



Pesticide Use by New York City Agencies in 2011

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EXECUTIVE SUMMARY

Local Law 54 of 2007 requires the New York City Department of Health and Mental Hygiene (DOHMH) to summarize annual City agencies' pesticide use. In 2011, 22 municipal agencies reported to DOHMH their pesticide use in a format that enabled summarization within and across agencies. This report summarizes pesticides applied by or on behalf of agencies on city owned or leased property.

Key findings include:

- Pesticides were applied a total of 149,278 times by New York City in 2011. Agencies used a total of 7,324 gallons and 123,482 pounds of pesticides (Table 1).
- Insecticides were the most frequently applied type of pesticide, accounting for nearly 59% of all applications. (Table 1)
- The most heavily used type of pesticide by volume was herbicides, accounting for 55% while insecticides by weight made up 52% of all pesticides used by City agencies (Table 1). When excluding the DOHMH West Nile Virus (WNV) larviciding program, rodenticides were the most heavily used with 51% by weight.
- New York City agencies are not the only users of pesticides in New York City. New York State summarizes pesticide use by all applicators – commercial and private. Comparing New York City agencies' use in 2005 (the last year New York State released its data), local government use accounts for just 2% of the total volume of liquid pesticides, and 13% of the total pounds of solid pesticides applied within the five boroughs of New York City.
- In comparison to reporting amounts in 2010, there was a 27% increase in herbicide use by volume continuing to show broad annual fluctuations in application amounts. (Figure 2)
- There was a 29% decrease in insecticides by volume. Most of that decline was a 28% reduction in pyrethroids applied, especially for the control of cockroaches. (Figure 2 and Figure 3)
- “Best Management Practices” products (Appendix 3) – largely gel and bait insecticides with little potential for human exposure – accounted for 27% of the number of insecticide applications in 2011, an increase of 14% from the number of applications in 2010 (data not shown). The total quantity (weight) of these “Best Management Practices” products used declined slightly by 8%. This follows a trend from previous years of decline in the amounts of these products reported by weight (Figure 1).

- There was a 19% decrease in rodenticide amounts used by agencies over 2010, but but there is no clear trend in use over the past four years. The timing and size of neighborhood rat ‘indexing’ campaigns can influence year-to-year trends in use. (Figure 1)
- Roaches were the most commonly targeted pests in 2011, with rats, mice, bed bugs and mosquitos making up the top 5 pests by number of total applications. (Table 3)
- The amount of pyrethroids by volume applied to target bed bugs has declined by 5% since 2010 after a decline by 36% from 2009 to 2010. (Figure 3)
- The amount of pyrethroids by volume applied to target roaches show wide fluctuations year to year with a 36% decline from 2010 to 2011 after an 89% increase from 2009 to 2010. (Figure 3)

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I. BACKGROUND

When Local Law 37 was enacted on May 9, 2005, New York City became the largest municipality in the nation to regulate the use of pesticides on city-owned and leased property. Local Law 37 established new requirements regarding pesticide use on property owned or leased by the City, including the prohibition of certain pesticide products, posting of warning notices prior to pesticide use, and the requirement that agencies report their pesticide use on annual basis. With the enactment of Local Law 37 in May 2005, prohibitions from use were phased in for certain pesticides used by agencies or their contractors on City owned and leased properties. By November, 2005, EPA Toxicity Category 1 (signal word “danger”) was prohibited. In May 2006, use of all pesticides classified by the EPA as possible, probable or known human carcinogens ended. And in November 2006, use of all pesticides classified by the State of California’s Office of Environmental Health Hazard Assessment as developmental toxins ceased.

Local Law 37 exempted from prohibition several uses and products that posed little or no risk of human exposure, including rodenticides placed in tamper-proof containers or applied directly into rat burrows or inaccessible areas, containerized insect baits, and certain other types of insecticides such as boric acid, silica, and diatomaceous earth. The New York City Department of Health and Mental Hygiene (DOHMH), under Local Law 37 authorization, further waived from prohibition the use of all insecticide gels containing the ingredients fipronil and hydramethylnon due to their effectiveness and low potential for human exposure. In addition, Local Law 37 empowered DOHMH to consider and grant requests for waivers from prohibition on a case-by-case basis. DOHMH maintains a webpage on Local Law 37 at <http://nyc.gov/health/ll37> that includes a list of all waivers granted to agencies.

In October, 2007 New York City enacted Local Law 54 which requires City agencies to report their pesticide use to DOHMH, and for DOHMH to issue a summary report to the City Council and the Mayor. This is the fourth annual summary report and fulfills these requirements. City agencies have made significant improvements since the enactment of Local Law 37 to the quality and delivery of pesticide use data. In 2006, just three agencies provided data in an electronic format that enabled data to be summarized. In 2011, Thirty one agencies reported electronic data with two agencies reporting no applications made.

II. SOURCES OF PESTICIDE USE DATA

New York City agencies are required to report to DOHMH their pesticide use by February 1 for the preceding calendar year. This report summarizes data received by the Department for pesticides applied during calendar year 2011. All reporting New York City agencies and their contractors provided data to DOHMH in electronic format.

DOHMH launched and hosts an electronic reporting tool, the New York Pesticide Use Reporting System (NYCPURS) that all agencies, contractors and licensed pest control applicators can register to use. In August 2008, DOHMH launched the import function of NYCPURS permitting importation of data maintained by other electronic systems and since then more agencies and their contractors have used this system.

Source data for each pesticide application includes the product name, Environmental Protection Agency (EPA) registration number, the quantity used (expressed as either weight or volume), the method of application, and the date and location the product was applied. DOHMH utilizes the EPA's pesticide information system to link these data - by registration number - to determine a product's pesticide type and class, toxicity score, and its class and active ingredients. In addition, we linked these data to the EPA Office of Pesticide Programs' List of Chemicals Evaluated for Carcinogenic Potential and the State of California's List of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity, both downloadable at <http://nyc.gov/health/ll37>.

III. METHODS AND LIMITATIONS

Data in a variety of electronic formats were imported into a single database, where it was checked for quality, accuracy and validity. Weight and volumetric units were standardized to pounds and gallons, respectively. Products sold in solid form will primarily be reported by weight and liquids primarily by volume. Each record of data was assigned an agency identifier corresponding to the source agency. Data were analyzed using SQL, Excel and Access. We analyzed data by pesticide type and class, and report total numbers, pounds and gallons of applications for New York City, and by agency on whose behalf the pesticides were applied.

Where DOHMH was able to evaluate the completeness of these records, it is reported by agency, below. It is still not possible to fully determine whether each agency was able to report each pesticide application. Many agencies depend upon contractors to maintain records of pesticides applied, and may not be certain that the contractors have fully complied with Local Law 37 reporting requirements. There are some limitations in the data:

- The formats used were more streamlined for 2011 and we were able to capture more information pertaining to the target organisms of the pesticides applied by agencies.
- Staff and contractor turnover has led to difficulty maintaining dependable and timely reporting from some agencies.
- Reporting errors, especially in reporting the incorrect units, can greatly skew the data. This is seen most frequently in the use of gallons and grams. Many reporting errors for 2011 were caught and corrected.
- Year to year variations in agency pesticide use can be due to a number of factors including but not limited to changes in practice, budgets and the incidence in actual pest problems.

Despite the above mentioned limitations, the data being captured continues to improve over previous years as more agencies and their contractors are using NYCPURS. We expect to see further improvements in the data over the next year as more agencies fully adopt electronic recordkeeping, migrating existing electronic or paper systems to the NYCPURS system developed by DOHMH for electronic recordkeeping. Additional information about NYCPURS is available at <http://nyc.gov/health/1137>.

IV. PESTICIDE USE FINDINGS

A. TYPES OF PESTICIDES USED BY AGENCIES

Four main types of pesticides were applied by agencies: rodenticides (products used to kill rodents); insecticides (to kill insects); herbicides (to kill plants) and fungicides (to kill molds and other fungi).

Rodenticides

Most rodenticides act as anticoagulants and all are acutely toxic if ingested in sufficient dosages. Common rodenticide active ingredients are bromodiolone, diphacinone, brodifacoum, zinc phosphide and warfarin. Some common rodenticide products used by agencies in 2011 were: Contrac All-Weather Blox®, Generation Mini Blocks®, Weatherblok Bait with Bitrex® and Ditrac All-Weather Blox®.

In 2011, a total of 33,022 pounds of rodenticides were applied by City agencies, accounting for 26.7% by weight of all pesticides applied, and 51.4% by weight when excluding WNV larvacides. (Table 1)

Insecticides

A total of 2,131 gallons and 64,488 pounds of insecticides were applied by New York City in 2011, accounting for 29.1% by volume, and 52.2% by weight of the total applications. Biological insecticides applied to target mosquito larvae account for 91.8% of insecticides by weight. (Table 1) When those products are excluded, 5,314 pounds of insecticides by weight were applied making up 8.3% of solid pesticides applied. Insecticides used by NYC agencies in 2011 were largely comprised of three classes of products; pyrethrins and pyrethroids, organophosphates and carbamates, and “Best Management Practices” products.

Pyrethrins, Pyrethroids, and Synergists

Pyrethrins and pyrethroids are less acutely toxic than the organophosphate and carbamate pesticides they have largely replaced. Accidental poisonings from professional applications are very rare, though personal use of aerosol and fogging product formulations have been associated with acute exposures, poisonings and fires. Some pyrethroids may be respiratory allergens for sensitized people, including asthmatics. Though these chemicals have lower acute toxicity, there

is some emerging concern over the chronic neurotoxicity of pyrethrins, pyrethroids, and their synergists. EPA has classified pyrethrins, their synergists, and several pyrethroids as suspected human carcinogens. Pyrethrins and pyrethroids break down relatively quickly when used outdoors, but persist longer when applied indoors.

Common pyrethroid active ingredients are cypermethrin, cyfluthrin, esfenvalerate, and deltamethrin. Pyrethrin and pyrethroid products used by agencies in 2011 include Whitmere Optem ME PT 600®, Steri-Fab®, Demand CS Insecticide®, Tempo SC Insecticide®, Suspend SC Insecticide® and Speckoz Evercide Esfenvalerate EC®.

Together, pyrethrins and pyrethroids accounted in 2011 for 82.8% of the total insecticides amounts applied by volume and 1.9% by weight, 23.6% by weight when excluding WNV larvicides. These products made up 64.8% of the total number of insecticide applications. There was 27.9% decline in pyrethroids applied by volume 2010 to 2011.

Organophosphates and Carbamates

Organophosphate and carbamate insecticides both function by inhibiting the neurotransmitter cholinesterase. Until EPA banned their use for most indoor applications in 1999 and 2000, organophosphates were the most heavily used class of insecticides. EPA also allowed the registrations for several carbamates to lapse.

The only organophosphate active ingredient used in 2011 was outdoor applications of chlorpyrifos on certain golf courses. The few carbamate active ingredients used in 2011 include propoxur and methomyl used in containerized baits. Organophosphate and carbamate products applied by agencies in 2011 include Anderson Golf Products Insecticide III® and Golden MalrinRF-128 Fly Killer®.

Reports submitted by agencies showed that, in 2011, the use of organophosphates and carbamates accounted for just 4.9% of the total insecticides applied by agencies by volume, and 1.1% by weight, 12.8% by weight excluding WNV larvicides, remaining a very small percentage of the insecticides used by city agencies. These products made up only 0.08% of the total number of insecticide applications.

“Best Management Practices” Insecticides

Several insecticide products have been introduced to the market whose proper use involves little or no potential risks for human exposure but that have been demonstrated to be highly effective at controlling pests. These products include biological pesticides for mosquito control and gels and baits for cockroach and other insect control. These products are the preferred insecticides used by agencies as part of their integrated pest management program and are referred to as “Best Management Practice Insecticide”. A complete list of these products is listed in Appendix 3.

Common active ingredients for these products include boric acid, silica gel, diatomaceous earth, the bacteria *Bacillus sphaericus* and *Bacillus thuringiensis*, hydramethylnon, fipronil, avermectin, and indoxacarb. Some of the products used by agencies for this reporting year were

Maxforce Roach Bait F.05®, Redzone Bait®, Vectobac CG Biological Larvicide Granules®, Vectolex CG Biological Larvicide®, Avert Prescription Treatment TC 93A Bait®, and DuPont Advion Cockroach Gel Bait®.

In 2011 7.3% of the total insecticides applied by volume, and 94.7% by weight, were insecticidal dusts, gels and baits, or biological larvicides. Excluding WNV larvicides, the totals equal 35.1% of insecticide products by weight. These products made up 27.2% of the total number of insecticide applications.

Herbicides

The herbicides used by New York City agencies in 2011 were used primarily for vegetation control in parks and for the maintenance of highways and street medians. The active ingredients most commonly used in 2011 were glyphosate, dinitroanilines, chlorophenoxyacetic acids and ureas. Herbicides were a major contributor of pesticide use by agencies.

A total of 4,003 gallons and 12,566 pounds were applied, accounting for 54.7% of total volume and 10.2% of total weight, 19.5% when excluding WNV larvaciding, of all pesticides used by agencies in 2011. (Table 1)

Glyphosate

The most heavily used herbicides applied as a liquid by agencies were glyphosates in Roundup® products. Glyphosate is a broad-spectrum, non-selective systemic herbicide that can be used throughout the growing season. The active ingredient glyphosate poses little risk of acute poisonings or chronic health effects and has not been shown to be carcinogenic. Glyphosate use has increased as agencies have phased out the use of herbicides prohibited under Local Law 37. In 2011 34.2% of applications of herbicide by volume contained glyphosate, a 40% increase from 2010.

Dinitroaniline

Dinitroaniline-based herbicides, which are often combined with fertilizers, are used early in the growing season as pre-emergents. They are of low acute toxicity to people, but several dinitroanilines are classified by EPA as suspected human carcinogens. Dinitroaniline herbicides break down slowly. Common dinitroaniline active ingredients are pendimethalin, trifluralin, benefin and benfluralin. Common dinitroaniline products used by agencies in 2011 were Lesco Pre-M 3.3 EC Turf Herbicide® and Turf Fertilizer® – Contains Team 0.92%.

Chlorophenoxyacetic/Benzoic Acids

The chlorophenoxyacetic acid herbicides are a family of related chemicals that are often combined in products. EPA classifies one member of this class of pesticides - mecoprop-p – as a suspected carcinogen. Common chlorophenoxyacetic acid active ingredients are 2,4-D, MCPP, mecoprop-p, dicamba and MCPA. Common chlorophenoxyacetic acid products used by agencies in 2011 were Trimec 937 Herbicide® and Cool Power Selective Herbicide®

Ureas

Like dinitroaniline herbicides, urea herbicides are of low acute toxicity, but some may pose certain chronic risks. Classification as a possible human carcinogen varies within the group. Diuron, a urea herbicide among the ten most heavily used herbicides reported by commercial applicators in the private market in the City in 2005, is classified by the EPA as a likely human carcinogen. Sulfonylureas are of low acute toxicity and have been so classified. All urea herbicides are highly persistent. Common Urea active ingredients are Diuron and Siduron. Common urea products used by NYC agencies in 2011 were Dupont Oust Extra Herbicide® and Dupont Escort XP Herbicide®.

Fungicides

Many of the commonly applied fungicides are classified by EPA as suspected carcinogens. The potential for exposure can exist throughout the growing season because many of these fungicides are also persistent, with half-lives measured in months and years. Degradation does not necessarily reduce the hazard, because some fungicides also have highly toxic breakdown products. Fungicides were most commonly applied by NYC on golf courses, and these applications are exempt from Local Law 37 prohibitions.

The active ingredients of fungicides commonly used in NYC in 2011 were chlorothalonil, thiophanate-methyl, PCNB, iprodione and mancozeb. Common fungicide products applied in 2011 include Heritage Fungicide®, Aliette WDG Brand Fungicide®, Lescro Manicure Ultra® and Bayleton 50 Turf and Fore 80WP Rainshield®.

Fungicides make up a smaller portion of the overall pesticide use by agencies, accounting for 14.0% of the total pesticide applied by volume and 10.1% by weight, and 19.5% by weight when excluding WNV larvacides. (Table 1)

B. SUMMARY OF CITYWIDE PESTICIDE USE

Pesticide use can be measured and compared in a number of ways. Throughout the remainder of this report, we describe the frequency with which pesticides are applied, as well as the quantity of pesticides applied. Quantities for liquid applications are measured as volume in gallons. Quantities for solid applications are measured as weight in pounds. Pesticides were applied a total of 149,278 times by New York City in 2011. The pesticides applied most frequently by New York City were insecticides. Insecticides were the most heavily used in terms of weight and herbicides in terms of volume. In 2011, 91.8% of the insecticides reported by weight were bacterial products designed to kill mosquito larvae in stagnant waters, away from human contact. If we exclude these products, which were used as part of the West Nile Virus control program then 8.3% of the total pesticide by weight would be due to insecticides. The majority of rodenticide applied by the City of New York is placed directly into rat burrows and poses little risk of exposure to the public. Table 1, below, summarizes these findings. This table, as all others that follow, is sorted in order of descending number of applications.

Table 1. Total Applications Reported Applied by NYC Agencies in 2011, by Pesticide Type

Pesticide Type	Volume		Weight			Times Applied	
	Gallons	% of Total	Pounds	% of Total	% wo WNV	Number	% of Total
Rodenticide	100.28	1.4%	33,021.99	26.7%	51.3%	55,365	37.1%
Insecticide	2,131.98	29.1%	64,488.15	52.2%	8.3%	87,297	58.5%
Herbicide	4,002.95	54.7%	12,566.23	10.2%	19.5%	2,820	1.9%
Fungicide	1,028.33	14.0%	12,513.07	10.1%	19.5%	714	0.5%
Other	60.79	0.8%	894.85	0.7%	1.4%	3,085	2.1%
Totals:	7,324		123,484			149,281	

Table 2, below lists the ten most frequently used products used for each pesticide type on New York City owned or leased property in 2011. For each, we list the total volume, weight and number of applications, as well as the active ingredient(s), the EPA toxicity category, whether the product is considered by EPA a known, possible or suspect carcinogen, and whether the product is listed by the State of California as a reproductive hazard. For this and subsequent product tables, the toxicity category refers to the EPA's assigned label warning to indicate the degree of acute toxicity from oral, dermal and inhalation exposures on a scale from 1 to 4. Toxicity Category 1 indicates pesticides considered highly toxic and whose label requires the signal word, "Danger". Toxicity Category 2 products are considered moderately toxic and product labels carry the word "Warning" Toxicity Category 3 products are considered to be slightly toxic while Toxicity 4 products are considered relatively non-toxic. Both toxicity categories 3 and 4 carry the signal word "Caution" A complete list of products used by New York City by pesticide class is included in Appendix 1 to this report.

Table 2. Ten Most Frequently Applied Pesticide Products by NYC Agencies in 2011 by Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.48	11,453.25	17,757	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	11.42	6,998.31	11,032	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.03	2,534.43	7,177	Difethialone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	3,463.62	5,860	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	4,386.88	4,498	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	30.22	997.91	2,512	Difethialone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	986.96	1,975	Brodifacoum	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	87.77	1,068	Zinc phosphide	1	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	16.92	290.13	463	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.25	572.70	399	Diphacinone	2	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	468.60	10.77	33,776	Deltamethrin	3	NO	NO
397-13	STERI-FAB	823.34	52.91	7,094	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	125.08	11.81	7,080	Cyfluthrin	3	NO	NO
432-1318	MERIT 75 WSP	0.00	733.11	4,710	Imidacloprid	3	NO	NO
64405-2	REDZONE BAIT	1.11	937.44	4,700	Boric acid	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	2.52	182.77	4,480	Indoxacarb	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTICIDE	16.53	0.00	3,463	Bifenthrin	3	YES	NO
73049-429	V60035 CG	0.00	1,352.56	3,203	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	116.91	184.85	2,258	Cyfluthrin, beta	3	NO	NO
432-1259	PRODUCT: RBF5	0.85	149.94	1,891	Fipronil	3	YES	NO
Herbicides								
62719-556	ACCORD XRT II	652.06	6.56	605	Glyphosate, dimethylammonium salt	3	NO	NO
62719-527	GARLON 4 ULTRA	2,140.93	1.13	345	Triclopyr	2	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.05	33.35	274	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	67.37	0.00	257	Dicamba, diglycolamine salt	3	NO	NO
62719-176	PATHFINDER II	193.73	0.00	221	Triclopyr, butoxyethyl ester	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
524-475	ROUNDUP ULTRA HERBICIDE	422.31	75.46	214	Glyphosate, isopropylamine salt	3	NO	NO
524-579	ROUNDUP PROMAX	137.23	24.38	213	Glyphosate, potassium salt	3	NO	NO
100-937	PRIMO MAXX	29.55	242.83	125	Trinexapac-ethyl	3	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	28.77	0.00	74	Pendimethalin	3	YES	NO
62719-324	GLYPRO	10.28	0.00	58	Glyphosate, isopropylamine salt	3	NO	NO
Fungicides								
60063-3	LESCO MANICURE ULTRA	0.14	1,445.09	51	Chlorothalonil	2	YES	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	1,627.40	36	Chlorothalonil	1	YES	NO
100-1093	HERITAGE FUNGICIDE	0.00	57.49	36	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	26.14	0.00	35	Hydrogen peroxide	1	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	61.86	0.00	26	Propamocarb hydrochloride	3	NO	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	187.41	0.00	24	Bacillus subtilis GBO3	3	NO	NO
100-796	SUBDUE MAXX	49.61	68.25	23	Mefenoxam	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	59.67	57.44	22	Propiconazole	2	YES	NO
66222-149	ARMOR TECH CLT 825	0.00	1,236.00	22	Chlorothalonil	2	YES	NO
432-890	LESCO PRODIGY SIGNATURE	0.34	753.50	20	Fosetyl-Al	3	NO	NO
Other								
2724-421	ZOECON RF-292 BRIQUET	0	786.1270535	2520	S-Methoprene	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	4.378296875	1.640625	320	(7S)-Hydroprene	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	14.62067986	0.00289467	173	(7S)-Hydroprene	3	NO	NO
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	19.5	0	15	Copper oxide (ous)	2	NO	NO
81117-1	RO-PEL ANIMAL & RODENT REPELLENT	5.828125	0	15	Benzyl-diethyl [(2,6-xylyl-carbamoyl)methyl] ammonium saccharide; Thymol	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
71096-7	ULTRA FINE OIL	2.4258262 36	0	11	Metaldehyde	3	NO	NO
59807-4	HORMODIN 1	0	0.3968320 72	8	IBA	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0	54	7	Fox urine	3	NO	NO
67356-1	DEER-OFF DEER REPELLANT CONCENTRATE	0.95	0	3	Capsicum oleoresin; Garlic; Putrescent whole egg solids	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.0055476 13	0	3	Capsicum oleoresin	3	NO	NO

C. CHANGES IN PESTICIDE USE

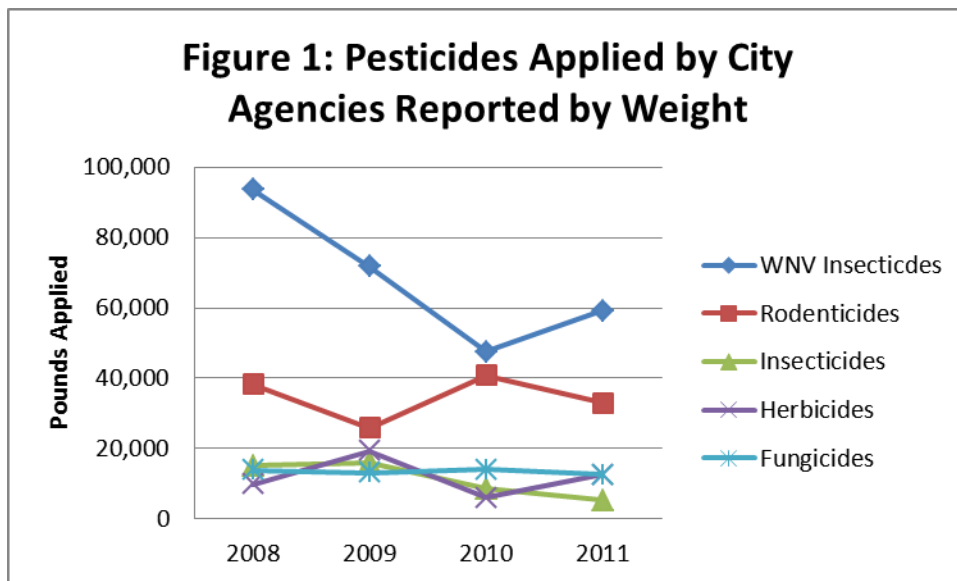
The level of completeness of agency pesticide reporting has improved dramatically over the past four years. Having a sufficiently complete record of pesticide applications by the City of New York and its contractors has now made it possible for a year to year comparison of trends in pesticide use by city agencies. Some of these trends have used target pest to stratify the application amounts. A complete listing of application amounts by target pest is listed in Table 3.

Table 3: Complete listing of pesticide applications by New York City Agencies by Target Pest, 2011

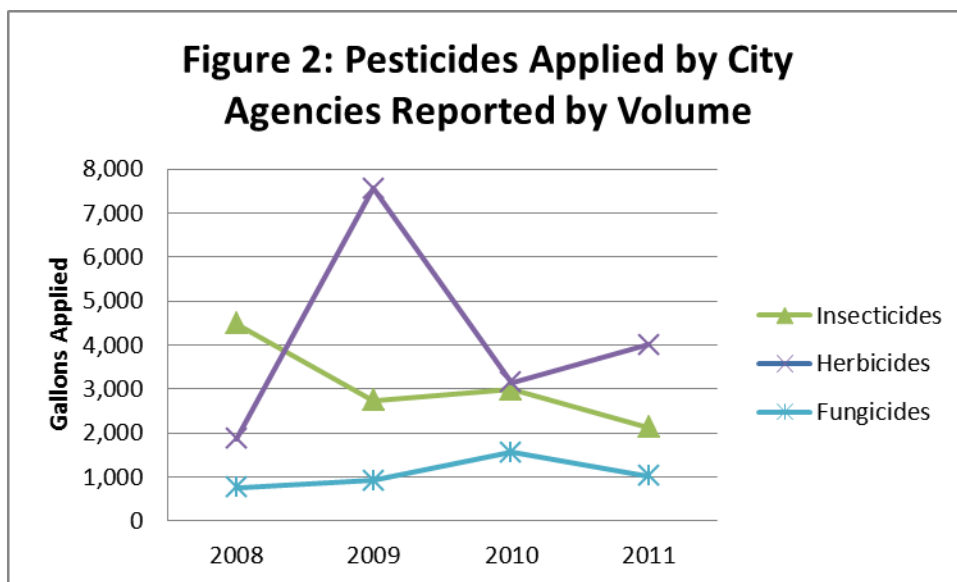
Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Roaches	1,062	3,435	55,581	37%
Rats	17	19,822	30,084	20%
Mice	133	10,963	24,501	16%
Bedbugs	685	55	12,692	9%
Mosquitoes	1	60,790	8,161	5%
Asian Longhorned Beetle	5	689	4,820	3%
Other Crawling Insects	17	23	3,348	2%
Weeds, vines, or grasses	4,003	12,566	2,819	2%
Ants	33	73	2,328	2%
Other Rodents	0	874	1,965	1%
Flying insects	81	48	767	1%
Fungal Disease or Infestation	1,028	12,513	714	0%
Other Pests / Missing	258	1,633	1,501	1%
Totals:	7,324	123,484	149,281	

Figures 1 and 2 show trends from 2008 through 2011 in use of pesticides by city agencies by type of target pest, with products reported by weight and volume respectively. In Figure 1, WNV program larvicides are charted separately from other insecticides because WNV larvicides

are a large proportion of city insecticide use and because year to year variation in larvicide use is more weather dependent than use of other insecticides. Non-WNV insecticide use has generally been declining, while fungicides reported by weight have remained very consistent from year to year and consist almost exclusively of fungicides applied to turf on city golf courses.



Rodenticides and WNV larvicides are not included in figure 2 as the products are almost exclusively solid formulations.



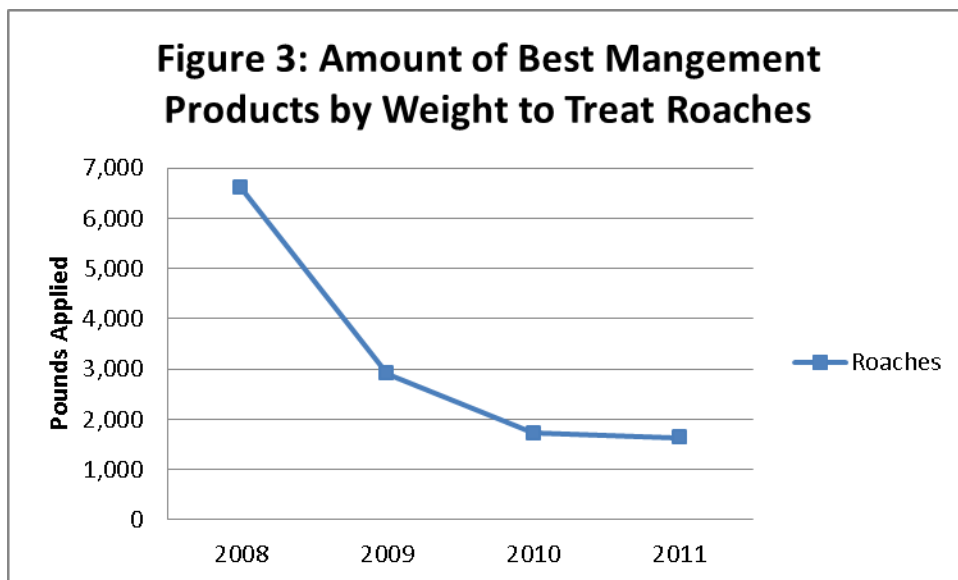
In 2011 herbicides reported by volume increased by 27% (Figure 2) mainly due to 40% increase in the amount of glyphosate applied by volume. The high volume of herbicide (mostly glyphosate) used in 2009 is due in part to variable weather conditions more conducive to weed

growth and large discreet projects by the Parks department to control invasive species after previous years of delayed maintenance in remote, often wooded, parkland.

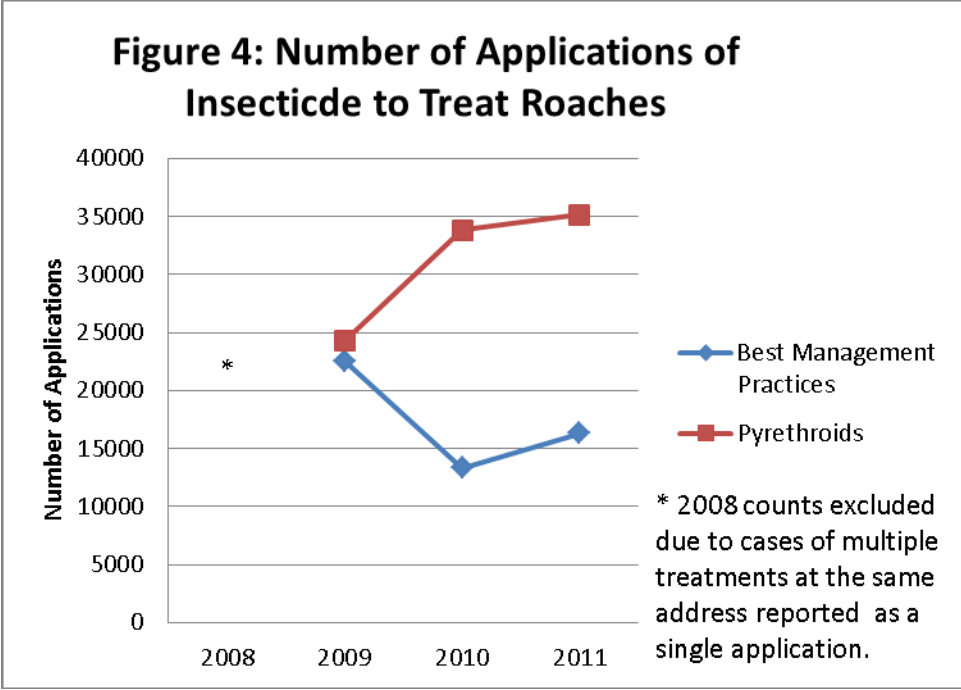
Use of spray formulations vs. Best Management Practices

From 2008 to 2011 there was a 52% decrease in use of insecticides reported by volume, with most of the change occurring between 2008 and 2009 (Figure 2). From 2008 to 2011 there was also a drop of 37% by weight in WNV larvicides.

By looking only at applications for roaches and not bed bugs or other pests a more consistent trend is observed, especially for best practice products. There was a consistent reduction in these “Best Management Practices” products to combat roaches with a 41% decrease in amount reported for roaches from 2009 to 2010 and a further decline in amount reported from 2010 to 2011 of 5% (Figure 3). From 2008 to 2009 a steep 56% decrease in weight was due to a large quantity of insecticide bait traps applied by the NYC Housing Authority (NYCHA) in 2008.

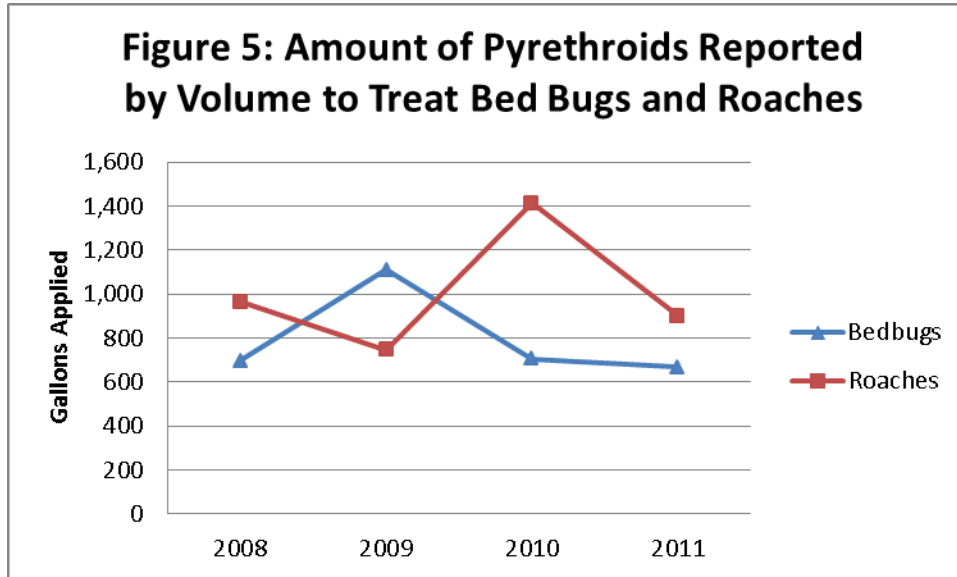


By looking at the number of applications reported by either weight or volume (Figure 4), an even clearer picture appears to suggest more applications are being done with pyrethroids than with “Best Management Products” in recent years. These trends may be the result of long term improvement in persistent pest problems through more effective control by “Best Mangement Products”, or a move back to residual spray pyrethroids for roach control. Further investigations would be needed to detertmine the cause of these changes.



Bed Bugs vs. Roaches

Looking at pyrethroid spray products by volume targeting roaches, the use of these products increased by 89% from 2009 to 2010 and then declined by 36% from 2010 to 2011 (Figure 5). Figure 5 also shows the amount in gallons of pyrethroids used by city agencies to treat bed bugs. There was a 5% reduction from 2010 to 2011 by volume after a 36% decline from 2009 to 2010 of pyrethroid pesticides reported by volume used to treat for bed bugs (Figure 5). The volume of pyrethroids used to treat roaches increased in 2010 mainly due to a higher proportion of applications with higher application rates (quantity used per application) during that year by NYCHA and the Department of Parks and Recreation. The volume of pyrethroids for roaches decreased from 2010-2011 (Figure 5), while the number of applications has continued to increase (Figure 4). Citywide, 9% of all pesticide application and 15% of all insecticide application were to treat bed bugs (Table 3 and Table 1).



Rodents

Rodenticide use has fluctuated year to year with no clear trend. Year to year changes are due in part to the timing of neighborhood rat indexing activity.

Mosquitoes

The DOHMH MNV Vector Control program applied 59,174 pounds of larvicide and 700 pounds of adulticide in 2011. This was a 24% increase in larvicide reported by weight from 2010 (Figure 1). This is the first increase after declining amounts since 2008. A reduction in the number of aerial applications contributed to the 49% decline in amounts applied between 2008 and 2010. The amount of adulticide required to be applied by DOHMH has been quite variable from year to year depending on the weather and severity of mosquito populations around the city. However, the amount of adulticide per application has remained very consistent (data not shown).

D. SUMMARY OF AGENCIES' PESTICIDE USE

For each reporting agency, we summarize below total pesticide use by pesticide type, followed by a listing of pesticide products used and their total use by reporting City agencies.

Administration for Children's Services

The New York City Administration for Children's Services (ACS) provides for the protection of New York City's children from abuse and neglect. Along with their community partners, Children's Services provides neighborhood-based services to help ensure children grow up in safe, permanent homes with strong families. The agency contracts for pest management services. No data was received for ACS in 2011.

Aging

The Department for the Aging (DFTA) promotes, administers and coordinates the development and provision of services for older New Yorkers to help them maintain their independence and participation in their communities. It contracts with non-profit senior service providers to administer 76 different city-owned and city-leased sites, 33 of which engage in food preparation or storage. These facilities are privately operated and contract individually with private vendors for pest control to address typical structural urban pest issues, such as roaches, rodents, and flies. Pesticide use arranged by privately operated facilities by their subcontractors is not required to be reported and is not included in this report, which includes only pest management services contracted directly by DFTA. Table 4 summarizes pesticide use by pesticide type. Table 5 lists all pesticide products used by DFTA in 2011.

Table 4: Types of Pesticides Used by DFTA in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	1.0	28.6%	1	25.0%
Insecticide	0.0	0.0%	2.5	71.4%	3	75.0%
Totals	0.0		3.5		4	

Table 5: Pesticide Products Used by DFTA in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1.00	1	Bromadiolone	3	NO	NO
Insecticides								
499-470	WHITMIRE MICRO-GEN TC 198	0.00	1.06	1	Cyfluthrin	3	NO	NO
499-290	WHITMIRE PT 565 WB PYRETHRUM INSECT FOGGER	0.00	1.06	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	0.38	1	Hydramethylnon	3	YES	YES

Board of Elections

The Board of Elections is the administrative body that oversees elections through its staff at its main and five borough offices. The agency contracts for pest management services. No data was received for BOE in 2011.

Brooklyn Public Libraries

The Brooklyn Public Library (BPL) serves Brooklyn's 2.5 million residents, offering thousands of public programs, millions of books and use of more than 850 free Internet-accessible computers at its 66 locations. Contractors are hired for pest management as needed and the major pest infestations are roaches and mice. Table 6 summarizes pesticide use by pesticide type. Table 7 lists all pesticide products used by BPL in 2011.

Table 6: Types of Pesticides Used by BPL in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	81.0	80.6%	344	32.0%
Insecticide	10.1	100.0%	19.5	19.4%	732	68.0%
Totals	10.1		100.5		1,076	

Table 7: Pesticide Products Used by BPL in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	79.90	340	Difethialone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	1.13	4	Chlorophacinone	2	NO	NO
Insecticides								
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	15.58	227	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	1.11	0.00	194	Deltamethrin	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	1.34	0.00	170	Esfenvalerate	3	NO	NO
352-746	DUPONT ADVION ANT GEL	0.00	3.90	112	Indoxacarb	3	NO	NO
9444-217	CB INSECTICIDE WITH DELTAMETHRIN	7.69	0.00	27	Deltamethrin	3	NO	NO
279-3081	CYNOFF EC INSECTICIDE	0.01	0.00	2	Cypermethrin, beta	3	YES	NO

Chief Medical Examiner

The Office of Chief Medical Examiner (OCME) is responsible for investigating deaths in unusual circumstances, where an application for cremation is made, provides additional forensic services to support criminal investigations and manages all functions of the City mortuary. The agency contracts for pest management services. No data was received for OCME in 2011.

City University of New York

The City University of New York is the nation's largest urban public university and is comprised of 23 institutions. The University serves more than 260,000 degree-credit students and 273,000 adult, continuing and professional education students. Individual institutions contracts for pest control services through private vendors. The data reported is information received from

13 colleges, Borough of Manhattan Community College, Bronx Community College, City College, College of Technology, The Graduate Center, Hostos Community College, John Jay College, Kingsborough Community College, La Guardia Community College, Lehman College, Medgar Evers College, Queens Borough Community College, and York College. Table 8 summarizes pesticide use by pesticide type. Table 9 lists all pesticide products used by CUNY in 2011.

Table 8: Types of Pesticides Used by CUNY in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	480.8	10.4%	482	27.5%
Insecticide	20.1	12.4%	89.8	1.9%	1207	69.0%
Herbicide	142.0	87.6%	4,000.0	86.3%	31	1.8%
Fungicide	0.0	0.0%	64.0	1.4%	9	0.5%
Other	0.0	0.0%	1.0	0.0%	21	1.2%
Totals	162.1		4,635.5		1,750	

Table 9: Pesticide Products Used by CUNY in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	218.01	145	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	168.39	111	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	4.21	96	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	58.52	89	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	9.84	15	Difethialone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	3.24	14	Difethialone	3	NO	NO
12455-61	LIQUA-TOX II	0.00	0.00	3	Diphacinone, sodium salt	3	NO	NO
12455-82	CONTRAC SUPER SIZE BLOCKS	0.00	8.50	3	Bromadiolone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	2.00	2	Chlorophacinone	2	NO	NO
12455-90	FINAL RODENTICIDE	0.00	0.55	2	Brodifacoum	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	6.25	1	Brodifacoum	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	1.25	1	Brodifacoum	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	1.27	0.19	233	Deltamethrin	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	9.39	158	Indoxacarb	3	NO	NO
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.00	13.91	144	Avermectin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	0.00	4.41	142	Esfenvalerate	3	NO	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	1.35	0.68	117	Hydramethylnon	3	YES	YES
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	6.00	96	Esfenvalerate	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	10.13	47	Hydramethylnon	3	YES	YES
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTICIDE	0.21	0.00	43	Bifenthrin	3	YES	NO
352-746	DUPONT ADVION ANT GEL	0.00	2.40	33	Indoxacarb	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	0.01	0.86	28	Cyfluthrin, beta	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	21.03	26	Boric acid	3	NO	NO
64405-2	REDZONE BAIT	0.00	8.67	24	Boric acid	3	NO	NO
397-13	STERI-FAB	14.44	0.00	15	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
67425-14	ECOPCO ACU	0.28	5.88	9	Phenylethyl propionate	3	NO	NO
499-444	WHITMIRE MICRO-GEN TC 164	0.16	0.00	9	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.12	9	Fipronil	3	YES	NO
73079-5	INTICE ROACH BAIT	0.00	2.08	9	Boric acid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.92	8	Fipronil	3	YES	NO
432-763	SUSPEND SC	0.47	0.00	7	Deltamethrin	3	NO	NO
499-492	TC 228	0.11	0.00	5	Borax	3	NO	NO
100-1260	OPTIGARD ANT GEL BAIT	0.04	0.00	4	Thiamethoxam	3	YES	NO
499-405	WHITMIRE PT 1920 TOTAL RELEASE INSECTICIDE	0.05	0.00	3	Cyfluthrin	2	NO	NO
73079-1	INTICE SWEET ANT GEL	0.00	0.69	3	Boric acid	3	NO	NO
67425-14	ECOPCO ACU CONTACT INSECTICIDE	0.00	0.38	3	Phenylethyl propionate	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
241-392	PHANTOM TERMITICIDE-INSECTICIDE	1.23	0.00	2	Chlorfenapyr	3	YES	NO
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.04	0.00	2	Disodium octaborate tetrahydrate	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.01	0.00	2	Esfenvalerate	3	NO	NO
82074-1	MYCOTROL ES	0.00	0.00	2	Beauveria bassiana GHA	3	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.49	2	Avermectin	3	NO	NO
432-1373	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	0.38	2	Cyfluthrin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.17	2	Fipronil	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.14	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.00	0.04	2	Fipronil	3	YES	NO
68539-4	T-22 WP BIOLOGICAL FUNGICIDE	0.00	0.01	2	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.31	0.00	1	Pyrethrins; Piperonyl butoxide	3	YES	NO
499-304	WHITMIRE OPTEM ME PT 600	0.06	0.00	1	Cyfluthrin	3	NO	NO
73049-11	VECTOBAC - AS	0.03	0.00	1	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO
2724-484	RF 9707 AEROSOL	0.02	0.00	1	(7S)-Hydroprene	3	NO	NO
499-520	WHITMIRE MICRO-GEN TC 252	0.00	0.00	1	Pyrethrins	3	YES	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	0.31	1	Methomyl; (Z)-9-Tricosene	3	NO	NO
499-507	TC 248	0.00	0.12	1	Dinotefuran	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.09	1	Hydramethylnon	3	YES	YES
3095-72	PIC ANT KILLING SYSTEMS	0.00	0.03	1	Borax; Boric acid	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	0.00	0.00	1	Cyfluthrin, beta	3	NO	NO
499-509	WHITMIRE DE 1606	0.00	0.22	1	Diatomaceous earth	3	NO	NO
62719-453	RECRUIT IV	0.00	0.08	1	Noviflumuron	3	NO	NO

Herbicides

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
524-475	ROUNDUP ULTRA HERBICIDE	6.40	0.00	9	Glyphosate, isopropylamine salt	3	NO	NO
228-366	RAZOR HERBICIDE	0.86	0.00	8	Glyphosate, isopropylamine salt	3	NO	NO
524-579	ROUNDUP PROMAX	25.66	0.00	5	Glyphosate, potassium salt	3	NO	NO
62719-487	GREEN YARD CRABGRASS PREVENTER WITH 0.08% DIMENSION	0.00	4000.00	4	Dithiopyr	3	NO	NO
524-535	MON 78365 HERBICIDE	100.00	0.00	1	Diquat dibromide; Glyphosate, monoammonium salt	3	NO	NO
228-413	GREENYARD PROFESSIONAL WEED & FEED WITH VIPER	4.57	0.00	1	Mecoprop-P	3	YES	NO
33955-454	GORDON'S CHEMICALS VEGETATION KILLER	3.00	0.00	1	Prometon	1	NO	NO
33955-454	ACME VEGETATION KILLER	1.00	0.00	1	Prometon	1	NO	NO
72155-19	TRICLOPYR 8.8% CONCENTRATE HERBICIDE	0.50	0.00	1	Triclopyr, triethylamine salt	3	NO	NO
Fungicides								
8622-56	BIOBROM C-100G	0.00	64.00	9	2,2-dibromo-3-nitrilopropionamide	1	NO	NO
Other								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	1.00	21	(7S)-Hydroprene	3	NO	NO

Citywide Administrative Services

The Department of Citywide Administrative Services (DCAS) supports government recruitment, oversees surplus city-owned property and the commercial real estate portfolio for the City and provides supplies and equipment. Of the 14,000 city-owned lots, DCAS is directly responsible for the management of approximately 2,400 of these properties. DCAS cleans and maintains 53 DCAS-managed buildings with 13,365,398 square feet of space throughout the city. These include City Hall, the four Borough Halls, the Manhattan and Brooklyn Municipal Buildings, and all state and municipal court buildings. DCAS managed the city-wide contract for pest management services which city agencies used until 2010 when it ended. DCAS since then has contracted for pest management services only for its managed facilities. Beginning May 1, 2012 DCAS will once again be managing a new city-wide contract which agencies will again be able to buy into. Several agencies are housed in DCAS managed buildings and the report submitted reflects these applications. Table 10 summarizes pesticide use by pesticide type. Table 11 lists all pesticide products used by DCAS in 2011.

Table 10: Types of Pesticides Used by DCAS in 2011

Volume	Weight	Times Applied
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Pesticide Type	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.1	0.3%	73.9	94.9%	135	26.6%
Insecticide	21.5	92.3%	4.0	5.1%	289	57.0%
Other	1.7	7.4%	0.0	0.0%	83	16.4%
Totals	23.3		77.9		507	

Table 11: Pesticide Products Used by DCAS in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-80	ALL-WEATHER DI-BLOX	0.07	55.75	109	Diphacinone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	18.13	26	Difethialone	3	NO	NO
Insecticides								
499-507	TC 248	6.00	3.91	106	Dinotefuran	3	NO	NO
432-763	SUSPEND SC	10.57	0.00	92	Deltamethrin	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	0.01	1	Hydramethylnon	3	YES	YES
67425-14	ECOPCO ACU CONTACT INSECTICIDE	4.64	0.00	84	Phenylethyl propionate	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.25	0.00	3	Imidacloprid	3	NO	NO
62719-168	SUSPEND 30W	0.01	0.00	1	Esfenvalerate	2	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	0.06	1	Boric acid	3	NO	NO
499-509	WHITMIRE DE 1606	0.00	0.01	1	Diatomaceous earth	3	NO	NO
Other								
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	1.73	0.00	83	(7S)-Hydroprene	3	NO	NO

Consumer Affairs

The Department of Consumer Affairs (DCA) is responsible for enforcing the city's consumer protection laws, licensing businesses, dealing with consumer complaints, and participating in consumer education. It ensures that New York City's consumers and businesses benefit from a fair and vibrant marketplace. DCA contracts for pest management services for its managed buildings. Table 12 summarizes pesticide use by pesticide type. Table 13 lists all pesticide products used by DCA in 2011.

Table 12: Types of Pesticides Used by DCA in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Insecticide	0.1875	100.0%	0	0.0%	2	100.0%
Totals	0.2		0.0		2	

Table 13: Pesticide Products Used by DCA in 2011

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Insecticides								
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.19	0.00	2	Hydramethylnon	3	YES	YES

Corrections

The Department of Corrections (DOC) is responsible for New York City's inmates, housing the majority of them on Riker's Island. It oversees 44 facilities, including ten correctional facilities that have food preparation areas, laundries, residential areas for inmates, and office space. DOC does not employ contractors for pest management purposes, but relies on in-house pest control professionals and works with DCAS and HHC in maintaining certain facilities. Table 14 summarizes pesticide use by pesticide type. Table 15 lists all pesticide products used by DOC in 2011.

Table 14: Types of Pesticides Used by DOC in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	3.0	4.6%	168.3	50.6%	297	13.7%
Insecticide	62.2	95.4%	164.1	49.4%	1,864	86.3%
Totals	65.2		332.4		2,161	

Table 15: Pesticide Products Used by DOC in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-79	CONTRAC ALL-WEATHER BLOX	3.00	79.41	137	Bromadiolone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	34.78	68	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	23.75	35	Brodifacoum	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	5.40	27	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	8.63	15	Diphacinone	2	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	1.38	5	Difethialone	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	12.67	4	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	1.31	3	Difethialone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	0.44	2	Chlorophacinone	2	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	0.56	1	Bromadiolone	3	NO	NO
Insecticides								
432-763	SUSPEND SC	55.50	40.08	937	Deltamethrin	3	NO	NO
432-1259	PRODUCT: RBF5	0.59	20.46	238	Fipronil	3	YES	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.00	7.69	175	Hydramethylnon	3	YES	YES
432-1363	TEMPO SC INSECTICIDE	3.83	0.00	154	Cyfluthrin, beta	3	NO	NO
64405-2	REDZONE BAIT	0.00	49.54	115	Boric acid	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	0.47	1.99	51	Cyfluthrin, beta	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	2.45	36	Fipronil	3	YES	NO
499-492	TC 228	0.00	3.13	28	Borax	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.36	0.00	26	Esfenvalerate	3	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	6.56	20	Avermectin	3	NO	NO
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.00	1.79	16	Avermectin	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.74	0.00	15	Cyhalothrin, lambda	3	NO	NO
432-1262	MAXFORCE IBH10	0.00	2.87	15	Hydramethylnon	3	YES	YES
279-3385	DRAX ANT KILL GEL	0.00	0.73	11	Boric acid	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	0.69	6	Boric acid	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	1.38	5	Boric acid	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.18	5	Hydramethylnon	3	YES	YES
53871-3	STIMUKIL FLY BAIT	0.00	20.15	4	(Z)-9-Tricosene; Methomyl	3	NO	NO
397-13	STERI-FAB	0.75	0.00	2	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
9444-129	BICK'S ROACH KIL	0.00	0.25	2	Boric acid	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.00	4.00	1	Fipronil	3	YES	NO
9444-129	SPECTRACIDEPRO 99% BORIC ACID DUST	0.00	0.13	1	Boric acid	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	0.03	1	Avermectin	3	NO	NO

Education

The Department of Education (DOE) provides primary and secondary education to over 1 million pre-kindergarten to grade 12 students. Pest management at all New York City public schools is overseen by their Pest Control Unit. There are nineteen in-house licensed pest management professionals that conduct monthly monitoring inspections and respond to pest problems for approximately 900 schools. DOE contracts with several pest management companies to additionally provide services for an additional 300 schools. Table 16 summarizes pesticide use by pesticide type. Table 17 lists all pesticide products used by DOE in 2011.

Table 16: Types of Pesticides Used by DOE in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	32.4	33.8%	2,437.3	71.2%	6441	37.5%
Insecticide	63.6	66.2%	984.2	28.8%	10727	62.5%
Herbicide	0.0	0.0%	0.1	0.0%	1	0.0%
Totals	96.0		3,421.7		17,169	

Table 17: Pesticide Products Used by DOE in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.03	964.32	3545	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	2.38	1276.14	2226	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	30.00	97.80	394	Difethialone	3	NO	NO
82744-2	RATIMOR SOFT BAIT	0.00	53.77	236	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	35.56	24	Brodifacoum	3	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	8.25	11	Bromethalin	3	NO	NO
7173-205	GENERATION PELLETS	0.00	1.35	4	Difethialone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	0.13	1	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Insecticides								
64405-2	REDZONE BAIT	1.11	854.67	4424	Boric acid	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	2.13	73.83	3188	Indoxacarb	3	NO	NO
67425-14	ECOPCO ACU	47.00	4.67	1245	Phenylethyl propionate	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.46	22.60	1229	Fipronil	3	YES	NO
499-507	TC 248	0.00	5.21	300	Dinotefuran	3	NO	NO
2724-484	RF 9707 AEROSOL	5.07	0.00	126	(7S)-Hydroprene	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	1.11	67	Disodium octaborate tetrahydrate	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	5.11	0.00	32	Cyfluthrin	3	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.82	30	Indoxacarb	3	NO	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	0.95	0.00	27	Boric acid	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	1.63	0.00	14	Cyhalothrin, lambda	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	17.92	11	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
73079-10	INVICT (TM) COCKROACH GEL	0.00	0.34	8	Imidacloprid	3	NO	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	0.66	6	Avermectin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.07	6	Fipronil	3	YES	NO
9444-132	MOP UP	0.00	1.19	5	Disodium octaborate tetrahydrate	3	NO	NO
432-1262	MAXFORCE IBH10	0.00	0.34	5	Hydramethylnon	3	YES	YES
499-497	MOTHEREARTH PROCITRDL	0.09	0.75	3	Limonene	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.07	1	Hydramethylnon	3	YES	YES
Herbicides								
352-625	DUPONT CINCH HERBICIDE	0.00	0.13	1	Metolachlor, (S)	3	YES	NO

Environmental Protection

The Department of Environmental Protection (DEP) has over 1,700 facilities upstate and downstate. These include water pollution control plants, well stations, pumping stations, shafts, chambers, reservoirs, aqueducts, tunnels, gate houses, office space, garages, repair shops, maintenance shops, and police precincts within New York City. DEP contracts for some pest control services and employ approximately 20 licensed applicators for upstate reservoir pest control. Table 18 summarizes pesticide use by pesticide type. Table 19 lists all pesticide products used by DEP in 2011.

Table 18: Types of Pesticides Used by DEP in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	31.5	33.6%	182	24.2%
Insecticide	21.8	58.2%	62.2	66.4%	544	72.2%
Herbicide	15.6	41.8%	0.0	0.0%	27	3.6%
Totals	37.4		93.7		753	

Table 19: Pesticide Products Used by DEP in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-218	GENERATION MINI BLOCKS	0.00	26.92	179	Difethialone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	4.50	2	Diphacinone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	0.09	1	Brodifacoum	3	NO	NO
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.16	16.78	241	Avermectin	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	3.98	0.00	129	Deltamethrin	3	NO	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	16.99	0.06	88	Esfenvalerate	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
64405-2	REDZONE BAIT	0.00	21.19	63	Boric acid	3	NO	NO
9688-190	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	0.59	0.00	13	Cyhalothrin, lambda; Prallethrin	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	24.13	9	Bacillus sphaericus	3	NO	NO
149-8	TERRO ANT KILLER II	0.04	0.00	1	Borax	3	NO	NO
Herbicides								
1381-192	CORNERSTONE PLUS	0.76	0.00	12	Glyphosate, isopropylamine salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	8.50	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO
524-343	ROUNDUP CUSTOM HERBICIDE	6.00	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO
67760-49	GLYFOS CONCENTRATE 41% WEED & GRASS KILLER	0.34	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO

Finance

The Department of Finance (DOF) collects City revenues, ensures compliance with City tax and other revenue laws, evaluates all real property in the City, provides a forum for the public to dispute tax and parking violation liability, and maintains property records. The agency contracts for pest management services. No data was received for DOF in 2011.

Fire Department

The Fire Department of New York City (FDNY) is responsible for the protection against fires and fire hazards and providing emergency medical services, technical rescue and response to various biological, chemical and radioactive hazards. It manages some 350 facilities throughout the City and contracts for pest control services. Table 20 summarizes pesticide use by pesticide type. Table 21 lists all pesticide products used by FDNY in 2011.

Table 20: Types of Pesticides Used by FDNY in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	3.8	13.5%	21.8	88.6%	394	31.6%
Insecticide	12.3	43.0%	2.8	11.4%	814	65.4%
Other	12.4	43.5%	0.0	0.0%	37	3.0%
Totals	28.5		24.6		1,245	

Table 21: Pesticide Products Used by FDNY in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-79	CONTRAC ALL-WEATHER BLOX	3.68	11.22	262	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.16	10.60	132	Brodifacoum	3	NO	NO
Insecticides								
67425-14	ECOPCO ACU	9.64	0.06	420	Phenylethyl propionate	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.38	1.47	180	Indoxacarb	3	NO	NO
73079-1	INTICE SWEET ANT GEL	0.06	0.45	74	Boric acid	3	NO	NO
499-384	JOHNSON WAX PROFESSIONAL BRAND BORIC ACID PRESSURI	0.06	0.07	43	Boric acid	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.65	37	Fipronil	3	YES	NO
64405-2	LESCO TRIAD GRANULAR BAIT	0.41	0.06	34	Boric acid	3	NO	NO
397-13	STERI-FAB	0.94	0.00	9	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	0.05	0.01	7	Boric acid	3	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.08	0.01	5	Indoxacarb	3	NO	NO
45385-97	JT EATON INSECT SPRAY	0.66	0.00	4	Deltamethrin	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.00	1	Fipronil	3	YES	NO
Other								
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	12.34	0.00	36	(7S)-Hydroprene	3	NO	NO
84418-1	PIGNX CAULKING GEL	0.08	0.00	1	Capsicum oleoresin	3	NO	NO

Health and Hospitals Corporation

The New York City Health and Hospitals Corporation (HHC) oversees eleven hospitals, six diagnostic and treatment centers, 82 community health and school-based clinics, and five long-term care/specialty hospital and nursing home facilities. Because each facility is managed separately, pest control protocols differ among facilities. A few facilities have pest control

professionals on staff, but the majority relies on outside contractors. Table 22 summarizes pesticide use by pesticide type. Table 23 lists products by pesticide types.

Table 22: Types of Pesticides Used by HHC in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	222.5	54.5%	270	16.2%
Insecticide	251.3	100.0%	179.8	44.0%	1,387	83.3%
Herbicide	0.0	0.0%	5.6	1.4%	1	0.1%
Other	0.0	0.0%	0.6	0.1%	7	0.4%
Totals	251.4		408.5		1,665	

Table 23: Pesticide Products Used by HHC in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-202	MAKI MINI BLOCKS	0.00	107.00	120	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	73.50	67	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	17.35	53	Difethialone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	18.39	17	Brodifacoum	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	2.25	7	Chlorophacinone	2	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	1.94	2	Brodifacoum	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	1.88	2	Bromadiolone	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	0.19	2	Zinc phosphide	1	NO	NO
Insecticides								
279-3384	ROACH KIL COMMERCIAL	0.00	98.05	332	Boric acid	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	21.26	312	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	61.44	0.00	95	Deltamethrin	3	NO	NO
432-772	DELTA DUST	0.00	7.31	80	Deltamethrin	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	72.00	0.00	67	Cyfluthrin, beta	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	73.70	0.00	65	Cyfluthrin, beta	3	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	3.94	55	(7S)-Hydroprene	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	31.71	0.00	39	Cyhalothrin, lambda	3	NO	NO
499-507	TC 248	0.00	0.40	35	Dinotefuran	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	1.77	33	Esfenvalerate	3	NO	NO
2724-375	ALTOSID BRIQUETS	0.00	9.50	24	S-Methoprene	3	NO	NO
499-515	TC 273	0.00	2.97	23	Boric acid	3	NO	NO
352-746	DUPONT ADVION ANT GEL	0.00	0.78	21	Indoxacarb	3	NO	NO
397-13	STERI-FAB	0.00	9.41	20	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
2724-484	RF 9707 AEROSOL	0.00	1.88	18	(7S)-Hydroprene	3	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	1.53	18	Methomyl; (Z)-9- Tricosene	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	2.63	17	Fipronil	3	YES	NO
499-492	TC 228	0.00	0.21	16	Borax	3	NO	NO
1677-191	ECO2000-GR	0.00	5.38	15	Boric acid	3	NO	NO
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	0.05	11	Avermectin	3	NO	NO
1021-1603	NYLAR 10EC	10.15	0.00	9	Pyriproxyfen	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	0.03	0.00	9	Cyfluthrin, beta; Imidacloprid	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.00	1.00	8	Cyfluthrin	3	NO	NO
67425-14	ECOPCO ACU	0.00	0.50	8	Phenylethyl propionate	3	NO	NO
149-8	TERRO ANT KILLER II	0.00	1.00	7	Borax	3	NO	NO
1677-196	ECO 2000-XP FRESHBAIT	0.00	0.96	7	Boric acid	3	NO	NO
2724-357	ZOECON RF-296 COLLAR FOR CATS	0.00	0.47	7	Chlorpyrifos	3	NO	NO
499-470	WHITMIRE MICRO- GEN TC 198	0.00	0.81	6	Cyfluthrin	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.33	6	Fipronil	3	YES	NO
499-496	TC 234	0.00	0.07	4	Avermectin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
352-627	DUPONT ADVION FIRE ANT BAIT	0.00	4.13	3	Indoxacarb	3	NO	NO
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	1.38	3	Propoxur	3	YES	NO
352-776	DUPONT ARILON INSECTICIDE	2.25	0.00	2	Indoxacarb	3	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.83	2	Indoxacarb	3	NO	NO
1677-195	ECO2000-RX FRESHBAIT	0.00	0.26	2	Boric acid	3	NO	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	0.00	2	Avermectin	3	NO	NO
8033-96	TRANSPORT (R) GHP INSECTICIDE	0.05	0.00	1	Acetamiprid; Bifenthrin	3	YES	NO
53871-3	STIMUKIL FLY BAIT	0.00	0.50	1	(Z)-9-Tricosene; Methomyl	3	NO	NO
1021-1424	PYROCID FOGGING CONCENTRATE 7338	0.00	0.31	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	0.13	1	Hydramethylnon	3	YES	YES
499-527	TC 249	0.00	0.06	1	Dinotefuran; Diatomaceous earth	3	NO	NO
499-290	WHITMIRE PT 565 WB PYRETHRUM INSECT FOGGER	0.00	0.03	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
Herbicide								
62719-556	ACCORD XRT II	0.00	5.63	1	Glyphosate, dimethylammonium salt	3	NO	NO
Other								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.02	0.58	7	(7S)-Hydroprene	3	NO	NO

Health and Mental Hygiene

The Department of Health and Mental Hygiene (DOHMH) protects and promotes the health and mental well being of all New Yorkers. The Bureau of Veterinary and Pest Control Services at DOHMH protects the public from animal- and vector-borne diseases and other hazards, including those that result from uncontrolled or unregulated rodents and other animals, and from mosquito-borne pathogens. Two programs, Pest Control Services (PCS) and Vector Surveillance and Control (VSC) have pest management responsibilities. PCS focuses on rodent control – performing inspections, cleanups and treatments of both private and public property.

Currently, PCS employs twenty exterminators to bait properties that have signs of active rodents with rodenticide placed either directly in rat burrows or in tamper resistant bait stations. Pest management in facilities operated by the DOHMH is done through private contractors. Though Local Law 37 requires the reporting of pesticide use on only public property, applications on private property done by PCS are included in Tables 24 and 25. VSC is charged with mosquito management. Table 24 summarizes pesticide use by pesticide type. Table 25 lists all pesticide products used by DOHMH in 2011.

Table 24: Types of Pesticides Used by DOHMH in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	15,491.6	20.6%	24,520	80.8%
Insecticide	0.0	100.0%	59,881.6	79.4%	5,840	19.2%
Totals	0.0		75,373.2		30,360	

Table 25: Pesticide Products Used by DOHMH in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2573.68	6127	Bromadiolone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	3463.62	5860	Brodifacoum	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	3456.67	5174	Bromadiolone	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	4332.75	4372	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	968.45	1943	Brodifacoum	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	236.60	597	Difethialone	3	NO	NO
100-1051	TALON-G RODENTICIDE BAIT PACK PELLETS WITH BITREX	0.00	106.10	238	Brodifacoum	3	NO	NO
100-1052	TALON-G RODENTICIDE PELLETS WITH BITREX	0.00	238.86	107	Brodifacoum	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	22.28	33	Diphacinone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	32.08	31	Bromadiolone	3	NO	NO
56-42	BAIT BLOCK RODENTIICDE WITH PEANUT BUTTER FLAVORIZ	0.00	6.25	18	Diphacinone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	53.30	14	Brodifacoum	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	0.74	5	Diphacinone	2	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	0.18	1	Bromadiolone	3	NO	NO
Insecticides								
73049-429	V60035 CG	0.00	1352.56	3203	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	2347.89	1706	Bacillus sphaericus	3	NO	NO
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	55465.39	577	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
499-507	TC 248	0.00	4.41	212	Dinotefuran	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.37	62	Indoxacarb	3	NO	NO
1021-1688	ANVIL 10+10 ULV	0.00	700.32	40	Phenothrin; Piperonyl butoxide	3	YES	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.62	28	Avermectin	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.05	0.00	4	Deltamethrin	3	NO	NO
432-1262	MAXFORCE IBH10	0.00	0.75	4	Hydramethylnon	3	YES	YES
83362-3	FOURSTAR BRIQUETS	0.00	3.33	3	Bacillus sphaericus; Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	4.97	1	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO

Homeless Services

The Department of Homeless Services (DHS) manages homeless shelters and dormitory facilities across the City. Of these, six are Family Services operated, five provide dormitory facilities for families with children and one facility, Preventative Assistance and Temporary Housing (PATH), is an intake facility. There are five adult facilities which also provide housing

for men. DHS also operates and manages warehouses. Pest management services, which primarily address rodent and cockroach infestations, are provided by an outside contractor. Table 26 summarizes pesticide use by pesticide type. Table 27 lists all pesticide products used by DHS in 2011.

Table 26: Types of Pesticides Used by DHS in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	1,285.9	99.9%	883	39.4%
Insecticide	7.4	100.0%	1.4	0.1%	1357	60.6%
Totals	7.4		1,287.3		2,240	

Table 27: Pesticide Products Used by DHS in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1228.44	763	Bromadiolone	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	5.78	69	Zinc phosphide	1	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	51.69	51	Diphacinone	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	4.58	0.00	927	Deltamethrin	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTICIDE	2.66	0.00	283	Bifenthrin	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.63	73	Fipronil	3	YES	NO
499-467	WHITMIRE AVERT TC 181	0.00	0.65	22	Avermectin	3	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.10	0.00	18	Cyfluthrin	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.07	18	Avermectin	3	NO	NO
397-13	STERI-FAB	0.06	0.00	12	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.04	3	Fipronil	3	YES	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.01	0.00	1	Esfenvalerate	3	NO	NO

Housing Authority

The New York City Housing Authority (NYCHA) manages 2,644 residential buildings and 178,466 apartments, as well as office space and grounds that cover 2,502 acres. NYCHA currently has a staff of some 75 pest management professionals that perform routine inspections and treatments, carry out specialized intensive IPM interventions, apply pesticides, and respond to complaints and requests from other agencies. NYCHA staff members regularly address a range of insect and rodent problems, including interior mice, cockroaches and bedbugs and exterior rats, weeds, and mosquito control. Table 28 summarizes pesticide use by pesticide type. Table 29 lists the products used by NYCHA in 2011.

Table 28: Types of Pesticides Used by NYCHA in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	3.1	0.2%	8,259.1	87.6%	12,548	20.8%
Insecticide	1,309.2	99.1%	415.4	4.4%	44,803	74.4%
Herbicide	4.5	0.3%	0.0	0.0%	9	0.0%
Other	4.8	0.4%	749.9	8.0%	2,843	4.7%
Totals	1,321.6		9,424.5		60,203	

Table 29: Ten Most Frequently Applied Pesticide Products by NYCHA in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.48	3540.26	7106	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1230.30	2618	Difethialone	3	NO	NO
12455-79	CONTRAC ALL- WEATHER BLOX	2.36	2700.53	1896	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.25	560.15	371	Diphacinone	2	NO	NO
7173-208	MAKI RODENTICIDE BAIT PACKS (PELLETS)	0.00	56.74	289	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI- PELLETS WITH BITREX	0.00	74.50	76	Brodifacoum	3	NO	NO
12455-80	DITRAC ALL- WEATHER BLOX	0.00	36.35	58	Diphacinone	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	33.09	55	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
12455-5	DITRAC ALL-WEATHER CAKE	0.00	13.88	29	Diphacinone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	9.43	25	Diphacinone	3	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	3.92	25	Brodifacoum	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	375.58	4.57	26785	Deltamethrin	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	119.91	10.81	7039	Cyfluthrin	3	NO	NO
397-13	STERI-FAB	807.01	43.50	7014	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-1259	PRODUCT: RBF5	0.27	125.00	1348	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	127.67	1022	Fipronil	3	YES	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	31.73	771	Avermectin	3	NO	NO
499-467	WHITMIRE AVERT TC 181	0.00	35.98	532	Avermectin	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	4.20	74	Indoxacarb	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.35	0.00	61	Esfenvalerate	3	NO	NO
9444-217	CB INSECTICIDE WITH DELTAMETHRIN	3.06	0.00	24	Deltamethrin	3	NO	NO
432-763	SUSPEND SC	0.26	0.00	24	Deltamethrin	3	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.08	23	Indoxacarb	3	NO	NO
67425-14	ECOPCO ACU	2.26	0.00	17	Phenylethyl propionate	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.03	0.00	16	Cyhalothrin, lambda	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	2.50	16	Boric acid	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.00	4.45	8	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	0.36	7	Bacillus sphaericus	3	NO	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.00	0.33	5	Hydramethylnon	3	YES	YES
1021-1773	ZPRO ZYY IMPACT RESIDUAL AEROSOL	0.35	0.00	3	Esfenvalerate	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	1.50	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
499-507	TC 248	0.00	0.13	2	Dinotefuran	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.13	2	Fipronil	3	YES	NO
352-746	DUPONT ADVION ANT GEL	0.00	0.05	2	Indoxacarb	3	NO	NO
499-531	TC 267	0.16	0.00	1	Dinotefuran	3	NO	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	0.00	1.13	1	Boric acid	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.19	1	Boric acid	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	0.06	1	(Z)-9-Tricosene; Methomyl	3	NO	NO
352-664	DUPONT ADVION ANT BAIT ARENA	0.00	0.02	1	Indoxacarb	3	NO	NO
72155-83	DYLOX 9.3% INSECT GRANULES	0.00	20.00	1	Trichlorfon	3	YES	NO
Herbicides								
524-517	ACCORD XL HERBICIDE	2.19	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO
9688-265	SPECTRACIDE WEED & GRASS KILLER CONCENTRATE 2	1.33	0.00	1	Fluazifop-P-butyl	2	NO	NO
71995-33	MON 78999 HERBICIDE	1.00	0.00	1	Nonanoic acid	3	NO	NO
Other								
2724-421	ZOECON RF-292 BRIQUET	0.00	749.86	2515	S-Methoprene	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	4.23	0.06	274	(7S)-Hydroprene	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	0.55	0.00	54	(7S)-Hydroprene	3	NO	NO

Housing Preservation and Development

Housing Preservation and Development (HPD) oversees occupied and vacant residential and commercial buildings, vacant lots as well as a limited number of agency offices. In addition, its Emergency Repair Program occasionally encounters and responds to rats and fleas in occupied private buildings. There are no certified applicators on staff and the agency contracts for pest management services. Table 30 summarizes pesticide use by pesticide type. Table 31 lists all pesticide products used by HPD in 2011.

Table 30: Types of Pesticides Used by HPD in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	45.4	84.9%	99	6.8%
Insecticide	1.2	92.2%	8.1	15.1%	1,344	92.0%
Other	0.1	7.8%	0.0	0.0%	18	1.2%
Totals	1.3		53.5		1,461	

Table 31: Pesticide Products Used by HPD in 2011

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-202	MAKI MINI BLOCKS	0.00	45.37	99	Bromadiolone	3	NO	NO
Insecticides								
432-1363	TEMPO SC INSECTICIDE	0.14	0.00	1042	Cyfluthrin, beta	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.39	6.02	109	Deltamethrin	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.01	0.21	55	Fipronil	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.06	34	Fipronil	3	YES	NO
73079-10	INVICT (TM) COCKROACH GEL	0.00	0.06	27	Imidacloprid	3	NO	NO
6218-66	SUMMIT PERMACIDE P CONCENTRATE	0.00	1.31	21	Permethrin	3	YES	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.30	19	Indoxacarb	3	NO	NO
73079-11	ABAMECTINE COCKROACH GEL	0.00	0.11	17	Avermectin	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.05	0.00	8	Cyhalothrin, lambda	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	0.48	0.02	5	Cyfluthrin, beta	3	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.05	0.00	5	S-Methoprene	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
655-798	PRENTOX EXCITE (R)	0.05	0.00	2	Pyrethrins; Piperonyl butoxide	3	YES	NO
Other								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.10	0.00	18	(7S)- Hydroprene	3	NO	NO

Juvenile Justice

The Department of Juvenile Justice (DJJ) operates three secure detention and 17 non-secure detention facilities located throughout the City that admit over 5,000 youth each year. The department was officially merged with Administration for Children's Services at the end of 2010. DJJ contracts out its pest management services. No data was received for DJJ in 2011.

New York Public Libraries

The New York Public Library (NYPL), through its 85 branches libraries services residents in the boroughs of Manhattan, the Bronx and Staten Island. Pest management is provided by private contractors. No data was received for NYPL in 2011.

Parks and Recreation

New York City's has 28,000 acres of parks, playgrounds, athletic fields, natural areas, recreational facilities, comfort stations, beaches, historic buildings, and parkways maintained by the Department of Parks and Recreation (DPR). The major pest issues facing DPR are weeds (including weed shrubs and weed trees) and rodents. Rarer infestations of exotic insect pests and diseases, often targeting trees, also occur. To address these, DPR employs 104 certified pesticide applicators. Herbicides account for the largest share of DPR's total pesticide use. Contractors are hired for pest management when peripheral rodent problems arise on capital projects.

This data includes pesticides applied on all city-owned golf courses. Local Law 37 exempts these locations from pesticide prohibitions. The table also includes the data from sister organizations that operate on DPR property such as zoos, conservancies, and botanic gardens. Table 32 summarizes pesticide use by pesticide type. Table 33 below lists for each pesticide type, all products used, unless there were more than 10, in which case the 10 most frequently applied products are listed. Appendix 2 includes a complete product listing for DPR.

Table 32: Types of Pesticides Used by DPR in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.3	0.0%	1,126.1	4.6%	2646	21.8%
Insecticide	265.1	5.4%	2,367.6	9.6%	6929	57.2%
Herbicide	3,602.6	73.0%	8,526.5	34.6%	1758	14.5%

Fungicide	1,028.3	20.8%	12,449.1	50.6%	705	5.8%
Other	41.7	0.8%	143.4	0.6%	76	0.6%
Totals	4,938.1		24,612.6		12,114	

Table 33: Ten Most Frequently Applied Pesticide Products by DPR in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-218	GENERATION MINI BLOCKS	0.22	843.91	1895	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	115.44	205	Bromadiolone	3	NO	NO
7173-213	MAKI PELLETS PLACEPACKS	0.00	64.06	160	Bromadiolone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	37.19	100	Bromadiolone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	10.94	87	Zinc phosphide	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	20.47	70	Bromadiolone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	0.03	16	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	0.13	15	Brodifacoum	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.20	14	Diphacinone	3	NO	NO
12455-97	TOMCAT QUICKSTRIKE PELLETTED BAIT	0.00	0.18	14	Bromethalin	3	NO	NO
Insecticides								
432-1318	MERIT 75 WSP	0.00	733.11	4710	Imidacloprid	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	39.23	179.99	929	Cyfluthrin, beta	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	7.92	4.11	311	Esfenvalerate	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.02	55.39	261	Indoxacarb	3	NO	NO
7946-25	IMICIDE HP	4.85	0.00	123	Imidacloprid	3	NO	NO
499-492	TC 228	0.00	2.82	76	Borax	3	NO	NO
1021-1603	NYLAR 10EC	0.02	0.00	31	Pyriproxyfen	3	NO	NO
64405-2	REDZONE BAIT	0.00	2.94	31	Boric acid	3	NO	NO
48813-1	SUFFOIL-X	4.80	0.00	23	Petroleum distillates	3	NO	NO
432-1369	MAJESTY	0.07	0.00	23	Imidacloprid	3	NO	NO
Herbicides								
62719-527	GARLON 4 ULTRA	2139.61	1.13	337	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	536.00	0.94	323	Glyphosate, dimethylammonium salt	3	NO	NO
524-579	ROUNDUP PROMAX	111.57	24.38	208	Glyphosate, potassium salt	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
524-475	ROUNDUP ULTRA HERBICIDE	407.42	75.46	198	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	29.55	242.83	125	Trinexapac-ethyl	3	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	28.77	0.00	74	Pendimethalin	3	YES	NO
62719-176	PATHFINDER II	140.29	0.00	65	Triclopyr, butoxyethyl ester	3	NO	NO
62719-324	GLYPRO	10.28	0.00	58	Glyphosate, isopropylamine salt	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	18.57	0.00	52	Pendimethalin	3	YES	NO
72112-4	GLYPHOSATE PRO 4TM	2.79	0.00	33	Glyphosate, isopropylamine salt	3	NO	NO
Fungicides								
60063-3	LESCO MANICURE ULTRA	0.14	1445.09	51	Chlorothalonil	2	YES	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	1627.40	36	Chlorothalonil	1	YES	NO
100-1093	HERITAGE FUNGICIDE	0.00	57.49	36	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGI CIDE	26.14	0.00	35	Hydrogen peroxide	1	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	61.86	0.00	26	Propamocarb hydrochloride	3	NO	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	187.41	0.00	24	Bacillus subtilis GBO3	3	NO	NO
100-796	SUBDUE MAXX	49.61	68.25	23	Mefenoxam	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	59.67	57.44	22	Propiconazole	2	YES	NO
66222-149	ARMOR TECH CLT 825	0.00	1236.00	22	Chlorothalonil	2	YES	NO
432-890	LESCO PRODIGY SIGNATURE	0.34	753.50	20	Fosetyl-Al	3	NO	NO
Other								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	19.50	0.00	15	Copper oxide (ous)	2	NO	NO
81117-1	RO-PEL ANIMAL & RODENT REPELLENT	5.83	0.00	15	Benzyl-diethyl [(2,6-xylyl-carbamoyl)methyl] ammonium saccharide; Thymol	3	NO	NO
71096-7	ULTRA FINE OIL	2.43	0.00	11	Metaldehyde	3	NO	NO
59807-4	HORMODIN 1	0.00	0.40	8	IBA	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0.00	54.00	7	Fox urine	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
2724-421	ZOECON RF-292 BRIQUET	0.00	36.27	5	S-Methoprene	3	NO	NO
67356-1	DEER-OFF DEER REPELLANT CONCENTRATE	0.95	0.00	3	Capsicum oleoresin; Garlic; Putrescent whole egg solids	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.01	0.00	3	Capsicum oleoresin	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	1.06	3	Metaldehyde	3	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO

Payroll Administration

The Office of Payroll Administration (OPA) is charged with administering the City's payroll and ensuring prompt and accurate payment of employees' wages and salaries. The agency contracts for pest management services. No data was received for OPA in 2011.

Police Department

The Police Department (NYPD) is committed to providing a safe and secure environment for the public. It manages 76 precincts, 12 Transit Districts, and nine Housing Police Service Areas and other investigative and specialized units. The major pest issues facing its facilities are structural pests and are managed by private contractors as needed. Table 34 summarizes pesticide use by pesticide type. Table 35 lists all pesticide products used by NYPD in 2011.

Table 34: Types of Pesticides Used by NYPD in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	3,214.0	93.6%	5833	39.5%
Insecticide	32.0	100.0%	219.9	6.4%	8945	60.5%
Totals	32.0		3,433.9		14,778	

Table 35: Pesticide Products Used by NYPD in 2011 by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	3128.18	4597	Bromadiolone	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	80.49	984	Zinc phosphide	1	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	5.36	252	Diphacinone	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	17.42	0.00	5249	Deltamethrin	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INS ECTICIDE	13.65	0.00	3132	Bifenthrin	3	YES	NO
499-467	WHITMIRE AVERT TC 181	0.00	216.25	268	Avermectin	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.97	166	Fipronil	3	YES	NO
64405-2	REDZONE BAIT	0.00	0.31	42	Boric acid	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.92	36	Fipronil	3	YES	NO
397-13	STERI-FAB	0.14	0.00	21	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.02	9	Avermectin	3	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.01	0.00	8	Cyfluthrin	3	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	1.31	8	Methomyl; (Z)- 9-Tricosene	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.02	0.00	3	Esfenvalerate	3	NO	NO
53883-92	CYPER TC INSECTICIDE	0.79	0.00	2	Cypermethrin, beta	2	YES	NO
432-772	DELTA DUST	0.00	0.13	1	Deltamethrin	3	NO	NO

Probation

The New York City Department of Probation is charged with protecting the community by intervening in the lives of offenders, holding them accountable and serving as a catalyst for positive change. In collaboration with the community and other justice partners they provide information and services to the courts, give victims a voice in the justice system, and help strengthen families. The agency contracts for pest management services. No data was received for DOP in 2011.

Queens Public Libraries

The Queens Public Library (QPL) manages 64 libraries as well as indoor, outdoor and office facilities. Contractors are hired for pest management as needed and the major pest infestations are roaches and mice. No data was received for QPL in 2011.

Sanitation

The Department of Sanitation (DSNY) manages garages, office buildings, transfer stations, and various publicly-owned lots throughout the city. DSNY employs two certified pesticide applicators that make routine visits to facilities and responds to emergency calls because of the nature of the agency's work – managing garbage – pest problems are endemic at some facilities. DSNY also contracts for weed control on some of the City's rights-of-way. DSNY began entering data from staff into our NYCPURS system in 2010. Table 36 summarizes pesticide use by pesticide type. Table 37 lists the products used by DSNY.

Table 36: Types of Pesticides Used by DSNY in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	57.6	53.3%	0.0	0.0%	232	33.9%
Insecticide	50.5	46.7%	84.9	100.0%	453	66.1%
Totals	108.0		84.9		685	

Table 37: List of Pesticides Applied by DSNY in 2011

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	16.92	0.02	149	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	40.64	0.00	83	Brodifacoum	3	NO	NO
Insecticides								
100-1066	DEMAND CS INSECTICIDE	0.00	79.01	179	Cyhalothrin, lambda	3	NO	NO
432-763	SUSPEND SC	0.48	0.00	131	Deltamethrin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	36.29	1.50	66	Fipronil	3	YES	NO
432-1363	TEMPO SC INSECTICIDE	0.00	4.00	40	Cyfluthrin, beta	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.20	0.00	17	Disodium octaborate tetrahydrate	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	13.50	0.33	13	Fipronil	3	YES	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
432-1263	MAXFORCE ANT BAIT F2	0.00	0.00	3	Fipronil	3	YES	NO
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.07	2	Fipronil	3	YES	NO
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.01	0.00	1	Disodium octaborate tetrahydrate	3	NO	NO
9444-168	ZEP TOTAL CONTROL TOTAL RELEASE FOGGER TOTAL CONTROL SYSTEMS	0.00	0.00	1	Esfenvalerate; Prallethrin; Pyriproxyfen	3	NO	NO

Taxi and Limousine Commission

The Taxi and Limousine Commission (TLC) licenses and regulates over 50,000 vehicles and approximately 100,000 drivers, performs safety and emissions inspections of the more than 13,000 medallion taxicabs three times each year, and holds numerous hearings for violations of City and TLC rules and regulations, making it the most active taxi and limousine licensing regulatory agency in the United States. No data was received for TLC in 2011.

Transportation

The Department of Transportation (DOT) has a staff of over 4,000 that oversees one of the most complex urban transportation networks in the world. They manage approximately 5,800 miles of streets, sidewalks, and highways and 789 bridge structures, including six tunnels. They operate the Staten Island Ferry, oversee ferry operations on City-owned piers and operate approximately 75 facilities throughout the City. DOT is responsible for pest management at maintenance yards, lots, and agency offices throughout the city, as well as on rights-of-way along city highways. DOT is also contracted by New York State to provide right-of-way maintenance on state highways within city borders. Table 38 summarizes pesticide use by pesticide type. Table 39 lists all pesticide products used by DOT in 2011.

Table 38: Types of Pesticides Used by DOT in 2011

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	82.8	70.6%	59	5.3%
Insecticide	3.4	1.4%	0.4	0.3%	57	5.1%
Herbicide	238.2	98.6%	34.0	29.0%	993	89.5%
Totals	241.6		117.1		1,109	

Table 39: Pesticide Products Used by DOT in 2011

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	41.19	28	Bromadiolone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	40.25	18	Diphacinone	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	1.31	13	Zinc phosphide	1	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	0.14	0.00	34	Deltamethrin	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTICIDE	0.01	0.00	5	Bifenthrin	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.06	5	Fipronil	3	YES	NO
499-467	WHITMIRE AVERT TC 181	0.00	0.10	4	Avermectin	3	NO	NO
655-798	PRENTOX EXCITE (R)	1.65	0.00	2	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-1145	KICKER	1.01	0.00	2	Pyrethrins	3	YES	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	0.10	2	Bacillus sphaericus	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.59	0.00	1	Esfenvalerate	3	NO	NO
397-13	STERI-FAB	0.00	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
64405-2	REDZONE BAIT	0.00	0.13	1	Boric acid	3	NO	NO
Herbicides								
62719-556	ACCORD XRT II	116.06	0.00	281	Glyphosate, dimethylammonium salt	3	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.05	33.35	274	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	67.37	0.00	257	Dicamba, diglycolamine salt	3	NO	NO
62719-176	PATHFINDER II	53.44	0.00	156	Triclopyr, butoxyethyl ester	3	NO	NO
352-439	DUPONT ESCORT XP HERBICIDE	0.00	0.66	17	Metsulfuron-methyl	3	NO	NO
62719-527	GARLON 4 ULTRA	1.32	0.00	8	Triclopyr	2	NO	NO

Youth and Community Development

The Department of Youth and Community Development (DYCD) provides the City of New York with high-quality youth and family programming. The central task of DYCD is administering available City, state, and federal funds to effective community-based organizations. No pesticide applications were made by DYCD in 2011.

Appendix 1: Complete listing of pesticide products used by New York City Agencies by Pesticide Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
Rodenticides								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.48	11,453.25	17,757	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	11.42	6,999.31	11,032	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.03	2,534.43	7,177	Difethialone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	3,463.62	5,860	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	4,386.88	4,498	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	30.22	997.91	2,512	Difethialone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	986.96	1,975	Brodifacoum	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	87.77	1,068	Zinc phosphide	1	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	16.92	290.13	463	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.25	572.70	399	Diphacinone	2	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	117.68	380	Diphacinone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.07	162.36	344	Bromadiolone	3	NO	NO
7173-208	MAKI RODENTICIDE BAIT PACKS (PELLETS)	0.00	56.74	289	Bromadiolone	3	NO	NO
100-1051	TALON-G RODENTICIDE BAIT PACK PELLETS WITH BITREX	0.00	110.35	241	Brodifacoum	3	NO	NO
82744-2	RATIMOR SOFT BAIT	0.00	53.77	236	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	40.80	22.62	227	Brodifacoum	3	NO	NO
7173-213	MAKI PELLETS PLACEPACKS	0.00	64.06	160	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	188.36	150	Brodifacoum	3	NO	NO
12455-80	ALL-WEATHER DI-BLOX	0.07	55.75	109	Diphacinone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
100-1052	TALON-G RODENTICIDE PELLETS WITH BITREX	0.00	238.86	107	Brodifacoum	3	NO	NO
12455-80	DITRAC ALL- WEATHER BLOX	0.00	58.64	92	Diphacinone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	10.94	87	Zinc phosphide	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	32.11	47	Bromadiolone	3	NO	NO
12455-5	DITRAC ALL- WEATHER CAKE	0.00	13.88	29	Diphacinone	3	NO	NO
12455-108	FORMUS ALL- WEATHER BLOX	0.00	3.92	25	Brodifacoum	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	14.77	16	Bromadiolone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	5.81	15	Chlorophacinone	2	NO	NO
12455-97	TOMCAT QUICKSTRIKE PELLETED BAIT	0.00	0.18	14	Bromethalin	3	NO	NO
12455-95	FASTRAC ALL- WEATHER BLOX	0.00	8.25	11	Bromethalin	3	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	3.40	11	Difethialone	3	NO	NO
56-70	J.T. EATON AC FORMULA 90 READY- TO-USE RODENTICIDE	0.00	11.19	9	Chlorophacinone	3	NO	NO
12455-77	WARFARIN RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	1.75	5	Warfarin	3	NO	YES
7173-205	GENERATION PELLETS	0.00	1.70	5	Difethialone	3	NO	NO
56-58	EATON'S AC FORMULA 90 RODENTICIDE	0.00	3.01	4	Chlorophacinone	3	NO	NO
12455-39	QUINTOX RAT AND MOUSE BAIT	0.00	0.88	4	Cholecalciferol	3	NO	NO
12455-61	LIQUA-TOX II	0.00	0.00	3	Diphacinone, sodium salt	3	NO	NO
12455-82	CONTRAC SUPER SIZE BLOCKS	0.00	8.50	3	Bromadiolone	3	NO	NO
12455-90	FINAL RODENTICIDE	0.00	0.55	2	Brodifacoum	3	NO	NO
Insecticides								
432-763	SUSPEND SC INSECTICIDE	468.60	10.77	33,776	Deltamethrin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
397-13	STERI-FAB	823.34	52.91	7,094	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	125.08	11.81	7,080	Cyfluthrin	3	NO	NO
432-1318	MERIT 75 WSP	0.00	733.11	4,710	Imidacloprid	3	NO	NO
64405-2	REDZONE BAIT	1.11	937.44	4,700	Boric acid	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	2.52	182.77	4,480	Indoxacarb	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTI CIDE	16.53	0.00	3,463	Bifenthrin	3	YES	NO
73049-429	V60035 CG	0.00	1,352.56	3,203	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	116.91	184.85	2,258	Cyfluthrin, beta	3	NO	NO
432-1259	PRODUCT: RBF5	0.85	149.94	1,891	Fipronil	3	YES	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	2,372.47	1,724	Bacillus sphaericus	3	NO	NO
67425-14	ECOPCO ACU	59.45	30.33	1,721	Phenylethyl propionate	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.47	25.39	1,322	Fipronil	3	YES	NO
432-763	SUSPEND SC	67.29	40.08	1,191	Deltamethrin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	36.29	131.03	1,172	Fipronil	3	YES	NO
499-467	WHITMIRE AVERT TC 181	0.00	252.98	826	Avermectin	3	NO	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	31.73	773	Avermectin	3	NO	NO
499-507	TC 248	6.00	14.18	656	Dinotefuran	3	NO	NO
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	55,465.39	577	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	8.86	5.88	408	Esfenvalerate	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.16	32.47	401	Avermectin	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	98.74	338	Boric acid	3	NO	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	1.35	8.69	297	Hydramethylnon	3	YES	YES
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	1.73	6.00	296	Esfenvalerate	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	34.16	79.01	271	Cyhalothrin, lambda	3	NO	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	16.99	4.46	230	Esfenvalerate	3	NO	NO
352-746	DUPONT ADVION ANT GEL	0.00	7.50	175	Indoxacarb	3	NO	NO
2724-484	RF 9707 AEROSOL	5.09	1.88	145	(7S)-Hydroprene	3	NO	NO
499-492	TC 228	0.11	6.17	125	Borax	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	72.95	2.01	124	Cyfluthrin, beta	3	NO	NO
7946-25	IMICIDE HP	4.85	0.00	123	Imidacloprid	3	NO	NO
432-772	DELTA DUST	0.00	7.77	101	Deltamethrin	3	NO	NO
67425-14	ECOPCO ACU CONTACT INSECTICIDE	4.64	0.38	87	Phenylethyl propionate	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.20	1.12	85	Disodium octaborate tetrahydrate	3	NO	NO
73079-1	INTICE SWEET ANT GEL	0.06	1.17	78	Boric acid	3	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.08	2.80	61	Indoxacarb	3	NO	NO
2724-469	ZOECON (S)- HYDROPRENE ROACH CONTROL STATION II	0.00	3.94	55	(7S)-Hydroprene	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.71	55	Avermectin	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.19	10.63	52	Hydramethylnon	3	YES	YES
9444-217	CB INSECTICIDE WITH DELTAMETHRIN	10.75	0.00	51	Deltamethrin	3	NO	NO
499-384	JOHNSON WAX PROFESSIONAL BRAND BORIC ACID PRESSURI	0.06	0.07	43	Boric acid	3	NO	NO
1021-1603	NYLAR 10EC	10.17	0.00	40	Pyriproxyfen	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
1021-1688	ANVIL 10+10 ULV	0.00	700.32	40	Phenothrin; Piperonyl butoxide	3	YES	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	1.00	1.13	35	Boric acid	3	NO	NO
73079-10	INVICT (TM) COCKROACH GEL	0.00	0.40	35	Imidacloprid	3	NO	NO
64405-2	LESCO TRIAD GRANULAR BAIT	0.41	0.06	34	Boric acid	3	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.12	1.88	33	Cyfluthrin	3	NO	NO
48813-1	SUFFOIL-X	7.25	0.00	30	Petroleum distillates	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	21.22	27	Boric acid	3	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	3.16	27	Methomyl; (Z)-9-Tricosene	3	NO	NO
2724-375	ALTOSID BRIQUETS	0.00	9.50	24	S-Methoprene	3	NO	NO
432-1262	MAXFORCE IBH10	0.00	3.96	24	Hydramethylnon	3	YES	YES
432-1369	MAJESTY	0.07	0.00	23	Imidacloprid	3	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	8.61	23	Avermectin	3	NO	NO
499-515	TC 273	0.00	2.97	23	Boric acid	3	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.41	0.00	22	Spinosad	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	3.94	22	Boric acid	3	NO	NO
42750-153	BENEFIT 60 WP	0.00	28.99	21	Imidacloprid	3	NO	NO
6218-66	SUMMIT PERMACIDE P CONCENTRATE	0.00	1.31	21	Permethrin	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	26.57	20	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	0.47	98.94	19	Cyhalothrin, lambda	3	NO	NO
70051-2	TRIACT 70	12.54	0.00	18	Neem oil	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	1.60	17	Cyfluthrin	3	NO	NO
73079-11	ABAMECTINE COCKROACH GEL	0.00	0.11	17	Avermectin	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	13.50	4.38	16	Fipronil	3	YES	NO
1677-191	ECO2000-GR	0.00	5.38	15	Boric acid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	1.25	14	Fipronil	3	YES	NO
9688-190	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	0.59	0.00	13	Cyhalothrin, lambda; Prallethrin	3	NO	NO
100-896	AVID 0.15 EC MITICIDE/INSECTICIDE	0.41	0.00	13	Avermectin	2	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
655-798	PRENTOX EXCITE (R)	1.71	0.00	12	Pyrethrins; Piperonyl butoxide	3	YES	NO
400-508	FLORAMITE SC	0.37	0.00	12	Bifentazate	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.24	0.00	12	Pyriproxyfen	3	NO	NO
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	0.07	12	Avermectin	3	NO	NO
352-731	DUPONT ACELEPRYN INSECTICIDE	3.23	0.00	11	DPX-E2Y45	0	NO	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.51	0.00	11	(S)-Kinoprene	2	NO	NO
432-1471	KONTOS	0.06	0.00	11	Spirotetramat	3	NO	NO
279-3385	DRAX ANT KILL GEL	0.00	0.73	11	Boric acid	3	NO	NO
499-444	WHITMIRE MICRO-GEN TC 164	0.16	0.00	9	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-1483	TEMPRID SC INSECTICIDE	0.03	0.00	9	Cyfluthrin, beta; Imidacloprid	3	NO	NO
73079-5	INTICE ROACH BAIT	0.00	2.08	9	Boric acid	3	NO	NO
432-1464	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	32.90	140.00	8	Trichlorfon	3	YES	NO
42750-115	IMIDIPRO SYSTEMIC INSECTICIDE	11.25	73.75	8	Imidacloprid	3	NO	NO
149-8	TERRO ANT KILLER II	0.04	1.00	8	Borax	3	NO	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.00	4.45	8	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO
10404-66	LESCO HORTICULTURAL OIL INSECTICIDE	3.66	0.00	7	Petroleum distillates	3	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.84	0.00	7	Potassium laurate	2	NO	NO
67760-99	PROAXIS EX	0.76	18.00	7	Cyhalothrin, gamma	3	NO	NO
82074-1	MYCOTROL ES	0.34	0.00	7	Beauveria bassiana GHA	3	NO	NO
432-1457	MERIT FXT TABLET INSECTICIDE	0.00	5.10	7	Imidacloprid	3	NO	NO
1677-196	ECO 2000-XP FRESHBAIT	0.00	0.96	7	Boric acid	3	NO	NO
2724-357	ZOECON RF-296 COLLAR FOR CATS	0.00	0.47	7	Chlorpyrifos	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.34	7	Hydramethylnon	3	YES	YES
53871-3	STIMUKIL FLY BAIT	0.00	20.72	6	(Z)-9-Tricosene; Methomyl	3	NO	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	0.66	6	Avermectin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	0.62	6	Flonicamid	3	NO	NO
499-496	TC 234	0.00	0.08	6	Avermectin	3	NO	NO
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	12.75	0.00	5	Chlorpyrifos	2	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	1.41	0.00	5	Cyhalothrin, lambda	2	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.05	0.00	5	S-Methoprene	3	NO	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.00	1.88	5	Pyrethrins	3	YES	NO
9444-132	MOP UP	0.00	1.19	5	Disodium octaborate tetrahydrate	3	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.38	5	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
19713-123	DAMOIL DORMANT & SUMMER SPRAY OIL	26.28	0.00	4	Kerosene	3	NO	NO
62719-471	MACH 2 2SC	25.75	0.00	4	Halofenozide	3	NO	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICID E	3.90	9.13	4	Bifenthrin	3	YES	NO
86330-11	SUNSPRAY 6E PLUS	1.07	0.00	4	Mineral oil	3	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.73	0.00	4	Mineral oil	3	NO	NO
45385-97	JT EATON INSECT SPRAY	0.66	0.00	4	Deltamethrin	3	NO	NO
100-1260	OPTIGARD ANT GEL BAIT	0.04	0.00	4	Thiamethoxam	3	YES	NO
352-716	DUPONT PROVAUNT INSECTICIDE	0.00	10.25	4	Indoxacarb	3	NO	NO
81943-10	HAWK-I 75 WSP	0.00	4.80	4	Imidacloprid	3	NO	NO
66222-19	QUALI-PRO CHLORPYRIFOS 4E	42.90	0.00	3	Chlorpyrifos	2	NO	NO
432-1227	LESCO SEVIN SL	8.00	30.94	3	Carbaryl	3	YES	NO
74779-9	RTSA HORTICULTURAL OIL	0.76	0.00	3	Mineral oil	3	NO	NO
1021-1773	ZPRO ZYY IMPACT RESIDUAL AEROSOL	0.35	0.00	3	Esfenvalerate	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.25	0.00	3	Imidacloprid	3	NO	NO
499-497	MOTHEREARTH PROCITRA-DL	0.09	0.75	3	Limonene	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
62719-515	M-PEDE INSECTICIDE/FUNGICI DE	0.09	0.00	3	Potassium laurate	3	NO	NO
499-405	WHITMIRE PT 1920 TOTAL RELEASE INSECTICIDE	0.05	0.00	3	Cyfluthrin	2	NO	NO
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.04	0.00	3	Disodium octaborate tetrahydrate	3	NO	NO
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	450.00	3	Chlorpyrifos	3	NO	NO
352-627	DUPONT ADVION FIRE ANT BAIT	0.00	4.13	3	Indoxacarb	3	NO	NO
83362-3	FOURSTAR BRIQUETS	0.00	3.33	3	Bacillus sphaericus; Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO
45728-7	FERBAM GRANUFLO	0.00	2.25	3	Ferbam	3	NO	NO
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	1.38	3	Propoxur	3	YES	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	0.20	3	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1263	MAXFORCE ANT BAIT F2	0.00	0.00	3	Fipronil	3	YES	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	7.50	20.00	2	Carbaryl	3	YES	NO
352-776	DUPONT ARILON INSECTICIDE	2.25	0.00	2	Indoxacarb	3	NO	NO
241-392	PHANTOM TERMITICIDE- INSECTICIDE	1.23	0.00	2	Chlorfenapyr	3	YES	NO
432-1145	KICKER	1.01	0.00	2	Pyrethrins	3	YES	NO
53883-92	CYPER TC INSECTICIDE	0.79	0.00	2	Cypermethrin, beta	2	YES	NO
66222-40	PEDESTAL	0.67	0.00	2	Novaluron	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.03	0.00	2	Azadirachtin	3	NO	NO
72155-57	MERIT 0.22G ROSE, FLOWER & SHRUB CARE INSECTICIDE	0.02	0.00	2	Imidacloprid	3	NO	NO
279-3081	CYNOFF EC INSECTICIDE	0.01	0.00	2	Cypermethrin, beta	3	YES	NO
62637-3	BMP 144 (200 G)	0.00	60.00	2	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO

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66222-192	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	0.00	6.56	2	Bifenthrin	3	YES	NO
432-1418	ALLECTUS 0.18 G PLUS TURF FERTILIZER INSECTICIDE	0.00	2.10	2	Bifenthrin; Imidacloprid	3	YES	NO
432-1373	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	0.38	2	Cyfluthrin	3	NO	NO
1677-195	ECO2000-RX FRESHBAIT	0.00	0.26	2	Boric acid	3	NO	NO
9444-129	BICK'S ROACH KIL	0.00	0.25	2	Boric acid	3	NO	NO
499-509	WHITMIRE DE 1606	0.00	0.23	2	Diatomaceous earth	3	NO	NO
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.07	2	Fipronil	3	YES	NO
68539-4	T-22 WP BIOLOGICAL FUNGICIDE	0.00	0.01	2	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
69592-19	CEASE	1.50	0.00	1	QST 713 strain of dried Bacillus subtilis	3	NO	NO
499-290	WHITMIRE PT 565 WB PYRETHRUM INSECT FOGGER	0.00	1.09	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
432-1421	ALLECTUS GC SC INSECTICIDE	1.17	0.00	1	Bifenthrin; Imidacloprid	3	YES	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.31	0.00	1	Pyrethrins; Piperonyl butoxide	3	YES	NO
42750-115	XYTECT 2F INSECTICIDE	0.16	0.00	1	Imidacloprid	3	NO	NO
499-531	TC 267	0.16	0.00	1	Dinotefuran	3	NO	NO
74578-1	XYTECT INFUSIBLE INSECTICIDE	0.14	0.00	1	Imidacloprid	2	NO	NO
8033-96	TRANSPORT (R) GHP INSECTICIDE	0.05	0.00	1	Acetamiprid; Bifenthrin	3	YES	NO
73049-11	VECTOBAC - AS	0.03	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.03	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
71711-4	AKARI 5SC MITICIDE-INSECTICIDE	0.02	0.00	1	Fenpyroximate	2	NO	NO
62719-168	SUSPEND 30W	0.01	0.00	1	Esfenvalerate	2	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
9444-168	ZEP TOTAL CONTROL TOTAL RELEASE FOGGER TOTAL CONTROL SYSTEMS	0.00	0.00	1	Esfenvalerate; Prallethrin; Pyriproxyfen	3	NO	NO
432-1353	MERIT 0.15 PLUS TURF FERTILIZER	0.00	0.00	1	Imidacloprid	3	NO	NO
499-520	WHITMIRE MICRO- GEN TC 252	0.00	0.00	1	Pyrethrins	3	YES	NO
432-1399	MERIT 2.5 PR	0.00	300.00	1	Imidacloprid	3	NO	NO
432-1328	MERIT 0.5 G INSECTICIDE	0.00	60.00	1	Imidacloprid	3	NO	NO
432-1478	FIPRONIL TECH	0.00	22.00	1	Fipronil	2	YES	NO
72155-83	DYLOX 9.3% INSECT GRANULES	0.00	20.00	1	Trichlorfon	3	YES	NO
432-1289	DYLOX 80 TURF AND ORNAMENTAL INSECTICIDE	0.00	15.00	1	Trichlorfon	2	YES	NO
67702-6	ORTHO EXOSENSE BRAND OUTDOOR INSECT KILLER	0.00	1.50	1	Pyrethrins	3	YES	NO
67702-21	BAYER ADVANCED NATRIA INSECTICIDAL SOAP READY TO USE	0.00	1.00	1	Potassium laurate	3	NO	NO
33906-23	SANMITE 75 WP MITICIDE/INSECTICID E	0.00	0.63	1	Pyridaben	2	NO	NO
1021-1424	PYROCIDE FOGGING CONCENTRATE 7338	0.00	0.31	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
9444-129	SPECTRACIDPRO 99% BORIC ACID DUST	0.00	0.13	1	Boric acid	3	NO	NO
62719-453	RECRUIT IV	0.00	0.08	1	Noviflumuron	3	NO	NO
499-527	TC 249	0.00	0.06	1	Dinotefuran; Diatomaceous earth	3	NO	NO
3095-72	PIC ANT KILLING SYSTEMS	0.00	0.03	1	Borax; Boric acid	3	NO	NO
352-664	DUPONT ADVION ANT BAIT ARENA	0.00	0.02	1	Indoxacarb	3	NO	NO
499-459	MICRO-GEN ANT REACTOR	0.00	0.02	1	Sulfluramid	3	NO	NO
Herbicides								
62719-556	ACCORD XRT II	652.06	6.56	605	Glyphosate, dimethylammoniu m salt	3	NO	NO
62719-527	GARLON 4 ULTRA	2,140.93	1.13	345	Triclopyr	2	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.05	33.35	274	Sulfometuron methyl; Metsulfuron- methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	67.37	0.00	257	Dicamba, diglycolamine salt	3	NO	NO
62719-176	PATHFINDER II	193.73	0.00	221	Triclopyr, butoxyethyl ester	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
524-475	ROUNDUP ULTRA HERBICIDE	422.31	75.46	214	Glyphosate, isopropylamine salt	3	NO	NO
524-579	ROUNDUP PROMAX	137.23	24.38	213	Glyphosate, potassium salt	3	NO	NO
100-937	PRIMO MAXX	29.55	242.83	125	Trinexapac-ethyl	3	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	28.77	0.00	74	Pendimethalin	3	YES	NO
62719-324	GLYPRO	10.28	0.00	58	Glyphosate, isopropylamine salt	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	18.57	0.00	52	Pendimethalin	3	YES	NO
72112-4	GLYPHOSATE PRO 4TM	2.79	0.00	33	Glyphosate, isopropylamine salt	3	NO	NO
62719-517	ACCORD XRT	7.13	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	8.48	0.00	28	Glyphosate, isopropylamine salt	3	NO	NO
71995-25	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	14.68	0.00	24	Glyphosate, isopropylamine salt	3	NO	NO
62719-40	GARLON 4	5.47	0.09	23	Triclopyr, butoxyethyl ester	3	NO	NO
352-439	DUPONT ESCORT XP HERBICIDE	0.00	0.66	17	Metsulfuron-methyl	3	NO	NO
62719-542	DIMENSION 2EW	35.37	0.00	14	Dithiopyr	2	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	5.79	0.00	13	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.02	29.81	13	Fenoxaprop-P (+)	3	NO	NO
228-366	RAZOR HERBICIDE	3.54	0.00	12	Glyphosate, isopropylamine salt	3	NO	NO
81943-12	GOLDWING	3.09	0.00	12	Trinexapac-ethyl	3	NO	NO
1381-192	CORNERSTONE PLUS	0.76	0.00	12	Glyphosate, isopropylamine salt	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.40	9	Halosulfuron-methyl	3	NO	NO
66330-276	DICAMBA DMA 4# AG	0.00	46.61	8	Dicamba, dimethylamine salt	2	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	42.85	8	Dithiopyr	3	NO	NO
62719-151	TURF FERTILIZER - CONTAINS TEAM 0.92%	0.00	6.88	8	Benfluralin; Trifluralin	2	YES	NO
524-343	ROUNDUP CUSTOM HERBICIDE	6.00	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO
524-517	ACCORD XL HERBICIDE	2.19	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO

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83220-1	EZJECT SELECTIVE INJECTION HERBICIDE CAPSULES	0.00	13.72	7	Glyphosate, isopropylamine salt	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	18.00	64.63	6	Ethephon	1	NO	NO
264-267	ETHREL BRAND ETHEPHON PLANT REGULATOR	12.60	190.00	6	Ethephon	1	NO	NO
2217-754	TRIMEC 973 WEED & FEED	1.50	42.25	6	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
62719-258	TURFLON ESTER	1.41	0.00	6	Triclopyr, butoxyethyl ester	3	NO	NO
228-635	LESCO REGIMAX PGR PLANT GROWTH REGULATOR	1.06	0.00	4	Trinexapac-ethyl	3	NO	NO
62719-487	GREEN YARD CRABGRASS PREVENTER WITH 0.08% DIMENSION	0.00	4,000.00	4	Dithiopyr	3	NO	NO
524-537	MON 78270 HERBICIDE	0.00	0.97	4	Glyphosate, potassium salt	3	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	10.32	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
228-264	RIVERDALE TRIPLET SELECTIVE HERBICIDE	6.00	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; Mecoprop-P	1	YES	NO
10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	4.00	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
62719-37	GARLON* 3A	1.82	0.00	3	Triclopyr, triethylamine salt	1	NO	NO
62719-92	CONFRONT	1.00	6.44	3	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	20.63	3	Dithiopyr	3	NO	NO
228-540	DYNAMO 40 WSP HERBICIDE	0.00	5.94	3	Dithiopyr	3	NO	NO
228-702	NUFARM PROSEGE SELECTIVE HERBICIDE	0.00	1.25	3	Halosulfuron-methyl	3	NO	NO
524-535	MON 78365 HERBICIDE	100.00	0.56	2	Diquat dibromide; Glyphosate, monoammonium salt	3	NO	NO

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66330-293	LESCO T-STORM FLOWABLE TURF & ORNAMENTAL FUNGICIDE	8.60	0.00	2	Thiophanate-methyl	3	YES	YES
100-1139	BARRICADE 4SC HERBICIDE	3.00	37.50	2	Prodiamine	3	YES	NO
2217-759	EMBARK 2-S PLANT GROWTH REGULATOR	1.78	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	1.54	0.00	2	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecoprop-P	3	YES	NO
10404-100	LESCO PRE-M 0.86% PLUS FERTILIZER	0.14	34.40	2	Pendimethalin	3	YES	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	370.00	2	Bensulide; Oxadiazon	2	YES	YES
2217-581	GORDON'S TRIMEC WEED & FEED 24	0.00	1.36	2	Mecoprop-P	3	YES	NO
66222-151	QUALI-PRO ETHEPHON 2 SL	15.00	0.00	1	Ethephon	1	NO	NO
228-413	GREENYARD PROFESSIONAL WEED & FEED WITH VIPER	4.57	0.00	1	Mecoprop-P	3	YES	NO
2217-529	TRIMEC BROADLEAF HERBICIDE BENTGRASS FORMULA	4.00	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
33955-454	GORDON'S CHEMICALS VEGETATION KILLER	3.00	0.00	1	Prometon	1	NO	NO
9688-265	SPECTRACIDE WEED & GRASS KILLER CONCENTRATE 2	1.33	0.00	1	Fluazifop-P-butyl	2	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	1.19	0.00	1	Clopyralid	3	NO	NO
71995-33	MON 78999 HERBICIDE	1.00	0.00	1	Nonanoic acid	3	NO	NO
33955-454	ACME VEGETATION KILLER	1.00	0.00	1	Prometon	1	NO	NO
72155-19	TRICLOPYR 8.8% CONCENTRATE HERBICIDE	0.50	0.00	1	Triclopyr, triethylamine salt	3	NO	NO
67760-49	GLYFOS CONCENTRATE 41% WEED & GRASS KILLER	0.34	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO
62719-529	SCYTHE HERBICIDE	0.09	0.00	1	Nonanoic acid	3	NO	NO
100-1267	TENACITY	0.00	0.00	1	Mesotrione	3	NO	NO
10404-86	0.15% DIMENSION PLUS FERTILIZER	0.00	5,000.00	1	Dithiopyr	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
2217-794	ANDERSONS GOLF PRODUCTS TURF FERTILIZER 28-0-4 WIT	0.00	1,250.00	1	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
961-360	LEBANON FERTILIZER WITH DIMENSION (0.13%) CRABGRAS	0.00	1,000.00	1	Dithiopyr	3	NO	NO
228-509	PRODEUCE	0.00	7.50	1	Glyphosate, isopropylamine; Prodiamine	3	YES	NO
2217-581	THE ANDERSONS PROFESSIONAL TURF PRODUCTS 22-2-4	0.00	4.40	1	Mecoprop-P	3	YES	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	3.50	1	Dithiopyr	3	NO	NO
352-625	DUPONT CINCH HERBICIDE	0.00	0.13	1	Metolachlor, (S)	3	YES	NO
352-401	DUPONT OUST HERBICIDE	0.00	0.06	1	Sulfometuron methyl	3	NO	NO
Fungicides								
60063-3	LESCO MANICURE ULTRA	0.14	1,445.09	51	Chlorothalonil	2	YES	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	1,627.40	36	Chlorothalonil	1	YES	NO
100-1093	HERITAGE FUNGICIDE	0.00	57.49	36	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	26.14	0.00	35	Hydrogen peroxide	1	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	61.86	0.00	26	Propamocarb hydrochloride	3	NO	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	187.41	0.00	24	Bacillus subtilis GBO3	3	NO	NO
100-796	SUBDUE MAXX	49.61	68.25	23	Mefenoxam	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	59.67	57.44	22	Propiconazole	2	YES	NO
66222-149	ARMOR TECH CLT 825	0.00	1,236.00	22	Chlorothalonil	2	YES	NO
432-890	LESCO PRODIGY SIGNATURE	0.34	753.50	20	Fosetyl-AI	3	NO	NO
228-623	: NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	18.62	54.00	19	Propiconazole	2	YES	NO
7969-184	Insignia Fungicide	0.13	114.68	15	Pyraclostrobin	3	NO	NO
432-890	ALLETTE WDG BRAND FUNGICIDE	0.00	422.81	15	Fosetyl-AI	3	NO	NO
69592-19	RHAPSODY AS0	75.40	0.00	14	QST 713 strain of dried Bacillus subtilis	3	NO	NO
67690-37	CUPRO 2005 T/N/O	0.00	51.29	14	Copper hydroxide	1	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	26.00	0.00	12	Iprodione; Thiophanate-methyl	3	YES	YES

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
66222-161	QUALI-PRO FOSETYL-AL 80 WDG	10.00	340.25	12	Fosetyl-Al	3	NO	NO
432-1371	COMPASS	0.06	18.06	12	Trifloxystrobin	3	NO	NO
7969-224	CURALAN EG	0.00	256.56	12	Vinclozolin	3	YES	YES
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	91.00	0.00	11	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	141.20	11	Triadimefon	3	YES	YES
59639-144	V-10116 VPP FUNGICIDE	0.47	23.44	10	Metconazole	3	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	2,350.00	10	Chlorothalonil	1	YES	NO
8622-56	BIOBROM C-100G	0.00	64.00	9	2,2-dibromo-3-nitripropionamide	1	NO	NO
100-741	ALAMO FUNGICIDE	50.00	33.00	8	Propiconazole	2	YES	NO
69592-19	CEASE	13.25	0.00	8	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-1446	TARTAN FLO FUNGICIDE	10.19	30.00	8	Triadimefon; Trifloxystrobin	3	YES	YES
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	9.94	0.00	8	Triadimefon	3	YES	YES
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	95.00	8	Streptomyces lydicus WYEC 108	3	NO	NO
68173-3	AFFIRM WDG	0.00	34.98	8	Polyoxin D zinc salt	3	NO	NO
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	28.50	8	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
55146-96	AGRI-MYCIN 17	0.00	1.08	8	Streptomycin sulfate	3	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	53.10	0.00	7	Iprodione	3	YES	NO
432-1486	RESERVE FUNGICIDE	34.05	0.00	7	Chlorothalonil; Triticonazole	2	YES	NO
86064-2	ARMOR TECH CLT 720 FL	27.50	0.00	6	Chlorothalonil	2	YES	NO
66222-214	QUALI-PRO IPRO 2SE	22.50	25.00	6	Iprodione	3	YES	NO
62719-388	FORE 80WP RAINSHIELD	6.00	149.00	6	Mancozeb	3	YES	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	3.58	8.38	6	Propiconazole	2	YES	NO
62719-463	EAGLE 20EW	1.01	0.00	6	Myclobutanil	3	NO	YES
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	81.75	6	Polyoxin D zinc salt	3	NO	NO
58185-30	FUNGO 50 WSB WETTABLE POWDER TURF & ORNAMENTAL SYS	0.00	5.00	6	Thiophanate-methyl	3	YES	YES

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
70870-1	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	2.09	6	Potassium bicarbonate	3	NO	NO
100-1216	BANNER HERITAGE MAXX	9.50	0.00	5	Azoxystrobin; Propiconazole	3	YES	NO
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.63	0.00	5	Fenarimol	3	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	6.37	5	Nicobifen	2	YES	NO
62388-1	NOGALL	0.00	4.41	5	Agrobacterium radiobacter strain K1026	3	NO	NO
100-1231	INSTRATA	39.50	0.00	4	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO
66222-154	EQUUS 720 SST	15.00	0.00	4	Chlorothalonil	2	YES	NO
66330-305	IPRODIONE 2SE TURF	11.00	0.00	4	Iprodione	3	YES	NO
100-1326	BANNER MAXX II	3.34	150.00	4	Propiconazole	3	YES	NO
100-769	MEDALLION FUNGICIDE	1.00	0.14	4	Fludioxonil	3	NO	NO
100-794	ANDERSONS GOLF PRODUCTS PYTHIUM CONTROL WITH MEFEN	0.00	305.00	4	Mefenoxam	3	NO	NO
1001-69	3336 F	15.00	0.00	3	Thiophanate-methyl	3	YES	YES
50534-209	MANICURE 6 FLOWABLE	13.75	0.00	3	Chlorothalonil	3	YES	NO
432-1414	26/36 FUNGICIDE	12.50	0.00	3	Iprodione; Thiophanate-methyl	2	YES	YES
83472-1	FUNGI-PHITE	7.50	0.00	3	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
73545-13	TOPSIN 4.5FL	4.25	0.00	3	Thiophanate-methyl	3	YES	YES
1001-70	3336 G	0.00	900.00	3	Thiophanate-methyl	3	YES	YES
9198-111	THE ANDERSONS 1.0% BAYLETON(R) FUNGICIDE	0.00	540.00	3	Triadimefon	3	YES	YES
70252-11	MEFENOXAM 2L	0.00	24.25	3	Mefenoxam	3	NO	NO
67690-35	JUNCTION	0.00	5.63	3	Copper hydroxide; Mancozeb	1	YES	NO
1001-78	3336 PLUS SYSTEMIC FUNGICIDE	5.00	0.00	2	Thiophanate-methyl	2	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	2.50	0.00	2	Propamocarb hydrochloride	3	NO	NO
71962-1	AGRI-FOS SYSTEMIC FUNGICIDE	2.04	0.00	2	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
400-521	TERRAGUARD SC	0.03	0.00	2	Triflumizole	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
9198-229	ANDERSONS GOLF PRODUCTS FLUID FUNGICIDE	0.00	240.00	2	Iprodione; Thiophanate-methyl	3	YES	YES
60063-3	ECHO 825	0.00	142.50	2	Chlorothalonil	2	YES	NO
1001-77	PROTECT DF	0.00	108.00	2	Mancozeb	3	YES	NO
7969-255	HONOR FUNGICIDE	0.00	88.80	2	Nicobifen; Pyraclostrobin	3	YES	NO
70506-185	PENNCOZEB 75 DF	0.00	80.00	2	Mancozeb	3	YES	NO
81943-7	PEREGRINE	0.00	40.00	2	Chlorothalonil; Thiophanate-methyl	2	NO	NO
432-1367	BAYLETON 50 WDG NURSERY AND GREENHOUSE SYSTEMIC FU	0.00	16.50	2	Triadimefon	3	YES	YES
69361-27	TEB PRO	0.00	12.00	2	Tebuconazole	3	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	0.00	2.75	2	Terrazole	3	YES	NO
464-693	CHEMICAR 15	10.00	0.00	1	Glutaraldehyde	1	NO	NO
100-1347	CONCERT II (FUNGICIDE)	10.00	0.00	1	Chlorothalonil; Propiconazole	1	YES	NO
66330-305	LESCO 18 PLUS	5.20	0.00	1	Iprodione	3	YES	NO
50534-203	REACH	5.00	0.00	1	Triadimefon	1	YES	YES
71962-1	ALUDE SYSTEMIC FUNGICIDE	5.00	0.00	1	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
45728-26	SPOTRETE F	5.00	0.00	1	Thiram	3	NO	NO
1001-87	TORQUE FUNGICIDE	5.00	0.00	1	Tebuconazole	3	YES	NO
69592-12	SERENADE ASO	1.50	0.00	1	QST 713 strain of dried Bacillus subtilis	3	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	1.06	0.00	1	Thiabendazole	3	NO	NO
58185-33	DOMAIN FL	0.06	0.00	1	Thiophanate-methyl	3	YES	YES
239-2522	ORTHO DAPONIL 2787 MULTIPURPOSE FUNGICIDE	0.00	0.00	1	Chlorothalonil	2	YES	NO
74779-2	BACASTAT TREE INJECTION	0.00	0.00	1	Oxytetracycline hydrochloride	3	NO	YES
70644-1	EKSPUNGE	0.00	120.00	1	Phosphoric acid, monopotassium salt	3	NO	NO
62719-402	DITHANE DF RAINSHIELD	0.00	41.25	1	Mancozeb	3	YES	NO
66330-41	ENDORSE WETTABLE POWDER FUNGICIDE	0.00	33.00	1	Polyoxin D zinc salt	3	NO	NO
67690-38	PENTATHLON LF	0.00	28.00	1	Mancozeb	3	YES	NO
61842-10	AUTOGRAPH 70DF FUNGICIDE	0.00	25.20	1	Fosetyl-AI	2	NO	NO
68173-2	ENDORSE WETTABLE POWDER TURF FUNGICIDE IN WATER SO	0.00	22.00	1	Polyoxin D zinc salt	3	NO	NO
432-1477	PROSTAR 70 WDG FUNGICIDE	0.00	2.00	1	Flutolanil	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
5905-541	ARMICARB 100	0.00	0.05	1	Potassium bicarbonate	3	NO	NO
Other (Repellents, Biochemical Pesticides, Etc.)								
2724-421	ZOECON RF-292 BRIQUET	0	786.1270535	2520	S-Methoprene	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	4.378296875	1.640625	320	(7S)-Hydroprene	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	14.62067986	0.00289467	173	(7S)-Hydroprene	3	NO	NO
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	19.5	0	15	Copper oxide (ous)	2	NO	NO
81117-1	RO-PEL ANIMAL & RODENT REPELLENT	5.828125	0	15	Benzyl-diethyl [(2,6-xilyl-carbamoyl)methyl] ammonium saccharide; Thymol	3	NO	NO
71096-7	ULTRA FINE OIL	2.425826236	0	11	Metaldehyde	3	NO	NO
59807-4	HORMODIN 1	0	0.396832072	8	IBA	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0	54	7	Fox urine	3	NO	NO
67356-1	DEER-OFF DEER REPELLANT CONCENTRATE	0.95	0	3	Capsicum oleoresin; Garlic; Putrescent whole egg solids	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.005547613	0	3	Capsicum oleoresin	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0	1.0625	3	Metaldehyde	3	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1	0	2	Mefluidide, diethanolamine salt	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0	51.625	2	Paclobutrazol	3	NO	NO
1448-212	CHEMICIDE 100-15	10	0	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-94	PETTIT MARINE PAINT ULTIMA SR BIOCIDE ANTIFOULING	2	0	1	Copper oxide (ous); Cybutryne	2	NO	NO
84418-1	PIGNX CAULKING GEL	0.078125	0	1	Capsicum oleoresin	3	NO	NO

Appendix 2: Complete listing of pesticide products used by the Department of Parks and Recreation

Pesticide Products Used by DPR in 2011 by Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
Rodenticides								
7173-218	GENERATION MINI BLOCKS	0.22	843.91	1895	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	115.44	205	Bromadiolone	3	NO	NO
7173-213	MAKI PELLETS PLACEPACKS	0.00	64.06	160	Bromadiolone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	37.19	100	Bromadiolone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	10.94	87	Zinc phosphide	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	20.47	70	Bromadiolone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	0.03	16	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	0.13	15	Brodifacoum	3	NO	NO
56-42	BAIT BLOCK RODENTIICDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.20	14	Diphacinone	3	NO	NO
12455-97	TOMCAT QUICKSTRIKE PELLETED BAIT	0.00	0.18	14	Bromethalin	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	2.74	10	Difethialone	3	NO	NO
56-70	J.T. EATON AC FORMULA 90 READY-TO-USE RODENTICIDE	0.00	11.19	9	Chlorophacinone	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	0.05	9	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	3.74	8	Brodifacoum	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	3.19	8	Diphacinone	2	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	2.03	6	Difethialone	3	NO	NO
12455-77	WARFARIN RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	1.75	5	Warfarin	3	NO	YES
56-58	EATON'S AC FORMULA 90 RODENTICIDE	0.00	3.01	4	Chlorophacinone	3	NO	NO
12455-39	QUINTOX RAT AND MOUSE BAIT	0.00	0.88	4	Cholecalciferol	3	NO	NO
100-1051	TALON-G RODENTICIDE BAIT PACK PELLETS WITH BITREX	0.00	4.25	3	Brodifacoum	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.07	0.38	2	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-205	GENERATION PELLETS	0.00	0.35	1	Difethialone	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	0.01	1	Diphacinone	3	NO	NO
Insecticides								
432-1318	MERIT 75 WSP	0.00	733.11	4710	Imidacloprid	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	39.23	179.99	929	Cyfluthrin, beta	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	7.92	4.11	311	Esfenvalerate	3	NO	NO
352-652	DUPONT ADVION COCKROACH GEL BAIT	0.02	55.39	261	Indoxacarb	3	NO	NO
7946-25	IMICIDE HP	4.85	0.00	123	Imidacloprid	3	NO	NO
499-492	TC 228	0.00	2.82	76	Borax	3	NO	NO
1021-1603	NYLAR 10EC	0.02	0.00	31	Pyriproxyfen	3	NO	NO
64405-2	REDZONE BAIT	0.00	2.94	31	Boric acid	3	NO	NO
48813-1	SUFFOIL-X	4.80	0.00	23	Petroleum distillates	3	NO	NO
432-1369	MAJESTY	0.07	0.00	23	Imidacloprid	3	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.41	0.00	22	Spinosad	3	NO	NO
67425-14	ECOPCO ACU	0.27	19.22	22	Phenylethyl propionate	3	NO	NO
42750-153	BENEFIT 60 WP	0.00	28.99	21	Imidacloprid	3	NO	NO
432-772	DELTA DUST	0.00	0.33	20	Deltamethrin	3	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	0.47	98.94	19	Cyhalothrin, lambda	3	NO	NO
70051-2	TRIACT 70	12.54	0.00	18	Neem oil	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	2.63	0.00	17	Deltamethrin	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	1.60	17	Cyfluthrin	3	NO	NO
100-896	AVID 0.15 EC MITICIDE/INSECTICIDE	0.41	0.00	13	Avermectin	2	NO	NO
400-508	FLORAMITE SC	0.37	0.00	12	Bifenazate	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.24	0.00	12	Pyriproxyfen	3	NO	NO
352-731	DUPONT ACELEPRYN INSECTICIDE	3.23	0.00	11	DPX-E2Y45	0	NO	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.51	0.00	11	(S)-Kinoprene	2	NO	NO
432-1471	KONTOS	0.06	0.00	11	Spirotetramat	3	NO	NO
432-1464	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	32.90	140.00	8	Trichlorfon	3	YES	NO
42750-115	IMIDIPRO SYSTEMIC INSECTICIDE	11.25	73.75	8	Imidacloprid	3	NO	NO
655-798	PRENTOX EXCITE (R)	0.01	0.00	8	Pyrethrins; Piperonyl butoxide	3	YES	NO
10404-66	LESCO HORTICULTURAL OIL INSECTICIDE	3.66	0.00	7	Petroleum distillates	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
48813-1	SUFFOIL-X	2.46	0.00	7	Petroleum distillates	3	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.84	0.00	7	Potassium laurate	2	NO	NO
67760-99	PROAXIS EX	0.76	18.00	7	Cyhalothrin, gamma	3	NO	NO
432-1457	MERIT FXT TABLET INSECTICIDE	0.00	5.10	7	Imidacloprid	3	NO	NO
352-746	DUPONT ADVION ANT GEL	0.00	0.36	7	Indoxacarb	3	NO	NO
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	0.62	6	Flonicamid	3	NO	NO
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	12.75	0.00	5	Chlorpyrifos	2	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	1.41	0.00	5	Cyhalothrin, lambda	2	NO	NO
82074-1	MYCOTROL ES	0.34	0.00	5	Beauveria bassiana GHA	3	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.38	5	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.00	1.88	5	Pyrethrins	3	YES	NO
19713-123	DAMOIL DORMANT & SUMMER SPRAY OIL	26.28	0.00	4	Kerosene	3	NO	NO
62719-471	MACH 2 2SC	25.75	0.00	4	Halofenozide	3	NO	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICIDE	3.90	9.13	4	Bifenthrin	3	YES	NO
86330-11	SUNSPRAY 6E PLUS	1.07	0.00	4	Mineral oil	3	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.73	0.00	4	Mineral oil	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.03	4	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
352-716	DUPONT PROVAUNT INSECTICIDE	0.00	10.25	4	Indoxacarb	3	NO	NO
81943-10	HAWK-I 75 WSP	0.00	4.80	4	Imidacloprid	3	NO	NO
66222-19	QUALI-PRO CHLORPYRIFOS 4E	42.90	0.00	3	Chlorpyrifos	2	NO	NO
74779-9	RTSA HORTICULTURAL OIL	0.76	0.00	3	Mineral oil	3	NO	NO
62719-515	M-PEDE INSECTICIDE/FUNGICIDE	0.09	0.00	3	Potassium laurate	2	NO	NO
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	450.00	3	Chlorpyrifos	3	NO	NO
45728-7	FERBAM GRANUFLO	0.00	2.25	3	Ferbam	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	0.20	3	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1227	LESCO SEVIN SL	8.00	0.00	2	Carbaryl	3	YES	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	7.50	20.00	2	Carbaryl	3	YES	NO
66222-40	PEDESTAL	0.67	0.00	2	Novaluron	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.03	0.00	2	Azadirachtin	3	NO	NO
72155-57	MERIT 0.22G ROSE, FLOWER & SHRUB CARE INSECTICIDE	0.02	0.00	2	Imidacloprid	3	NO	NO
62637-3	BMP 144 (200 G)	0.00	60.00	2	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO
499-496	TC 234	0.00	0.01	2	Avermectin	3	NO	NO
66222-192	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	0.00	6.56	2	Bifenthrin	3	YES	NO
432-1418	ALLECTUS 0.18 G PLUS TURF FERTILIZER INSECTICIDE	0.00	2.10	2	Bifenthrin; Imidacloprid	3	YES	NO
69592-19	CEASE	1.50	0.00	1	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-1421	ALLECTUS GC SC INSECTICIDE	1.17	0.00	1	Bifenthrin; Imidacloprid	3	YES	NO
42750-115	XYTECT 2F INSECTICIDE	0.16	0.00	1	Imidacloprid	3	NO	NO
74578-1	XYTECT INFUSIBLE INSECTICIDE	0.14	0.00	1	Imidacloprid	2	NO	NO
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.03	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
71711-4	AKARI 5SC MITICIDE- INSECTICIDE	0.02	0.00	1	Fenpyroximate	2	NO	NO
432-1353	MERIT 0.15 PLUS TURF FERTILIZER	0.00	0.00	1	Imidacloprid	3	NO	NO
432-1289	DYLOX 80 TURF AND ORNAMENTAL INSECTICIDE	0.00	15.00	1	Trichlorfon	2	YES	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	1.56	1	Avermectin	3	NO	NO
33906-23	SANMITE 75 WP MITICIDE/INSECTICID E	0.00	0.63	1	Pyridaben	2	NO	NO
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.07	1	Indoxacarb	3	NO	NO
73079-1	INTICE SWEET ANT GEL	0.00	0.03	1	Boric acid	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	0.00	1	Disodium octaborate tetrahydrate	3	NO	NO
432-1399	MERIT 2.5 PR	0.00	300.00	1	Imidacloprid	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
432-1328	MERIT 0.5 G INSECTICIDE	0.00	60.00	1	Imidacloprid	3	NO	NO
432-1227	LESCO SEVIN SL	0.00	30.94	1	Carbaryl	3	YES	NO
432-1478	FIPRONIL TECH	0.00	22.00	1	Fipronil	2	YES	NO
67702-6	ORTHO EXOSENSE BRAND OUTDOOR INSECT KILLER	0.00	1.50	1	Pyrethrins	3	YES	NO
67702-21	BAYER ADVANCED NATRIA INSECTICIDAL SOAP READY TO USE	0.00	1.00	1	Potassium laurate	3	NO	NO
499-459	MICRO-GEN ANT REACTOR	0.00	0.02	1	Sulfluramid	3	NO	NO
Herbicides								
62719-527	GARLON 4 ULTRA	2139.61	1.13	337	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	536.00	0.94	323	Glyphosate, dimethylammonium salt	3	NO	NO
524-579	ROUNDUP PROMAX	111.57	24.38	208	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	407.42	75.46	198	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	29.55	242.83	125	Trinexapac-ethyl	3	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	28.77	0.00	74	Pendimethalin	3	YES	NO
62719-176	PATHFINDER II	140.29	0.00	65	Triclopyr, butoxyethyl ester	3	NO	NO
62719-324	GLYPRO	10.28	0.00	58	Glyphosate, isopropylamine salt	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	18.57	0.00	52	Pendimethalin	3	YES	NO
72112-4	GLYPHOSATE PRO 4TM	2.79	0.00	33	Glyphosate, isopropylamine salt	3	NO	NO
62719-517	ACCORD XRT	7.13	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	8.48	0.00	28	Glyphosate, isopropylamine salt	3	NO	NO
71995-25	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	14.68	0.00	24	Glyphosate, isopropylamine salt	3	NO	NO
62719-40	GARLON 4	5.47	0.09	23	Triclopyr, butoxyethyl ester	3	NO	NO
62719-542	DIMENSION 2EW	35.37	0.00	14	Dithiopyr	2	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	5.79	0.00	13	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.02	29.81	13	Fenoxaprop-P (+)	3	NO	NO
81943-12	GOLDWING	3.09	0.00	12	Trinexapac-ethyl	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.40	9	Halosulfuron- methyl	3	NO	NO
66330-276	DICAMBA DMA 4# AG	0.00	46.61	8	Dicamba, dimethylamine salt	2	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	42.85	8	Dithiopyr	3	NO	NO
62719-151	TURF FERTILIZER - CONTAINS TEAM 0.92%	0.00	6.88	8	Benfluralin; Trifluralin	2	YES	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
83220-1	EZJECT SELECTIVE INJECTION HERBICIDE CAPSULES	0.00	13.72	7	Glyphosate, isopropylamine salt	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	18.00	64.63	6	Ethephon	1	NO	NO
264-267	ETHREL BRAND ETHEPHON PLANT REGULATOR	12.60	190.00	6	Ethephon	1	NO	NO
2217-754	TRIMEC 973 WEED & FEED	1.50	42.25	6	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
62719-258	TURFLON ESTER	1.41	0.00	6	Triclopyr, butoxyethyl ester	3	NO	NO
228-366	RAZOR HERBICIDE	2.68	0.00	4	Glyphosate, isopropylamine salt	3	NO	NO
228-635	LESCO REGIMAX PGR PLANT GROWTH REGULATOR	1.06	0.00	4	Trinexapac-ethyl	3	NO	NO
524-537	MON 78270 HERBICIDE	0.00	0.97	4	Glyphosate, potassium salt	3	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	10.32	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
228-264	RIVERDALE TRIPLET SELECTIVE HERBICIDE	6.00	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; Mecoprop-P	1	YES	NO
10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	4.00	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
62719-37	GARLON* 3A	1.82	0.00	3	Triclopyr, triethylamine salt	1	NO	NO
62719-92	CONFRONT	1.00	6.44	3	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	20.63	3	Dithiopyr	3	NO	NO
228-540	DYNAMO 40 WSP HERBICIDE	0.00	5.94	3	Dithiopyr	3	NO	NO
228-702	NUFARM PROSEGE SELECTIVE HERBICIDE	0.00	1.25	3	Halosulfuron-methyl	3	NO	NO
66330-293	LESCO T-STORM FLOWABLE TURF & ORNAMENTAL FUNGICIDE	8.60	0.00	2	Thiophanate-methyl	3	YES	YES
100-1139	BARRICADE 4SC HERBICIDE	3.00	37.50	2	Prodiamine	3	YES	NO
2217-759	EMBARC 2-S PLANT GROWTH REGULATOR	1.78	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
2217-833	SPEED ZONE BROADLEAF HERBICIDE	1.54	0.00	2	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecoprop-P	3	YES	NO
10404-100	LESCO PRE-M 0.86% PLUS FERTILIZER	0.14	34.40	2	Pendimethalin	3	YES	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	370.00	2	Bensulide; Oxadiazon	2	YES	YES
2217-581	GORDON'S TRIMEC WEED & FEED 24	0.00	1.36	2	Mecoprop-P	3	YES	NO
66222-151	QUALI-PRO ETHEPHON 2 SL	15.00	0.00	1	Ethephon	1	NO	NO
2217-529	TRIMEC BROADLEAF HERBICIDE BENTGRASS FORMULA	4.00	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	1.19	0.00	1	Clopyralid	3	NO	NO
62719-529	SCYTHE HERBICIDE	0.09	0.00	1	Nonanoic acid	2	NO	NO
100-1267	TENACITY	0.00	0.00	1	Mesotrione	3	NO	NO
10404-86	0.15% DIMENSION PLUS FERTILIZER	0.00	5000.00	1	Dithiopyr	3	NO	NO
2217-794	ANDERSONS GOLF PRODUCTS TURF FERTILIZER 28-0-4 WIT	0.00	1250.00	1	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
961-360	LEBANON FERTILIZER WITH DIMENSION (0.13%) CRABGRASS	0.00	1000.00	1	Dithiopyr	3	NO	NO
228-509	PRODEUCE	0.00	7.50	1	Glyphosate, isopropylamine; Prodiamine	3	YES	NO
2217-581	THE ANDERSONS PROFESSIONAL TURF PRODUCTS 22-2-4	0.00	4.40	1	Mecoprop-P	3	YES	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	3.50	1	Dithiopyr	3	NO	NO
524-535	MON 78365 HERBICIDE	0.00	0.56	1	Diquat dibromide; Glyphosate, monoammonium salt	3	NO	NO
352-401	DUPONT OUST HERBICIDE	0.00	0.06	1	Sulfometuron methyl	3	NO	NO
Fungicides								
60063-3	LESCO MANICURE ULTRA	0.14	1445.09	51	Chlorothalonil	2	YES	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	1627.40	36	Chlorothalonil	1	YES	NO
100-1093	HERITAGE FUNGICIDE	0.00	57.49	36	Azoxystrobin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	26.14	0.00	35	Hydrogen peroxide	1	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	61.86	0.00	26	Propamocarb hydrochloride	3	NO	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	187.41	0.00	24	Bacillus subtilis GBO3	3	NO	NO
100-796	SUBDUE MAXX	49.61	68.25	23	Mefenoxam	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	59.67	57.44	22	Propiconazole	2	YES	NO
66222-149	ARMOR TECH CLT 825	0.00	1236.00	22	Chlorothalonil	2	YES	NO
432-890	LESCO PRODIGY SIGNATURE	0.34	753.50	20	Fosetyl-Al	3	NO	NO
228-623	: NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	18.62	54.00	19	Propiconazole	2	YES	NO
7969-184	Insignia Fungicide	0.13	114.68	15	Pyraclostrobin	3	NO	NO
432-890	ALIETTE WDG BRAND FUNGICIDE	0.00	422.81	15	Fosetyl-Al	3	NO	NO
69592-19	RHAPSODY AS0	75.40	0.00	14	QST 713 strain of dried Bacillus subtilis	3	NO	NO
67690-37	CUPRO 2005 T/N/O	0.00	51.29	14	Copper hydroxide	1	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	26.00	0.00	12	Iprodione; Thiophanate-methyl	3	YES	YES
66222-161	QUALI-PRO FOSETYL -AL 80 WDG	10.00	340.25	12	Fosetyl-Al	3	NO	NO
432-1371	COMPASS	0.06	18.06	12	Trifloxystrobin	3	NO	NO
7969-224	CURALAN EG	0.00	256.56	12	Vinclozolin	3	YES	YES
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	91.00	0.00	11	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	141.20	11	Triadimefon	3	YES	YES
59639-144	V-10116 VPP FUNGICIDE	0.47	23.44	10	Metconazole	3	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	2350.00	10	Chlorothalonil	1	YES	NO
100-741	ALAMO FUNGICIDE	50.00	33.00	8	Propiconazole	2	YES	NO
69592-19	CEASE	13.25	0.00	8	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-1446	TARTAN FLO FUNGICIDE	10.19	30.00	8	Triadimefon; Trifloxystrobin	3	YES	YES
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	9.94	0.00	8	Triadimefon	3	YES	YES
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	95.00	8	Streptomyces lydicus WYEC 108	3	NO	NO
68173-3	AFFIRM WDG	0.00	34.98	8	Polyoxin D zinc salt	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	28.50	8	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
55146-96	AGRI-MYCIN 17	0.00	1.08	8	Streptomycin sulfate	3	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	53.10	0.00	7	Iprodione	3	YES	NO
432-1486	RESERVE FUNGICIDE	34.05	0.00	7	Chlorothalonil; Triconazole	2	YES	NO
86064-2	ARMOR TECH CLT 720 FL	27.50	0.00	6	Chlorothalonil	2	YES	NO
66222-214	QUALI-PRO IPRO 2SE	22.50	25.00	6	Iprodione	3	YES	NO
62719-388	FORE 80WP RAINSHIELD	6.00	149.00	6	Mancozeb	3	YES	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	3.58	8.38	6	Propiconazole	2	YES	NO
62719-463	EAGLE 20EW	1.01	0.00	6	Myclobutanil	3	NO	YES
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	81.75	6	Polyoxin D zinc salt	3	NO	NO
58185-30	FUNGO 50 WSB WETTABLE POWDER TURF & ORNAMENTAL SYS	0.00	5.00	6	Thiophanate-methyl	3	YES	YES
70870-1	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	2.09	6	Potassium bicarbonate	3	NO	NO
100-1216	BANNER HERITAGE MAXX	9.50	0.00	5	Azoxystrobin; Propiconazole	3	YES	NO
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.63	0.00	5	Fenarimol	3	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	6.37	5	Nicobifen	2	YES	NO
62388-1	NOGALL	0.00	4.41	5	Agrobacterium radiobacter strain K1026	3	NO	NO
100-1231	INSTRATA	39.50	0.00	4	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO
66222-154	EQUUS 720 SST	15.00	0.00	4	Chlorothalonil	2	YES	NO
66330-305	IPRODIONE 2SE TURF	11.00	0.00	4	Iprodione	3	YES	NO
100-1326	BANNER MAXX II	3.34	150.00	4	Propiconazole	3	YES	NO
100-769	MEDALLION FUNGICIDE	1.00	0.14	4	Fludioxonil	3	NO	NO
100-794	ANDERSONS GOLF PRODUCTS PYTHIUM CONTROL WITH MEFEN	0.00	305.00	4	Mefenoxam	3	NO	NO
1001-69	3336 F	15.00	0.00	3	Thiophanate-methyl	3	YES	YES
50534-209	MANICURE 6 FLOWABLE	13.75	0.00	3	Chlorothalonil	3	YES	NO
432-1414	26/36 FUNGICIDE	12.50	0.00	3	Iprodione; Thiophanate-methyl	2	YES	YES
83472-1	FUNGI-PHITE	7.50	0.00	3	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
73545-13	TOPSIN 4.5FL	4.25	0.00	3	Thiophanate-methyl	3	YES	YES

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
1001-70	3336 G	0.00	900.00	3	Thiophanate-methyl	3	YES	YES
9198-111	THE ANDERSONS 1.0% BAYLETON(R) FUNGICIDE	0.00	540.00	3	Triadimefon	3	YES	YES
70252-11	MEFENOXAM 2L	0.00	24.25	3	Mefenoxam	3	NO	NO
67690-35	JUNCTION	0.00	5.63	3	Copper hydroxide; Mancozeb	1	YES	NO
1001-78	3336 PLUS SYSTEMIC FUNGICIDE	5.00	0.00	2	Thiophanate-methyl	2	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	2.50	0.00	2	Propamocarb hydrochloride	3	NO	NO
71962-1	AGRI-FOS SYSTEMIC FUNGICIDE	2.04	0.00	2	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
400-521	TERRAGUARD SC	0.03	0.00	2	Triflumizole	3	NO	NO
9198-229	ANDERSONS GOLF PRODUCTS FLUID FUNGICIDE	0.00	240.00	2	Iprodione; Thiophanate-methyl	3	YES	YES
60063-3	ECHO 825	0.00	142.50	2	Chlorothalonil	2	YES	NO
1001-77	PROTECT DF	0.00	108.00	2	Mancozeb	3	YES	NO
7969-255	HONOR FUNGICIDE	0.00	88.80	2	Nicobifen; Pyraclostrobin	3	YES	NO
70506-185	PENNZOZEB 75 DF	0.00	80.00	2	Mancozeb	3	YES	NO
81943-7	PEREGRINE	0.00	40.00	2	Chlorothalonil; Thiophanate-methyl	1	NO	NO
432-1367	BAYLETON 50 WDG NURSERY AND GREENHOUSE SYSTEMIC FU	0.00	16.50	2	Triadimefon	3	YES	YES
69361-27	TEB PRO	0.00	12.00	2	Tebuconazole	3	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	0.00	2.75	2	Terrazole	3	YES	NO
464-693	CHEMICAR 15	10.00	0.00	1	Glutaraldehyde	1	NO	NO
100-1347	CONCERT II (FUNGICIDE)	10.00	0.00	1	Chlorothalonil; Propiconazole	1	YES	NO
66330-305	LESCO 18 PLUS	5.20	0.00	1	Iprodione	3	YES	NO
71962-1	ALUDE SYSTEMIC FUNGICIDE	5.00	0.00	1	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
50534-203	REACH	5.00	0.00	1	Triadimefon	1	YES	YES
1001-87	TORQUE FUNGICIDE	5.00	0.00	1	Tebuconazole	3	YES	NO
45728-26	SPOTRETE F	5.00	0.00	1	Thiram	3	NO	NO
69592-12	SERENADE ASO	1.50	0.00	1	QST 713 strain of dried Bacillus subtilis	3	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	1.06	0.00	1	Thiabendazole	3	NO	NO
58185-33	DOMAIN FL	0.06	0.00	1	Thiophanate-methyl	3	YES	YES
239-2522	ORTHO DACONIL 2787 MULTIPURPOSE FUNGICIDE	0.00	0.00	1	Chlorothalonil	2	YES	NO
74779-2	BACASTAT TREE INJECTION	0.00	0.00	1	Oxytetracycline hydrochloride	3	NO	YES
70644-1	EKSPUNGE	0.00	120.00	1	Phosphoric acid, monopotassium salt	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
62719-402	DITHANE DF RAINSHIELD	0.00	41.25	1	Mancozeb	3	YES	NO
66330-41	ENDORSE WETTABLE POWDER FUNGICIDE	0.00	33.00	1	Polyoxin D zinc salt	3	NO	NO
67690-38	PENTATHLON LF	0.00	28.00	1	Mancozeb	3	YES	NO
61842-10	AUTOGRAPH 70DF FUNGICIDE	0.00	25.20	1	Fosetyl-Al	2	NO	NO
68173-2	ENDORSE WETTABLE POWDER TURF FUNGICIDE IN WATER SO	0.00	22.00	1	Polyoxin D zinc salt	3	NO	NO
432-1477	PROSTAR 70 WDG FUNGICIDE	0.00	2.00	1	Flutolanil	3	NO	NO
5905-541	ARMICARB 100	0.00	0.05	1	Potassium bicarbonate	3	NO	NO
Other (Repellents, Biochemical Pesticides, Etc.)								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	19.50	0.00	15	Copper oxide (ous)	2	NO	NO
81117-1	RO-PEL ANIMAL & RODENT REPELLENT	5.83	0.00	15	Benzyl diethyl [(2,6-xylyl carbamoyl) methyl] ammonium saccharide; Thymol	3	NO	NO
71096-7	ULTRA FINE OIL	2.43	0.00	11	Metaldehyde	3	NO	NO
59807-4	HORMODIN 1	0.00	0.40	8	IBA	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0.00	54.00	7	Fox urine	3	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	36.27	5	S-Methoprene	3	NO	NO
67356-1	DEER-OFF DEER REPELLANT CONCENTRATE	0.95	0.00	3	Capsicum oleoresin; Garlic; Putrescent whole egg solids	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.01	0.00	3	Capsicum oleoresin	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	1.06	3	Metaldehyde	3	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0.00	51.63	2	Paclobutrazol	3	NO	NO
1448-212	CHEMICIDE 100-15	10.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-94	PETTIT MARINE PAINT ULTIMA SR BIOCIDE ANTIFOULING	2.00	0.00	1	Copper oxide (ous); Cybutryne	2	NO	NO

Appendix 3: Complete listing of “Best Management Practices” Insecticide Used Citywide in 2011

EPA Reg. #	EPA Prod Name	Volume in Gallons	Weight in Pounds	Total Applications	Active Ingredient Data
64405-2	REDZONE BAIT	1.11	937.44	4,700	Boric acid
352-652	DUPONT ADVION COCKROACH GEL BAIT	2.52	182.79	4,481	Indoxacarb
73049-429	V60035 CG	0.00	1352.56	3,203	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
432-1259	PRODUCT: RBF5	0.85	149.94	1,891	Fipronil
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	2372.47	1,724	Bacillus sphaericus
67425-14	ECOPCO ACU	59.45	30.33	1,721	Phenylethyl propionate
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.47	25.39	1,322	Fipronil
432-1257	MAXFORCE ROACH BAIT F.05	36.29	131.03	1,172	Fipronil
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	31.73	773	Avermectin
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	55465.39	577	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.16	32.47	401	Avermectin
279-3384	ROACH KIL COMMERCIAL	0.00	98.74	338	Boric acid
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	1.35	8.69	297	Hydramethylnon
352-746	DUPONT ADVION ANT GEL	0.00	7.50	175	Indoxacarb
67425-14	ECOPCO ACU CONTACT INSECTICIDE	4.64	0.38	87	Phenylethyl propionate
73766-1	GOURMET ANT BAIT GEL	0.20	1.12	85	Disodium octaborate tetrahydrate
73079-1	INTICE SWEET ANT GEL	0.06	1.17	78	Boric acid
352-668	DUPONT ADVION COCKROACH BAIT ARENA	0.08	2.80	61	Indoxacarb
1021-1828	MGK ROACH BAIT 2822	0.00	0.71	55	Avermectin
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.19	10.63	52	Hydramethylnon
499-384	JOHNSON WAX PROFESSIONAL BRAND BORIC ACID PRESSURI	0.06	0.07	43	Boric acid
1021-1603	NYLAR 10EC	10.17	0.00	40	Pyriproxyfen
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	1.00	1.13	35	Boric acid
73079-10	INVICT (TM) COCKROACH GEL	0.00	0.40	35	Imidacloprid
64405-2	LESCO TRIAD GRANULAR BAIT	0.41	0.06	34	Boric acid
48813-1	SUFFOIL-X	7.25	0.00	30	Petroleum distillates
73079-2	INTICE GRANULAR BAIT	0.00	21.22	27	Boric acid
2724-375	ALTOSID BRIQUETS	0.00	9.50	24	S-Methoprene
432-1262	MAXFORCE IBH10	0.00	3.96	24	Hydramethylnon
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	8.61	23	Avermectin
499-515	TC 273	0.00	2.97	23	Boric acid
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.41	0.00	22	Spinosad

64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	3.94	22	Boric acid
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	26.57	20	Bacillus thuringiensis subspecies israelensis strain BMP 144
70051-2	TRIACT 70	12.54	0.00	18	Neem oil
73079-11	ABAMECTINE COCKROACH GEL	0.00	0.11	17	Avermectin
432-1256	MAXFORCE FC ANT BAIT STATIONS	13.50	4.38	16	Fipronil
1677-191	ECO2000-GR	0.00	5.38	15	Boric acid
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	1.25	14	Fipronil
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.24	0.00	12	Pyriproxyfen
279-3385	DRAX ANT KILL GEL	0.00	0.73	11	Boric acid
73079-5	INTICE ROACH BAIT	0.00	2.08	9	Boric acid
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.84	0.00	7	Potassium laurate
1677-196	ECO 2000-XP FRESHBAIT	0.00	0.96	7	Boric acid
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.34	7	Hydramethylnon
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	0.66	6	Avermectin
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.05	0.00	5	S-Methoprene
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.38	5	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles
100-1260	OPTIGARD ANT GEL BAIT	0.04	0.00	4	Thiamethoxam
352-716	DUPONT PROVAUNT INSECTICIDE	0.00	10.25	4	Indoxacarb
432-1455	BES 0026 FLY SPOT BAIT	0.25	0.00	3	Imidacloprid
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.04	0.00	3	Disodium octaborate tetrahydrate
352-627	DUPONT ADVION FIRE ANT BAIT	0.00	4.13	3	Indoxacarb
83362-3	FOURSTAR BRIQUETS	0.00	3.33	3	Bacillus sphaericus; Bacillus thuringiensis subspecies israelensis strain BMP 144
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	0.20	3	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52
432-1263	MAXFORCE ANT BAIT F2	0.00	0.00	3	Fipronil
352-776	DUPONT ARILON INSECTICIDE	2.25	0.00	2	Indoxacarb
62637-3	BMP 144 (200 G)	0.00	60.00	2	Bacillus thuringiensis subspecies israelensis strain BMP 144
1677-195	ECO2000-RX FRESHBAIT	0.00	0.26	2	Boric acid
499-509	WHITMIRE DE 1606	0.00	0.23	2	Diatomaceous earth
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.07	2	Fipronil
73049-11	VECTOBAC - AS	0.03	0.00	1	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.03	0.00	1	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52

432-1478	FIPRONIL TECH	0.00	22.00	1	Fipronil
67702-21	BAYER ADVANCED NATRIA INSECTICIDAL SOAP READY TO USE	0.00	1.00	1	Potassium laurate
499-527	TC 249	0.00	0.06	1	Dinotefuran; Diatomaceous earth
3095-72	PIC ANT KILLING SYSTEMS	0.00	0.03	1	Borax; Boric acid
352-664	DUPONT ADVION ANT BAIT ARENA	0.00	0.02	1	Indoxacarb