



# **Pesticide Use by New York City Agencies in 2014**

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Bureau of Environmental Surveillance and Policy  
New York City Department of Health and Mental Hygiene

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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 pesticide use by City agencies annually. In 2014, 28 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 162,584 times by New York City in 2014. Agencies used a total of 7,929 gallons and 100,066 pounds of pesticides. (Table 1)
- Insecticides were the most frequently applied type of pesticide, accounting for nearly 67% of all applications. (Table 1)
- The most heavily used type of pesticide by volume was fungicides, accounting for 35%, while insecticides made up 53% of all pesticides by weight used by city agencies (Table 1). When excluding the DOHMH West Nile Virus (WNV) larviciding program, rodenticides were the most heavily used by weight at 54%.
- 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 2009 (the last year New York State released its data), local government use accounts for an estimated 3.2% of the total volume of liquid pesticides, and 12.8% of the total pounds of solid pesticides applied within the five boroughs of New York City.
- In comparison to reporting amounts in 2013, there was a 16% increase in herbicide use by volume reversing a declining trend (Figure 2). Much of the change was due to a 9% increase in glyphosate products used (Figure 3).
- The Parks Department continued to no longer apply pre-emergent herbicides near roadways and along walkways and perimeters of city parks.
- There was a 21% increase in insecticides by volume. Most of that increase was an 81% increase in pyrethroids applied by NYCHA to control bed bugs. (Figure 2 and Figure 6)
- “Best Management Practices” products (Appendix 3) – largely gel and bait insecticides with little potential for human exposure – accounted for 22% of the number of insecticide applications in 2014. When excluding WNV larvicides, the number of these applications reported by weight decreased 13.4% as compared with 2013 (data not shown).

Additionally, the total quantity (weight) of these “Best Management Practices” products used to treat roaches decreased by 5%. (Figure 4)

- There was a 2% increase in rodenticide amounts used by agencies compared with 2013. The frequency of applications and size of neighborhood rat ‘indexing’ campaigns can influence year-to-year trends in use. (Figure 1)
- As in previous years roaches were the most commonly targeted pests in 2014, with rats, bed bugs, mice and weeds making up the top 5 pests by number of total applications. (Table 3)
- The amount of pyrethroids by volume applied to target roaches declined 15% from 2013 to 2014 continuing a recent declining trend after a 43% decrease from 2012 to 2013 (Figure 6)

# Pesticide Use by New York City Agencies in 2014

## 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/l137> 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 eighth 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 2014, Twenty eight agencies reported electronic data.

## 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 2014. 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 City 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 available for download at <http://nyc.gov/health/1137>.

### 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 chemical 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 all contractors have fully complied with Local Law 37 reporting requirements. There are some limitations in the data:

- Staff and contractor turnover has led to difficulty maintaining dependable and timely reporting from some agencies.
- 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:

- The formats used were more streamlined for 2014 and we were able to capture more information pertaining to the target organisms of the pesticides applied by agencies.
- Reporting errors, especially in reporting the incorrect units, were greatly reduced in 2014 due to greater use of the NYCPURS system with input standardization and consistent formatting.

In 2014, 98% of records were either imported or directly entered into the NYCPURS system. 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 2014 were: Contrac All-Weather Blox®, Generation Mini Blocks®, Weatherblok Bait with Bitrex® and Difethialone Paste Place Packs®.

In 2014, a total of 30,012 pounds of rodenticides were applied by City agencies, accounting for 30.0% by weight of all pesticides applied, and 54.1% by weight when excluding WNV larvicides. (Table 1)

#### **Insecticides**

A total of 2,442 gallons and 52,706 pounds of insecticides were applied by New York City in 2014, accounting for 30.8% by volume, and 52.7% by weight of the total applications. Biological insecticides applied to target mosquito larvae account for 84.6% of insecticides by weight (Table 1). When those products are excluded, 8,092 pounds of insecticides by weight were applied making up 14.6% of solid pesticides applied. Insecticides used by NYC agencies in 2014 were largely comprised of three classes of products; conventional pyrethrins and pyrethroids, organophosphates and carbamates, and “Best Management Practices” products, which either use active ingredients with very low toxicity or involve formulation or application methods that minimize potential exposure and environmental spread.

#### ***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 2014 include Whitmere Optem ME PT 600®, Steri-Fab®, Demand CS Insecticide®, Tempo SC Insecticide®, Suspend SC Insecticide® and Evercide Esfenvalerate 6.4% CS.

Together, pyrethrins and pyrethroids accounted in 2014 for 82.7% of the total insecticides applied by volume and 6.8% by weight, 44.3% by weight when excluding WNV larvicides. These products made up 70.5% of the total number of insecticide applications. There was a 33.1% increase in pyrethroids applied by volume in 2014, mostly due to increased applications by NYCHA to targeting bedbugs with an 81% increase by volume and more than double the number applications as 2013.

### ***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 main organophosphate active ingredients used in 2014 were outdoor applications of chlorpyrifos on certain golf courses. The few carbamate active ingredients used in 2014 include methomyl used in containerized baits. Organophosphate and carbamate products applied by agencies in 2014 include Nufarm Chlorpyrifos SPC 4 Insecticide®, Chlorpyrifos 4E AG®, Stimukil Fly Bait® and Golden Malrin RF-128 Fly Killer®.

Reports submitted by agencies showed that, in 2014, the use of organophosphates and carbamates accounted for just 2.2% of the total insecticides applied by agencies by volume a 57% decrease from 2013 levels, and 0.4% by weight, 2.6% by weight excluding WNV larvicides, a 90% decrease from 2013, with 81% of the amount by weight and 99.9% of the amount by volume applied by NYC on golf courses. These products remain a very small percentage of the insecticides used by city agencies. These products made up only 0.11% 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 Practices” Insecticides (BMP). 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 G Biological Larvicide Granules®, Vectolex GC Biological Larvicide®, Avert Prescription Treatment TC 93A Bait®, and DuPont Advion Cockroach Gel Bait®.

In 2014 9.0% of the total insecticides applied by volume, and 92.3% by weight, were insecticidal dusts, gels and baits, or biological larvicides. Excluding WNV larvicides, the totals equal 23.1% of insecticide products by weight. These products made up 22% of the total number of insecticide applications.

## **Herbicides**

The herbicides used by New York City agencies in 2014 were used primarily for vegetation control in parks and for the maintenance of highways and street medians. The active ingredients most commonly used in 2014 were glyphosate, dinitroanilines, chlorophenoxyacetic acids and ureas. Herbicides were a major contributor of pesticide use by agencies.

A total of 1,697 gallons and 9,000 pounds were applied, accounting for 21.4% of total volume and 9.0% of total weight, 16.2% when excluding WNV larvaciding, of all pesticides used by agencies in 2014. (Table 1)

### ***Glyphosate***

The most heavily used herbicides applied as a liquid by agencies were glyphosates best known as Roundup® products. Glyphosate is a broad-spectrum, non-selective systemic herbicide that can be used throughout the growing season. In early 2015 the International Agency for Research on Cancer (IARC), a branch of the World Health Organization (WHO) changed the classification for glyphosate to a “probable human carcinogen.” Though having little acute toxicity, there has been some growing concern that chronic exposure to glyphosate or to inactive ingredients with which it is commonly formulated could present a risk for the development of certain cancers. There is also some evidence that heavy use of the chemical in warm climates with soil high in certain toxic metals could present significant risk in developing severe kidney damage. Currently no regulatory determination has been made at the federal or state level that could change to prohibition status of these herbicide products under Local Law 37. However, DOHMH encourages the pursuit of alternative weed control methods that would reduce the need for these herbicides. Glyphosate use has increased as agencies have phased out the use of other herbicides prohibited under Local Law 37. In 2014 53% of applications of herbicide by volume contained glyphosate, a 6% decrease from 2013.

### ***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 2014 were The Andersons Weed & Grass Preventer With 5% Trammel Herbicide® and Pendulum CS Herbicide®. In 2013 the Parks Department chose to no longer use pendimethalin-containing herbicides, after they had in previous years requested a waiver to use this herbicide around cobblestones and concrete surfaces of sidewalks or walkways in areas adjacent to roadways, such as park perimeters or “Greenstreets” or in areas adjacent to roadways with limited access from the public.

### ***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 2013 were Riverdale Vanquish Herbicide® and Lesco Three-Way Bentgrass Selective Herbicide®. In 2014, the only use of these products were applications along city highways by the DOT and a small number of applications on the city’s golf courses.

### ***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 Sulfometuron methyl and Halosulfuron-methyl. Common urea products used by NYC agencies in 2014 were Dupont Oust Extra Herbicide® and Nufarm Prosedge Selective 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 2014 were chlorothalonil, thiophanate-methyl, propiconazole, azoxystrobin, iprodione and triadimefon. Common fungicide products applied in 2014 include Heritage Fungicide®, Bayleton Flo Turf and Ornamental Fungicide® and Lesco Twosome Fungicide®.

Fungicides make up a smaller portion of the overall pesticide use by agencies, accounting for 36.2% of the total pesticide applied by volume and 8.3% by weight, and 15.0% by weight when excluding WNV larvicides. (Table 1) Though the total amount of fungicides reported by volume has only increased slightly since 2012, they are now the most heavily used type of pesticide reported by volume after declines in insecticides and herbicides over the past few years.

Much of this increase could be due to a shift to a liquid formulation from a solid product. (Figure 1 & 2)

## 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 162,584 times by New York City in 2014. The pesticides applied most frequently by New York City were insecticides. Insecticides were the most heavily used in terms of weight and fungicides in terms of volume. In 2014, 84.6% 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 14.6% 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. All following tables are sorted in order of descending number of applications within each pesticide type listed below.

**Table 1. Total Applications Reported Applied by NYC Agencies in 2014, by Pesticide Type**

Pesticide Type	Volume		Weight			Times Applied	
	Gallons	% of Total	Pounds	% of Total	% wo WNV	Number	% of Total
Rodenticide	884.04	11.1%	30,011.65	30.0%	54.1%	48,600	29.9%
Insecticide	2,442.20	30.8%	52,705.64	52.7%	14.6%	108,847	66.9%
Herbicide	1,696.90	21.4%	8,999.86	9.0%	16.2%	4,230	2.6%
Fungicide	2,871.57	36.2%	8,340.76	8.3%	12.8%	871	0.5%
Other	34.00	0.4%	8.14	0.0%	0.0%	36	0.0%
<b>Totals:</b>	<b>7,928.71</b>		<b>100,066.05</b>			<b>162,584</b>	

Table 2, below lists the ten most frequently used products used for each pesticide type on New York City owned or leased property in 2014. 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 or developmental 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 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	690.15	6,635.65	18,043	Difethialone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	11,280.14	11,715	Bromadiolone	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	2,466.13	5,532	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.07	4,347.55	4,329	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,283.45	2,802	Bromadiolone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	182.36	1,839.12	1,721	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	332.57	910	Brodifacoum	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	291.73	785	Diphacinone	2	NO	NO
7173-218	GENERATION MINI BLOCKS	7.81	404.88	493	Difethialone	3	NO	NO
12455-106	TERAD3 BLOX	0.68	144.25	398	Cholecalciferol	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	506.76	0.09	50,705	Deltamethrin	3	NO	NO
397-13	STERI-FAB	1,075.00	1,503.51	12,214	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	55.49	0.00	6,582	Cyfluthrin	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	44.65	0.00	5,710	(7S)-Hydroprene	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.16	119.47	5,552	Indoxacarb	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	60.35	0.00	3,836	Cyfluthrin, beta; Imidacloprid	3	NO	NO
432-1259	PRODUCT: RBF5	0.10	144.71	3,217	Fipronil	3	YES	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	30.09	122.38	2,760	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
100-1484	ADVION COCKROACH GEL BAIT	0.36	201.48	2,402	Indoxacarb	3	NO	NO
73049-429	VECTOMAX FG	0	961.3	1,934	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	453.90	736.34	1,596	Glyphosate, potassium salt	3	NO	NO
62719-556	ACCORD XRT II	296.95	0.00	491	Glyphosate, dimethylammonium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	83.91	0.00	461	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	89.85	0.25	325	Triclopyr	2	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.09	27.97	211	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	50.77	0.00	207	Dicamba, diglycolamine salt	3	NO	NO
432-1516	ESPLANADE 200 SC	13.36	0.00	202	Indaziflam	3	NO	NO
62719-176	PATHFINDER II	118.85	0.00	160	Triclopyr, butoxyethyl ester	3	NO	NO
100-937	PRIMO MAXX	24.14	0.00	59	Trinexapac-ethyl	3	NO	NO
62719-324	GLYPRO	10.23	0.00	52	Glyphosate, isopropylamine salt	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	731.50	0.00	102	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	302.70	0.00	54	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	45.34	41	Azoxystrobin	3	NO	NO
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	63.00	0.00	32	Propamocarb hydrochloride	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	76.75	0.00	31	Propamocarb hydrochloride	3	NO	NO
100-1347	CONCERT II	225.00	0.00	30	Propiconazole	1	YES	NO
79676-17	LESCO TWOSOME FUNGICIDE	95.00	0.00	30	Iprodione; Thiophanate-methyl	3	NO	NO
66222-149	ARMOR TECH CLT 825	0.00	1,970.00	30	Chlorothalonil	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
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	17.76	0.00	29	Pyraclostrobin	2	NO	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	3	NO	NO
<b>Other</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	21.00	0.00	19	Copper oxide (ous)	2	NO	NO
59807-4	HORMODIN 1	0.00	0.79	7	IBA	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	2.34	4	Metaldehyde	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	2	Gibberellins	2	NO	NO
55943-1	HOT FOOT BIRD REPELLENT	0.00	5.00	2	Polybutenes	3	NO	NO
1448-212	CHEMICIDE 100-15	12.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-14	WOOLSEY/Z*SPAR SUPER TOX ANTI-FOULING FINISH B-74	1.00	0.00	1	Copper oxide (ous)	2	NO	NO

### C. CHANGES IN PESTICIDE USE

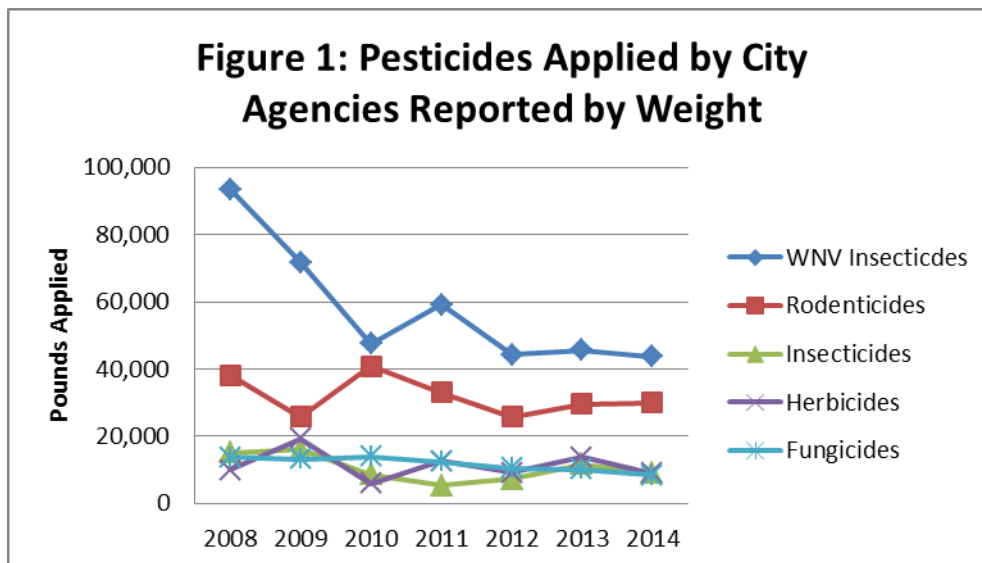
The level of completeness of agency pesticide reporting has improved dramatically over the past five years. Having a sufficiently complete record of pesticide applications by the City of New York and its contractors has now made it possible for a year to year comparison of trends in pesticide use by city agencies. Some the analyses 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, 2014**

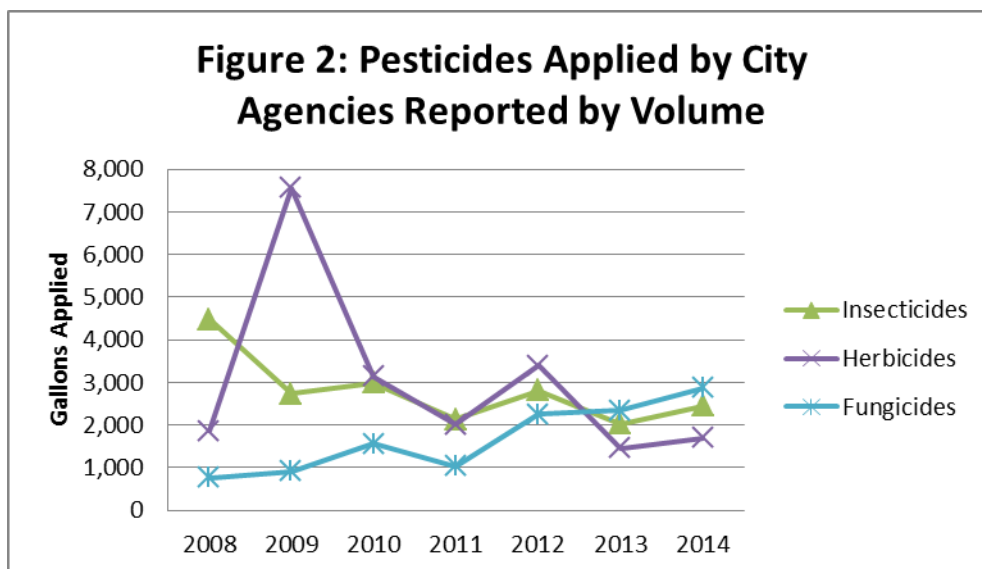
Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Roaches	663	1,755	73,254	45%
Rats	693	19,518	28,953	18%
Bedbugs	1,268	1,069	26,582	16%
Mice	195	10,445	19,631	12%
Weeds, vines, or grasses	2,012	9,000	4,229	3%
Mosquitoes	15	47,196	3,179	2%
Other Crawling Insects	209	1,983	2,072	1%
Flying insects	197	510	1,595	1%
Ants	37	101	1,433	1%
Fungal Disease or Infestation	2,872	8,341	871	1%
Other Pests	84	134	750	0%

Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Other Rodents	0	16	35	0%
<b>Totals:</b>	<b>8,244</b>	<b>100,066</b>	<b>162,584</b>	

Figures 1 and 2 show trends from 2008 through 2014 in use of pesticides by city agencies by type of pesticide, 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. Pesticides reported by weight were fairly consistent from 2013 to 2014 with an overall 10% decrease in use reported by weight. Much of the decrease was driven by a 35% decline from levels reported in 2013 of solid herbicides. A decline of 18% was seen in the reporting of solid fungicides which are almost exclusively applied to turf on city golf courses (Figure 1).

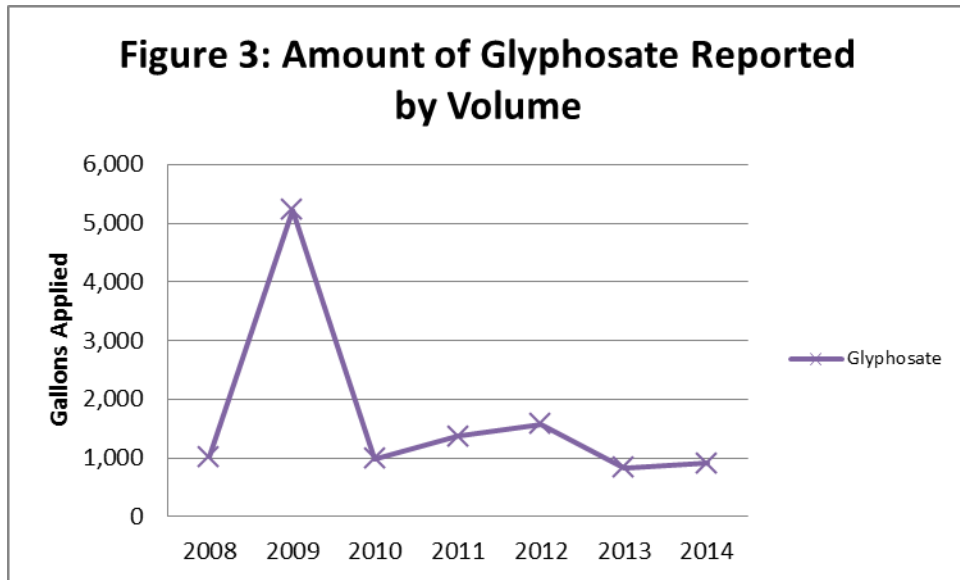


Rodenticides and WNV larvacides are not included in Figure 2 as the products are almost exclusively solid formulations.





In 2014 overall herbicides use reported by volume increased by 16% (Figure 2) with a slight 9% increase in the amount of glyphosate applied by volume (Figure 3). The high volume of herbicide (mostly glyphosate) used in 2009 was due in part to large discreet projects by the Parks department to control invasive species in remote, often wooded, parkland. In 2014 forest restoration work was again done by Parks and their contractors, accounting for a substantial proportion of the city’s glyphosate use.

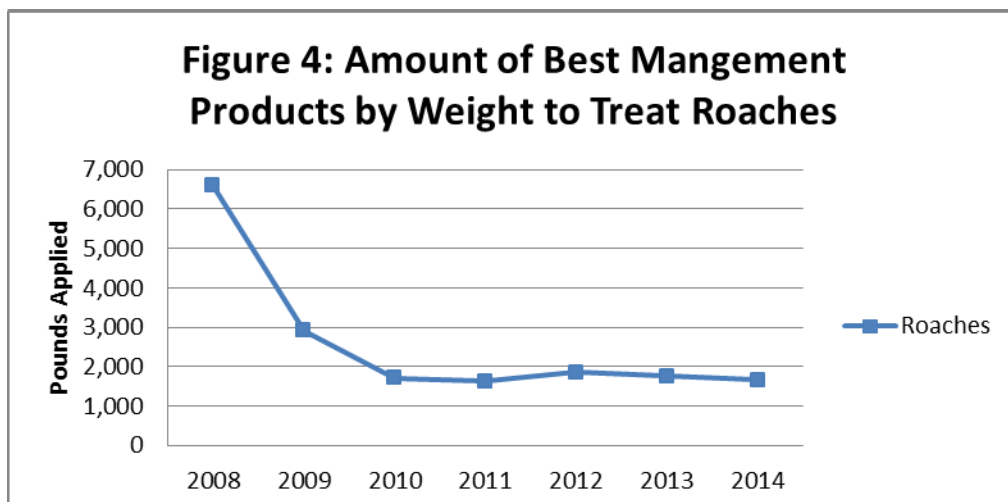


There was also a 21% increase in insecticide reported by volume from higher amounts of certain pyrethroid products. Fungicides reported by volume increased by 22% in 2014.

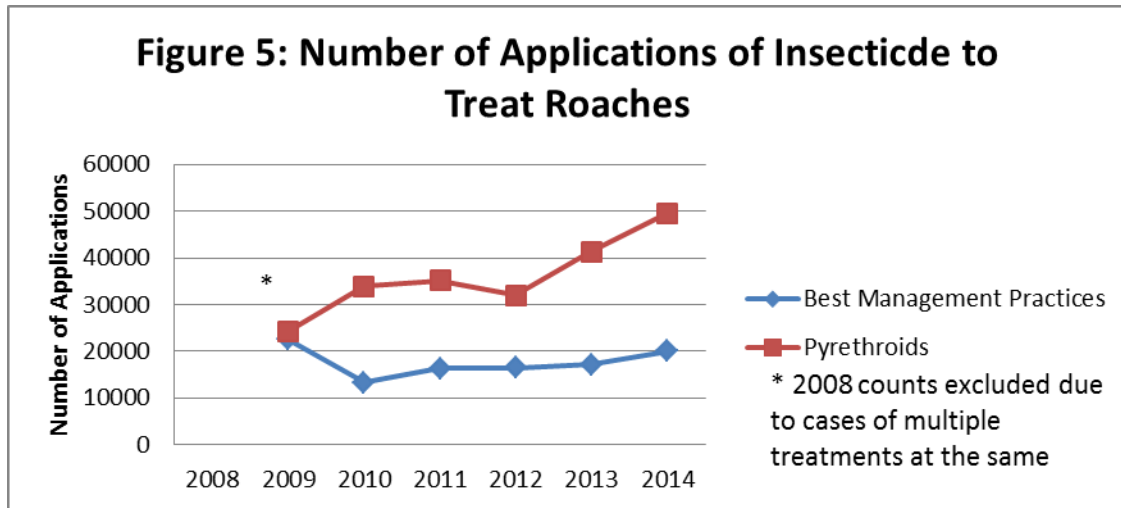
From 2008 to 2014 there was a 45% decrease in use of insecticides reported by volume, with most of the change occurring between 2008 and 2009 (Figure 2). From 2008 to 2014 there was also a drop of 53% in WNV larvicides by weight (Figure 1).

### Use of spray formulations vs. Best Management Practices

After a large reduction in BMP products to combat roaches from 2008 to 2010, the amount of use reported for these products seems to have leveled off since then. Use of these products slightly declined by 6% in 2014 (Figure 4).

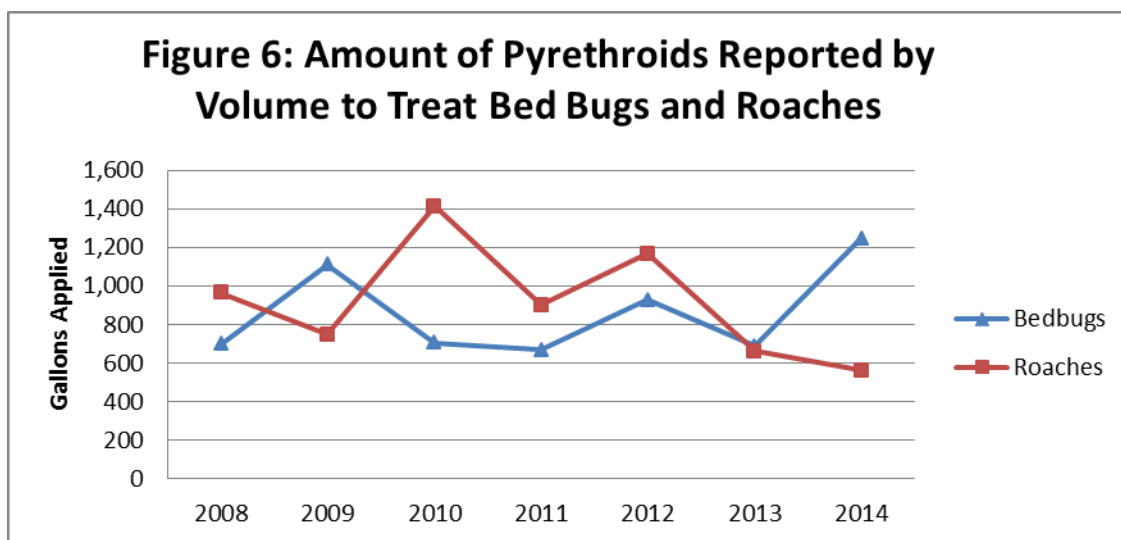


There was a 20% increase in the number of pyrethroid applications to treat roaches from 2013 to 2014, while the number of applications of BMP products increased by 17% (Figure 5). Thus best management products had a smaller average amount of product used per application vs the average amount used in 2013.



### Bed Bugs vs. Roaches

Looking at pyrethroid spray products targeting roaches reported by volume, the use of these products decreased by 15% from 2013 to 2014 after decreasing by 43% from 2012 to 2013 (Figure 6). There was also a 81% increase from 2013 to 2014 in gallons of pyrethroids used by city agencies to treat bed bugs after a 26% decrease from 2012 to 2013 (Figure 6). The number of applications of pyrethroids to treat bed bugs more than doubled in 2014, an increase of 123%, due to an equivalent increase in the number of applications for bed bugs reported by NYCHA (data not shown). However, the number of pyrethroid applications to treat roaches increased by 20% (Figure 5). This difference in 2014 seems partly due to a smaller average application rate of pyrethroids by NYCHA, which made 93% of the pyrethroid applications targeting roaches.



## Rodents

Rodenticide use has fluctuated year to year with no clear trend, which was true again in 2014. The amount reported by weight increased by 15% in 2014 after a 22% decline in 2013. Year to year changes may be due in part to the frequency of neighborhood rat indexing activity.

## Mosquitoes

The DOHMH MNV Vector Control program applied 43,652 pounds of larvicide and 1,961 pounds of adulticide in 2014. This was a slight decrease of 4% in larvicide reported by weight from 2013 (Figure 1). This maintains trend that has been declining since 2008. 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 WNV positive mosquito populations around the city.

## 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 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 Department of Juvenile Justice (DJJ) was merged into this agency in December 2010. The agency contracts for pest management services. Table 4 summarizes pesticide use by pesticide type. Table 5 lists all pesticide products used by ACS in 2014, primarily at facilities previously under management of the DJJ.

**Table 4: Types of Pesticides Used by ACS in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	94.8	88.5%	88	18.4%
Insecticide	0.0	100.0%	12.3	11.5%	389	81.6%
<b>Totals</b>	<b>0.0</b>		<b>107.1</b>		<b>477</b>	

**Table 5: Pesticide Products Used by ACS in 2014**

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	89.25	66	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	5.51	22	Difethialone	3	NO	NO
<b>Insecticides</b>								

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.04	7.93	360	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	4.27	16	Boric acid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.04	6	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.00	0.00	3	Deltamethrin	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.05	3	Fipronil	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.00	1	Fipronil	3	YES	NO

### ***Aging, Department for the***

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. The agency reported that no pesticides were used during 2014.

### ***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 2014.

**Table 6: Types of Pesticides Used by BPL in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	127.8	78.5%	549	41.9%
Insecticide	0.0	100.0%	35.1	21.5%	760	58.1%
<b>Totals</b>	<b>0.0</b>		<b>162.9</b>		<b>1,309</b>	

**Table 7: Pesticide Products Used by BPL in 2014 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
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EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	127.23	548	Difethialone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	0.62	1	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1498	DUPONT ADVION ANT GEL	0.00	3.92	78	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	9.25	30	Boric acid	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.01	0.00	14	Deltamethrin	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	1	Esfenvalerate	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	0.00	0.00	1	Cyfluthrin, beta; Imidacloprid	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.05	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO

### Chief Medical Examiner

The Office of Chief Medical Examiner (OCME) is responsible for investigating deaths in unusual circumstances, approving requests for cremation, providing additional forensic services to support criminal investigations, and managing all functions of the City mortuary. The agency contracts for pest control through the city-wide contract administered by DCAS. Table 8 summarizes pesticide use by pesticide type. Table 9 lists all pesticide products used by OCME in 2010.

**Table 8: Types of Pesticides Used by OCME in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	153.5	99.5%	18	42.9%
Insecticide	0.0	0.0%	0.8	0.5%	24	57.1%
<b>Totals</b>	<b>0.0</b>		<b>154.2</b>		<b>42</b>	

**Table 9: Pesticide Products Used by OCME in 2014**

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	143.56	11	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	9.90	7	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.65	21	Indoxacarb	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.13	3	Indoxacarb	3	NO	NO

## City University of New York

The City University of New York (CUNY) 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 15 colleges, Baruch College, Borough of Manhattan Community College, Brooklyn 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 10 summarizes pesticide use by pesticide type. Table 11 lists all pesticide products used by CUNY in 2014.

**Table 10: Types of Pesticides Used by CUNY in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.2%	270.5	39.5%	417	38.5%
Insecticide	1.7	84.2%	14.8	2.2%	653	60.3%
Herbicide	0.3	15.6%	400.0	58.4%	13	1.2%
<b>Totals</b>	<b>2.0</b>		<b>685.3</b>		<b>1,083</b>	

**Table 11: Pesticide Products Used by CUNY in 2014 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
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	194.75	250	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	28.62	105	Difethialone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	42.04	39	Brodifacoum	3	NO	NO
12455-139	Final Soft Bait	0.00	1.92	6	Brodifacoum	3	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	0.77	4	Brodifacoum	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	0.59	4	Diphacinone	2	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.11	4	Diphacinone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	0.13	2	Chlorophacinone	2	NO	NO
100-1056	ALLIANCE BLUE DEATH MATE	0.00	0.00	1	Brodifacoum	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	1.44	1	Diphacinone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	0.11	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
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	3.16	324	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.29	0.00	52	Deltamethrin	3	NO	NO
100-1484	ADVION COCKROACH GEL BAIT	0.00	0.38	50	Indoxacarb	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.53	42	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	7.28	38	Boric acid	3	NO	NO
432-1262	MAXFORCE IBH10	0.91	0.00	36	Hydramethylnon	3	YES	YES
1021-1828	MGK ROACH BAIT 2822	0.00	0.88	24	Avermectin	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.03	0.00	20	Cyhalothrin, lambda	3	NO	NO
432-763	SUSPEND SC	0.07	0.00	19	Deltamethrin	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.80	12	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.05	0.38	9	Fipronil	3	YES	NO
1021-2574	MGK FORMULA 2964	0.02	0.00	8	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.06	4	Fipronil	3	YES	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.08	0.02	3	Fipronil	3	YES	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.03	3	Dinotefuran	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.17	0.00	2	D-trans Allethrin; Phenothrin	3	YES	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.05	0.00	1	Fipronil	3	YES	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.02	0.00	1	Hydramethylnon	3	YES	YES
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	0.00	0.00	1	Bifenthrin	3	YES	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO
499-509	WHITMIRE DE 1606	0.00	0.25	1	Diatomaceous earth	3	NO	NO
432-772	DELTA DUST	0.00	0.00	1	Deltamethrin	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.00	1	Indoxacarb	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
961-362	LEBANON FERTILIZER WITH BARRICADE (0.43%) PREEMERGENCE WEED CONTROL (	0.00	2000.00	3	Prodiamine	3	YES	NO
10088-55	TURF KING	2.00	0.00	2	Prometon	3	NO	NO
524-579	ROUNDUP PROMAX	0.31	240.00	12	Glyphosate, potassium salt	3	NO	NO
9198-237	THE ANDERSONS WEED & GRASS PREVENTER WITH 5% TRAMMEL HERBICIDE (DISPER	0.00	160.00	1	Trifluralin	3	YES	NO

## Citywide Administrative Services, Department of

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 manages the city-wide contract for pest management services which city agencies can buy into. This contract is effective from May 1, 2014 to April 30, 2017. Several agencies are housed in DCAS managed buildings and the report submitted reflects these applications. Table 12 summarizes pesticide use by pesticide type. Table 13 lists all pesticide products used by DCAS in 2014.

**Table 12: Types of Pesticides Used by DCAS in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	619.0	91.4%	506	42.9%
Insecticide	0.0	100.0%	58.2	8.6%	673	57.1%
<b>Totals</b>	<b>0.0</b>		<b>677.2</b>		<b>1,179</b>	

**Table 13: Pesticide Products Used by DCAS in 2014 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
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	531.23	268	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	87.81	238	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	23.16	594	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	34.76	59	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
100-1498	DUPONT ADVION ANT GEL	0.00	0.22	14	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.01	0.00	4	Deltamethrin	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.06	1	Fipronil	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	0.00	1	Fipronil	3	YES	NO

### **Consumer Affairs, Department**

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 14 summarizes pesticide use by pesticide type. Table 15 lists all pesticide products used by DCAS in 2014.

**Table 14: Types of Pesticides Used by DCA in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Insecticide	0.0	0.0%	0.3	100.0%	8	100.0%
<b>Totals</b>	<b>0.0</b>		<b>0.3</b>		<b>8</b>	

**Table 15: Pesticide Products Used by DCA in 2014 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
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.02	5	Indoxacarb	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.01	2	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	0.25	1	Boric acid	3	NO	NO

### **Corrections, Department of**

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 16 summarizes pesticide use by pesticide type. Table 17 lists all pesticide products used by DOC in 2014.

**Table 16: Types of Pesticides Used by DOC in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	1.7	4.5%	595.7	80.2%	270	13.0%
Insecticide	37.1	95.5%	147.4	19.8%	1,808	87.0%
<b>Totals</b>	<b>38.8</b>		<b>743.0</b>		<b>2,078</b>	

**Table 17: Pesticide Products Used by DOC in 2014 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
<b>Rodenticides</b>								
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	145.31	78	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.05	278.36	72	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	87.85	57	Bromadiolone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	28.06	27	Bromadiolone	3	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	1.70	51.56	26	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	4.00	9	Diphacinone	2	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	0.53	1	Difethialone	3	NO	NO
<b>Insecticides</b>								
432-1363	TEMPO SC INSECTICIDE	9.22	0.00	572	Cyfluthrin, beta	3	NO	NO
432-763	SUSPEND SC	9.22	0.00	418	Deltamethrin	3	NO	NO
432-1259	PRODUCT: RBF5	0.10	7.34	174	Fipronil	3	YES	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.95	6.97	161	Dinotefuran	3	NO	NO
397-13	STERI-FAB	12.83	0.00	128	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
64405-2	REDZONE BAIT	0.08	71.30	119	Boric acid	3	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	27.96	38	Methomyl; (Z)-9-Tricosene	3	NO	NO
499-492	PRESCRIPTION TREATMENT BRAND 388B ADVANCE ANT GEL BAIT	0.00	1.30	35	Borax	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
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.05	1.41	31	Hydramethylnon	3	YES	YES
432-1262	MAXFORCE IBH10	0.03	5.42	23	Hydramethylnon	3	YES	YES
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	8.47	20	Bacillus sphaericus	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.47	2.82	16	Fipronil	3	YES	NO
9688-255	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	4.11	0.00	15	Deltamethrin; S-Bioallethrin	3	YES	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	5.50	14	Avermectin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.10	14	Indoxacarb	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	4.12	13	Fipronil	3	YES	NO
73049-20	DIONNE LARVA HALT II WSP MOSQUITO CONTROL	0.00	0.93	4	Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 solids, spores and insecticidal toxins (See also PC Code 119801)	3	NO	NO
432-992	DRIONE INSECTICIDE	0.00	0.67	3	Pyrethrins; Piperonyl butoxide; Silica gel	3	YES	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.01	3	Hydramethylnon	3	YES	YES
6218-47	ANTI-MOS BRIQUETS	0.00	0.88	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.12	2	Fipronil	3	YES	NO
53871-3	STIMUKIL FLY BAIT	0.00	1.00	1	(Z)-9-Tricosene; Methomyl	3	NO	NO
9444-131	KONK KIL ANT BAIT GEL	0.00	0.03	1	Boric acid	3	NO	NO
9444-131	BAYER ADVANCED ANT KILLER POWER PEN READYTO-USE BAIT	0.00	0.02	1	Boric acid	3	NO	NO

### ***Education, Department of***

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 18 summarizes pesticide use by pesticide type. Table 19 lists all pesticide products used by DOE in 2014.

**Table 18: Types of Pesticides Used by DOE in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	871.9	91.0%	2390.7	89.9%	4,000	47.4%
Insecticide	86.7	9.0%	267.7	10.1%	4,434	52.6%
<b>Totals</b>	<b>958.6</b>		<b>2,658.4</b>		<b>8,434</b>	

**Table 19: Pesticide Products Used by DOE in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	690.10	1,216.03	1,901	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	810.11	1,224	Bromadiolone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	181.80	364.35	874	Bromadiolone	3	NO	NO
12455-139	Final Soft Bait	0.00	0.20	1	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	12.58	1,657	Indoxacarb	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	30.02	41.16	1,129	Fipronil	3	YES	NO
67425-14	ECOPCO ACU	33.98	0.03	543	Phenylethyl propionate	3	NO	NO
64405-2	REDZONE BAIT	0.05	202.21	362	Boric acid	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	8.00	8.51	360	Disodium octaborate tetrahydrate	3	NO	NO
2724-484	RF 9707 AEROSOL	14.51	0.00	235	(7S)-Hydroprene	3	NO	NO
73079-10	INVICT (TM) COCKROACH GEL	0.00	2.05	60	Imidacloprid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.17	34	Indoxacarb	3	NO	NO
100-1484	ADVION COCKROACH GEL BAIT	0.00	0.49	30	Indoxacarb	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
1021-2593	MGK? Formula 2976	0.00	0.34	13	Avermectin; Pyriproxyfen	3	NO	NO
67425-4	ECOPCO AC CONTACT INSECTICIDE	0.16	0.00	5	Phenylethyl propionate	3	NO	NO
499-507	PRESCRIPTIO N TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.05	3	Dinotefuran	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.09	1	Fipronil	3	YES	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.03	1	Hydramethylnon	3	YES	YES
100-1486	ADVION COCKROACH BAIT ARENA	0.00	0.01	1	Indoxacarb	3	NO	NO

## Environmental Protection, Department of

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 20 summarizes pesticide use by pesticide type. Table 21 lists all pesticide products used by DEP in 2014.

**Table 20: Types of Pesticides Used by DEP in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	122.2	74.8%	192	38.6%
Insecticide	1.0	7.5%	36.6	22.4%	273	54.9%
Herbicide	12.1	92.5%	4.5	2.8%	32	6.4%
<b>Totals</b>	<b>13.1</b>		<b>163.3</b>		<b>497</b>	

**Table 21: Pesticide Products Used by DEP in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	79.81	136	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	41.50	55	Bromadiolone	3	NO	NO

Pesticides Use by NYC, 2014

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-218	GENERATION MINI BLOCKS	0.00	0.88	1	Difethialone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	79.81	136	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	41.50	55	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	0.88	1	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.44	189	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	22.08	36	Boric acid	3	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	11.24	22	Dinotefuran	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.03	0.00	7	Deltamethrin	3	NO	NO
2724-786	RF2050 SPRAY	0.39	0.00	5	Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.24	5	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.55	0.00	4	D-trans Allethrin; Phenothrin	3	YES	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.02	0.00	1	Cyfluthrin	3	NO	NO
67425-14	ECOPCO ACU	0.00	0.31	1	Phenylethyl propionate	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.25	1	Boric acid	3	NO	NO
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	0.06	1	S-Methoprene	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.03	1	Indoxacarb	3	NO	NO
<b>Herbicides</b>								
524-475	ROUNDUP ULTRA HERBICIDE	5.23	0.00	11	Glyphosate, isopropylamine salt	3	NO	NO
228-366	RAZOR HERBICIDE	5.08	0.00	11	Glyphosate, isopropylamine salt	3	NO	NO
1381-192	CORNERSTONE PLUS	0.82	0.00	7	Glyphosate, isopropylamine 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
524-535	ROUNDUP QUIKPRO HERBICIDE	0.00	4.50	2	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO
62719-542	DIMENSION 2EW	1.00	0.00	1	Dithiopyr	2	NO	NO

## Finance, Department of

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 2014.

## 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 22 summarizes pesticide use by pesticide type. Table 23 lists all pesticide products used by FDNY in 2014.

**Table 22: Types of Pesticides Used by FDNY in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	136.9	89.3%	283	38.4%
Insecticide	0.0	100.0%	16.5	10.7%	454	61.6%
<b>Totals</b>	<b>0.0</b>		<b>153.3</b>		<b>737</b>	

**Table 23: Pesticide Products Used by FDNY in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	38.07	147	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	98.81	136	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	3.66	332	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	11.75	86	Boric acid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.43	17	Indoxacarb	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
432-1259	PRODUCT: RBF5	0.00	0.26	10	Fipronil	3	YES	NO
432-763	SUSPEND SC INSECTICIDE	0.00	0.00	6	Deltamethrin	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.04	2	Fipronil	3	YES	NO
432-772	DELTA DUST	0.00	0.31	1	Deltamethrin	3	NO	NO

## Health and Hospitals Corporation

The New York City Health and Hospitals Corporation (HHC) is a \$6.7 billion integrated healthcare delivery system with its own 420,000 member health plan, MetroPlus, and is the largest municipal healthcare organization in the country. HHC serves 1.4 million New Yorkers every year and more than 475,000 are uninsured. HHC provides medical, mental health and substance abuse services through its 11 acute care hospitals, four skilled nursing facilities, six large diagnostic and treatment centers and more than 70 community based clinics. HHC Health and Home Care also provide in-home services for New Yorkers. 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 24 summarizes pesticide use by pesticide type. Table 25 lists products by pesticide types.

**Table 24: Types of Pesticides Used by HHC in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.1	0.0%	773.7	25.3%	799	13.3%
Insecticide	328.8	100.0%	2277.1	74.5%	5,222	86.7%
Other	0.0	0.0%	5.0	0.2%	2	0.0%
<b>Totals</b>	<b>328.8</b>		<b>3,055.8</b>		<b>6,023</b>	

**Table 25: Pesticide Products Used by HHC in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	721.99	762	Difethialone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	9.38	17	Chlorophacinone	2	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	25.19	14	Bromadiolone	3	NO	NO
12455-139	Final Soft Bait	0.00	14.62	2	Brodifacoum	3	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	0.66	2	Bromethalin	3	NO	NO
12455-61	LIQUA-TOX II	0.06	0.00	1	Diphacinone, sodium 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
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1.88	1	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	ADVION COCKROACH GEL BAIT	0.00	163.12	1,599	Indoxacarb	3	NO	NO
397-13	STERI-FAB	0.00	1,503.5 1	1,150	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	326.68	793	Boric acid	3	NO	NO
64405-2	REDZONE BAIT	0.00	117.18	353	Boric acid	3	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	52.79	341	Boric acid	3	NO	NO
100-1498	ADVION ANT GEL	0.00	17.81	259	Indoxacarb	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	49.17	0.00	164	Cyfluthrin, beta; Imidacloprid	3	NO	NO
432-772	DELTA DUST	0.00	7.75	159	Deltamethrin	3	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	83.85	115	Disodium octaborate tetrahydrate	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	68.36	0.00	82	Cyfluthrin, beta	3	NO	NO
1021-1603	NYLAR 10EC	79.28	0.00	69	Pyriproxyfen	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	33.90	0.00	39	Deltamethrin	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	30.63	0.00	31	Cyhalothrin, lambda	3	NO	NO
1677-43	STER-BAC	16.67	0.00	23	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	26.50	0.00	20	Indoxacarb	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	20.25	0.00	18	Cyfluthrin, beta	3	NO	NO
100-1486	ADVION COCKROACH BAIT ARENA	0.00	0.63	3	Indoxacarb	3	NO	NO
1677-191	ECO2000-GR	0.00	2.13	2	Boric acid	3	NO	NO
499-492	PRESCRIPTION TREATMENT BRAND 388B ADVANCE ANT GEL BAIT	0.00	0.94	1	Borax	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
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	0.75	1	Propoxur	3	YES	NO
<b>Other (Repellents, Biochemical Pesticides, Etc.)</b>								
55943-1	HOT FOOT BIRD REPELLENT	0.00	5.00	2	Polybutenes	3	NO	NO

## **Health and Mental Hygiene, Department of**

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-one pest management professionals 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 and uses licensed pest management staff as well as outside contractors. Table 26 summarizes pesticide use by pesticide type. Table 27 lists all pesticide products used by DOHMH in 2014.

**Table 26 Types of Pesticides Used by DOHMH in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	15,623.3	25.2%	21,688	87.3%
Insecticide	0.0	0.0%	46,471.1	74.8%	3,147	12.7%
<b>Totals</b>	<b>0.0</b>		<b>62,094.4</b>		<b>24,835</b>	

**Table 27 Pesticide Products Used by DOHMH in 2014 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
<b>Rodenticides</b>								
12455-69	CONTRAC RODENTICIDE	0.00	11,210.38	11,602	Bromadiolone	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	2,466.13	5,532	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	844.64	1,941	Difethialone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	290.53	871	Brodifacoum	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
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	326.69	767	Bromadiolone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	254.04	622	Bromadiolone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	62.56	122	Brodifacoum	3	NO	NO
7173-205	GENERATION PELLETS	0.00	104.50	104	Difethialone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	44.70	96	Bromadiolone	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	19.19	31	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
73049-429	VECTOMAX FG	0.00	961.28	1,934	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	16,330.31	777	Bacillus sphaericus	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	5.03	288	Indoxacarb	3	NO	NO
1021-1688	ANVIL 10+10 ULV	0.00	1,961.32	67	Phenothrin; Piperonyl butoxide	3	YES	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	27,200.00	44	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
64405-2	REDZONE BAIT	0.00	2.44	20	Boric acid	3	NO	NO
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	10.38	11	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.31	6	Indoxacarb	3	NO	NO

### **Homeless Services, Department of**

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

28 summarizes pesticide use by pesticide type. Table 29 lists all pesticide products used by DHS in 2014.

**Table 28: Types of Pesticides Used by DHS in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	51.8	77.0%	888	35.3%
Insecticide	14.9	100.0%	15.5	23.0%	1631	64.7%
<b>Totals</b>	<b>14.9</b>		<b>67.3</b>		<b>2,519</b>	

**Table 29: Pesticide Products Used by DHS in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	48.63	863	Difethialone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	1.01	23	Diphacinone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2.20	2	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	11.98	0.00	956	Deltamethrin	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	12.20	528	Avermectin	3	NO	NO
397-13	STERI-FAB	1.73	0.00	46	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	1.19	0.00	37	(7S)-Hydroprene	3	NO	NO
432-772	DELTA DUST	0.00	0.46	27	Deltamethrin	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.04	15	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	2.31	14	Boric acid	3	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	0.49	8	Methomyl; (Z)-9-Tricosene	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 30 summarizes pesticide use by pesticide type. Table 31 lists the products used by NYCHA in 2014.

**Table 30: Types of Pesticides Used by NYCHA in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.6	0.0%	6356.8	85.1%	16,277	15.9%
Insecticide	1713.5	99.8%	1108.4	14.8%	85,980	84.1%
Herbicide	2.8	0.2%	2.5	0.0%	8	0.0%
<b>Totals</b>	<b>1,716.9</b>		<b>7,467.8</b>		<b>102,265</b>	

**Table 31 Pesticide Products Used by NYCHA in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	2,906.31	10,850	Difethialone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,238.75	2,706	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	287.14	772	Diphacinone	2	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	361.13	670	Bromadiolone	3	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	29.81	335	Brodifacoum	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	165.32	311	Diphacinone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.56	1,220.63	224	Bromadiolone	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	54.31	191	Bromadiolone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	49.03	82	Chlorophacine	2	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	21.21	69	Brodifacoum	3	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	5.13	28	Difethialone	3	NO	NO
7173-208	MAKI RODENTICIDE BAIT PACKS (PELLETS)	0.00	6.06	19	Bromadiolone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	6.26	10	Bromadiolone	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	4.25	7	Diphacinone	3	NO	NO

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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	0.22	2	Brodifacoum	3	NO	NO
12455-139	Final Soft Bait	0.00	1.27	1	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	459.22	0.09	49,415	Deltamethrin	3	NO	NO
397-13	STERI-FAB	1,058.94	0.00	10,888	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	55.49	0.00	6,582	Cyfluthrin	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	43.33	0.00	5,671	(7S)- Hydroprene	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	11.18	0.00	3,671	Cyfluthrin, beta; Imidacloprid	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	135.24	3,003	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.14	122.79	1,868	Fipronil	3	YES	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	80.50	1,608	Fipronil	3	YES	NO
100-1484	ADVION COCKROACH GEL BAIT	0.00	32.23	625	Indoxacarb	3	NO	NO
499-467	WHITMIRE AVERT TC 181	0.00	20.70	523	Avermectin	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	70.11	516	Boric acid	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	1.70	0.66	321	Esfenvalerate	3	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	34.00	3.38	282	Deltamethrin	3	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	613.36	260	S-Methoprene	3	NO	NO
1021-2569	MULTICIDE SPRAY 29511	35.03	0.00	171	Imidacloprid; Phenothrin; N- octyl bicycloheptene dicarboximide	0	YES	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	2.11	0.00	170	(7S)- Hydroprene	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
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	5.46	164	Avermectin	3	NO	NO
67425-14	ECOPCO ACU	10.02	0.02	73	Phenylethyl propionate	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.49	44	Indoxacarb	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	9.59	24	(Z)-9- Tricosene; Methomyl	3	NO	NO
432-1375	PRE-EMPT FLY BAIT	0.00	4.15	22	Imidacloprid; (Z)-9- Tricosene	3	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	1.06	17	Dinotefuran	3	NO	NO
499-531	PRESCRIPTION TREATMENT BRAND ALPINE PRESSURIZED INSECTICIDE	1.88	0.04	12	Dinotefuran	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.23	0.48	12	Indoxacarb	3	NO	NO
2724-804	RF2129 EC	0.13	0.00	8	Ethofenprox; Piperonyl butoxide	3	YES	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.43	8	Indoxacarb	3	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	3.63	6	Dinotefuran; Diatomaceous earth	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.04	5	Hydramethylno n	3	YES	YES
241-313	SIEGE PBS GEL INSECTICIDE	0.00	2.81	3	Hydramethylno n	3	YES	YES
499-462	PRO-CONTROL FOGGER IV	0.00	0.04	2	Pyrethrins; Cyfluthrin; Piperonyl butoxide	3	YES	NO
1021-2593	MGK? Formula 2976	0.00	0.03	2	Avermectin; Pyriproxyfen	3	NO	NO
2724-675	PREMIUM ROACH SPRAY	0.13	0.00	1	Pyrethrins; Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.00	0.03	1	Hydramethylno n	3	YES	YES
432-992	DRIONE INSECTICIDE	0.00	0.03	1	Pyrethrins; Piperonyl butoxide; Silica gel	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
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.03	1	Indoxacarb	3	NO	NO
<b>Herbicides</b>								
524-517	ACCORD XL HERBICIDE	1.29	2.50	5	Glyphosate, isopropylamine salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	1.52	0.00	3	Glyphosate, isopropylamine salt	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 32 summarizes pesticide use by pesticide type. Table 33 lists all pesticide products used by HPD in 2014.

**Table 32: Types of Pesticides Used by HPD in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	111.6	99.3%	180	11.9%
Insecticide	1.1	100.0%	0.8	0.7%	1328	88.1%
<b>Totals</b>	<b>1.1</b>		<b>112.4</b>		<b>1,508</b>	

**Table 33: Pesticide Products Used by HPD in 2014**

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
7173-202	MAKI MINI BLOCKS	0.00	59.31	58	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	6.88	7	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
432-1363	TEMPO SC INSECTICIDE	0.05	0.00	537	Cyfluthrin, beta	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.36	10	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.01	0.00	1	Deltamethrin	3	NO	NO

## Human Resources Administration



The New York City Human Resources Administration/ Department of Social Services (HRA/DSS) provides temporary help to individuals and families with social service and economic needs to assist them in reaching self-sufficiency. HRA serves more than 3 million New Yorkers through essential and diverse programs and services. HRA/DSS has numerous offices and public service centers throughout the 5 boroughs. Table 34 summarizes pesticide use by pesticide type. Table 35 lists the products used by HRA/DSS in 2014.

**Table 34: Types of Pesticides Used by HRA in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	1,246.6	97.4%	144	24.9%
Insecticide	0.0	100.0%	33.7	2.6%	435	75.1%
<b>Totals</b>	<b>0.0</b>		<b>1,280.4</b>		<b>579</b>	

**Table 35: Pesticide Products Used by HRA in 2014 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
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1,230.69	129	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	15.96	15	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	30.32	414	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	3.38	14	Boric acid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.05	5	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.00	0.00	2	Deltamethrin	3	NO	NO

## ***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 application data was provided by NYPL for 2014.

## ***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

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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 36 summarizes pesticide use by pesticide type. Table 37 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 36: Types of Pesticides Used by DPR in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	8.6	0.2%	1159.7	5.7%	1,848	25.7%
Insecticide	255.5	5.6%	2183.1	10.8%	1,312	18.2%
Herbicide	1424.8	31.0%	8524.2	42.2%	3,125	43.5%
Fungicide	2871.6	62.5%	8340.8	41.3%	871	12.1%
Other	34.0	0.7%	3.1	0.0%	34	0.5%
<b>Totals</b>	<b>4,594.4</b>		<b>20,210.9</b>		<b>7,190</b>	

**Table 37: Ten Most Frequently Applied Pesticide Products by DPR in 2014 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
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.07	288.03	541	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	7.81	402.85	490	Difethialone	3	NO	NO
12455-106	TERAD3 BLOX	0.68	144.25	398	Cholecalciferol	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	175.08	77	Difethialone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	35.44	76	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	37.19	71	Bromadiolone	3	NO	NO
3282-110	DIFETHIALONE MINI BLOCKS	0.00	0.18	57	Difethialone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	5.50	37	Zinc phosphide	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	23.39	35	Bromadiolone	3	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	29.06	34	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	5.38	368	Indoxacarb	3	NO	NO
432-763	SUSPEND SC	0.49	3.06	253	Deltamethrin	3	NO	NO
100-1484	ADVION COCKROACH GEL BAIT	0.36	5.27	98	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	7.49	45	Boric acid	3	NO	NO
48813-1	SUFFOIL-X	8.32	0.00	36	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
499-362	WHITMIRE PT 515 WASP FREEZE	0.00	92.09	35	D-trans Allethrin; Phenothrin	3	YES	NO
53883-145	LAMBDA 9.7 EW INSECTICIDE	33.25	0.00	34	Cyhalothrin, lambda	2	NO	NO
70051-2	TRIACT 70	7.07	0.00	24	Neem oil	3	NO	NO
432-772	DELTA DUST	0.02	1.36	22	Deltamethrin	3	NO	NO
70506-23	UP-STAR SC LAWN AND NURSERY INSECTICIDE/MITIC IDE	30.20	0.00	20	Bifenthrin	3	YES	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	453.59	496.34	1,584	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	77.15	0.00	447	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	78.24	0.25	301	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	236.29	0.00	278	Glyphosate, dimethylammonium salt	3	NO	NO
100-937	PRIMO MAXX	24.14	0.00	59	Trinexapac-ethyl	3	NO	NO
62719-324	GLYPRO	10.23	0.00	52	Glyphosate, isopropylamine salt	3	NO	NO
66222-212	QUALI-PRO T-NEX 1 AQ	56.61	0.00	47	Trinexapac-ethyl	3	NO	NO
34704-890	AFG PLUS	32.09	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO
62719-542	DIMENSION 2EW	35.53	0.00	26	Dithiopyr	2	NO	NO
62719-517	ACCORD XRT	1.46	0.00	22	Glyphosate, isopropylamine salt	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	731.50	0.00	102	Acibenzolar-S- methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	302.70	0.00	54	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	45.34	41	Azoxystrobin	3	NO	NO
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	63.00	0.00	32	Propamocarb hydrochloride	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	76.75	0.00	31	Propamocarb hydrochloride	3	NO	NO
100-1347	CONCERT II	225.00	0.00	30	Propiconazole	1	YES	NO
79676-17	LESCO TWOSOME FUNGICIDE	95.00	0.00	30	Iprodione; Thiophanate- methyl	3	NO	NO
66222-149	ARMOR TECH CLT 825	0.00	1,970.00	30	Chlorothalonil	2	YES	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	17.76	0.00	29	Pyraclostrobin	2	NO	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	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
<b>Other</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	21.00	0.00	19	Copper oxide (ous)	2	NO	NO
59807-4	HORMODIN 1	0.00	0.79	7	IBA	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	2.34	4	Metaldehyde	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	2	Gibberellins	2	NO	NO
1448-212	CHEMICIDE 100-15	12.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-14	WOOLSEY/Z*SPAR SUPER TOX ANTI-FOULING FINISH B-74	1.00	0.00	1	Copper oxide (ous)	2	NO	NO

## 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 38 summarizes pesticide use by pesticide type. Table 39 lists all pesticide products used by NYPD in 2014.

**Table 38 Types of Pesticides Used by NYPD in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	174.9	87.3%	317	42.7%
Insecticide	0.1	100.0%	25.4	12.7%	426	57.3%
<b>Totals</b>	<b>0.1</b>		<b>200.2</b>		<b>743</b>	

**Table 39: Pesticide Products Used by NYPD in 2014 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
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	42.13	174	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	132.73	143	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.12	4.46	331	Indoxacarb	3	NO	NO

Pesticides Use by NYC, 2014

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	19.65	61	Boric acid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.99	24	Indoxacarb	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.28	9	Fipronil	3	YES	NO
432-772	DELTA DUST	0.00	0.00	1	Deltamethrin	3	NO	NO

## Sanitation, Department of

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. Table 40 summarizes pesticide use by pesticide type. Table 41 lists the products used by DSNY.

**Table 40: Types of Pesticides Used by DSNY in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	1.2	44.0%	37.4	96.8%	60	11.6%
Insecticide	1.5	56.0%	1.2	3.2%	457	88.4%
<b>Totals</b>	<b>2.7</b>		<b>38.7</b>		<b>517</b>	

**Table 41: List of Pesticides Applied by DSNY in 2014**

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
12455-89	FINAL ALL-WEATHER BLOX	1.21	28.97	49	Brodifacoum	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	8.44	11	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1066	DEMAND CS INSECTICIDE	0.42	0.03	334	Cyhalothrin, lambda	3	NO	NO
432-763	SUSPEND SC	0.26	0.03	79	Deltamethrin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.42	0.29	16	Fipronil	3	YES	NO
73766-1	GOURMET ANT BAIT GEL	0.14	0.19	10	Disodium octaborate tetrahydrate	3	NO	NO
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.22	0.35	9	Disodium octaborate tetrahydrate	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.00	0.18	5	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
432-1259	PRODUCT: RBF5	0.00	0.08	2	Fipronil	3	YES	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.06	0.00	1	Methomyl; (Z)-9-Tricosene	3	NO	NO
73766-1	ADIOS ANT KILLER GEL	0.00	0.09	1	Disodium octaborate tetrahydrate	3	NO	NO

## Transportation, Department of

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 42 summarizes pesticide use by pesticide type. Table 43 lists all pesticide products used by DOT in 2014.

**Table 42: Types of Pesticides Used by DOT in 2014**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	10.1	12.8%	191	13.1%
Insecticide	1.3	0.5%	0.1	0.2%	213	14.6%
Herbicide	256.9	99.5%	68.7	87.0%	1052	72.3%
<b>Totals</b>	<b>258.2</b>		<b>78.9</b>		<b>1,456</b>	

**Table 43: Pesticide Products Used by DOT in 2014**

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	9.57	185	Difethialone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.26	4	Diphacinone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	0.27	2	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	1.31	0.00	203	Deltamethrin	3	NO	NO
432-772	DELTA DUST	0.00	0.01	4	Deltamethrin	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.01	3	Avermectin	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.00	0.00	1	D-trans Allethrin; Phenothrin	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
64405-2	REDZONE BAIT	0.00	0.13	1	Boric acid	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.00	1	Indoxacarb	3	NO	NO
<b>Herbicides</b>								
62719-556	ACCORD XRT II	60.66	0.00	213	Glyphosate, dimethylammonium salt	3	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.09	27.97	211	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	50.77	0.00	207	Dicamba, diglycolamine salt	3	NO	NO
432-1516	ESPLANADE 200 SC	13.36	0.00	202	Indaziflam	3	NO	NO
62719-176	PATHFINDER II	118.59	0.00	158	Triclopyr, butoxyethyl ester	3	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	0.09	40.69	29	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO
62719-527	GARLON 4 ULTRA	11.61	0.00	24	Triclopyr	2	NO	NO
62719-40	GARLON 4	1.69	0.00	8	Triclopyr, butoxyethyl ester	3	NO	NO

## APPENDIX 1: Complete Listing of Pesticide Products Used by New York City Agencies by Pesticide Type in 2014

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carc in	CA Dev. Toxin
<b>Rodenticides</b>								
7173-258	DIFETHIALONE PASTE PLACE PACKS	690.15	6,635.65	18,043	Difethialone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	11,280.14	11,715	Bromadiolone	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	2,466.13	5,532	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.07	4,347.55	4,329	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,283.45	2,802	Bromadiolone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	182.36	1,839.12	1,721	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	332.57	910	Brodifacoum	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	291.73	785	Diphacinone	2	NO	NO
7173-218	GENERATION MINI BLOCKS	7.81	404.88	493	Difethialone	3	NO	NO
12455-106	TERAD3 BLOX	0.68	144.25	398	Cholecalciferol	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	166.71	342	Diphacinone	3	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	29.81	335	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	96.88	257	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	121.69	143	Bromadiolone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	62.56	122	Brodifacoum	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	1.21	50.18	118	Brodifacoum	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	165.43	112	Bromadiolone	3	NO	NO
7173-205	GENERATION PELLETS	0.00	104.50	104	Difethialone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	58.53	101	Chlorophacinone	2	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	1.70	80.62	60	Bromadiolone	3	NO	NO
3282-110	DIFETHIALONE MINI BLOCKS	0.00	0.18	57	Difethialone	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
12455-17	ZP RODENT BAIT AG	0.00	5.50	37	Zinc phosphide	3	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	5.13	28	Difethialone	3	NO	NO
7173-208	MAKI RODENTICIDE BAIT PACKS (PELLETS)	0.00	6.06	19	Bromadiolone	3	NO	NO
12455-139	Final Soft Bait	0.00	18.00	10	Brodifacoum	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	5.69	8	Diphacinone	3	NO	NO
56-58	JT EATON AC FORMULA 90 RODENTICIDE	0.00	4.31	5	Chlorophacinone	3	NO	NO
47629-16	DIFENACOUM RAT AND MOUSE BLOCK	0.00	2.75	4	Difenacoum	3	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	0.77	4	Brodifacoum	3	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	0.66	2	Bromethalin	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	0.22	2	Brodifacoum	3	NO	NO
12455-61	LIQUA-TOX II	0.06	0.00	1	Diphacinone, sodium salt	3	NO	NO
100-1056	ALLIANCE BLUE DEATH MATE	0.00	0.00	1	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	506.76	0.09	50,705	Deltamethrin	3	NO	NO
397-13	STERI-FAB	1,075.00	1,503.51	12,214	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	55.49	0.00	6,582	Cyfluthrin	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	44.65	0.00	5,710	(7S)-Hydroprene	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.16	119.47	5,552	Indoxacarb	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	60.35	0.00	3,836	Cyfluthrin, beta; Imidacloprid	3	NO	NO
432-1259	PRODUCT: RBF5	0.10	144.71	3,217	Fipronil	3	YES	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	30.09	122.38	2,760	Fipronil	3	YES	NO
100-1484	ADVION COCKROACH GEL BAIT	0.36	201.48	2,402	Indoxacarb	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
73049-429	VECTOMAX FG	0	961.3	1,934	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.62	127.58	1,906	Fipronil	3	YES	NO
64405-2	REDZONE BAIT	0.13	515.72	1,255	Boric acid	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	77.63	0.00	1,191	Cyfluthrin, beta	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	16,338.78	797	Bacillus sphaericus	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	326.68	793	Boric acid	3	NO	NO
432-763	SUSPEND SC	10.04	3.09	769	Deltamethrin	3	NO	NO
67425-14	ECOPCO ACU	44.00	0.36	617	Phenylethyl propionate	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	13.09	555	Avermectin	3	NO	NO
499-467	WHITMIRE AVERT TC 181	0.00	20.70	523	Avermectin	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	70.11	516	Boric acid	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	31.09	0.03	385	Cyhalothrin, lambda	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	8.14	8.69	370	Disodium octaborate tetrahydrate	3	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	52.79	341	Boric acid	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	1.70	0.66	321	Esfenvalerate	3	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	34.00	3.38	282	Deltamethrin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.23	10.06	272	Indoxacarb	3	NO	NO
100-1498	ADVION ANT GEL	0.00	18.08	272	Indoxacarb	3	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	613.36	260	S-Methoprene	3	NO	NO
2724-484	RF 9707 AEROSOL	14.51	0.00	235	(7S)-Hydroprene	3	NO	NO
432-772	DELTA DUST	0.02	9.90	215	Deltamethrin	3	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.95	8.11	184	Dinotefuran	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	2.23	0.00	172	(7S)-Hydroprene	3	NO	NO
1021-2569	MULTICIDE SPRAY 29511	35.03	0.00	171	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	0	YES	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	5.46	164	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
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	83.85	115	Disodium octaborate tetrahydrate	3	NO	NO
1021-1603	NYLAR 10EC	79.29	0.00	84	Pyriproxyfen	3	NO	NO
1021-1688	ANVIL 10+10 ULV	0.00	1,961.32	67	Phenothrin; Piperonyl butoxide	3	YES	NO
73079-10	INVICT (TM) COCKROACH GEL	0.00	2.05	60	Imidacloprid	3	NO	NO
432-1262	MAXFORCE IBH10	0.95	5.42	59	Hydramethylnon	3	YES	YES
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.06	28.46	47	Methomyl; (Z)-9-Tricosene	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.49	45	Indoxacarb	3	NO	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	27,200.00	44	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.72	92.09	42	D-trans Allethrin; Phenothrin	3	YES	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.05	1.56	39	Hydramethylnon	3	YES	YES
48813-1	SUFFOIL-X	8.32	0.00	36	Petroleum distillates	3	NO	NO
499-492	PRESCRIPTION TREATMENT BRAND 388B ADVANCE ANT GEL BAIT	0.00	2.24	36	Borax	3	NO	NO
53883-145	LAMBDA 9.7 EW INSECTICIDE	33.25	0.00	34	Cyhalothrin, lambda	2	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.47	3.07	29	Fipronil	3	YES	NO
53871-3	STIMUKIL FLY BAIT	0.00	10.59	25	(Z)-9-Tricosene; Methomyl	3	NO	NO
70051-2	TRIACT 70	7.07	0.00	24	Neem oil	3	NO	NO
1677-43	STER-BAC	16.67	0.00	23	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	11.24	22	Dinotefuran	3	NO	NO
432-1375	PRE-EMPT FLY BAIT	0.00	4.15	22	Imidacloprid; (Z)-9-Tricosene	3	NO	NO
70506-23	UP-STAR SC LAWN AND NURSERY INSECTICIDE/MITICIDE	30.20	0.00	20	Bifenthrin	3	YES	NO
100-1501	DUPONT ARILON INSECTICIDE	26.50	0.00	20	Indoxacarb	3	NO	NO
83100-6	LADA 2F INSECTICIDE	9.70	0.00	20	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
73049-20	DIONNE LARVA HALT II WSP MOSQUITO CONTROL	0.00	98.93	20	Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 solids, spores and insecticidal toxins (See also PC Code 119801)	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	20.25	0.00	18	Cyfluthrin, beta	3	NO	NO
100-1489	DUPONT ACELEPRYN INSECTICIDE	13.10	0.00	16	DPX-E2Y45	0	NO	NO
9688-255	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	4.11	0.00	15	Deltamethrin; S-Bioallethrin	3	YES	NO
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	1.00	15	Flonicamid	3	NO	NO
1021-2593	MGK? Formula 2976	0.00	0.38	15	Avermectin; Pyriproxyfen	3	NO	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	5.50	14	Avermectin	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	0.81	14	Cyfluthrin	3	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.21	0.00	13	Spinosad	3	NO	NO
499-531	PRESCRIPTION TREATMENT BRAND ALPINE PRESSURIZED INSECTICIDE	1.88	0.04	12	Dinotefuran	3	NO	NO
66222-210	QUALI-PRO ABAMECTIN 0.15 EC	0.83	0.00	12	Avermectin	2	NO	NO
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	10.38	11	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
83100-5	LUCID ORNAMENTAL MITICIDE/INSECTICIDE	0.69	0.00	9	Avermectin	2	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	0.61	0.00	9	Cyhalothrin, lambda	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.22	0.00	9	Pyriproxyfen	3	NO	NO
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.22	0.35	9	Disodium octaborate tetrahydrate	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.08	9	Hydramethylnon	3	YES	YES
70506-24	UP-STAR GOLD INSECTICIDE	24.50	0.00	8	Bifenthrin	3	YES	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	17.63	0.00	8	Bifenthrin	3	YES	NO
2724-804	RF2129 EC	0.13	0.00	8	Ethofenprox; Piperonyl butoxide	3	YES	NO
432-1369	MAJESTY	0.08	0.00	8	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
1021-2574	MGK FORMULA 2964	0.02	0.00	8	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.84	8	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
66222-19	CHLORPYRIFOS 4E	10.22	0.00	7	Chlorpyrifos	2	NO	NO
432-1312	MERIT 2F INSECTICIDE	6.88	0.00	7	Imidacloprid	3	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.41	0.00	7	Acetamiprid	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.25	0.00	7	Azadirachtin	3	NO	NO
66222-40	PEDESTAL	0.20	0.00	7	Novaluron	3	NO	NO
228-588	MALLET 75 WP	0.00	3.20	7	Imidacloprid	3	NO	NO
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	38.81	0.00	6	Chlorpyrifos	2	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.05	0.18	6	Fipronil	3	YES	NO
432-1318	MERIT 75 WSP	0.00	16.90	6	Imidacloprid	3	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	3.63	6	Dinotefuran; Diatomaceous earth	3	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.00	2.94	6	Pyrethrins; Piperonyl butoxide	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.41	6	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
69526-5	PURESPRAY SPRAY OIL 10E	2.82	0.00	5	Mineral oil	3	NO	NO
2724-786	RF2050 SPRAY	0.39	0.00	5	Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
67425-4	ECOPCO AC CONTACT INSECTICIDE	0.16	0.00	5	Phenylethyl propionate	3	NO	NO
100-1487	PROVAUNT	0.00	11.06	5	Indoxacarb	3	NO	NO
400-508	FLORAMITE SC	0.06	0.16	4	Bifenazate	3	NO	NO
66222-199	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	36.10	4	Imidacloprid	3	NO	NO
432-992	DRIONE INSECTICIDE	0.00	0.70	4	Pyrethrins; Piperonyl butoxide; Silica gel	3	YES	NO
100-1486	ADVION COCKROACH BAIT ARENA	0.00	0.64	4	Indoxacarb	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
241-313	SIEGE PBS GEL INSECTICIDE	0.00	2.81	3	Hydramethylnon	3	YES	YES
86203-11	SAFARI 20SG INSECTICIDE	0.00	0.48	3	Dinotefuran	3	NO	NO
42750-153	BENEFIT 60 WP	0.00	0.22	3	Imidacloprid	3	NO	NO
432-1506	MAXFORCE QUANTUM ANT BAIT	0.00	0.11	3	Imidacloprid	3	NO	NO
5905-368	OMNI SUPREME SPRAY	25.00	0.00	2	Mineral oil	3	NO	NO
66222-19	QUALI-PRO CHLOPYRIFOS 4E	5.00	0.00	2	Chlorpyrifos	2	NO	NO
53883-229	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECT	4.98	0.00	2	Imidacloprid	3	NO	NO
228-658	NUFARM ABAMECTIN 0.15 EC INSECTICIDE	1.41	0.00	2	Avermectin	2	NO	NO
53883-244	QUALI-PRO LAMBDA GC-0	0.48	0.00	2	Cyhalothrin, lambda	2	NO	NO
239-2461	BONIDE SYSTEMIC INSECT CONTROL	0.38	0.00	2	Acephate	2	YES	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.18	0.00	2	(S)-Kinoprene	2	NO	NO
432-1471	KONTOS	0.10	0.00	2	Spirotetramat	3	NO	NO
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.01	0.00	2	Potassium laurate	2	NO	NO
2724-478	MAVRIK AQUAFLOW INSECTICIDE	0.00	0.00	2	Tau-fluvalinate	3	NO	YES
228-501	MALLET 0.5 G INSECTICIDE	0.00	1,320.00	2	Imidacloprid	3	NO	NO
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	168.72	2	Chlorpyrifos	3	NO	NO
432-1329	MARATHON 1% GRANULAR GREENHOUSE AND NURSERY INSECT	0.00	4.00	2	Imidacloprid	3	NO	NO
432-1233	SKEETER-MITE 150-750 ULV	0.00	3.94	2	Permethrin; Piperonyl butoxide	3	YES	NO
432-1318	LESCO SYSTEMIC INSECTICIDE CONTAINS MERIT IN WATER SOLUBLE PACKETS	0.00	3.20	2	Imidacloprid	3	NO	NO
1677-191	ECO2000-GR	0.00	2.13	2	Boric acid	3	NO	NO
73314-6	NoFly WP	0.00	2.00	2	Paecilomyces fumosoroseus strain FE 9901, blastospores	3	NO	NO
6218-47	ANTI-MOS BRIQUETS	0.00	0.88	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
499-462	PRO-CONTROL FOGGER IV	0.00	0.04	2	Pyrethrins; Cyfluthrin; Piperonyl butoxide	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
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	8.00	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
100-1018	CYPERMETHRIN CONCENTRATE	0.47	0.00	1	Cypermethrin, beta	2	YES	NO
74578-1	XYTECT INFUSIBLE INSECTICIDE	0.46	0.00	1	Imidacloprid	2	NO	NO
83851-12	AMTIDE IMIDACLOPRID 2F INSECTICIDE	0.16	0.00	1	Imidacloprid	3	NO	NO
2724-675	PREMIUM ROACH SPRAY	0.13	0.00	1	Pyrethrins; Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.06	0.00	1	Potassium laurate	2	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.05	0.00	1	Mineral oil	3	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.02	0.00	1	Cyfluthrin	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.02	0.00	1	Hydramethylnon	3	YES	YES
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	1	Esfenvalerate	3	NO	NO
8033-94	TRISTAR 30 SG INSECTICIDE	0.00	0.00	1	Acetamiprid	3	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO
538-306	GRUBEX III	0.00	387.00	1	DPX-E2Y45	0	NO	NO
42750-117	IMIDACLOPRID 75WSP T&O	0.00	4.80	1	Imidacloprid	3	NO	NO
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	0.75	1	Propoxur	3	YES	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.00	0.50	1	Pyrethrins	3	YES	NO
499-509	WHITMIRE DE 1606	0.00	0.25	1	Diatomaceous earth	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.25	1	Boric acid	3	NO	NO
73766-1	ADIOS ANT KILLER GEL	0.00	0.09	1	Disodium octaborate tetrahydrate	3	NO	NO
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	0.06	1	S-Methoprene	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.05	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO
9444-131	KONK KIL ANT BAIT GEL	0.00	0.03	1	Boric acid	3	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.03	1	Indoxacarb	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
9444-131	BAYER ADVANCED ANT KILLER POWER PEN READYTO-USE BAIT	0.00	0.02	1	Boric acid	3	NO	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	453.90	736.34	1,596	Glyphosate, potassium salt	3	NO	NO
62719-556	ACCORD XRT II	296.95	0.00	491	Glyphosate, dimethylammonium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	83.91	0.00	461	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	89.85	0.25	325	Triclopyr	2	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.09	27.97	211	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	50.77	0.00	207	Dicamba, diglycolamine salt	3	NO	NO
432-1516	ESPLANADE 200 SC	13.36	0.00	202	Indaziflam	3	NO	NO
62719-176	PATHFINDER II	118.85	0.00	160	Triclopyr, butoxyethyl ester	3	NO	NO
100-937	PRIMO MAXX	24.14	0.00	59	Trinexapac-ethyl	3	NO	NO
62719-324	GLYPRO	10.23	0.00	52	Glyphosate, isopropylamine salt	3	NO	NO
66222-212	QUALI-PRO T-NEX 1 AQ	56.61	0.00	47	Trinexapac-ethyl	3	NO	NO
34704-890	AFG PLUS	32.09	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	0.09	45.19	31	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO
62719-542	DIMENSION 2EW	36.53	0.00	27	Dithiopyr	2	NO	NO
62719-40	GARLON 4	4.84	0.00	23	Triclopyr, butoxyethyl ester	3	NO	NO
62719-517	ACCORD XRT	1.46	0.00	22	Glyphosate, isopropylamine salt	3	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	16.21	0.00	21	Glyphosate, isopropylamine salt	3	NO	NO
79676-24	LESCO REG/MAX PGR PLANT GROWTH REGULATOR	3.59	0.00	20	Trinexapac-ethyl	3	NO	NO
62719-566	TURFLON ESTER ULTRA	2.36	0.00	18	Triclopyr, butoxyethyl ester	3	NO	NO
66330-276	DICAMBA DMA 4# AG	9.63	0.00	16	Dicamba, dimethylamine salt	2	NO	NO
72112-4	GLYPHOSATE PRO 4TM	3.41	0.00	15	Glyphosate, isopropylamine salt	3	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	3.36	0.00	13	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO



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100-1267	TENACITY	2.70	0.00	12	Mesotrione	3	NO	NO
228-366	RAZOR HERBICIDE	5.08	0.00	11	Glyphosate, isopropylamine salt	3	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	106.54	9	Dithiopyr	3	NO	NO
352-401	DUPONT OUST HERBICIDE	0.00	1.55	9	Sulfometuron methyl	3	NO	NO
53883-336	QUINCLORAC 1.5 L	1.41	0.00	8	Quinclorac, Dimethylamine Salt	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	0.69	0.00	8	Fenoxaprop-P (+)	3	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	562.00	8	Dithiopyr	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	104.57	0.00	7	Paclobutrazol	3	NO	NO
1381-192	CORNERSTONE PLUS	0.82	0.00	7	Glyphosate, isopropylamine salt	3	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	60.00	0.00	6	Bensulide	3	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	4.22	0.00	6	Clopyralid	3	NO	NO
86064-3	ARMOR TECH PGR 113 MC	3.47	0.00	6	Trinexapac-ethyl	3	NO	NO
80697-4	ARMOR TECH PAC 223	0.70	0.00	6	Paclobutrazol	3	NO	NO
228-702	NUFARM PROSEEDGE SELECTIVE HERBICIDE	0.00	1.14	6	Halosulfuron-methyl	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	27.05	0.00	5	Ethephon	1	NO	NO
70299-23	AXXE BROAD SPECTRUM HERBICIDE	15.66	0.00	5	Nonanoic acid, ammonium salt	2	NO	NO
2217-759	EMBARK 2-S PLANT GROWTH REGULATOR	6.30	0.00	5	Mefluidide, diethanolamine salt	3	NO	NO
524-517	ACCORD XL HERBICIDE	1.29	2.50	5	Glyphosate, isopropylamine salt	3	NO	NO
4-484	BONIDE KU GR CONCENTRATE	0.03	0.00	5	Glyphosate, isopropylamine salt	2	NO	NO
279-3419	F7275 70 WG HERBICIDE	0.02	1.36	5	Carfentrazone-ethyl; Quinclorac	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.07	5	Halosulfuron-methyl	3	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	26.25	4	Dithiopyr	3	NO	NO
241-416	PENDULUM CS HERBICIDE	39.70	0.00	3	Pendimethalin	3	YES	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	14.13	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO

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10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	8.75	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	2.25	0.00	3	Mefluidide, diethanolamine salt	3	NO	NO
279-3265	F8426 HERBICIDE	0.19	0.00	3	Carfentrazone-ethyl	3	NO	NO
264-267	PROXY	15.61	0.00	2	Ethephon	1	NO	NO
228-453	BATTLESHIP 3	4.16	0.00	2	MCPA, dimethylamine salt; Triclopyr, triethylamine salt; Fluroxypyr 1-methylheptyl ester	1	NO	NO
2217-656	ENDRUN	3.16	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	33.00	0.00	1	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO
7969-88	POAST PLUS HERBICIDE	22.00	0.00	1	Sethoxydim	3	NO	NO
2217-930	EH-1471 HERBICIDE	5.00	0.00	1	2,4-D, dimethylamine salt; Sulfentrazone; Dicamba, dimethylamine salt; Quinclorac	3	NO	NO
2217-543	TRIMEC HERBICIDE	2.65	0.00	1	2,4-D, dimethylamine salt; MCP-P, dimethylamine salt; Dicamba, dimethylamine salt	1	NO	NO
67702-26	FIESTA TURF WEED KILLER	0.04	0.00	1	Iron HEDTA	3	NO	NO
524-475	ROUNDUP ULTRA	0.00	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO
9198-154	THE ANDERSONS FERTILIZER WITH .125% DIMENSION(R) AND 1.0% RONSTAR(R)	0.00	5,300.00	1	Dithiopyr; Oxadiazon	3	YES	YES
10404-85	0.10% DIMENSION PLUS FERTILIZER	0.00	1,150.00	1	Dithiopyr	3	NO	NO
53883-213	FERTILIZER WITH 0.1% DITHIOPYR HERBICIDE	0.00	550.00	1	Dithiopyr	3	NO	NO

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9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	288.70	1	Bensulide; Oxadiazon	2	YES	YES
9198-237	THE ANDERSONS WEED & GRASS PREVENTER WITH 5% TRAMMEL HERBICIDE (DISPER	0.00	160.00	1	Trifluralin	3	YES	NO
961-405	LEBANON TRIFLURALIN G-5	0.00	40.00	1	Trifluralin	3	YES	NO
228-711	NUFARM PROSEGE SELECTIVE HERBICIDE2	0.00	0.02	1	Halosulfuron-methyl	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	731.50	0.00	102	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	302.70	0.00	54	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	45.34	41	Azoxystrobin	3	NO	NO
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	63.00	0.00	32	Propamocarb hydrochloride	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	76.75	0.00	31	Propamocarb hydrochloride	3	NO	NO
100-1347	CONCERT II	225.00	0.00	30	Propiconazole	1	YES	NO
79676-17	LESCO TWOSOME FUNGICIDE	95.00	0.00	30	Iprodione; Thiophanate-methyl	3	NO	NO
66222-149	ARMOR TECH CLT 825	0.00	1,970.00	30	Chlorothalonil	2	YES	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	17.76	0.00	29	Pyraclostrobin	2	NO	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-890	ALIETTE WDG BRAND FUNGICIDE	0.00	707.00	20	Fosetyl-Al	3	NO	NO
83851-9	AMTIDE TEBU 3.6F FOLIAR FUNGICIDE	47.16	0.00	19	Tebuconazole	3	YES	NO
66222-154	QUALI-PRO CHLOROTHALONIL 720 SFT	195.32	0.00	18	Chlorothalonil	2	YES	NO
264-1155	RHAPSODY AS0	167.04	0.00	18	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	24.08	0.00	17	Triadimefon	3	YES	YES
84059-3	REGALIA PTO BIOFUNGICIDE FOR USE ON TURF AND ORNAMENTALS	26.54	0.00	16	Reynoutria sachalinensis	3	NO	NO
62719-388	FORE 80WP RAINSHIELD	0.00	698.50	16	Mancozeb	3	YES	NO
60063-3	LESCO MANICURE ULTRA	0.00	605.00	15	Chlorothalonil	2	YES	NO

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70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	53.73	0.00	14	Hydrogen peroxide	1	NO	NO
66222-41	QUALI-PRO PROPICONAZOLE 14.3	47.16	0.00	14	Propiconazole	2	YES	NO
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	115.00	14	Streptomyces lydicus WYEC 108	3	NO	NO
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	22.50	14	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
67702-2	CAMELOT O FUNGICIDE/BACTERICIDE	4.97	0.00	13	Copper octanoate	3	NO	NO
432-1446	TARTAN FLO FUNGICIDE	31.57	0.00	12	Triadimefon; Trifloxystrobin	3	YES	YES
7969-224	CURALAN EG	0.00	604.32	12	Vinclozolin	3	YES	YES
100-1326	BANNER MAXX II	31.31	0.00	11	Propiconazole	3	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	2.46	35.81	11	Thiabendazole	3	NO	NO
432-890	LESCO PRODIGY SIGNATURE	0.00	396.00	9	Fosetyl-Al	3	NO	NO
86064-1	ARMORTECH CLT 825 DF	0.00	170.00	9	Chlorothalonil	2	YES	NO
68173-3	AFFIRM WDG	0.00	55.15	9	Polyoxin D zinc salt	3	NO	NO
228-623	NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	0.10	0.00	8	Propiconazole	2	YES	NO
66222-161	QUALI-PRO FOSETYL - AL 80 WDG	0.00	281.00	8	Fosetyl-Al	3	NO	NO
100-796	SUBDUE MAXX	8.61	0.00	7	Mefenoxam	3	NO	NO
100-1323	HERITAGE G	0.00	210.00	7	Azoxystrobin	3	NO	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	75.00	7	Chlorothalonil	1	YES	NO
50534-209	MANICURE 6 FLOWABLE	84.12	0.00	6	Chlorothalonil	3	YES	NO
66222-214	QUALI-PRO IPRO 2SE	27.50	0.00	6	Iprodione	3	YES	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	1,585.00	6	Chlorothalonil	1	YES	NO
59639-144	V-10116 VPP FUNGICIDE	0.00	97.84	6	Metconazole	3	NO	NO
432-889	CHIPCO 26019 FUNGICIDE	89.65	0.00	5	Iprodione	3	YES	NO
66222-134	THIOPHANATE METHYL 4.5 F	47.50	0.00	5	Thiophanate-methyl	3	YES	YES
70506-241	IPRODIONE 2F FUNGICIDE	39.00	0.00	5	Iprodione	3	YES	NO
100-1433	BRISKWAY	9.72	0.00	5	Azoxystrobin; Difenconazole	3	YES	NO
69592-19	CEASE	0.85	0.00	5	QST 713 strain of dried Bacillus subtilis	3	NO	NO
70299-6	GREENCLEAN PRO GRANULAR ALGAECIDE/FUNGICIDE	0.00	468.00	5	Sodium percarbonate	1	NO	NO
432-1223	PROSTAR 70 WP	0.00	14.11	5	Flutolanil	3	NO	NO

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228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	33.00	0.00	4	Thiophanate-methyl	3	YES	YES
432-1505	CHIPCO 26019T FUNGICIDE	22.00	0.00	4	Iprodione; Trifloxystrobin	3	YES	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	20.96	0.00	4	Propiconazole	2	YES	NO
70506-251	PRIMERAONE T-METHYL 4.5 TURF & ORNAMENTAL FUNGICIDE	9.55	0.00	4	Thiophanate-methyl	3	YES	YES
70252-11	QUALI-PRO MEFENOXAM 2 AQ	5.06	0.00	4	Mefenoxam	3	NO	NO
71512-13	SEGWAY FUNGICIDE	2.10	0.00	4	Cyazofamid	3	NO	NO
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.31	0.00	4	Fenarimol	3	NO	NO
432-1371	COMPASS	0.00	12.90	4	Trifloxystrobin	3	NO	NO
62388-1	NOGALL	0.00	3.09	4	Agrobacterium radiobacter strain K1026	3	NO	NO
83472-1	DECCO FUNGI-PHITE PH	75.00	0.00	3	Mono- and di-potassium salts of phosphorous acid	3	NO	NO
100-741	ALAMO FUNGICIDE	32.33	0.00	3	Propiconazole	2	YES	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	19.25	0.00	3	Iprodione; Thiophanate-methyl	3	YES	YES
228-630	LESCO TWOSOME FUNGICIDE	11.50	0.00	3	Iprodione; Thiophanate-methyl	3	YES	YES
66330-305	IPRODIONE 2SE TURF	10.50	0.00	3	Iprodione	3	YES	NO
228-684	NUFARM IPRODIONE SPC FUNGICIDE	7.50	0.00	3	Iprodione	3	YES	NO
228-623	PRIMERAONE PROPICONAZOLE 14.3	5.50	0.00	3	Propiconazole	2	YES	NO
66222-216	QUALI-PRO MEFENOXAM 2AQ	0.86	0.00	3	Mefenoxam	2	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	37.81	3	Triadimefon	3	YES	YES
100-1216	BANNER HERITAGE MAXX	6.63	0.00	2	Azoxystrobin; Propiconazole	3	YES	NO
48234-12	QUALI-PRO TM 4.5	5.00	0.00	2	Thiophanate-methyl	3	YES	YES
86064-4	ARMOR TECH PPZ 143 MC	3.08	0.00	2	Propiconazole	2	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	2.00	5.00	2	Terrazole	3	YES	NO
70299-12	ZEROTOL 2.0	1.57	0.00	2	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO
400-422	TERRAZOLE L	0.95	0.00	2	Terrazole	1	YES	NO
432-1477	PROSTAR 70 WDG FUNGICIDE	0.00	12.00	2	Flutolanil	3	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	2.00	2	Nicobifen	2	YES	NO
100-769	MEDALLION FUNGICIDE	0.00	0.13	2	Fludioxonil	3	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	22.00	0.00	1	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	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
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	10.80	0.00	1	Iprodione	3	YES	NO
464-693	CHEMICAR 15	10.00	0.00	1	Glutaraldehyde	1	NO	NO
69361-27	TEBUCONAZOLE 3.6F FUNGICIDE	1.50	0.00	1	Tebuconazole	3	YES	NO
228-623	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	1.00	0.00	1	Propiconazole	2	YES	NO
100-1448	MEDALLION SC	0.34	0.00	1	Fludioxonil	3	NO	NO
66222-117	ORIOUS 3.6F	0.16	0.00	1	Tebuconazole	3	YES	NO
400-521	TERRAGUARD SC	0.00	0.00	1	Triflumizole	3	NO	NO
89442-8	FOSAL SELECT FUNGICIDE	0.00	54.00	1	Fosetyl-Al	3	NO	NO
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	33.00	1	Polyoxin D zinc salt	3	NO	NO
7969-255	HONOR FUNGICIDE	0.00	20.25	1	Nicobifen; Pyraclostrobin	3	YES	NO
68539-9	BW240 WP BIOLOGICAL FUNGICIDE	0.00	5.00	1	Trichoderma harzianum rifai strain KRL-AG2; Trichoderma virens strain G-41	3	NO	NO
<b>Other (Repellents, Biochemical Pesticides, Etc.)</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	21.00	0.00	19	Copper oxide (ous)	2	NO	NO
59807-4	HORMODIN 1	0.00	0.79	7	IBA	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	2.34	4	Metaldehyde	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	2	Gibberellins	2	NO	NO
55943-1	HOT FOOT BIRD REPELLENT	0.00	5.00	2	Polybutenes	3	NO	NO
1448-212	CHEMICIDE 100-15	12.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-14	WOOLSEY/Z*SPAR SUPER TOX ANTI-FOULING FINISH B-74	1.00	0.00	1	Copper oxide (ous)	2	NO	NO

## APPENDIX 2: Complete Listing of Pesticide Products Used by the Department of Parks and Recreation in 2014

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
<b>Rodenticides</b>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.07	288.03	541	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	7.81	402.85	490	Difethialone	3	NO	NO
12455-106	TERAD3 BLOX	0.68	144.25	398	Cholecalciferol	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	175.08	77	Difethialone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	35.44	76	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	37.19	71	Bromadiolone	3	NO	NO
3282-110	DIFETHIALONE MINI BLOCKS	0.00	0.18	57	Difethialone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	5.50	37	Zinc phosphide	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	23.39	35	Bromadiolone	3	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	29.06	34	Bromadiolone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	11.69	23	Bromadiolone	3	NO	NO
56-58	JT EATON AC FORMULA 90 RODENTICIDE	0.00	4.31	5	Chlorophacinone	3	NO	NO
47629-16	DIFENACOU RAT AND MOUSE BLOCK	0.00	2.75	4	Difenacoum	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	5.38	368	Indoxacarb	3	NO	NO
432-763	SUSPEND SC	0.49	3.06	253	Deltamethrin	3	NO	NO
100-1484	ADVION COCKROACH GEL BAIT	0.36	5.27	98	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	7.49	45	Boric acid	3	NO	NO
48813-1	SUFFOIL-X	8.32	0.00	36	Petroleum distillates	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.00	92.09	35	D-trans Allethrin; Phenothrin	3	YES	NO
53883-145	LAMBDA 9.7 EW INSECTICIDE	33.25	0.00	34	Cyhalothrin, lambda	2	NO	NO
70051-2	TRIACT 70	7.07	0.00	24	Neem oil	3	NO	NO
432-772	DELTA DUST	0.02	1.36	22	Deltamethrin	3	NO	NO
70506-23	UP-STAR SC LAWN AND NURSERY INSECTICIDE/MITICIDE	30.20	0.00	20	Bifenthrin	3	YES	NO
83100-6	LADA 2F INSECTICIDE	9.70	0.00	20	Imidacloprid	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.58	18	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
100-1489	DUPONT ACELEPRYN INSECTICIDE	13.10	0.00	16	DPX-E2Y45	0	NO	NO
73049-20	DIONNE LARVA HALT II WSP MOSQUITO CONTROL	0.00	98.00	16	Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 solids, spores and insecticidal toxins (See also PC Code 119801)	3	NO	NO
1021-1603	NYLAR 10EC	0.01	0.00	15	Pyriproxyfen	3	NO	NO
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	1.00	15	Flonicamid	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	0.81	14	Cyfluthrin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.66	14	Indoxacarb	3	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.21	0.00	13	Spinosad	3	NO	NO
100-1498	ADVION ANT GEL	0.00	0.26	13	Indoxacarb	3	NO	NO
66222-210	QUALI-PRO ABAMECTIN 0.15 EC	0.83	0.00	12	Avermectin	2	NO	NO
83100-5	LUCID ORNAMENTAL MITICIDE/INSECTICIDE	0.69	0.00	9	Avermectin	2	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	0.61	0.00	9	Cyhalothrin, lambda	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.22	0.00	9	Pyriproxyfen	3	NO	NO
70506-24	UP-STAR GOLD INSECTICIDE	24.50	0.00	8	Bifenthrin	3	YES	NO
432-1369	MAJESTY	0.08	0.00	8	Imidacloprid	3	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.84	8	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	17.63	0.00	7	Bifenthrin	3	YES	NO
66222-19	CHLORPYRIFOS 4E	10.22	0.00	7	Chlorpyrifos	2	NO	NO
432-1312	MERIT 2F INSECTICIDE	6.88	0.00	7	Imidacloprid	3	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.41	0.00	7	Acetamiprid	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.25	0.00	7	Azadirachtin	3	NO	NO
66222-40	PEDESTAL	0.20	0.00	7	Novaluron	3	NO	NO
228-588	MALLET 75 WP	0.00	3.20	7	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
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.00	0.12	7	Hydramethylnon	3	YES	YES
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	38.81	0.00	6	Chlorpyrifos	2	NO	NO
432-1318	MERIT 75 WSP	0.00	16.90	6	Imidacloprid	3	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.00	2.94	6	Pyrethrins; Piperonyl butoxide	3	YES	NO
69526-5	PURESPRAY SPRAY OIL 10E	2.82	0.00	5	Mineral oil	3	NO	NO
100-1487	PROVAUNT	0.00	11.06	5	Indoxacarb	3	NO	NO
400-508	FLORAMITE SC	0.06	0.16	4	Bifenazate	3	NO	NO
66222-199	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	36.10	4	Imidacloprid	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.61	4	Fipronil	3	YES	NO
432-763	SUSPEND SC INSECTICIDE	0.00	0.00	3	Deltamethrin	3	NO	NO
86203-11	SAFARI 20SG INSECTICIDE	0.00	0.48	3	Dinotefuran	3	NO	NO
42750-153	BENEFIT 60 WP	0.00	0.22	3	Imidacloprid	3	NO	NO
432-1506	MAXFORCE QUANTUM ANT BAIT	0.00	0.11	3	Imidacloprid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.04	3	Fipronil	3	YES	NO
5905-368	OMNI SUPREME SPRAY	25.00	0.00	2	Mineral oil	3	NO	NO
66222-19	QUALI-PRO CHLORPYRIFOS 4E	5.00	0.00	2	Chlorpyrifos	2	NO	NO
53883-229	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECT	4.98	0.00	2	Imidacloprid	3	NO	NO
397-13	STERI-FAB	1.50	0.00	2	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
228-658	NUFARM ABAMECTIN 0.15 EC INSECTICIDE	1.41	0.00	2	Avermectin	2	NO	NO
53883-244	QUALI-PRO LAMBDA GC-0	0.48	0.00	2	Cyhalothrin, lambda	2	NO	NO
239-2461	BONIDE SYSTEMIC INSECT CONTROL	0.38	0.00	2	Acephate	2	YES	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.18	0.00	2	(S)-Kinoprene	2	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	0.13	0.00	2	(7S)-Hydroprene	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
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.13	0.00	2	(7S)-Hydroprene	3	NO	NO
432-1471	KONTOS	0.10	0.00	2	Spirotetramat	3	NO	NO
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.01	0.00	2	Potassium laurate	2	NO	NO
2724-478	MAVRIK AQUAFLOW INSECTICIDE	0.00	0.00	2	Tau-fluvalinate	3	NO	YES
228-501	MALLET 0.5 G INSECTICIDE	0.00	1,320.00	2	Imidacloprid	3	NO	NO
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	168.72	2	Chlorpyrifos	3	NO	NO
432-1329	MARATHON 1% GRANULAR GREENHOUSE AND NURSERY INSECT	0.00	4.00	2	Imidacloprid	3	NO	NO
432-1233	SKEETER-MITE 150-750 ULV	0.00	3.94	2	Permethrin; Piperonyl butoxide	3	YES	NO
432-1318	LESCO SYSTEMIC INSECTICIDE CONTAINS MERIT IN WATER SOLUBLE PACKETS	0.00	3.20	2	Imidacloprid	3	NO	NO
73314-6	NoFly WP	0.00	2.00	2	Paecilomyces fumosoroseus strain FE 9901, blastospores	3	NO	NO
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	8.00	0.00	1	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO
100-1018	CYPERMETHRIN CONCENTRATE	0.47	0.00	1	Cypermethrin, beta	2	YES	NO
74578-1	XYTECT INFUSIBLE INSECTICIDE	0.46	0.00	1	Imidacloprid	2	NO	NO
83851-12	AMTIDE IMIDACLOPRID 2F INSECTICIDE	0.16	0.00	1	Imidacloprid	3	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.06	0.00	1	Potassium laurate	2	NO	NO
29312	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.05	0.00	1	Mineral oil	3	NO	NO
8033-94	TRISTAR 30 SG INSECTICIDE	0.00	0.00	1	Acetamiprid	3	NO	NO
538-306	GRUBEX III	0.00	387.00	1	DPX-E2Y45	0	NO	NO
42750-117	IMIDACLOPRID 75WSP T&O	0.00	4.80	1	Imidacloprid	3	NO	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.00	0.50	1	Pyrethrins	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.17	1	Bacillus thuringiensis subspecies israelensis strain BMP 144	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
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	453.59	496.34	1,584	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	77.15	0.00	447	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	78.24	0.25	301	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	236.29	0	278	Glyphosate, dimethylammonium salt	3	NO	NO
100-937	PRIMO MAXX	24.14	0.00	59	Trinexapac-ethyl	3	NO	NO
62719-324	GLYPRO	10.23	0.00	52	Glyphosate, isopropylamine salt	3	NO	NO
66222-212	QUALI-PRO T-NEX 1 AQ	56.61	0.00	47	Trinexapac-ethyl	3	NO	NO
34704-890	AFG PLUS	32.09	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO
62719-542	DIMENSION 2EW	35.53	0.00	26	Dithiopyr	2	NO	NO
62719-517	ACCORD XRT	1.46	0.00	22	Glyphosate, isopropylamine salt	3	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	16.21	0.00	21	Glyphosate, isopropylamine salt	3	NO	NO
79676-24	LESCO REG/MAX PGR PLANT GROWTH REGULATOR	3.59	0.00	20	Trinexapac-ethyl	3	NO	NO
62719-566	TURFLON ESTER ULTRA	2.36	0.00	18	Triclopyr, butoxyethyl ester	3	NO	NO
66330-276	DICAMBA DMA 4# AG	9.63	0.00	16	Dicamba, dimethylamine salt	2	NO	NO
72112-4	GLYPHOSATE PRO 4TM	3.41	0.00	15	Glyphosate, isopropylamine salt	3	NO	NO
62719-40	GARLON 4	3.15	0.00	15	Triclopyr, butoxyethyl ester	3	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	3.36	0.00	13	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO
100-1267	TENACITY	2.70	0.00	12	Mesotrione	3	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	106.54	9	Dithiopyr	3	NO	NO
352-401	DUPONT OUST HERBICIDE	0.00	1.55	9	Sulfometuron methyl	3	NO	NO
53883-336	QUINCLORAC 1.5 L	1.41	0.00	8	Quinclorac, Dimethylamine Salt	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	0.69	0.00	8	Fenoxaprop-P (+)	3	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	562.00	8	Dithiopyr	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	104.57	0.00	7	Paclobutrazol	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
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	60.00	0.00	6	Bensulide	3	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	4.22	0.00	6	Clopyralid	3	NO	NO
86064-3	ARMOR TECH PGR 113 MC	3.47	0.00	6	Trinexapac-ethyl	3	NO	NO
80697-4	ARMOR TECH PAC 223	0.70	0.00	6	Paclobutrazol	3	NO	NO
228-702	NUFARM PROSEDGE SELECTIVE HERBICIDE	0.00	1.14	6	Halosulfuron-methyl	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	27.05	0.00	5	Ethephon	1	NO	NO
70299-23	AXXE BROAD SPECTRUM HERBICIDE	15.66	0.00	5	Nonanoic acid, ammonium salt	2	NO	NO
2217-759	EMBARK 2-S PLANT GROWTH REGULATOR	6.30	0.00	5	Mefluidide, diethanolamine salt	3	NO	NO
4-484	BONIDE KU GR CONCENTRATE	0.03	0.00	5	Glyphosate, isopropylamine salt	2	NO	NO
279-3419	F7275 70 WG HERBICIDE	0.02	1.36	5	Carfentrazone-ethyl; Quinclorac	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.07	5	Halosulfuron-methyl	3	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	26.25	4	Dithiopyr	3	NO	NO
241-416	PENDULUM CS HERBICIDE	39.70	0.00	3	Pendimethalin	3	YES	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	14.13	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	8.75	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	2.25	0.00	3	Mefluidide, diethanolamine salt	3	NO	NO
279-3265	F8426 HERBICIDE	0.19	0.00	3	Carfentrazone-ethyl	3	NO	NO
264-267	PROXY	15.61	0.00	2	Ethephon	1	NO	NO
228-453	BATTLESHIP 3	4.16	0.00	2	MCPA, dimethylamine salt; Triclopyr, triethylamine salt; Fluroxypyr 1-methylheptyl ester	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
2217-656	ENDRUN	3.16	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
62719-176	PATHFINDER II	0.26	0.00	2	Triclopyr, butoxyethyl ester	3	NO	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	33.00	0.00	1	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO
7969-88	POAST PLUS HERBICIDE	22.00	0.00	1	Sethoxydim	3	NO	NO
2217-930	EH-1471 HERBICIDE	5.00	0.00	1	2,4-D, dimethylamine salt; Sulfentrazone; Dicamba, dimethylamine salt; Quinclorac	3	NO	NO
2217-543	TRIMEC HERBICIDE	2.65	0.00	1	2,4-D, dimethylamine salt; MCP-P, dimethylamine salt; Dicamba, dimethylamine salt	1	NO	NO
67702-26	FIESTA TURF WEED KILLER	0.04	0.00	1	Iron HEDTA	3	NO	NO
524-475	ROUNDUP ULTRA	0.00	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO
9198-154	THE ANDERSONS FERTILIZER WITH .125% DIMENSION(R) AND 1.0% RONSTAR(R)	0.00	5,300.00	1	Dithiopyr; Oxadiazon	3	YES	YES
10404-85	0.10% DIMENSION PLUS FERTILIZER	0.00	1,150.00	1	Dithiopyr	3	NO	NO
53883-213	FERTILIZER WITH 0.1% DITHIOPYR HERBICIDE	0.00	550.00	1	Dithiopyr	3	NO	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	288.70	1	Bensulide; Oxadiazon	2	YES	YES
961-405	LEBANON TRIFLURALIN G-5	0.00	40.00	1	Trifluralin	3	YES	NO
228-711	NUFARM PROSEDGE SELECTIVE HERBICIDE2	0.00	0.02	1	Halosulfuron-methyl	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	731.50	0.00	102	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	302.70	0.00	54	Bacillus subtilis GBO3	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
100-1093	HERITAGE FUNGICIDE	0.00	45.34	41	Azoxystrobin	3	NO	NO
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	63.00	0.00	32	Propamocarb hydrochloride	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	76.75	0.00	31	Propamocarb hydrochloride	3	NO	NO
100-1347	CONCERT II	225.00	0.00	30	Propiconazole	1	YES	NO
79676-17	LESCO TWOSOME FUNGICIDE	95.00	0.00	30	Iprodione; Thiophanate-methyl	3	NO	NO
66222-149	ARMOR TECH CLT 825	0.00	1,970.00	30	Chlorothalonil	2	YES	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	17.76	0.00	29	Pyraclostrobin	2	NO	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-890	ALLETTE WDG BRAND FUNGICIDE	0.00	707.00	20	Fosetyl-Al	3	NO	NO
83851-9	AMTIDE TEBU 3.6F FOLIAR FUNGICIDE	47.16	0.00	19	Tebuconazole	3	YES	NO
66222-154	QUALI-PRO CHLOROTHALONIL 720 SFT	195.32	0.00	18	Chlorothalonil	2	YES	NO
264-1155	RHAPSODY AS0	167.04	0.00	18	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	24.08	0.00	17	Triadimefon	3	YES	YES
84059-3	REGALIA PTO BIOFUNGICIDE FOR USE ON TURF AND ORNAMENTALS	26.54	0.00	16	Reynoutria sachalinensis	3	NO	NO
62719-388	FORE 80WP RAINSHIELD	0.00	698.50	16	Mancozeb	3	YES	NO
60063-3	LESCO MANICURE ULTRA	0.00	605.00	15	Chlorothalonil	2	YES	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	53.73	0.00	14	Hydrogen peroxide	1	NO	NO
66222-41	QUALI-PRO PROPICONAZOLE 14.3	47.16	0.00	14	Propiconazole	2	YES	NO
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	115.00	14	Streptomyces lydicus WYEC 108	3	NO	NO
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	22.50	14	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
67702-2	CAMELOT O FUNGICIDE/BACTERICIDE	4.97	0.00	13	Copper octanoate	3	NO	NO
432-1446	TARTAN FLO FUNGICIDE	31.57	0.00	12	Triadimefon; Trifloxystrobin	3	YES	YES
7969-224	CURALAN EG	0.00	604.32	12	Vinclozolin	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
100-1326	BANNER MAXX II	31.31	0.00	11	Propiconazole	3	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	2.46	35.81	11	Thiabendazole	3	NO	NO
432-890	LESCO PRODIGY SIGNATURE	0.00	396.00	9	Fosetyl-Al	3	NO	NO
86064-1	ARMORTECH CLT 825 DF	0.00	170.00	9	Chlorothalonil	2	YES	NO
68173-3	AFFIRM WDG	0.00	55.15	9	Polyoxin D zinc salt	3	NO	NO
228-623	NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	0.10	0.00	8	Propiconazole	2	YES	NO
66222-161	QUALI-PRO FOSETYL -AL 80 WDG	0.00	281.00	8	Fosetyl-Al	3	NO	NO
100-796	SUBDUE MAXX	8.61	0.00	7	Mefenoxam	3	NO	NO
100-1323	HERITAGE G	0.00	210.00	7	Azoxystrobin	3	NO	NO
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	75.00	7	Chlorothalonil	1	YES	NO
50534-209	MANICURE 6 FLOWABLE	84.12	0.00	6	Chlorothalonil	3	YES	NO
66222-214	QUALI-PRO IPRO 2SE	27.50	0.00	6	Iprodione	3	YES	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	1,585.00	6	Chlorothalonil	1	YES	NO
59639-144	V-10116 VPP FUNGICIDE	0.00	97.84	6	Metconazole	3	NO	NO
432-889	CHIPCO 26019 FUNGICIDE	89.65	0.00	5	Iprodione	3	YES	NO
66222-134	THIOPHANATE METHYL 4.5 F	47.50	0.00	5	Thiophanate-methyl	3	YES	YES
70506-241	IPRODIONE 2F FUNGICIDE	39.00	0.00	5	Iprodione	3	YES	NO
100-1433	BRISKWAY	9.72	0.00	5	Azoxystrobin; Difenoconazole	3	YES	NO
69592-19	CEASE	0.85	0.00	5	QST 713 strain of dried Bacillus subtilis	3	NO	NO
70299-6	GREENCLEAN PRO GRANULAR ALGAECIDE/FUNGICIDE	0.00	468.00	5	Sodium percarbonate	1	NO	NO
432-1223	PROSTAR 70 WP	0.00	14.11	5	Flutolanil	3	NO	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	33.00	0.00	4	Thiophanate-methyl	3	YES	YES
432-1505	CHIPCO 26019T FUNGICIDE	22.00	0.00	4	Iprodione; Trifloxystrobin	3	YES	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	20.96	0.00	4	Propiconazole	2	YES	NO
70506-251	PRIMEERAONE T-METHYL 4.5 TURF & ORNAMENTAL FUNGICIDE	9.55	0.00	4	Thiophanate-methyl	3	YES	YES
70252-11	QUALI-PRO MEFENOXAM 2 AQ	5.06	0.00	4	Mefenoxam	3	NO	NO
71512-13	SEGWAY FUNGICIDE	2.10	0.00	4	Cyazofamid	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
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.31	0.00	4	Fenarimol	3	NO	NO
432-1371	COMPASS	0.00	12.90	4	Trifloxystrobin	3	NO	NO
62388-1	NOGALL	0.00	3.09	4	Agrobacterium radiobacter strain K1026	3	NO	NO
83472-1	DECCO FUNGIPHITE PH	75.00	0.00	3	Mono- and dipotassium salts of phosphorous acid	3	NO	NO
100-741	ALAMO FUNGICIDE	32.33	0.00	3	Propiconazole	2	YES	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	19.25	0.00	3	Iprodione; Thiophanate-methyl	3	YES	YES
228-630	LESCO TWOSOME FUNGICIDE	11.50	0.00	3	Iprodione; Thiophanate-methyl	3	YES	YES
66330-305	IPRODIONE 2SE TURF	10.50	0.00	3	Iprodione	3	YES	NO
228-684	NUFARM IPRODIONE SPC FUNGICIDE	7.50	0.00	3	Iprodione	3	YES	NO
228-623	PRIMERAONE PROPICONAZOLE 14.3	5.50	0.00	3	Propiconazole	2	YES	NO
66222-216	QUALI-PRO MEFENOXAM 2AQ	0.86	0.00	3	Mefenoxam	2	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	37.81	3	Triadimefon	3	YES	YES
100-1216	BANNER HERITAGE MAXX	6.63	0.00	2	Azoxystrobin; Propiconazole	3	YES	NO
48234-12	QUALI-PRO TM 4.5	5.00	0.00	2	Thiophanate-methyl	3	YES	YES
86064-4	ARMOR TECH PPZ 143 MC	3.08	0.00	2	Propiconazole	2	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	2.00	5.00	2	Terrazole	3	YES	NO
70299-12	ZEROTOL 2.0	1.57	0.00	2	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO
400-422	TERRAZOLE L	0.95	0.00	2	Terrazole	1	YES	NO
432-1477	PROSTAR 70 WDG FUNGICIDE	0.00	12.00	2	Flutolanil	3	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	2.00	2	Nicobifen	2	YES	NO
100-769	MEDALLION FUNGICIDE	0.00	0.13	2	Fludioxonil	3	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	22.00	0.00	1	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	3	YES	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	10.80	0.00	1	Iprodione	3	YES	NO
464-693	CHEMICAR 15	10.00	0.00	1	Glutaraldehyde	1	NO	NO
69361-27	TEBUCONAZOLE 3.6F FUNGICIDE	1.50	0.00	1	Tebuconazole	3	YES	NO
228-623	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	1.00	0.00	1	Propiconazole	2	YES	NO
100-1448	MEDALLION SC	0.34	0.00	1	Fludioxonil	3	NO	NO

Pesticides Use by NYC, 2014



EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
66222-117	ORIOUS 3.6F	0.16	0.00	1	Tebuconazole	3	YES	NO
400-521	TERRAGUARD SC	0.00	0.00	1	Triflumizole	3	NO	NO
89442-8	FOSAL SELECT FUNGICIDE	0.00	54.00	1	Fosetyl-AI	3	NO	NO
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	33.00	1	Polyoxin D zinc salt	3	NO	NO
7969-255	HONOR FUNGICIDE	0.00	20.25	1	Nicobifen; Pyraclostrobin	3	YES	NO
68539-9	BW240 WP BIOLOGICAL FUNGICIDE	0.00	5.00	1	Trichoderma harzianum rifai strain KRL-AG2; Trichoderma virens strain G-41	3	NO	NO
<b>Other (Repellents, Biochemical Pesticides, Etc.)</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	21.00	0.00	19	Copper oxide (ous)	2	NO	NO
59807-4	HORMODIN 1	0.00	0.79	7	IBA	3	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	2.34	4	Metaldehyde	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	2	Gibberellins	2	NO	NO
1448-212	CHEMICIDE 100-15	12.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
60061-14	WOOLSEY/Z*SPAR SUPER TOX ANTI-FOULING FINISH B-74	1.00	0.00	1	Copper oxide (ous)	2	NO	NO

### APPENDIX 3: Complete Listing of “Best Management Practices” Insecticide Used Citywide in 2014

EPA Reg. #	EPA Prod Name	Volume in Gallons	Weight in Pounds	Total Applications	Active Ingredient Data
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.16	119.47	5,552	Indoxacarb
432-1259	PRODUCT: RBF5	0.10	144.71	3,217	Fipronil
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	30.09	122.38	2,760	Fipronil
100-1484	ADVION COCKROACH GEL BAIT	0.36	201.48	2,402	Indoxacarb
73049-429	VECTOMAX FG	0.00	961.28	1,934	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
432-1257	MAXFORCE ROACH BAIT F.05	0.62	127.58	1,906	Fipronil
64405-2	REDZONE BAIT	0.13	515.72	1,255	Boric acid
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	16338.78	797	Bacillus sphaericus
279-3384	ROACH KIL COMMERCIAL	0.00	326.68	793	Boric acid
67425-14	ECOPCO ACU	44.00	0.36	617	Phenylethyl propionate
1021-1828	MGK ROACH BAIT 2822	0.00	13.09	555	Avermectin
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	70.11	516	Boric acid
73766-1	GOURMET ANT BAIT GEL	8.14	8.69	370	Disodium octaborate tetrahydrate
73079-4	BORACTIN INSECTICIDE POWDER	0.00	52.79	341	Boric acid
100-1498	DUPONT ADVION ANT GEL	0.23	10.06	272	Indoxacarb
100-1498	ADVION ANT GEL	0.00	18.08	272	Indoxacarb
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	5.46	164	Avermectin
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	83.85	115	Disodium octaborate tetrahydrate
1021-1603	NYLAR 10EC	79.29	0.00	84	Pyriproxyfen
73079-10	INVICT (TM) COCKROACH GEL	0.00	2.05	60	Imidacloprid
432-1262	MAXFORCE IBH10	0.95	5.42	59	Hydramethylnon
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.49	45	Indoxacarb
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	27200.00	44	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.05	1.56	39	Hydramethylnon
48813-1	SUFFOIL-X	8.32	0.00	36	Petroleum distillates
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.47	3.07	29	Fipronil
70051-2	TRIACT 70	7.07	0.00	24	Neem oil
432-1375	PRE-EMPT FLY BAIT	0.00	4.15	22	Imidacloprid; (Z)-9-Tricosene
100-1501	DUPONT ARILON INSECTICIDE	26.50	0.00	20	Indoxacarb
73049-20	DIONNE LARVA HALT II WSP MOSQUITO CONTROL	0.00	98.93	20	Bacillus sphaericus 2362, serotype H5a5b, strain ABTS 1743 solids, spores and insecticidal toxins (See also PC

					Code 119801)
1021-2593	MGK? Formula 2976	0.00	0.38	15	Avermectin; Pyriproxyfen
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.00	5.50	14	Avermectin
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.21	0.00	13	Spinosad
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	10.38	11	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.22	0.00	9	Pyriproxyfen
73766-1	ADIOS ANT & ROACH KILLER IN A GEL	0.22	0.35	9	Disodium octaborate tetrahydrate
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.08	9	Hydramethylnon
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.84	8	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.05	0.18	6	Fipronil
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	3.63	6	Dinotefuran; Diatomaceous earth
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.41	6	Bacillus thuringiensis subspecies Israelensis strain BMP 144
67425-4	ECOPCO AC CONTACT INSECTICIDE	0.16	0.00	5	Phenylethyl propionate
100-1487	PROVAUNT	0.00	11.06	5	Indoxacarb
100-1486	ADVION COCKROACH BAIT ARENA	0.00	0.64	4	Indoxacarb
241-313	SIEGE PBS GEL INSECTICIDE	0.00	2.81	3	Hydramethylnon
432-1506	MAXFORCE QUANTUM ANT BAIT	0.00	0.11	3	Imidacloprid
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.01	0.00	2	Potassium laurate
1677-191	ECO2000-GR	0.00	2.13	2	Boric acid
6218-47	ANTI-MOS BRIQUETS	0.00	0.88	2	Bacillus thuringiensis subspecies Israelensis strain BMP 144
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	8.00	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.06	0.00	1	Potassium laurate
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.02	0.00	1	Hydramethylnon
499-509	WHITMIRE DE 1606	0.00	0.25	1	Diatomaceous earth
73079-2	INTICE GRANULAR BAIT	0.00	0.25	1	Boric acid
73766-1	ADIOS ANT KILLER GEL	0.00	0.09	1	Disodium octaborate tetrahydrate
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	0.06	1	S-Methoprene
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.05	1	Imidacloprid; (Z)-9-Tricosene
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.03	1	Indoxacarb