bates, Miller, Bresnan.....		9.....	.15	I	..	..	Carelessness.....		
500	900	1,400	Engine 33	Engine 33	Bates, Bresnan, Gicquel.....	33.....	3, 9.....	.45	..	..	..	Not ascertained.....		
	200	200	Engine 15	Engine 15	Bates, Miller, Mahedy.....	15.....	6.....	.05	..	..	..	Carelessness.....		
200	500	700	Engine 30	Engine 30	Bates, Reeves.....	24, 30.....	5, 9.....	.15	..	..	..	Not ascertained.....		
	10	10			Bates, Shay, Reeves.....		9.....	.10	I	..	..	Clothes taking fire from stove		
50		50	Engine 29	Engine 29	Bates, Mahedy, Rowe.....	4, 29.....	1, 10.....	.15	..	..	..	Spontaneous combusti n....		
					Bonner, Reilly.....		19.....	.45	I	..	..	Tramps building fire in woods.....		
						27.....		.10	I	..	..	Carelessness.....		
50	200	250			Bates, Miller, Bresnan.....		9.....	.25	I	..	..	Defective flue.....		
					Wilhelm, Bonner.....			.05	I	..	..	Kerosene lamp explosion...		
								.10	I	..	..	Carelessness.....		
800		800	Engine 38	Engine 38	Bonner.....	37, 38.....		4.00	..	..	..	Defective flue.....	Fireman Peter Barrett, Engine Co. No. 36, slightly injured.	
	2,000	2,000	Engine 4	Engine 4	{ Bates, Shay, Mahedy, Reeves, Miller.....	{ 4, 6, 29.....	{ 1, 8, 10.....	1.30	..	..	..	Carelessness.....	Fireman Moses Ryer, H. & L. Co. No. 1, hand slightly cut.....	
250	1,645	1,895	Engine 1	Engine 1	{ Bates, Fisher, Gicquel, Wilhelm.....	{ 1, 3, 14, 16, 19, 26, 34.....	{ 3, 4, 7, 17.....	1.00	..	..	..	Carelessness.....	Horse burned to death.....	
182	50	232	Engine 9	Engine 9	Foreman Engine 9.....	9.....		.05	..	..	..	Not ascertained.....		
15		15										Overheated stove igniting fireboard.....		
								.11.....	.04	I	..	Unknown person burning straw in fireplace.....		
								.02	I	..	..	Spontaneous combustion....		
					Bates, Reeves, Gicquel.....	13.....		.10	I	..	..	Foul chimney.....		
75	125	200	Engine 7	Engine 4	Bates, Rowe, Reeves.....	4, 7.....	1, 10.....	.10	..	..	..	Sparks from forge.....	Private Timothy J. Bresnan, Engine Co. No. 12, ankle injured.....	
500	2,100	2,600	Engine 15	Engine 15	Bates, Miller.....	15, 11, 17.....	6, 11.....	.50	..	..	..	Not ascertained.....		
					Bates, Miller, Bresnan.....		9.....	.03	I	..	..	Sparks from furnace.....		
25	20	45	Engine 20	Engine 20	Bates, Shay, Reeves, Miller...	20.....	9.....	.15	..	..	..	Hot coals from furnace....		
	25	25						.03	I	..	..	Window curtain taking fire from gas.....		
25	200	225						.11.....	.05	I	..	Child playing with matches.	Julia Smith, hand burned.....	
	10	10			Fisher, Campbell.....	21.....		.03	I	..	..	Not ascertained.....		
	25	25				5.....		.10	I	..	..	Fly-paper igniting from gas.		
50	800	850	Engine 17	Engine 17	Foreman Farlow.....	17.....		.15	..	..	..	Kerosene lamp falling.....		
2,500	10,000	12,500	Engine 26	Engine 26	Fisher, Campbell.....	26.....	2, 7.....	.30	..	..	..	Window curtain igniting from gas.....		
200	385	585	H. & L. 13	Engine 22	Wilhelm.....	22, 35.....	13, 16.....	1.00	..	..	..	Defective chimney.....		
						25.....		.05	I	..	..	Kerosene lamp falling.....		
			H. & L. 5	Engine 24		24.....		.10	..	..	..	Sparks from chimney.....		
					Bates, Bresnan, Gicquel.....		3.....	.05	I	..	..	Kerosene lamp explosion...		
					Campbell.....							Not ascertained.....		
					Bates, Bresnan, Gicquel.....		3.....	.10	I	..	..	Defective flue.....		
250	1,000	1,250	Engine 17	Engine 17	Bates, Miller, Bresnan.....	15, 17.....	6, 11.....	.30	..	..	..	Kerosene lamp falling.....		
	10	10			Campbell, Fisher.....		4.....	.05	I	..	..	Clothes igniting from stove.		
			Engine 36	Engine 36	Bonner, Reilly.....	36.....	14.....	.30	..	..	..	Carelessness.....		
15		15			Bates, Rowe, Mahedy.....	10.....	10.....	.05	I	..	..	Carelessness.....		

FIRST NOTICE OF FIRE OR ALARM.			ALARMS.										DESCRIPTION OF BUILDING.							
DATE.	HOUR.	SIGNAL.	LOCATION.	CAUSE.	IN WHAT MANNER RECEIVED.				BY WHOM COMMUNICATED.		Number of Stories.	Material Built of.	Area.	OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	FIRE EXTENDED TO.			
					Indication of Fire. Unnecessary.	Verbal.	Box Signals.	Special Signals.	Automatic Signals.	Attaches of Fire Department.								District Key Holders.	Citizen Key Holders.	Other Sources.
1881.																				
Dec. 3	10.48 1/2 p.m.	326	197 Avenue A.	I							4	Brick	25 x 60	Ellen McClane	Dwelling	3d floor				
" 4	11.1 a.	56	39 Beekman street	I							5	Brick	25 x 75	Owens & Co.	Fancy card manufactory	5th floor				
" 4	1.58 a.m.	Still	427 Second avenue	I							4	Brick	25 x 100	Mrs. Schenke!	Lager-beer saloon	Cellar				
" 4	4.26 p.m.	456	487 Eighth avenue	I							4	Brick	25 x 100	M. Whithoski	Tailor shop	1st floor				
" 5	12.23 a.m.	423	156 to 160 East 27th street	I							2	Frame	70 x 60	Gordon & Chase	Stables	2d floor				
" 5	2.56 a.m.	Still	85 Van Dam street	I							4	Brick	25 x 60	Alonzo Chadsey	Dwelling	1st floor				
" 5	1.30 a.m.	Still	224 West 16th street	I							2	Frame	25 x 35	Chas. Goodwin	Dwelling	1st floor				
" 5	10.43 a.m.	Still	303 East 10th street	I							5	Brick	25 x 60	Wm. Fritz	Dwelling	2d floor				
" 5	3.19 p.m.	568	56th street and Ave. A., N.E. cor	I							1 1/2	Brick	50 x 50	Block & Fitzgerald	Stables, etc	Cellar	1st floor			
" 5	6.11 p.m.	237	177 Mercer street	I							6	Brick	25 x 80	Isaac Popper	Manufr. dress trimmings	5th floor				
" 6	4.45 p.m.	Still	76 Fulton street	I							4	Brick	25 x 60	Wm. H. Everett	Restaurant	1st floor				
" 6	5.25 p.m.	Still	138 William street	I							4	Brick	25 x 100	Henry Allen	Dealers in glass	1st floor				
" 6	5.21 p.m.	188	85 Allen street	I							3	Brick	25 x 40	Lewis Vogel & others	Dwelling	3d floor				
" 6	6.48 p.m.	536	884 Eighth avenue	I							4	Brick, br. stone ft.	25 x 60	H. Zellweger	Scouring & dyeing est'b.	1st floor				
" 6	8.50 p.m.	93	182 and 184 Chatham street	I							5	Brick	50 x 75	Lowenstein & Bro	Cigar manufacturers	5th floor				
" 7	11.26 p.m.	{ 57, and 2d and 3d alarms... }	61 Beekman street	I							5	Brick	25 x 125	Gaylord & Watson	Publishers, etc.	5th floor	{ 4th floor and 59 } { Beekman st. }			
" 7			Extended to 59 Beekman street								5	Brick	25 x 125	Ellis McDonald	Blank-book manufacturer					
" 7	3.18 p.m.	636	1337 Third avenue	I							5	Brick	25 x 75	F. J. Maires	Paints, etc.	Cellar				
" 7	4.27 p.m.	756		I																
" 7	4.49 1/2 p.m.	583	7 East 65th street	I							4	Brick, br. stone ft.	25 x 75	Charles Donahue	Dwelling	2d floor				
" 7	8.00 p.m.	Still		I																
" 7	9.32 p.m.	Still	21 Avenue B.	I							4	Brick	25 x 50	Strauss Bros.	Gent's furnishing goods	1st floor				
" 7	10.09 p.m.	Still	244 West 49th street	I							4	Brick	20 x 50	B. B. Lyons	Dwelling	Cellar				
" 8	2.44 p.m.	Still	{ So. west cor. 28th street and } { First avenue }	I							1	Frame, br. stone ft.	10 x 10	Manhattan Brass Co.	Storage, etc	1st floor				
" 8	4.44 p.m.	513	613 West 46th street	I							5	Brick	25 x 50	Chas. Franke	Dyeing and scouring	4th floor				
" 8	7.00 p.m.	Still	165 East Broadway	I							4	Brick	25 x 100	Lewis Harris	Hotel	1st floor				
" 8	8.30 p.m.	Still		I																
" 9	5.10 a.m.	121	402 Greenwich street	I							4	Brick	25 x 125	Various parties	Preserve warehouse	1st floor	2d floor			
" 9	7.05 a.m.	Still	341 East 27th street	I							5	Brick	25 x 60	James McDowell	Dwelling	2d floor				
" 9	7.23 a.m.	Still	231 to 235 East 42d street	I							4	Brick	75 x 100	{ Manhattan Knitting } { Mills }	Manufactory, etc.	1st floor				
" 9	8.19 a.m.	486	231 to 235 East 42d street	I							4	Brick	75 x 100	{ Manhattan Knitting } { Mills }	Manufactory, etc.	1st floor				
" 9	1.43 p.m.	173	182 Division street	I							3	Frame	20 x 100	Paul Oehler and others	Dwelling	Roof				
" 9	6.04 p.m.	9	2 Coenties slip	I							5	Brick	35 x 20	M. Devine	Dwelling	4th floor	5th floor			
" 9	7.45 p.m.	Still	100 Cannon street	I							1	Frame	20 x 80	Several parties	Woodhouse	1st floor				
" 10	2.04 a.m.	475	332 West 40th street	I							5	Brick	25 x 60	Michael Veline	Dwelling	4th floor				
" 10	2.52 a.m.	53	Pier 26, North river	I							2	Frame	250 x 175	{ J. Leaser & Co. } { and others }	Beef, etc.	2d floor				
" 10	1.40 p.m.	Still	222 1/2 East 46th street	I							5	Brick	20 x 40	Horten Tuthill	Dwelling	3d floor				
" 10	4.08 p.m.	Still	425 Hudson street	I							2	Brick	25 x 40	Maria Philips	Dwelling	Roof				
" 10	9.52 p.m.	166	27 Wooster street	I							3	Brick	30 x 125	A. Russian & Co.	Confectioners	1st floor	3d floor			
" 11	9.30 a.m.	Still	434 West 34th street	I							3	Brick	22 x 44	Wm. Ferris	Dwelling	Basement				
" 11	1.41 p.m.	586	172 East 62d street	I							4	Brick	30 x 20	Philip Arras	Boot and shoe maker	1st floor				
" 11	11.06 a.m.	562		I							1									
" 11	2.44 p.m.	135	123 Henry street	I							3	Brick	25 x 30	Wm. Harod and others	Dwelling	Basement				
" 11	5.16 p.m.	Still	169 Elizabeth street	I							4	Brick	25 x 60	Cook & Wohltman	Grocery	Cellar				
" 11	12.15 a.m.	Still	606 West 48th street	I							1	Frame	15 x 60	Lewis Balduf	Weaving establishment	1st floor				
" 11	6.13 p.m.	339	96 Fifth avenue	I							4	Brick, br. stone ft.	50 x 100	Manhattan Club	Meeting rooms	1st floor				
" 12	4.09 a.m.	187	1 1/2 Bridge street	I							6	Brick	20 x 150	George C. Hartich	Cotton warehouse	1st floor				
" 12	1.23 p.m.	Still	79 Madison avenue	I							4	Brick	25 x 60	Charles C. Lee	Dwelling	4th floor				
" 12	3.16 p.m.	421	326 East 53d street	I							4	Brick	25 x 50	Cornelius O'Brien	Dwelling	1st floor				
" 12	3.00 p.m.	Still	204 Hester street	I							5	Brick	25 x 50	Various families	Dwelling	Basement				
" 12	3.20 p.m.	Still	431 West 34th street	I							1 1/2	Brick	25 x 60	John Torney	Dwelling	2d floor				
" 12	5.35 p.m.	Still	384 Fourth avenue	I							4	Brick	25 x 50	Pauline Doccard	Dwelling	2d floor				
" 12	8.03 p.m.	422	250 Seventh avenue	I							4	Brick	25 x 50	A. Levy	Dwelling	3d floor				
" 12	9.17 1/2 p.m.	417	{ Still and spec'l } { call, st. 457 }	I							2	Frame	15 x 20	M. Carthy	Horse-collar manufactory	2d floor				
" 12	10.03 p.m.	{ Still and spec'l } { call, st. 457 }	511 Seventh avenue	I							2	Frame	15 x 20	M. Carthy	Horse-collar manufactory	2d floor				
" 13	8.00 a.m.	316	52 Greenwich avenue	I							5	Brick	25 x 60	J. Belcher	Bakery	Cellar				
" 13	10.25 a.m.	Still	106 East Broadway	I							1 1/2	Brick	25 x 45	Solomon Chimler	Dwelling	3d floor				
" 13	5.10 p.m.	Still	35 West 4th street	I							4	Brick	100 x 25	F. Bertrand	Wood-turner	2d floor				
" 13	5.17 1/2 p.m.	182	301 Spring street	I							2	Brick	20 x 30	Mary Williams	Dwelling	Basement				
" 13	7.15 p.m.	Still	112 Charles street	I							2	Brick	20 x 40	A. Frazer	Dwelling	Basement				
" 13	8.00 p.m.	Still	55 First avenue	I							5	Brick	25 x 50	David Fishler	Fancy goods	1st floor				
" 14	2.26 p.m.	{ Circuit 4... } { Aut. Signal 33 }		I																
" 14	8.03 p.m.	483	503 Fifth avenue	I							5	Brick	25 x 125	Unoccupied		5th floor				
" 14	10.10 1/2 p.m.	345	624 to 642 East 14th street	I							1	Brick	200 x 200	Hotchkiss & Field	Iron foundry	1st floor				
" 14	10.27 p.m.	376	232 West 22d street	I							4	Brick, br. stone ft.	25 x 60	John Fraine	Dwelling	3d floor				
" 14	11.43 p.m.	229	340 Stanton street	I							2	Frame	25 x 40	Unoccupied		Attic	{ All floors and } { 338 Stanton st. }			
" 14			Extended to 338 Stanton street								2	Frame	25 x 40	Several families	Dwelling					
" 15	1.42 a.m.	927 and 2d alarm	Waverly st. and Courtland ave.	I																

ESTIMATED LOSS.			FIRST COMPANY AT FIRE.	FIRST WATER ON FIRE.	NAMES OF CHIEF OFFICERS PRESENT. (Officer in Command named first.)	COMPANIES AT WORK.		DURATION OF FIRE.	HOW EXTINGUISHED.			CAUSE OF FIRE.	CASUALTIES.	REMARKS.
To Buildings.	To Contents.	Total.				Engine (Ch. for Chemical Engines).	Hook and Ladder.		Fire Extinguishers, Buckets of Water, Hydrant Streams, etc.	One Engine Stream.	Two or Three Engine Streams.			
\$250	\$200	\$450	Engine 26	Engine 28	Bates, Brennan, Miller.	28	3	10	1	1	1	Kerosene lamp falling.	{ Ellen McClane severely burned (Died.)	
20	20	20			Bates, Mahedy, Rowe.	16	1	10	1	1	1	Matches igniting cotton.		
370	5,700	6,070	Engine 26	Engine 26	Campbell, Fisher.	26, 34	4, 12	30	1	1	1	Carelessness.		
25	50	75	H. & L. 7	Engine 16	Fisher, Campbell.	16	3, 7	20	1	1	1	Not ascertained.		
15	30	45	Engine 30	Engine 30		30		05	1	1	1	Foul chimney.		
20	20	20				28		10	1	1	1	{ Soot in chimney taking fire and igniting fire- board.		
460	630	1,090	Engine 8	Engine 8	Fisher.	8	2, 7	10	1	1	1	Child playing with matches.		
200	5,893	6,093	Engine 33	Engine 33	Bates, Reeves, Wilhelm.	13, 20, 33	8, 9	45	1	1	1	Carelessness.	Horse suffocated.	
25	20	45			Foreman McGill.	32	10	30	1	1	1	Not ascertained.		
						32		15	1	1	1	Pot of fat on range igniting.		
	20	20			Bates, Miller.	6		05	1	1	1	Carelessness.		
75	400	475	H. & L. 4	Engine 23	Campbell, Fisher.	23	4	10	1	1	1	Kerosene lamp exploded.	Minnie Vogel severely burned.	
200	2,500	2,700	Engine 9	Engine 7	Bates, Mahedy, Miller.	7, 9	1, 6	35	1	1	1	Vapor from benzine igniting.		
2,000	13,974	15,974	Engine 32	Engine 32	{ Bates, Shay, Rowe, Ma- hedy, Gicquel, Bresnan. }	{ 4, 6, 7, 9, 10, 12, 29, 31, 32. }	1, 6, 8, 10	305	1	1	1	{ Heat from stove igniting partition.	{ Fireman Patrick V. Doyle, Engine Co. No. 32 and Citizen Watson hand slightly burned.	
75	300	375	Engine 44	Engine 44	Bonner.	22, 39, 44	2, 13	35	1	1	1	Carelessness.		
1,475	2,500	3,975	Engine 39	Engine 39	Bonner, Reilly.			20	1	1	1	Vapor from varnish igniting.		{ Caused by back draught of chimney No. 222 East 121st street.
					Fisher.	39	2	20	1	1	1	{ Window curtain taking fire from gas.		{ Boys, inmates of institu- tion, 129th st. and 10th avenue crying fire.
			H. & L. 4	H. & L. 4		Ch. 5	4	05	1	1	1	Foul chimney.		
75	500	575	Engine 2	Engine 2	Campbell, Fisher.	2	4	10	1	1	1	{ Sparks from furnace igni- ting rubbish.		
10	20	30					6	10	1	1	1	Carelessness.		
500	5,000	5,500	Engine 27	Engine 27	Bates, Mahedy, Reeves.	27, 29	8, 10	45	1	1	1	{ Heat from steam pipes ig- niting flooring.		
25	25	25						02	1	1	1	{ Heater pipes setting fire to floor beams.		{ Caused by intense heat from flue of adjoining premises.
								05	1	1	1	Not ascertained.		
								05	1	1	1	Careless ness.		
					Fisher, Campbell.		2	05	1	1	1	Sparks from machinery.		
					Bates, Miller.			03	1	1	1	Rekindling of previous fire.		
300	376	676	Engine 10	Engine 10	Bates, Rowe, Miller.	4, 10, 32	1, 10	105	1	1	1	Pot of tar taking fire.		
20	50	70						10	1	1	1	Not ascertained.		
50	20	70	Engine 29	Engine 29	Campbell.	4	4	10	1	1	1	Carelessness.		
					Bates, Rowe, Mahedy.	6, 29	1, 10	35	1	1	1	Explosion of oil lamp.		
								15	1	1	1	{ Heat from stove igniting clothing.		
			Engine 24	Engine 24		24		01	1	1	1	Foul chimney.		
200	7,500	7,700	Engine 13	Engine 13	Bates, Shay, Mahedy.	13, 20, 30	8, 9	135	1	1	1	Carelessness.		
					Wilhelm, Fisher.	34		30	1	1	1	Not ascertained.		
					Campbell, Fisher.			10	1	1	1	Foul chimney.		{ Steam issuing from prem- ises Nos. 8 and 10 East 55th street.
					Bates, Miller, Mahedy.			05	1	1	1	Malicious mischief.		
								14	1	1	1	{ Overheated stove igniting partition.		
25	10	35			Shay, Bresnan, Gicquel.	3	3	20	1	1	1	Carelessness.		
					Shay, Miller, Bresnan.			15	1	1	1	Malicious mischief.		
68	75	143			Fisher.	10	7	20	1	1	1	{ Heat from grate fire ig- niting floor-beams.		{ Steam issuing from prem- ises No. 344 Broome street.
20	50	70	Engine 31	Engine 31		34		05	1	1	1	Upsetting of oil lamp.		
20	150	170						10	1	1	1	Carelessness.		
30	136	166						10	1	1	1	Carelessness.		
20	50	70	Engine 18	Engine 18	Bates, Gicquel, Reeves.	18	5	30	1	1	1	Malicious mischief.		
	250	250						01	1	1	1	Foul chimney.		
	10	10			Bates, Reeves, Gicquel.	33		10	1	1	1	Kerosene lamp falling.		
10	25	35						10	1	1	1	Foul chimney.		
								02	1	1	1	Carelessness.		
									1	1	1	Pan of fat taking fire.		
2,300		2,300	Engine 21	Engine 21	Bates, Fisher, Campbell.	21, 26	2, 7	230	1	1	1	Beeswax boiling over.		
	50	50	Engine 5	Engine 5	Bates, Bresnan.	5	11	30	1	1	1	Upsetting of lamp.		
	20	20			Bates, Gicquel.			05	1	1	1	Explosion kerosene lamp.		
1,300	300	1,600	Engine 11	Engine 11	Bates, Bresnan.	11, 15, 17	11, 6	200	1	1	1	Upsetting kerosene lamp.		
10,200	4,800	15,000	H. & L. 19	Engine 46	Reilly, Bonner.	46, 48	19	830	1	1	1	{ Goods in window ignit- ing from gas.		{ Workmen tampering with wires at No. 200 Fulton street.
250	9,750	10,000	H. & L. 8	Engine 31	Bates, Shay, Reeves, Mahedy.	13, 31	1, 8	100	1	1	1	{ Sparks from furnace ig- niting woodwork.	{ Fireman Strout, H. & L. Co. No. 7, face inj'd; Foreman Egan, Engine Co. No. 21, shoulder injured.	
10	20	30	Engine 11	Engine 11	Bates, Miller, Bresnan.	11	11	10	1	1	1	{ Hot metal igniting pat- tern frames.		
	100	100			Campbell, Fisher.			10	1	1	1	Window curtain igniting from gas.		
20		20						10	1	1	1	Tramps smoking (supposed).		
									1	1	1	Not ascertained.		{ Fireman McKiernan, H. & L. Co. No. 19, hand slightly cut.
									1	1	1	Not ascertained.		
									1	1	1	Hams falling in fire.		
									1	1	1	Not ascertained.		
									1	1	1	{ Heat from stove setting fire to goods.		
									1	1	1	{ Heat from stovepipes ig- niting woodwork.		
									1	1	1	Foul chimney.		
														{ Caused by smoke issuing from No. 8 Church st.
25		25			Campbell, Fisher.		4	20	1	1	1	{ Defective heater pipe ig- niting woodwork.		{ Workmen striking aut. inst. at Nos. 28 and 30 Greene street.

FIRST NOTICE OF FIRE OR ALARM.			ALARMS.										DESCRIPTION OF BUILDING.		OCCUPIED BY.	OCCUPIED AS.	PART OF BUILDING IN WHICH FIRE ORIGINATED.	EXTENDED TO.					
DATE.	HOOR.	SIGNAL.	LOCATION.	CAUSE	IN WHAT MANNER RECEIVED.	BY WHOM COMMUNICATED.	Indication of Fire.	Unnecessary.	Verbally.	Box Signals.	Automatic Signals.	Attaches of Fire Department.	Attaches of Police Department.	District Key Holders.	Citizen Key Holders.	Other Sources.	Number of Stories.	Material Built of.	Area.				
1881.																							
Dec. 17	6 15 p.m.	182.	259 Madison avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 60	S. M. Mills.	Dwelling	2d floor	
" 17	6 15 p.m.	Still	55 Crosby street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 30	Frank Cugino.	Dwelling	3d floor	
" 17	7 00 p.m.	167, and 2d and 3d alarms.	14 to 18 Crosby street and 432 Broadway	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	75 x 200	Dessar Bros. and Wm. C. Wallack	Clothiers and fancy goods	Basement	3d and 4th floors
" 17	8 09 1/2 p.m.	97	410 Water street	1	1	1	1	1	1	1	1	1	1	1	1	1	6	Brick	25 x 75	Mrs. McCabe	Dwelling	Basement	
" 17	9 44 p.m.	263	199 Wooster street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 60	Dedrick & Co.	Packing box manufactory	5th floor	
" 17	10 18 p.m.	249	Pier 60, East river	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Tug boat		Wm. F. Burden.	Boat	Boiler room	
" 18	5 36 a.m.	572	30 West 60th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Frame	18 x 40	George H. Smith.	Dwelling	3d floor	32 West 60th street
" 18			Ex. 32 West 60th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Frame	18 x 40	P. F. McGinn.	Dwelling		
" 18	5 52 p.m.	166 and 2d alarm.	59 and 61 Greene street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	40 x 100	Philip Schulloll.	Silk and dress goods	Basement	
" 18	10 44 p.m.	534	425 West 49th street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 50	Anthony Schweninger	Dwelling	4th floor	
" 19	7 00 a.m.	541	859 6th avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 60	John T. Briggs	Dwelling	2d floor	
" 19	12 20 p.m.	Still	423 West 17th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 40	William Curtin	Dwelling	2d floor	
" 19	2 07 1/2 p.m.	337 and 2d alarm.	220 West 14th street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 60	M.D. Roberts & others	Dwelling	Cellar	All floors
" 19	2 30 p.m.	Still	78 Park place	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	20 x 30	S. F. Whitman & Son.	Confectioners	Basement	
" 19	6 36 p.m.	Still	2254 3d avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Frame	25 x 40	Catharine Byrnes	Dwelling	2d floor	
" 19	6 40 p.m.	771	Foot 138th street & Harlem river	1	1	1	1	1	1	1	1	1	1	1	1	1		Canal boat		Delaware and Hudson Canal Co.	Coal Transport	Cabin	
" 19	9 30 p.m.	257 and 2d alarm	20 and 22 Commerce street	1	1	1	1	1	1	1	1	1	1	1	1	1	6	Brick	50 x 60	B. M. Smith	Piano box manufactory	3d floor	6th floor
" 19	4 00 p.m.	Still	412 West 49th street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	20 x 45	Wm. H. Magagnous	Dwelling	2d floor	
" 20	1 45 p.m.	Still	175 Wooster street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	20 x 75	Various families	Dwelling	1st floor	
" 20	2 45 p.m.	Still	711 Eighth avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick, br. stone ft.	25 x 60	Mrs. Brewer	Dwelling	2d floor	
" 20	2 56 1/2 p.m.	(Circuit 3, automatic signal 121)		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 20	6 13 p.m.	432	552 and 554 West 28th street	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Brick	50 x 100	J. & W. Jarboe & Sons	Manufacturers Iron Tanks	1st floor	
" 20	7 34 1/2 p.m.	49	110 to 116 Beekman street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	100 x 30	Thomas R. Harris	Cracker Bakery	Cellar	
" 20	9 38 p.m.	Still	141 East 13th street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 25	Eugene Klein	Dwelling	2d floor	
" 20	11 00 p.m.	Still	301 to 303 Third avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	50 x 85	Hom. Hospital	Hospital	Cellar	
" 21	4 40 p.m.	Still	216 West 48th street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 50	William C. Baker	Dwelling	3d floor	
" 21	6 33 p.m.	(Sp. calls Eng. Cos. 20 & 33 to Stats. 237 & 238)		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 21	9 23 1/2 p.m.	64	54 Barclay street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 75	William Loft	Manufacturer Candies	5th floor	
" 21	10 47 p.m.	Still	113 East 40th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	20 x 50	Alfred G. Swift	Dwelling	Basement	
" 22	8 25 a.m.	55		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 22	11 58 a.m.	Still	455 West 35th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 50	Jackson Geunum	Dwelling	1st floor	
" 22	5 34 1/2 p.m.	417		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 22	6 30 1/2 p.m.	645	17 East 79th street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick, br. stone ft.	20 x 60	R. McCullough	Dwelling	Basement	
" 22	6 45 p.m.	193	195 to 199 Broome street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	75 x 50	F. Miller	Provisions	1st floor	
" 22	7 37 p.m.	261	197 to 199 Wooster street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 60	Guli & Co.	Wood Turners	4th floor	
" 22	7 45 p.m.	Still	573 Greenwich street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 60	Wm. Wallach	Dealer in fancy goods	Basement	
" 22	11 07 1/2 p.m.	56	4 Beekman street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 100	Willy Wallach	Dealer in fancy goods	Sub-cellar	
" 23	3 16 p.m.	225		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 23	5 10 p.m.	Still	125th street, bet. 2d & 3d avenues	1	1	1	1	1	1	1	1	1	1	1	1	1	2	Frame	20 x 40	John J. Sperry	Dwelling	1st floor	
" 23	10 00 p.m.	476	586 Eighth avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	22 x 50	Mr. Arnheim	Tailor shop	1st floor	
" 23	4 50 1/2 p.m.	474		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 24	7 00 p.m.	Still	109 East 13th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 100	S. S. Owen & Co.	Electro-plating	Cellar	
" 24	5 00 p.m.	Still	295 West 12th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	20 x 50	Mrs. Nicholas	Dwelling	2d floor	
" 24	7 53 p.m.	484	343 Lexington avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick, br. stone ft.	22 x 50	Bernard Biglin	Dwelling	3d floor	
" 24	8 19 p.m.	Still	61 East Twelfth street, (rear)	1	1	1	1	1	1	1	1	1	1	1	1	1	2	Brick	40 x 25	Lussner & Lewis	Furniture manufacturers	Cellar	
" 24	8 18 1/2 p.m.	(125, and 2d & 3d alarms...)	359 Broadway	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick, br. stone ft.	25 x 225	Wm. T. Mosenthal	Cloth warehouse	Cellar	
" 24	8 54 1/2 p.m.	2d and 3d alarm	71 and 72 South street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick, granite ft.	50 x 80	Court, Acher & Co.	Dealers in tobacco, etc.	2d floor	All floors
" 24			Extending to 33 Depeyster street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	20 x 75	Court, Acher & Co.	Dealers in tobacco, etc.		33 Depeyster st.
" 24			Extending to 73 and 74 South st.	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	20 x 75	Court, Acher & Co.	Dealers in tobacco, etc.		35 Depeyster st.
" 24			Extending to 162 Maiden Lane	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	50 x 90	Court, Acher & Co.	Dealers in tobacco, etc.		73 & 74 South st.
" 24	10 52 a.m.	339	18 West 14th street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 60	E. Miller	Dealer in fancy goods	Basement	162 Maiden Lane
" 24	8 31 1/2 p.m.	(Special call, Engine 17, St. 128)	140 Centre street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 40	Chas. Brush	Manfr. tinware, etc.	5th floor	
" 25	11 12 a.m.	Still	107 East Broadway	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 40	Hannah Wemyss	Dwelling	Basement	
" 25	12 33 1/2 p.m.	436	452 Eighth avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 50	J. P. Patterson	Dwelling	2d floor	
" 25	2 11 p.m.	283	349 West 11th street	1	1	1	1	1	1	1	1	1	1	1	1	1	2	Frame	25 x 50	Ching Chong	Laundry	1st floor	Attic & 347 W. 11th
" 25			Extended to 347 West 11th street	1	1	1	1	1	1	1	1	1	1	1	1	1	2	Frame	25 x 50	C. Williams	Dwelling	1st floor	
" 26	12 54 a.m.	153	154 East Broadway	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 60	A. Steuer and others	Dwelling	1st floor	
" 26	10 40 a.m.	Still	52 Ludlow street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 65	E. Rosen' erg.	Russian baths	Cellar	Basement
" 26	4 36 p.m.	194	136 Delancey street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 40	E. Bernard and others	Dwelling	2d floor	
" 26	1 11 p.m.	125		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 26	1 24 1/2 p.m.	79	359 Water street	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 60	F. Grant	Dwelling	3d floor	
" 26	1 12 a.m.	64 and 3d alarm	47 Barclay street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick, br. stone ft.	25 x 75	G. W. & W. G. Dean	Mustard manufrs.	Sub-cellar	1st floor
" 26	1 19 p.m.	644	105 East 83d street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Frame	25 x 40	Charles M. Turner	Dwelling	3d floor	
" 26	1 43 p.m.	93	203 Chatham square	1	1	1	1	1	1	1	1	1	1	1	1	1	4	Brick	25 x 60	Solomon & Rosenheim	Dwelling	4th floor	
" 26	3 30 a.m.	37	341 and 345 East 23d street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	50 x 80	J. Friedman & Co.	Cigar manufacturers	3d floor	4th floor
" 28	12 55 p.m.	51	142 West street	1	1	1	1	1	1	1	1	1	1	1	1	1	3	Brick	25 x 75	Hugh Mitchell	Dealer in whisky	2d floor	
" 29	2 14 a.m.	335		1	1	1	1	1	1	1	1	1	1	1	1	1							
" 29	5 03 p.m.	Still	41 Centre street	1	1	1	1	1	1	1	1	1	1	1	1	1	5	Brick	25 x 75	Otto & Firben	Mfrs. Surgical Instrum'ts.	5th floor	</

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## APPROVED PAPERS.

*Ordinances, resolutions, etc., approved by the Mayor during the week ending June 17, 1882.*

Whereas, In view of the recent increase of the necessities of life, the wages paid to the laborers employed in the various departments of the City Government is insufficient to support their families; and

Whereas, It is to the interest of all our citizens, and particularly the shop-keepers, that the laboring element should be paid fair and living wages; therefore

Resolved, That the heads of departments of the City Government be and they are hereby requested to favorably consider the application of the laborers in their employ for an increase in their wages from \$1.76 to \$2 per day, and the Board of Estimate and Apportionment is also requested to transfer from surplus or unexpended appropriations a sufficient amount to pay the increased wages of the city laborers.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 14, 1882.

Resolved, That permission be and the same is hereby given to Samuel F. Pease and Ferdinand V. Morrison, to flag the side-walk, and set the curb and gutter-stones in front of their premises known as No. 710 East One Hundred and Forty-third street, and situated on southerly side of said East One Hundred and Forty-third street, commencing 475 feet east from Willis avenue, and extending easterly twenty-five feet, the work done at their own expense, under the direction of the Commissioner of the Department of Public Parks, such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That permission be and the same is hereby given to Henry Martin, to flag the side-walk and set the curb and gutter-stones in front of his premises situated on the southerly side of East One Hundred and Forty-third street, commencing 275 feet east of Willis avenue and extending easterly seventy-five feet, said premises being known as Nos. 684, 686, 688 and 690 East One Hundred and Forty-third street, the work done at his own expense, under the direction of the Commissioners of the Department of Public Parks, such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That permission be and the same is hereby given to Andrew Judson White to erect a bay window at the southeast corner of Sixty-sixth street and Fifth avenue, said window to project four feet beyond the street line, as shown on the accompanying diagram, the consent of adjoining property owners and necessary affidavits having been received and is hereto annexed, the work to be done at his own expense, under the direction of the Commissioners of the Fire Department; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That the sidewalks of Denman place, between Concord avenue and Union avenue, be flagged a space four feet wide and that the curb and gutter stones be set within said limits, under the direction of the Commissioners of the Department of Public Parks; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That in accordance with the suggestion as contained in an opinion of the Counsel to the Corporation to the Department of Public Parks, of date May 10, 1882, authority is hereby given to the Department of Public Parks to make a contract, without public letting, and in such manner as said Department may deem for the best interests of the city, with the contractor for building the abutments for a bridge over the Harlem river at Madison avenue, for furnishing all the labor and materials necessary and required in the construction of the permanent southerly approach to said bridge, in accordance with the plans adopted by said Department March 15, 1882; and further, for making a connection between said approach and the present end of the filling in Madison avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets. The prices to be paid for such labor and materials to be the same as paid the contractor by the terms of his present contract for doing similar work.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That the Commissioners of the Department of Public Parks be and they are hereby requested to cause the pavement of North Third avenue, between East One Hundred and Fifty-sixth street and East One Hundred and Fifty-eighth street, and also the crosswalk across East One Hundred and Fifty-sixth street, near its intersection with the easterly side of said avenue, to be properly relaid as soon as possible.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That permission be and the same is hereby given to the Manhattan Storage and Warehouse Company to erect two towers on the building about to be erected on Lexington avenue, between Forty-first and Forty-second streets—one on the corner of Forty-first street and Lexington avenue, and one on the corner of Forty-second street and Lexington avenue, to project not more than three feet beyond the house-line, as shown in the accompanying diagram; the work to be done at the expense of the company, under the direction of the Commissioners of the Fire Department; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That section 2 of article 1 of chapter 5 of the Revised Ordinances, approved December 31, 1880, be and the same is hereby amended by striking out the words "and the person so applying for license shall pay to said Commissioners the sum of five dollars for each and every monument affected," so that said section when so amended shall read as follows:

Sec. 2. Whenever it may be necessary to make any excavation or embankment or to lay or remove any pavement or flagging within two feet of any street monument or bolt as aforesaid, any person or persons intending to do such work shall make written application to the Commissioners of the Department of Public Parks for a license, which application shall set forth the nature of the work proposed and the location of the monument affected thereby. The said Commissioners of the Department of Public Parks shall thereupon cause their engineer in charge of the laying out and monumenting of the streets within the district above named to take such measurements and field notes as may be necessary to restore such monuments to their correct positions after the completion of the contemplated work, and when such measurements and field notes have been taken, but not before, may issue a license as desired.

Adopted by the Board of Aldermen, June 6, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That gas-mains be laid, lamp-posts erected, and street-lamps placed thereon and lighted in One Hundred and Sixth street, from Third to Fourth avenue, and in One Hundred and Eighth street, from Second to Third avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, June 13, 1882.

Approved by the Mayor, June 16, 1882.

Resolved, That the following named persons be and they are hereby appointed Commissioners of Deeds in and for the City and County of New York, in place respectively of the persons whose names appear opposite and have failed to qualify:

William Alt, in place of.....	Aaron Appleton.
Nicholas H. W. Schutt, in place of.....	Edward A. Carland.
Joseph Thompson, ".....	Charles B. Curtis.
John C. Munzinger, ".....	Louis McDermott.
Mitchell Herschfield, ".....	Peter McCullough.
Joseph P. Murray, ".....	Henry E. Mooney.
William J. Hyland, ".....	Pierce C. Talman.

Resolved, That the following-named persons be and they are hereby appointed Commissioners of Deeds in and for the City and County of New York, in place respectively of the persons whose names appear opposite, whose term of office expire at the time stated:

	Term Expires.
Bryan O'Hara, in place of Bryan O'Hara.....	May 4, 1882
Dennis A. Spellissy, in place of Dennis A. Spellissy.....	June 7, 1882
Jacob Meyer, ".....	June 1, 1882
Stephen M. Anderson ".....	June 18, 1882
William Blake, ".....	"
Gottlob Bollet, ".....	"
George Boucsein, ".....	"
Albert H. Boyer, ".....	"
John J. Brady, ".....	"
John W. Campbell, ".....	"
John F. Cherry, ".....	"
Robert Curren, ".....	"
Charles A. Grant, ".....	"
Leonard Gattman, ".....	"
Henry A. Hoelzle, ".....	"
John F. Hinds, ".....	"
George W. Kershaw, ".....	"
Joseph Kohler, ".....	"
Louis Levy, ".....	"
Samuel A. Lewis, ".....	"
Graham McAdam, ".....	"
S. Wood McClave, ".....	"
James L. McCahill, ".....	"
William M. Montgomery, ".....	"
Patrick Moore, ".....	"
Thomas F. Murphy, ".....	"
W. Geo. Oppenheim, ".....	"
Edmund F. O'Dwyer, ".....	"
Alexander F. Rogers, ".....	"
George J. Smith, ".....	"
George A. Smith, ".....	"
Michael H. Sigerson, ".....	"
William J. Wells, ".....	"
Hugh Smith, ".....	"
John J. Mandeville, ".....	"
Joseph Hartshorn, ".....	"
Morris Beutler, ".....	"
August Urban, ".....	"
Sylvester Schaffner, ".....	"
Charles N. Berrian, ".....	"
Frank Wolf, ".....	"
William B. Warren, ".....	"
Hugh A. Taggart, ".....	"
Abraham Levy, ".....	"
Michael J. McLaughlin, ".....	"
John A. Brown, ".....	"
Max Bendit, ".....	"
Charles T. Duffy, ".....	"
Joseph Platz, ".....	"
Samuel D. Folsom, ".....	"
S. Lobenthal, ".....	"
James Campbell, ".....	"
Charles M. Stokes, ".....	"
Thomas F. Carney, ".....	"
Francis B. Wright, ".....	"
Samuel Cardwell, Jr., ".....	"
Gerson Goldstein, ".....	"
James D. Carroll, ".....	"
Charles B. Fischer, ".....	"
Thomas Flanagan, ".....	"
Henry Mitzscherling, ".....	"
Arthur Kinnier, ".....	"
Solomon Cohen, ".....	"
Phillip A. Morris, ".....	"
Thomas McCahill, ".....	"
Henry J. Marrecella, ".....	"
John McNamara, ".....	"
John C. Gregory, ".....	"
Lorenze Zeller, ".....	"
Hermann Wiesner, ".....	"
Frederick Krapp, ".....	"
John C. Stein, ".....	"
Herman Karp, ".....	"
James J. Brennan, ".....	"
John Hampson, ".....	"
Benjamin W. Buchanan, ".....	"
Charles Rands, ".....	"
Daniel Mahen, ".....	"
James C. Hawley, ".....	"
Joseph H. Stiner, ".....	"
Francis J. Twomey, ".....	"
Joseph A. Michaels, ".....	"
Dennis E. Sheehan, ".....	"
Walter Hume, ".....	"
John Kline, ".....	"
Samuel M. Smith, ".....	"
Nathaniel W. Wood, ".....	"
Reuben W. Ross, ".....	"
George B. Stone, ".....	"
Henry Budelman, Jr., ".....	"
Edwin R. Root, ".....	"
Frederick Ogden, ".....	"
Jacob Abarbannella, ".....	"
John P. Nagle, ".....	"
William M. Taylor, ".....	"
James W. Raynor, ".....	"
James Green, ".....	"
Joseph Farrell, ".....	"
Charles Ullmann, ".....	"
George D. McCarthy, ".....	"
Charles Schleuning, ".....	"
John J. Byrnes, ".....	"
J. Elliot Smith, ".....	"
William K. Ross, ".....	"
William C. Demorest, ".....	"
James F. Montgomery, ".....	"
J. Leland Wells, ".....	"
John B. Smyth, ".....	"
Phillip Schell, ".....	"
Aaron Appleton, ".....	"
Alexander Campbell, ".....	"
William H. Class, ".....	"
Frederick Reed, ".....	"
John C. Ryer, ".....	"
Charles H. Smith, ".....	"
Thomas H. Robinson, ".....	"
David Colbert, ".....	"
Richard M. Laimbeer, ".....	"
Daniel H. Hogan, ".....	"
John S. McWilliams, ".....	"
James C. Hawley, ".....	"
Samuel Freeman, ".....	"
Jacob Meyer, ".....	"
Stephen M. Anderson, ".....	"
William Blake, ".....	"
Gottlob Bollet, ".....	"
George Boucsein, ".....	"
Albert H. Boyer, ".....	"
John J. Brady, ".....	"
John W. Campbell, ".....	"
John F. Cherry, ".....	"
Robert Curren, ".....	"
Charles A. Grant, ".....	"
Leonard Gattman, ".....	"
Henry A. Hoelzle, ".....	"
John F. Hinds, ".....	"
George W. Kershaw, ".....	"
Joseph Kohler, ".....	"
Louis Levy, ".....	"
Samuel A. Lewis, ".....	"
Graham McAdam, ".....	"
S. Wood McClave, ".....	"
James L. McCahill, ".....	"
William M. Montgomery, ".....	"
Patrick Moore, ".....	"
Thomas F. Murphy, ".....	"
W. Geo. Oppenheim, ".....	"
Edmund F. O'Dwyer, ".....	"
Alexander F. Rogers, ".....	"
George J. Smith, ".....	"
George A. Smith, ".....	"
Michael H. Sigerson, ".....	"
William J. Wells, ".....	"
Hugh Smith, ".....	"
John Gilmore Boyd, ".....	"
Wm. H. Brettman, ".....	"
James J. Boylan, ".....	"
Ernst O. Bernet, Jr., ".....	"
Philip Barnard, ".....	"
James F. Bragg, ".....	"
Lawrence Brangan, ".....	"
Francis Buehler, ".....	"
John W. Bennett, ".....	"
Isidore Brooks, ".....	"
Weeks W. Culver, ".....	June 1, 1882
T. L. Crawford, ".....	June 18, 1882
Byron W. Cohen, ".....	"
Charles Dexheimer, ".....	"
William M. Doyle, ".....	"
Thomas S. Evers, ".....	"
Philip Emrich, ".....	"
Peter Egan, Jr., ".....	"
Israel F. Fischer, ".....	"
Charles J. Ferguson, ".....	"
James H. Ferdon, ".....	"
Lewis S. Goebel, ".....	"
James Gallagher, ".....	"
John H. Haar, ".....	"
Thomas Hayden, ".....	"
George Hussey, ".....	"
Stephen D. Hall, ".....	"
Mitchell Hershfield, ".....	"
Adolph E. Hageman, ".....	"
George Hoffman, ".....	"
August Isaac, ".....	"
Edward Jacobs, ".....	"
John Jenkins, Jr., ".....	"
Joshua Kantrowitz, ".....	"
John Klein, ".....	"
George B. Kobbe, ".....	"
Charles W. Kruger, ".....	"
Robert J. Kyle, ".....	"
John J. Kenny, ".....	"
Louis Leubuscher, ".....	"
John D. Lewis, ".....	"
Edmund J. Lowry, ".....	"
Henry M. Leipsiger, ".....	"
R. H. Lane, ".....	"
M. G. Lane, ".....	"
Albert Lorey, ".....	"
Phelim J. O'Neil, ".....	"
Daniel Leamy, ".....	"
John J. McLasher, ".....	"
Michael K. McCarten, ".....	"
Thomas A. McGlade, ".....	"
Edward F. McSherry, ".....	"
John C. McLaughlin, ".....	"
Hugh McCaffray, ".....	"
Ferdinand H. May, ".....	June 7, 1882
Philip Merkle, ".....	June 18, 1882
Henry Munker, ".....	"
George Moran, ".....	"
Daniel B. Murphy, ".....	"
Thomas P. Malany, ".....	"
William H. Murphy, ".....	"
Thomas F. Maloney, ".....	"
Meyer Mayer, ".....	June 1, 1882
James P. Niemann, ".....	June 18, 1882
Adam H. Niepoth, ".....	"
Michael C. O'Brien, ".....	"
Terrence G. O'Beirne, ".....	"
George B. Patterson, ".....	"
J. Brewster Roe, ".....	"
Gilbert U. Reynolds, ".....	"
John J. Reilly, ".....	"
John C. Sweeny, ".....	June 7, 1882
Edmund C. Spruhan, ".....	June 18, 1882
Egbert W. Simmons, ".....	"
Augustus Salzman, ".....	"
William R. Swift, ".....	"
Charles A. Stadler, ".....	"
Joseph B. Summers, ".....	"
Edward F. Smith, ".....	"
George W. Schaffer, ".....	"
Theodore J. Stuyvesant, ".....	"
Walter A. Sandford, ".....	"
Aaron R. Schuster, ".....	"
Hugh A. Taggart, ".....	"
William F. Van Pelt, ".....	"
Henry Wehle, ".....	"
James N. Watson, ".....	"
R. J. Wright, ".....	"

Adopted by the Board of Aldermen, June 13, 1882.

Approved by the Mayor, June 16, 1882.

FRANCIS J. TWOMEY,

Clerk of the Common Council.