



# **Pesticide Use by New York City Agencies in 2012**

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New York City Department of Health and Mental Hygiene

May, 2013



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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 2012, 34 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 133,040 times by New York City in 2012. Agencies used a total of 8,550 gallons and 97,610 pounds of pesticides. (Table 1)
- Insecticides were the most frequently applied type of pesticide, accounting for nearly 58% of all applications. (Table 1)
- The most heavily used type of pesticide by volume was herbicides, accounting for 40% while insecticides by weight made up 53% of all pesticides used by City agencies (Table 1). When excluding the DOHMH West Nile Virus (WNV) larviciding program, rodenticides were the most heavily used with 48% by weight.
- New York City agencies are not the only users of pesticides in New York City. New York State summarizes pesticide use by all applicators – commercial and private. Comparing New York City agencies' use in 2005 (the last year New York State released its data), local government use accounts for an estimated 2.5% of the total volume of liquid pesticides, and 10% of the total pounds of solid pesticides applied within the five boroughs of New York City.
- In comparison to reporting amounts in 2011, there was a 15% decrease in herbicide use by volume continuing to show annual fluctuations in application amounts. (Figure 2)
- There was a 32% increase in insecticides by volume. Most of that increase was a 44% rise in pyrethroids applied, especially for the control of cockroaches and bed bugs by Health and Hospitals Corporation (HHC). (Figure 2 and Figure 5)
- “Best Management Practices” products (Appendix 3) – largely gel and bait insecticides with little potential for human exposure – accounted for 28% of the number of insecticide applications in 2012. When excluding WNV larvicides, the number of these applications reported by weight increased 7.5% as compared with 2011 (data not shown). The total quantity (weight) of these “Best Management Practices” products used when excluding WNV larvacides increased by 33%. But the amount of these products declined overall by 24% due to a reduction in larvacides used. (Figure 1 and Figure 3)

- There was a 22% decrease in rodenticide amounts used by agencies over 2011, continuing a declining trend in use over the past two years. 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 2012, with rats, mice, bed bugs and mosquitos making up the top 5 pests by number of total applications. (Table 3)
- The amount of pyrethroids by volume applied to target bed bugs has increased by 39% since 2011 after declines in recent years, driven by increases at HHC and New York Housing Authority (NYCHA). (Figure 3)
- The amount of pyrethroids by volume applied to target roaches show wide fluctuations year to year with a 29% increase from 2011 to 2012 after a 36% decline from 2010 to 2011, due to increased applications by HHC. (Figure 3)

# Pesticide Use by New York City Agencies in 2012

## I. BACKGROUND

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

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

In October, 2007 New York City enacted Local Law 54 which requires City agencies to report their pesticide use to DOHMH, and for DOHMH to issue a summary report to the City Council and the Mayor. This is the sixth 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 2012, Thirty seven agencies reported electronic data with two agencies reporting no applications made.

## II. SOURCES OF PESTICIDE USE DATA

New York City agencies are required to report to DOHMH their pesticide use by February 1 for the preceding calendar year. This report summarizes data received by the Department for pesticides applied during calendar year 2012. All reporting New York City agencies and their contractors provided data to DOHMH in electronic format.

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

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

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

- 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 2012 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 2012 due to greater use of the NYCPURS system with input standardization and consistent formatting.

We expect to see further improvements in the data over the next year as more agencies fully adopt electronic recordkeeping, migrating existing electronic or paper systems to the NYCPURS system developed by DOHMH for electronic recordkeeping. Additional information about NYCPURS is available at <http://nyc.gov/health/1137>.

## **IV. PESTICIDE USE FINDINGS**

### **A. TYPES OF PESTICIDES USED BY AGENCIES**

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

#### **Rodenticides**

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

In 2012, a total of 25,471 pounds of rodenticides were applied by City agencies, accounting for 28.6% by weight of all pesticides applied, and 56.0% by weight when excluding WNV larvacides. (Table 1)

#### **Insecticides**

A total of 2,814 gallons and 51,411 pounds of insecticides were applied by New York City in 2012, accounting for 32.9% by volume, and 52.7% by weight of the total applications. Biological insecticides applied to target mosquito larvae account for 86% of insecticides by weight (Table 1). When those products are excluded, 7,200 pounds of insecticides by weight were applied making up 13.5% of solid pesticides applied. Insecticides used by NYC agencies in 2012 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 2012 include Whitmere Optem ME PT 600®, Steri-Fab®, Demand CS Insecticide®, Tempo SC Insecticide®, Suspend SC Insecticide® and Speckoz Evercide Esfenvalerate EC®.

Together, pyrethrins and pyrethroids accounted in 2012 for 91.1% of the total insecticides amounts applied by volume and 5.4% by weight, 44.1% by weight when excluding WNV larvicides. These products made up 69.4% of the total number of insecticide applications. There was 44.1% increase in pyrethroids applied by volume 2011 to 2012 due to increased applications by HHC.

### ***Organophosphates and Carbamates***

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

The only organophosphate active ingredient used in 2012 was outdoor applications of chlorpyrifos and trichlorfon on certain golf courses. The few carbamate active ingredients used in 2012 include propoxur and methomyl used in containerized baits. Organophosphate and carbamate products applied by agencies in 2012 include Nufarm Chlorpyrifos SPC 4 Insecticide®, Dylox 420 SL Turf and Ornamental Insecticide, Stimukil Fly Bait and Prentox Larva-Lur Contains Propoxur®.

Reports submitted by agencies showed that, in 2012, the use of organophosphates and carbamates accounted for just 1.9% of the total insecticides applied by agencies by volume a 48% decline from 2011 levels, and 1.6% by weight, 13.2% by weight excluding WNV larvicides, a 19% increase from 2011, with 94% of the amount by weight 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 0.03% 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 CG Biological Larvicide Granules®, Vectomax FG®, Avert Prescription Treatment TC 93A Bait®, and DuPont Advion Cockroach Gel Bait®.

In 2011 3.8% of the total insecticides applied by volume, and 92.5% by weight, were insecticidal dusts, gels and baits, or biological larvicides. Excluding WNV larvicides, the totals equal 38.2% of insecticide products by weight. These products made up 27.9% of the total number of insecticide applications.

## **Herbicides**

The herbicides used by New York City agencies in 2012 were used primarily for vegetation control in parks and for the maintenance of highways and street medians. The active ingredients most commonly used in 2012 were glyphosate, dinitroanilines, chlorophenoxyacetic acids and ureas. Herbicides were a major contributor of pesticide use by agencies.

A total of 3,394 gallons and 9,254 pounds were applied, accounting for 39.7% of total volume and 9.5% of total weight, 17.3% when excluding WNV larvaciding, of all pesticides used by agencies in 2012. (Table 1)

### ***Glyphosate***

The most heavily used herbicides applied as a liquid by agencies were glyphosates in Roundup® products. Glyphosate is a broad-spectrum, non-selective systemic herbicide that can be used throughout the growing season. The active ingredient glyphosate poses little risk of acute poisonings or chronic health effects and has not been shown to be carcinogenic. Glyphosate use has increased as agencies have phased out the use of herbicides prohibited under Local Law 37. In 2012 34.2% of applications of herbicide by volume contained glyphosate, a 37% increase from 2011.

### ***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 2012 were Pendulum3.3 EC Herbicide® and Turf Fertilizer – Contains Team 0.92%®.

### *Chlorophenoxyacetic/Benzoic Acids*

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

### *Ureas*

Like dinitroaniline herbicides, urea herbicides are of low acute toxicity, but some may pose certain chronic risks. Classification as a possible human carcinogen varies within the group. Diuron, a urea herbicide among the ten most heavily used herbicides reported by commercial applicators in the private market in the City in 2005, is classified by the EPA as a likely human carcinogen. Sulfonylureas are of low acute toxicity and have been so classified. All urea herbicides are highly persistent. Common Urea active ingredients are Diuron and Siduron. Common urea products used by NYC agencies in 2012 were Dupont Oust Extra Herbicide® and Starter Fertilizer with Crabgrass Preventer®.

### **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 2012 were chlorothalonil, thiophanate-methyl, PCNB, iprodione and mancozeb. Common fungicide products applied in 2012 include Heritage Fungicide®, Aliette WDG Brand Fungicide® and Lesco Manicure Ultra®.

Fungicides make up a smaller portion of the overall pesticide use by agencies, accounting for 26.4% of the total pesticide applied by volume and 10.8% by weight, and 19.8% by weight when excluding WNV larvacides. (Table 1)

## **B. SUMMARY OF CITYWIDE PESTICIDE USE**

Pesticide use can be measured and compared in a number of ways. Throughout the remainder of this report, we describe the frequency with which pesticides are applied, as well as the quantity of pesticides applied. Quantities for liquid applications are measured as volume in gallons. Quantities for solid applications are measured as weight in pounds. Pesticides were applied a total of 128,525 times by New York City in 2012. The pesticides applied most frequently by New York City were insecticides. Insecticides were the most heavily used in terms of weight and herbicides in terms of volume. In 2011, 87.8% of the insecticides reported by

weight were bacterial products designed to kill mosquito larvae in stagnant waters, away from human contact. If we exclude these products, which were used as part of the West Nile Virus control program then 13.5% of the total pesticide by weight would be due to insecticides. The majority of rodenticide applied by the City of New York is placed directly into rat burrows and poses little risk of exposure to the public. Table 1, below, summarizes these findings. This table, as all others that follow, is sorted in order of descending number of applications.

**Table 1. Total Applications Reported Applied by NYC Agencies in 2012, by Pesticide Type**

Pesticide Type	Volume		Weight			Times Applied	
	Gallons	% of Total	Pounds	% of Total	% wo WNV	Number	% of Total
Rodenticide	27.77	0.3%	25,740.57	26.4%	48.2%	47,736	35.9%
Insecticide	2,813.56	32.9%	51,410.93	52.7%	13.5%	76,601	57.6%
Herbicide	3,393.68	39.7%	9,253.51	9.5%	17.3%	3,719	2.8%
Fungicide	2,257.18	26.4%	10,552.86	10.8%	19.8%	802	0.6%
Other	58.22	0.7%	652.40	0.7%	1.2%	4,182	3.1%
<b>Totals:</b>	<b>8,550.40</b>		<b>97,610.26</b>			<b>133,040</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 2012. For each, we list the total volume, weight and number of applications, as well as the active ingredient(s), the EPA toxicity category, whether the product is considered by EPA a known, possible or suspect carcinogen, and whether the product is listed by the State of California as a reproductive hazard. For this and subsequent product tables, the toxicity category refers to the EPA's assigned label warning to indicate the degree of acute toxicity from oral, dermal and inhalation exposures on a scale from 1 to 4. Toxicity Category 1 indicates pesticides considered highly toxic and whose label requires the signal word, "Danger". Toxicity Category 2 products are considered moderately toxic and product labels carry the word "Warning" Toxicity Category 3 products are considered to be slightly toxic while Toxicity 4 products are considered relatively non-toxic. Both toxicity categories 3 and 4 carry the signal word "Caution" A complete list of products used by New York City by pesticide class is included in Appendix 1 to this report.

**Table 2. Ten Most Frequently Applied Pesticide Products by NYC Agencies in 2012 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>								
12455-79	CONTRAC ALL-WEATHER BLOX	2.71	8,873.45	14,775	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.13	8,364.93	12,897	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	3.19	3,347.49	10,485	Difethialone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	1,619.11	2,840	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
12455-133	CONTRAC WITH LUMITRACK	0.00	707.63	1,871	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	690.97	1,523	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	547.28	784	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.12	452.41	631	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	350.44	538	Difethialone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.52	203.77	348	Diphacinone	2	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	665.20	1.26	32,856	Deltamethrin	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	115.80	4.61	9,087	Cyfluthrin	3	NO	NO
397-13	STERI-FAB	724.90	432.97	7,071	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	6.19	232.63	4,497	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.44	845.77	4,189	Boric acid	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	108.61	2,613	Fipronil	3	YES	NO
73049-429	VECTOMAX FG	0.00	960.67	2,282	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	439.69	17.00	2,063	Cyfluthrin, beta	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	65.05	1,670	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.58	63.70	1,459	Fipronil	3	YES	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	114.23	5.88	715	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	337.95	37.31	626	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
62719-556	ACCORD XRT II	917.63	0.00	565	Glyphosate, dimethylammonium salt	3	NO	NO
62719-527	GARLON 4 ULTRA	469.90	0.00	338	Triclopyr	2	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	79.02	0.00	248	Dicamba, diglycolamine salt	3	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.00	38.96	243	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
62719-176	PATHFINDER II	94.20	0.00	159	Triclopyr, butoxyethyl ester	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	835.38	0.00	157	Pendimethalin	3	YES	NO
62719-324	GLYPRO	61.29	0.00	105	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	78.00	0.00	68	Trinexapac-ethyl	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	340.91	5.00	70	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	304.75	0.00	51	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	149.69	42	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	129.58	0.00	41	Hydrogen peroxide	1	NO	NO
264-1155	RHAPSODY AS0	209.10	0.00	34	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	60.50	0.00	30	Propamocarb hydrochloride	3	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	70.57	1.00	29	Iprodione; Thiophanate-methyl	3	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	59.47	265.00	29	Propamocarb hydrochloride	3	NO	NO
432-890	ALIETTE WDG BRAND FUNGICIDE	0.00	1,034.00	27	Fosetyl-Al	3	NO	NO
68173-3	AFFIRM WDG	0.00	16.94	25	Polyoxin D zinc salt	3	NO	NO
<b>Other</b>								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	12.48	0.69	1416	(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 GENCOR 9% EMULSIFIABLE CONCENTRATE	0.34	0.00	24	(7S)-Hydroprene	3	NO	NO
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	29.00	0.00	23	Copper oxide (ous)	2	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	5.66	8	Metaldehyde	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0.39	0.00	3	Paclobutrazol	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	3	Gibberellins	2	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.00	0.00	2	Capsicum oleoresin	3	NO	NO
59807-4	HORMODIN 1	0.00	0.09	2	IBA	3	NO	NO
1448-212	CHEMICIDE 100-15	15.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	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 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.

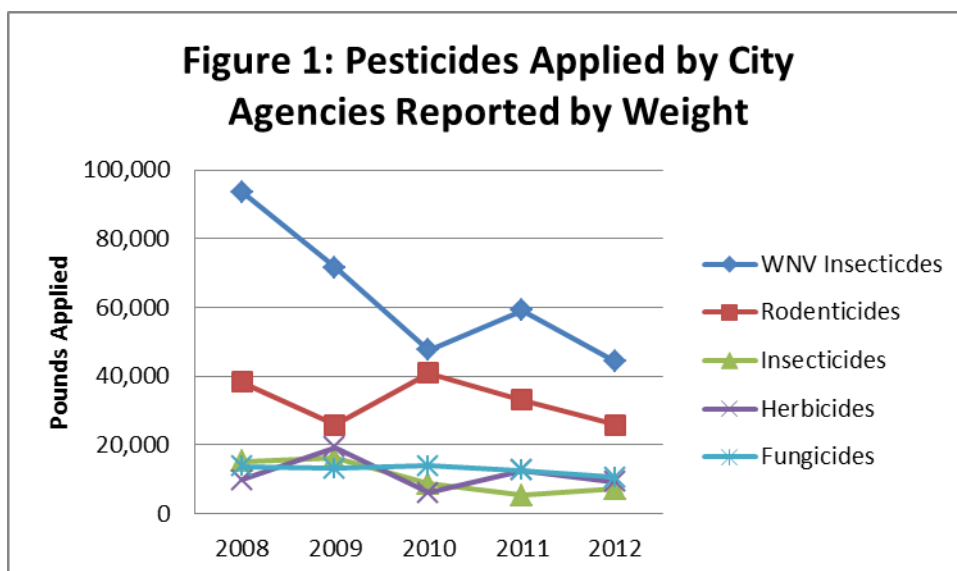
**Table 3: Complete listing of pesticide applications by New York City Agencies by Target Pest, 2012**

Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Roaches	1,259	2,355	51,257	39%
Rats	22	15,546	29,423	22%
Mice	46	9,572	20,074	15%
Bedbugs	932	494	17,235	13%
Mosquitoes	3	47,274	5,831	4%
Weeds, vines, or grasses	3,394	9,254	3,719	3%
Flying insects	135	251	1,503	1%
Ants	111	68	1,450	1%
Other Crawling Insects	123	101	1,108	1%
Fungal Disease or Infestation	2,257	10,553	802	1%

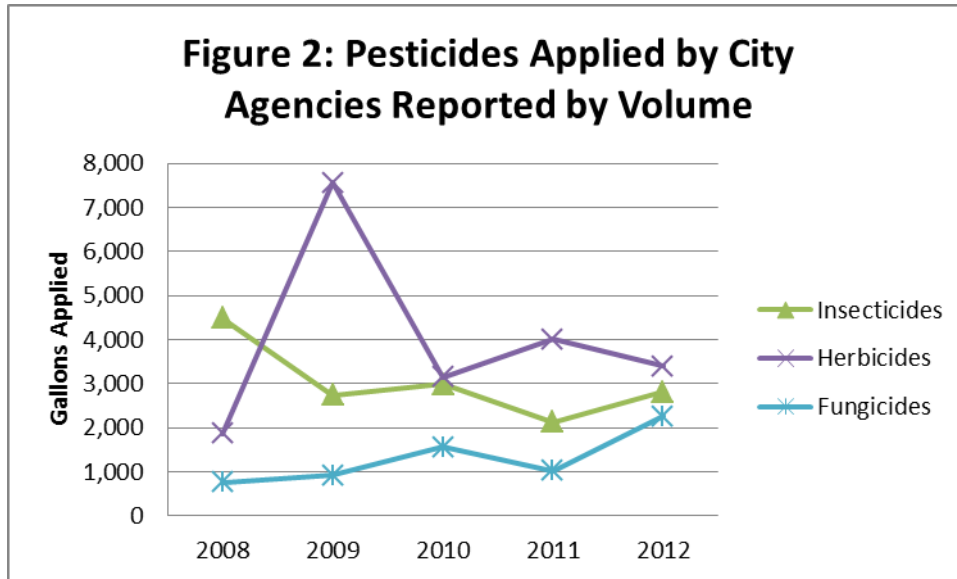


Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Other Pests	268	2,017	528	0%
Other Rodents	0	125	110	0%
<b>Totals:</b>	<b>8,550</b>	<b>97,485</b>	<b>132,930</b>	

Figures 1 and 2 show trends from 2008 through 2012 in use of pesticides by city agencies by type of target pest, with products reported by weight and volume respectively. In Figure 1, WNV program larvicides are charted separately from other insecticides because WNV larvicides are a large proportion of city insecticide use and because year to year variation in larvicide use is more weather dependent than use of other insecticides. Non-WNV insecticide use has generally been declining, while fungicides reported by weight have remained very consistent from year to year and consist almost exclusively of fungicides applied to turf on city golf courses. Amounts of all pesticides reported by weight declined in 2012 with the exception of non-WNV insecticides which increased by 15% from levels reported in 2011 driven by a 33% increase in amounts of BMP insecticides (Figures 1 and 3).



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

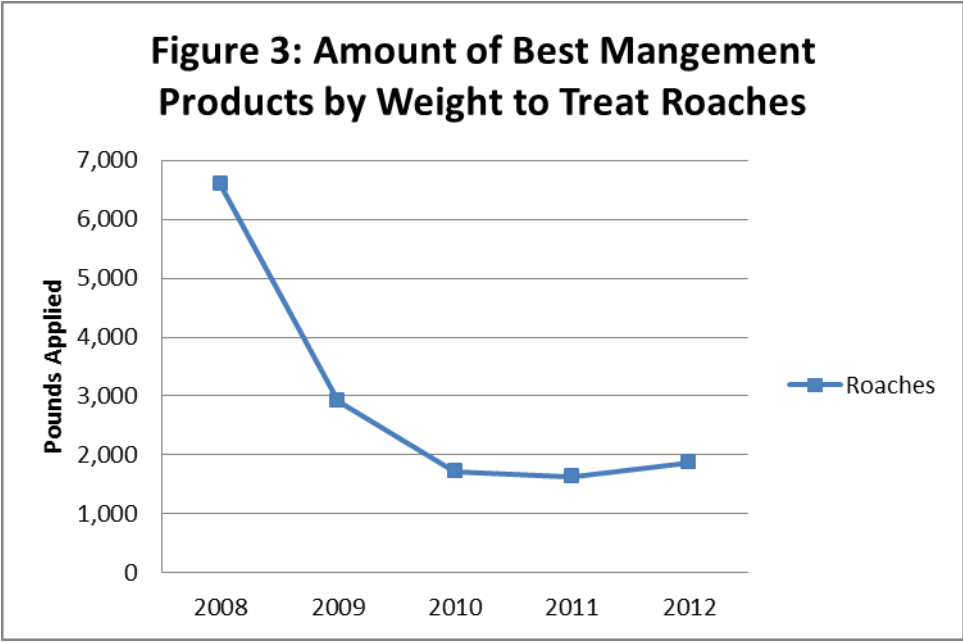


In 2012 overall herbicides use reported by volume declined by 15% (Figure 2) even though there was a 37% increase in the amount of glyphosate applied by volume. The high volume of herbicide (mostly glyphosate) used in 2009 was due in part to variable weather conditions more conducive to weed growth and large discreet projects by the Parks department to control invasive species after previous years of delayed maintenance in remote, often wooded, parkland. There was a 32% increase in insecticide reported by volume from higher amounts of the use of certain pyrethroid products. Fungicides reported by volume increased 119% in 2012 driven by an increase in applications on NYC golf courses.

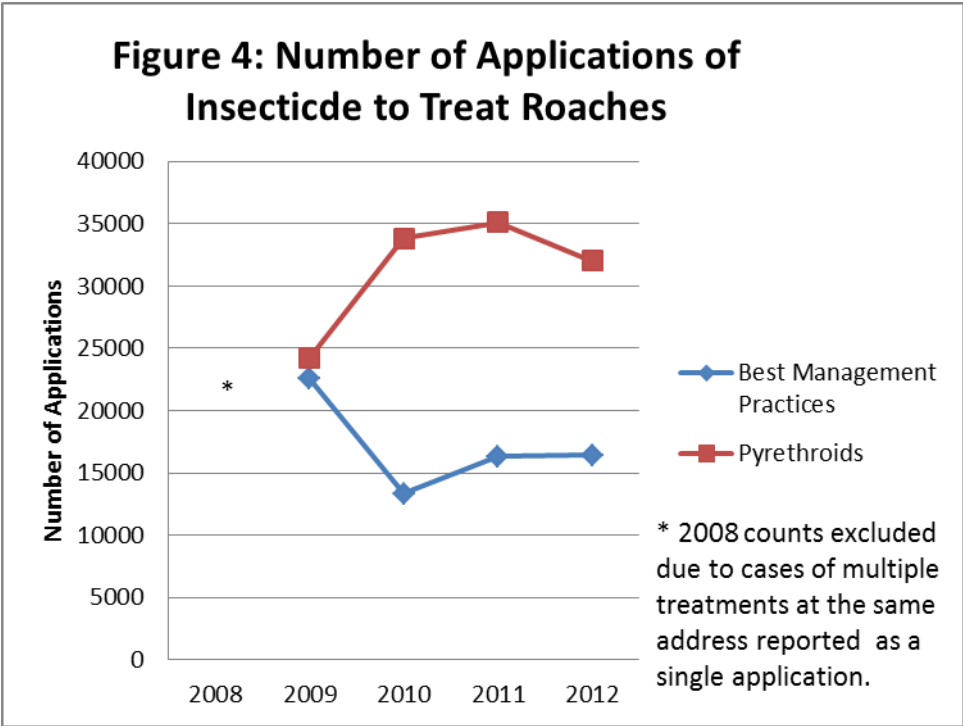
From 2008 to 2012 there was a 37% decrease in use of insecticides reported by volume, with most of the change occurring between 2008 and 2009 (Figure 2). From 2008 to 2012 there was also a drop of 53% by weight in WNV larvicides (Figure 1).

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

After a large reduction in BMP products to combat roaches from 2008 to 2010 and a further small decline in the amount reported from 2010 to 2011, use of these products increased 15% 2011 to 2012 (Figure 3).

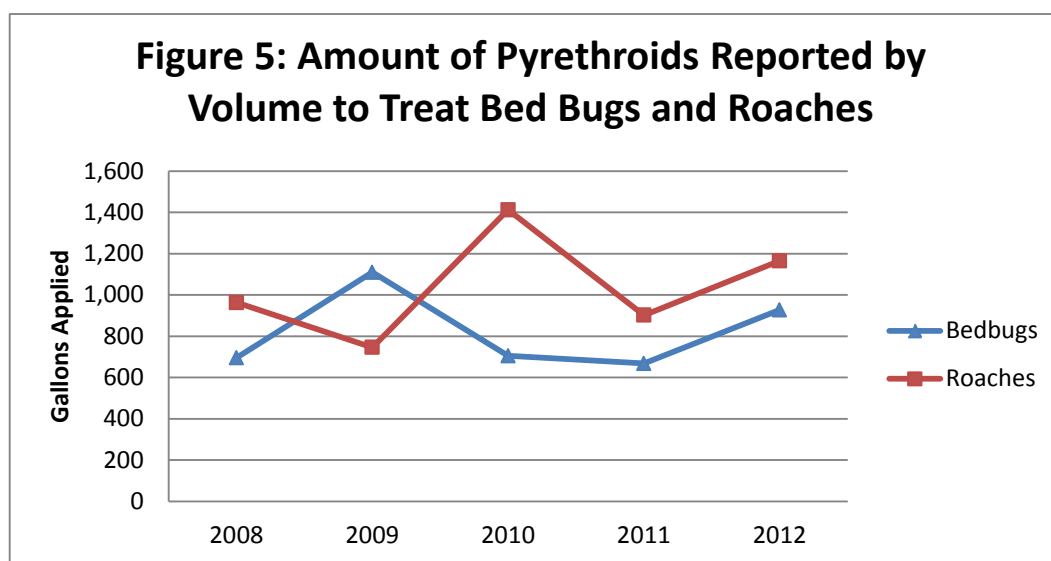


There was a 9% reduction in the number of pyrethroid applications to treat roaches from 2011 to 2012, while the use of BMP products remained stable (Figure 4).



## Bed Bugs vs. Roaches

Looking at pyrethroid spray products by volume targeting roaches, the use of these products increased by 29% from 2011 to 2012 after declined by 36% from 2010 to 2011 (Figure 5). There was also a 39% increase from 2011 to 2012 in gallons of pyrethroids used by city agencies to treat bed bugs after a 5% decline from 2010 to 2011 (Figure 5). Citywide, 13% of all pesticide application and 22% of all insecticide application were to treat bed bugs (Table 3 and Table 1). The volume of pyrethroids used to treat roaches increased in 2012 mainly due to a higher proportion of applications with higher application rates (quantity used per application) by HHC.



## Rodents

Rodenticide use has fluctuated year to year with no clear trend. However, application amounts have declined by 22% again in 2012 to the lowest levels since 2009 after a 19% decline in 2011. 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 44,210 pounds of larvicide and 2,163 pounds of adulticide in 2012. This was a 25% decrease in larvicide reported by weight from 2011 (Figure 1). This resumes a trend of mostly declining amounts 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 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 and their total use by reporting City agencies.

## Administration for Children's Services

The New York City Administration for Children's Services (ACS) provides for the protection of New York City's children from abuse and neglect. Along with their community partners, Children's Services provides neighborhood-based services to help ensure children grow up in safe, permanent homes with strong families. The 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 2012, primarily at facilities previously under management of the DJJ..

**Table 4: Types of Pesticides Used by ACS in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	23.0	76.9%	25	26.6%
Insecticide	0.0	0.0%	6.9	23.1%	69	73.4%
<b>Totals</b>	<b>0.0</b>		<b>29.9</b>		<b>94</b>	

**Table 5: Pesticide Products Used by ACS in 2012**

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	22.69	23	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	0.29	2	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.76	55	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	5.00	11	Boric acid	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.10	2	Fipronil	3	YES	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.06	1	Boric acid	3	NO	NO

## Administration Trials and Hearings, Office of

The Office of Administrative Trials and Hearings (OATH) is an independent agency that conducts administrative hearings for other City agencies, boards or commissions. OATH oversees the operations of four tribunals: the OATH Tribunal, the Environmental Control Board, the Health Tribunal, and the Taxi & Limousine Tribunal. It also offers training services through the Administrative Judicial Training Institute. Table 6 summarizes pesticide use by pesticide type. Table 7 lists all pesticide products used by OATH in 2012.

**Table 6: Types of Pesticides Used by OATH in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Insecticide	0.0	0.0%	0.8	100.0%	1	100.0%
<b>Totals</b>	<b>0.0</b>		<b>0.8</b>		<b>1</b>	

**Table 7: Pesticide Products Used by OATH in 2012**

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>								
64405-2	REDZONE BAIT	0.00	0.75	1	Boric acid	3	NO	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 2012.

## 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 8 summarizes pesticide use by pesticide type. Table 9 lists all pesticide products used by BPL in 2012.

**Table 8: Types of Pesticides Used by BPL in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	125.6	71.1%	672	48.3%
Insecticide	0.0	100.0%	51.0	28.9%	719	51.7%
<b>Totals</b>	<b>0.0</b>		<b>176.6</b>		<b>1,391</b>	

**Table 9: Pesticide Products Used by BPL in 2012 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	125.64	672	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	50.99	706	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.05	0.00	13	Deltamethrin	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 2012.

**Table 10: Types of Pesticides Used by CUNY in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.8	3.9%	326.3	7.4%	456	30.6%
Insecticide	10.6	53.8%	74.0	1.7%	976	65.6%
Herbicide	8.4	42.2%	4,000.0	90.9%	31	2.1%
Other	0.0	0.1%	0.6	0.0%	25	1.7%
<b>Totals</b>	<b>19.8</b>		<b>4,400.9</b>		<b>1,488</b>	

**Table 11: Pesticide Products Used by CUNY in 2012 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	217.13	211	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	59.06	136	Difethialone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	21.38	37	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.48	9.33	26	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
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	12.25	23	Brodifacoum	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	5.91	13	Difethialone	3	NO	NO
12455-61	LIQUA-TOX II	0.29	0.00	7	Diphacinone, sodium salt	3	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	0.72	1	Brodifacoum	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	0.56	1	Zinc phosphide	1	NO	NO
12455-90	FINAL RODENTICIDE	0.00	0.02	1	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	6.11	15.51	412	Indoxacarb	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	10.47	111	Fipronil	3	YES	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	0.00	3.27	105	Esfenvalerate	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.31	0.13	59	Deltamethrin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.32	44	Indoxacarb	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.66	0.56	38	Hydramethylnon	3	YES	YES
73079-2	INTICE GRANULAR BAIT	0.06	3.56	25	Boric acid	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.01	0.00	25	Cyhalothrin, lambda	3	NO	NO
67425-14	ECOPCO ACU	0.54	5.69	18	Phenylethyl propionate	3	NO	NO
432-763	SUSPEND SC	1.10	0.00	16	Deltamethrin	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.27	0.25	16	Fipronil	3	YES	NO
432-1363	TEMPO SC INSECTICIDE	0.00	0.41	16	Cyfluthrin, beta	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.36	0.38	13	Fipronil	3	YES	NO
397-13	STERI-FAB	0.59	0.00	8	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.38	8	Fipronil	3	YES	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.05	8	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
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.04	0.00	5	Hydramethylnon	3	YES	YES
64405-2	REDZONE BAIT	0.00	2.94	5	Boric acid	3	NO	NO
499-507	TC 248	0.00	0.63	5	Dinotefuran	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.11	0.05	4	Disodium octaborate tetrahydrate	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.03	4	Avermectin	3	NO	NO
100-1260	OPTIGARD ANT GEL BAIT	0.02	0.00	3	Thiamethoxam	3	YES	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.01	0.00	3	Esfenvalerate	3	NO	NO
499-444	WHITMIRE MICRO-GEN TC 164	0.00	0.00	3	Pyrethrins; Piperonyl butoxide	3	YES	NO
499-531	TC 267	0.12	0.00	2	Dinotefuran	3	NO	NO
499-515	TC 273	0.05	0.00	2	Boric acid	3	NO	NO
62719-608	Recruit HD	0.00	24.47	2	Noviflumuron	0	NO	NO
62719-314	MONTEREY GARDEN INSECT SPRAY	0.00	0.00	2	Spinosad	3	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	0.00	2	Deltamethrin	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.35	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	0.25	0.00	1	Cyfluthrin, beta	3	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	0.01	0.00	1	Cyfluthrin	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	0.01	0.00	1	D-trans Allethrin; Phenothrin	3	YES	NO
432-1329	MARATHON 1% GRANULAR GREENHOUSE AND NURSERY INSECTICIDE	0.01	0.00	1	Imidacloprid	3	NO	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTICIDE	0.00	0.00	1	Bifenthrin	3	YES	NO
499-470	JOHNSON WAX PROFESSIONAL BRAND RESIDUAL INSECTICIDE CRAWLING INSECT	0.00	0.00	1	Cyfluthrin	3	NO	NO
499-290	WHITMIRE PT 565 WB PYRETHRUM INSECT FOGGER	0.00	0.19	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
64405-2	LEGS UP! INDOOR GRANULAR BAIT	0.00	0.19	1	Boric acid	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
499-509	WHITMIRE DE 1606	0.00	0.13	1	Diatomaceous earth	3	NO	NO
432-772	DELTA DUST	0.00	0.02	1	Deltamethrin	3	NO	NO
<b>Herbicides</b>								
228-366	RAZOR HERBICIDE	4.14	0.00	15	Glyphosate, isopropylamine salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	4.21	0.00	13	Glyphosate, isopropylamine salt	3	NO	NO
62719-137	SPRING CRABGRASS CONTROL	0.00	4000.00	3	Benfluralin; Trifluralin	3	YES	NO
<b>Other</b>								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.02	0.56	25	(7S)-Hydroprene	3	NO	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, 2012 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 2012.

### 12: Types of Pesticides Used by DCAS in 2012

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	37.4	77.5%	21	18.9%
Insecticide	0.0	0.0%	10.8	22.5%	90	81.1%
<b>Totals</b>	<b>0.0</b>		<b>48.2</b>		<b>111</b>	

**Table 13: Pesticide Products Used by DCAS in 2012 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	37.13	20	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
12455-80	ALL-WEATHER DI-BLOX	0.00	0.25	1	Diphacinone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	9.61	69	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.00	0.89	7	Boric acid	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.09	7	Fipronil	3	YES	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.21	6	Fipronil	3	YES	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.04	1	Boric acid	3	NO	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. DCA reported pesticides application in 2012 but the data reported could not be summarized in the format presented.

## 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 14 summarizes pesticide use by pesticide type. Table 15 lists all pesticide products used by DOC in 2012.

**Table 14: Types of Pesticides Used by DOC in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.5	0.4%	384.8	65.6%	431	18.1%
Insecticide	135.8	99.6%	201.6	34.4%	1,948	81.9%
<b>Totals</b>	<b>136.3</b>		<b>586.4</b>		<b>2,379</b>	

**Table 15: Pesticide Products Used by DOC in 2012 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	0.48	214.66	253	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-218	GENERATION MINI BLOCKS	0.00	77.42	41	Difethialone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	19.06	40	Diphacinone	2	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	10.02	30	Bromadiolone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	26.81	24	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	15.13	16	Brodifacoum	3	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	0.32	8	Difethialone	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	6.25	7	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	8.75	6	Bromadiolone	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	6.32	3	Bromadiolone	3	NO	NO
7173-113	INTER ROZOL TRACKING POWDER	0.00	0.00	2	Chlorophacinone	2	NO	NO
7173-211	D-CEASE RAT AND MOUSE BAIT	0.00	0.09	1	Difethialone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC	46.67	0.69	659	Deltamethrin	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	37.26	2.59	515	Cyfluthrin, beta	3	NO	NO
499-507	TC 248	20.00	19.02	213	Dinotefuran	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	11.95	169	Fipronil	3	YES	NO
64405-2	REDZONE BAIT	0.06	60.44	126	Boric acid	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	1.82	44	Fipronil	3	YES	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	2.40	32	Fipronil	3	YES	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.70	1.52	31	Hydramethylnon	3	YES	YES
432-1262	MAXFORCE IBH10	0.00	62.48	27	Hydramethylnon	3	YES	YES
432-1304	TEMPO 10 WP INSECTICIDE	20.00	1.32	26	Cyfluthrin, beta	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.12	24.88	23	Bacillus sphaericus	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	2.26	23	Fipronil	3	YES	NO
279-3385	DRAX ANT KILL GEL	0.47	0.69	13	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
397-13	STERI-FAB	5.80	0.00	12	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	5.56	12	Boric acid	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	2.13	4	(Z)-9-Tricosene; Methomyl	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	0.75	4	Boric acid	3	NO	NO
432-1252	MAXFORCE PROFESSIONAL INSECT CONTROL ANT KILLER BA	0.00	0.15	3	Hydramethylnon	3	YES	YES
279-3401	LESCO WASP & HORNET PLUS	1.72	0.00	2	Tetramethrin; Permethrin; Piperonyl butoxide	3	YES	NO
432-992	DRIONE INSECTICIDE	0.00	0.38	2	Pyrethrins; Piperonyl butoxide; Silica gel	3	YES	NO
9688-255	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	3.00	0.00	1	Deltamethrin; S-Bioallethrin	3	YES	NO
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.02	0.00	1	Avermectin	3	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.38	1	Avermectin	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.04	1	Hydramethylnon	3	YES	YES
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.02	1	Fipronil	3	YES	NO
9444-131	VICTOR LIQUID ANT KILLING SYSTEM	0.00	0.00	1	Boric acid	3	NO	NO
9444-131	BAYER ADVANCED ANT KILLER POWER PEN READYTO-USE BAIT	0.00	0.07	1	Boric acid	3	NO	NO
9444-131	VICTOR LIQUID ANT KILLING SYSTEM	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 16 summarizes pesticide use by pesticide type. Table 17 lists all pesticide products used by DOE in 2012.

**Table 16: Types of Pesticides Used by DOE in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	3.2	5.0%	2,833.1	76.2%	6966	41.4%
Insecticide	60.7	95.0%	882.5	23.8%	9878	58.6%
<b>Totals</b>	<b>63.9</b>		<b>3,715.6</b>		<b>16,844</b>	

**Table 17: Pesticide Products Used by DOE in 2012 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	3.05	1006.05	3895	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.15	1823.14	3069	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	3.94	2	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
64405-2	REDZONE BAIT	0.07	721.57	3873	Boric acid	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	87.57	2162	Fipronil	3	YES	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	40.36	1071	Indoxacarb	3	NO	NO
2724-484	RF 9707 AEROSOL	32.79	1.33	693	(7S)-Hydroprene	3	NO	NO
67425-14	ECOPCO ACU	25.43	2.13	687	Phenylethyl propionate	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	12.85	619	Disodium octaborate tetrahydrate	3	NO	NO
499-507	TC 248	0.02	14.22	613	Dinotefuran	3	NO	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	2.36	0.00	63	Boric acid	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	1.66	55	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
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.13	22	Fipronil	3	YES	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.47	7	Boric acid	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.05	7	Indoxacarb	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.02	3	Indoxacarb	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	0.13	1	Hydramethylnon	3	YES	YES
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.00	0.01	1	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.01	1	Fipronil	3	YES	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 18 summarizes pesticide use by pesticide type. Table 19 lists all pesticide products used by DEP in 2012.

**Table 18: Types of Pesticides Used by DEP in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	162.3	45.3%	199	24.6%
Insecticide	3.9	15.4%	195.9	54.7%	588	72.8%
Herbicide	21.6	84.6%	0.0	0.0%	21	2.6%
<b>Totals</b>	<b>25.5</b>		<b>358.2</b>		<b>808</b>	

**Table 19: Pesticide Products Used by DEP in 2012 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>								
7173-218	GENERATION MINI BLOCKS	0.00	151.71	184	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	5.44	8	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	0.97	3	Difethialone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	4.00	2	Diphacinone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	0.18	2	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.00	15.04	247	Avermectin	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	1.97	0.06	135	Deltamethrin	3	NO	NO
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	140.00	70	S-Methoprene	3	NO	NO
64405-2	REDZONE BAIT	0.00	20.19	64	Boric acid	3	NO	NO
9688-190	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	1.61	0.00	25	Cyhalothrin, lambda; Prallethrin	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.21	16	Fipronil	3	YES	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	18.88	7	Bacillus sphaericus	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.01	7	Indoxacarb	3	NO	NO
149-8	TERRO ANT KILLER II	0.00	1.38	5	Borax	3	NO	NO
2724-786	RF2050 SPRAY	0.22	0.00	3	Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
1021-1773	ZPRO ZYY IMPACT RESIDUAL AEROSOL	0.14	0.00	3	Esfenvalerate	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	0.03	2	Hydramethylnon	3	YES	YES
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.00	2	Fipronil	3	YES	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	0.00	0.06	1	Esfenvalerate	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.03	1	Boric acid	3	NO	NO

**Herbicides**



EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
524-475	ROUNDUP ULTRA HERBICIDE	13.40	0.00	8	Glyphosate, isopropylamine salt	3	NO	NO
524-343	ROUNDUP CUSTOM HERBICIDE	2.25	0.00	6	Glyphosate, isopropylamine salt	3	NO	NO
42750-247	DUPONT KRENITE S BRUSH CONTROL AGENT	5.00	0.00	3	Fosamine, ammonium salt	3	NO	NO
1381-192	CORNERSTONE PLUS	0.80	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
228-366	RAZOR HERBICIDE	0.15	0.00	1	Glyphosate, isopropylamine salt	3	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 2012.

## Fire Department

The Fire Department of New York City (FDNY) is responsible for the protection against fires and fire hazards and providing emergency medical services, technical rescue and response to various biological, chemical and radioactive hazards. It manages some 350 facilities throughout the City and contracts for pest control services. Table 20 summarizes pesticide use by pesticide type. Table 21 lists all pesticide products used by FDNY in 2012.

**Table 20: Types of Pesticides Used by FDNY in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	58.0	94.5%	45	26.2%
Insecticide	6.5	100.0%	3.4	5.5%	127	73.8%
<b>Totals</b>	<b>6.5</b>		<b>61.4</b>		<b>172</b>	

**Table 21: Pesticide Products Used by FDNY in 2012 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	57.06	39	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	0.66	3	Difethialone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	0.19	2	Diphacinone	2	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	0.13	1	Brodifacoum	3	NO	NO
<b>Insecticides</b>								
397-13	STERI-FAB	6.46	0.00	68	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.83	33	Indoxacarb	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.30	17	Fipronil	3	YES	NO
64405-2	REDZONE BAIT	0.00	2.27	6	Boric acid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.02	3	Fipronil	3	YES	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 22 summarizes pesticide use by pesticide type. Table 23 lists products by pesticide types.

**Table 22: Types of Pesticides Used by HHC in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total

Rodenticide	0.0	0.0%	384.3	31.3%	607	15.1%
Insecticide	1,153.3	100.0%	843.3	68.7%	3410	84.9%
<b>Totals</b>	<b>1,153.3</b>		<b>1,227.6</b>		<b>4,017</b>	

**Table 23: Pesticide Products Used by HHC in 2012 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	195.40	394	Difethialone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	180.38	192	Bromadiolone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	2.88	8	Chlorophacinone	2	NO	NO
12455-16	ZP TRACKING POWDER	0.00	1.56	8	Zinc phosphide	1	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2.56	4	Bromadiolone	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	1.50	1	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	87.05	901	Indoxacarb	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	198.93	611	Boric acid	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	402.22	0.00	425	Cyfluthrin, beta	3	NO	NO
397-13	STERI-FAB	0.00	423.97	394	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-1483	TEMPRID SC INSECTICIDE	129.56	0.00	212	Cyfluthrin, beta; Imidacloprid	3	NO	NO
10807-455	BORID BARRIER WITH BORIC ACID	0.00	56.12	186	Boric acid	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	217.32	0.00	171	Deltamethrin	3	NO	NO
432-772	DELTA DUST	0.00	13.64	125	Deltamethrin	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	84.06	0.00	79	Cyfluthrin, beta	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	81.96	0.00	64	Cyhalothrin, lambda	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	2.83	63	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
64405-2	REDZONE BAIT	0.00	22.56	59	Boric acid	3	NO	NO
1677-191	ECO2000-GR	0.00	18.98	42	Boric acid	3	NO	NO
1021-1603	NYLAR 10EC	27.38	0.00	33	Pyriproxyfen	3	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	17.50	0.00	15	Indoxacarb	3	NO	NO
8033-96	TRANSPORT (R) GHP INSECTICIDE	2.25	0.00	5	Acetamiprid; Bifenthrin	3	YES	NO
432-836	DELTAGARD G INSECTICIDE GRANULE	0.00	12.00	5	Deltamethrin	3	NO	NO
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	3.75	5	Propoxur	3	YES	NO
432-1331	PREMISE 2 INSECTICIDE	5.00	0.00	3	Imidacloprid	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	3.00	3	(Z)-9-Tricosene; Methomyl	3	NO	NO
5481-520	WISDOM (R) TC FLOWABLE	185.00	0.00	2	Bifenthrin	3	YES	NO
47000-73	SSI-50 INSECTICIDE	0.00	0.32	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
100-1481	DUPONT ADVION FIRE ANT BAIT	0.00	0.10	2	Indoxacarb	3	NO	NO
1677-43	STER-BAC	1.00	0.00	1	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.07	1	Indoxacarb	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.02	1	Bacillus thuringiensis subspecies israelensis strain BMP 144	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 24 summarizes pesticide use by pesticide type. Table 25 lists all pesticide products used by DOHMH in 2012.

**Table 24 Types of Pesticides Used by DOHMH in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	12,666.0	21.5%	25,811	88.7%
Insecticide	0.3	100.0%	46,378.9	78.5%	3,301	11.3%
<b>Totals</b>	<b>0.3</b>		<b>59,044.9</b>		<b>29,112</b>	

**Table 25: Pesticide Products Used by DOHMH in 2012 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>								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	4959.77	8518	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	3168.69	8189	Bromadiolone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	1619.11	2840	Brodifacoum	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1029.89	2269	Difethialone	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	705.13	1869	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	678.58	1474	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	504.88	652	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
73049-429	VECTOMAX FG	0.00	960.67	2282	Bacillus sphaericus; Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	29122.46	476	Bacillus sphaericus	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
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	14102.56	232	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.08	3.42	162	Indoxacarb	3	NO	NO
1021-1688	ANVIL 10+10 ULV	0.00	2163.42	66	Phenothrin; Piperonyl butoxide	3	YES	NO
1021-1828	MGK ROACH BAIT 2822	0.00	1.02	53	Avermectin	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	0.20	0.00	26	Cyfluthrin, beta	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	24.92	2	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO
5481-338	ALCO SMALL NO-PEST STRIP	0.00	0.38	1	DDVP	3	YES	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.02	1	Fipronil	3	YES	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 26 summarizes pesticide use by pesticide type. Table 27 lists all pesticide products used by DHS in 2012.

**Table 26: Types of Pesticides Used by DHS in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	453.7	99.7%	309	35.4%
Insecticide	5.7	100.0%	1.1	0.3%	565	64.6%
<b>Totals</b>	<b>5.7</b>		<b>454.9</b>		<b>874</b>	

**Table 27: Pesticide Products Used by DHS in 2012 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>								

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	451.81	291	Bromadiolone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.52	16	Diphacinone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1.31	1	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	0.07	1	Difethialone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	3.26	0.00	411	Deltamethrin	3	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.68	59	Avermectin	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.26	40	Fipronil	3	YES	NO
397-13	STERI-FAB	2.36	0.00	25	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-772	DELTA DUST	0.00	0.10	12	Deltamethrin	3	NO	NO
67425-14	ECOPCO ACU	0.10	0.00	9	Phenylethyl propionate	3	NO	NO
64405-2	REDZONE BAIT	0.00	0.08	5	Boric acid	3	NO	NO
499-467	WHITMIRE AVERT TC 181	0.00	0.00	2	Avermectin	3	NO	NO
53883-92	CYPER TC INSECTICIDE	0.00	0.00	1	Cypermethrin, beta	2	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.00	0.03	1	Fipronil	3	YES	NO

## Housing Authority

The New York City Housing Authority (NYCHA) manages 2,644 residential buildings and 178,466 apartments, as well as office space and grounds that cover 2,502 acres. NYCHA currently has a staff of some 75 pest management professionals that perform routine inspections and treatments, carry out specialized intensive IPM interventions, apply pesticides, and respond to complaints and requests from other agencies. NYCHA staff members regularly address a range of insect and rodent problems, including interior mice, cockroaches and bedbugs and

exterior rats, weeds, and mosquito control. Table 28 summarizes pesticide use by pesticide type. Table 29 lists the products used by NYCHA in 2012.

**Table 28: Types of Pesticides Used by NYCHA in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	2.9	0.2%	6,851.0	86.7%	10,141	15.5%
Insecticide	1,272.1	98.5%	407.3	5.2%	51,320	78.3%
Herbicide	3.6	0.3%	0.0	0.0%	14	0.0%
Other	12.8	1.0%	645.6	8.2%	4,103	6.3%
<b>Totals</b>	<b>1,291.4</b>		<b>7,903.8</b>		<b>65,578</b>	

**Table 29: Ten Most Frequently Applied Pesticide Products by NYCHA in 2012 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>								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.13	2799.60	3964	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.14	920.08	3041	Difethialone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	2.08	2552.05	2294	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.52	180.90	296	Diphacinone	2	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.06	227.44	148	Diphacinone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	88.99	118	Diphacinone	3	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	11.63	104	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	23.63	83	Bromadiolone	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	16.69	44	Bromadiolone	3	NO	NO
87235-1	BRIGAND SB SOFT BAIT RODENTICIDE	0.00	16.62	26	Bromadiolone	3	NO	NO
12455-5	DITRAC ALL-WEATHER CAKE	0.00	3.21	10	Diphacinone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	4.69	6	Brodifacoum	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	4.94	4	Chlorophacino ne	2	NO	NO
47629-16	DIFENACOU M RAT AND MOUSE BLOCK	0.00	0.07	2	Difenacoum	3	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	0.50	1	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	440.96	1.07	31884	Deltamethrin	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	115.80	4.61	9087	Cyfluthrin	3	NO	NO



EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
397-13	STERI-FAB	709.69	9.00	6562	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.02	60.02	1374	Fipronil	3	YES	NO
432-1259	PRODUCT: RBF5	0.00	44.52	1077	Fipronil	3	YES	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	18.69	439	Avermectin	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	8.73	295	Fipronil	3	YES	NO
499-467	WHITMIRE AVERT TC 181	0.00	24.83	286	Avermectin	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	185.88	92	Boric acid	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.62	0.00	80	Esfenvalerate	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	3.01	47	Indoxacarb	3	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	2.63	0.00	23	Deltamethrin	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.21	22	Indoxacarb	3	NO	NO
241-313	SIEGE PBS GEL INSECTICIDE	0.00	3.44	11	Hydramethylnon	3	YES	YES
1021-2569	MULTICIDE SPRAY 29511	1.46	0.00	10	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO
100-1066	DEMAND CS INSECTICIDE	0.01	0.00	7	Cyhalothrin, lambda	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	40.01	6	(Z)-9-Tricosene; Methomyl	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.03	0.21	5	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
67425-14	ECOPCO ACU	0.53	0.00	4	Phenylethyl propionate	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	0.04	3	Bacillus sphaericus	3	NO	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.03	2.00	2	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO
432-1483	TEMPRID SC INSECTICIDE	0.02	0.00	2	Cyfluthrin, beta; Imidacloprid	3	NO	NO
64405-2	REDZONE BAIT	0.31	0.00	1	Boric acid	3	NO	NO
8033-109	TRANSPORT (R) MIKRON INSECTICIDE	0.01	0.00	1	Acetamiprid; Bifenthrin	3	YES	NO
<b>Herbicides</b>								
524-454	ROUNDUP ORIGINAL II HERBICIDE	2.54	0.00	8	Glyphosate, isopropylamine salt	2	NO	NO
524-517	ACCORD XL HERBICIDE	1.01	0.00	6	Glyphosate, isopropylamine salt	3	NO	NO
<b>Other</b>								
2724-421	ZOECON RF-292 BRIQUET	0.00	645.43	2696	S-Methoprene	3	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	12.42	0.13	1383	(7S)-Hydroprene	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	0.34	0.00	24	(7S)-Hydroprene	3	NO	NO

## Housing Preservation and Development

Housing Preservation and Development (HPD) oversees occupied and vacant residential and commercial buildings, vacant lots as well as a limited number of agency offices. In addition, its Emergency Repair Program occasionally encounters and responds to rats and fleas in occupied private buildings. There are no certified applicators on staff and the agency contracts for pest management services. Table 30 summarizes pesticide use by pesticide type. Table 31 lists all pesticide products used by HPD in 2012.

**Table 30: Types of Pesticides Used by HPD in 2011**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.1	26.6%	171.2	100.0%	261	19.0%
Insecticide	0.3	66.0%	0.0	0.0%	1,106	80.4%
Other	0.0	7.4%	0.0	0.0%	8	0.6%
<b>Totals</b>	<b>0.5</b>		<b>171.2</b>		<b>1,375</b>	

**Table 31: Pesticide Products Used by HPD in 2012**

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	0.12	132.83	217	Bromadiolone	3	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	36.50	42	Diphacinone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	1.88	2	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
432-1363	TEMPO SC INSECTICIDE	0.13	0.00	1075	Cyfluthrin, beta	3	NO	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	0.13	0.00	22	Esfenvalerate	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.03	0.00	8	Deltamethrin	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	1	Esfenvalerate	3	NO	NO
<b>Other</b>								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	0.00	8	(7S)-Hydroprene	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. Table 32 summarizes pesticide use by pesticide type. Table 33 lists all pesticide products used by NYPL in 2012.

**Table 32: Types of Pesticides Used by NYPL in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0	0.0%	97.7	87.3%	95	9.2%
Insecticide	0	0.0%	14.2	12.7%	940	90.8%
<b>Totals</b>	<b>0.0</b>	<b>0.0%</b>	<b>112.0</b>		<b>1,035</b>	

**Table 33: Pesticide Products Used by NYPL in 2012 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	95.34	71	Bromadiolone	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	2.38	24	Difethialone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	12.62	814	Indoxacarb	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.72	70	Fipronil	3	YES	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.34	43	Fipronil	3	YES	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.31	10	Boric acid	3	NO	NO
64405-2	REDZONE BAIT	0.00	0.25	3	Boric acid	3	NO	NO

## Parks and Recreation

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

This data includes pesticides applied on all city-owned golf courses. Local Law 37 exempts these locations from pesticide prohibitions. The table also includes the data from sister organizations that operate on DPR property such as zoos, conservancies, and botanic gardens. Table 34 summarizes pesticide use by pesticide type. Table 35 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 34: Types of Pesticides Used by DPR in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	753.4	6.6%	1312	25.5%
Insecticide	141.8	3.2%	1,209.9	10.7%	555	10.8%
Herbicide	2,941.2	67.3%	3,516.0	31.0%	2718	52.8%
Fungicide	1,241.0	28.4%	5,850.7	51.6%	517	10.0%
Other	44.4	1.0%	6.3	0.1%	44	0.9%
<b>Totals</b>	<b>4,368.5</b>		<b>11,336.4</b>		<b>5,146</b>	

**Table 35: Ten Most Frequently Applied Pesticide Products by DPR in 2012 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>								

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	394.19	490	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	115.40	300	Difethialone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	129.19	192	Bromadiolone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	9.06	88	Zinc phosphide	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	25.88	59	Bromadiolone	3	NO	NO
12455-39	QUINTOX RAT AND MOUSE BAIT	0.00	17.28	49	Cholecalciferol	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	12.53	42	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	0.14	26	Brodifacoum	3	NO	NO
47629-16	DIFENACOUM RAT AND MOUSE BLOCK	0.00	37.06	15	Difenacoum	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.05	13	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.95	53	Indoxacarb	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	1.92	33	Fipronil	3	YES	NO
48813-1	SUFFOIL-X	16.47	0.00	30	Petroleum distillates	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	7.66	0.00	28	D-trans Allethrin; Phenothrin	3	YES	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	7.96	26	Hydramethylnon	3	YES	YES
100-896	AVID 0.15 EC MITICIDE/INSECTICIDE	1.30	0.00	23	Avermectin	2	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.96	0.00	17	Potassium laurate	2	NO	NO
42750-153	BENEFIT 60 WP	0.00	4.19	17	Imidacloprid	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	1.24	0.00	16	Pyriproxyfen	3	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.87	0.00	16	Acetamiprid	3	NO	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	114.23	5.88	715	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	320.33	37.31	605	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	469.71	0.00	337	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	796.07	0.00	311	Glyphosate, dimethylammonium salt	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	835.38	0.00	157	Pendimethalin	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
62719-324	GLYPRO	61.29	0.00	105	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	78.00	0.00	68	Trinexapac-ethyl	3	NO	NO
62719-40	GARLON 4	17.79	0.00	64	Triclopyr, butoxyethyl ester	3	NO	NO
241-391	PENDULUM 3.3 HERBICIDE	5.25	0.00	64	Pendimethalin	3	YES	NO
72112-4	GLYPHOSATE PRO 4TM	4.76	0.00	41	Glyphosate, isopropylamine salt	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	340.91	5.00	70	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	304.75	0.00	51	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	149.69	42	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGI CIDE	129.58	0.00	41	Hydrogen peroxide	1	NO	NO
264-1155	RHAPSODY ASO	209.10	0.00	34	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	60.50	0.00	30	Propamocarb hydrochloride	3	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	70.57	1.00	29	Iprodione; Thiophanate-methyl	3	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	59.47	265.00	29	Propamocarb hydrochloride	3	NO	NO
432-890	ALIETTE WDG BRAND FUNGICIDE	0.00	1034.00	27	Fosetyl-Al	3	NO	NO
68173-3	AFFIRM WDG	0.00	16.94	25	Polyoxin D zinc salt	3	NO	NO
<b>Other</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	29.00	0.00	23	Copper oxide (ous)	2	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	5.66	8	Metaldehyde	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0.39	0.00	3	Paclobutrazol	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	3	Gibberellins	2	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.00	0.00	2	Capsicum oleoresin	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
59807-4	HORMODIN 1	0.00	0.09	2	IBA	3	NO	NO
1448-212	CHEMICIDE 100-15	15.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0.00	0.50	1	Fox urine	3	NO	NO
73049-67	DITERA DF BIOLOGICAL NEMATICIDE	0.00	0.04	1	Myrothecium verrucaria, dried fermentation solids & solubles	3	NO	NO

## Payroll Administration

The Office of Payroll Administration (OPA) is charged with administering the City's payroll and ensuring prompt and accurate payment of employees' wages and salaries. The agency contracts for pest management services. Table 36 summarizes pesticide use by pesticide type. Table 37 lists all pesticide products used by OPA in 2012

**Table 36: Types of Pesticides Used by OPA in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	6.6	90.9%	4	30.8%
Insecticide	0.0	0.0%	0.7	9.1%	9	69.2%
<b>Totals</b>	<b>0.0</b>		<b>7.3</b>		<b>13</b>	

**Table 37: Pesticide Products Used by OPA in 2012 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	6.63	4	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.66	9	Indoxacarb	3	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 2012.

**Table 38: Types of Pesticides Used by NYPD in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	319.0	97.2%	183	27.5%
Insecticide	0.8	100.0%	9.3	2.8%	483	72.5%
<b>Totals</b>	<b>0.8</b>		<b>328.3</b>		<b>666</b>	

**Table 39: Pesticide Products Used by NYPD in 2012 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	250.25	84	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	63.31	55	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	5.11	36	Difethialone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.29	8	Diphacinone	3	NO	NO
<b>Insecticides</b>								
432-1259	PRODUCT: RBF5	0.00	2.90	171	Fipronil	3	YES	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	4.34	147	Indoxacarb	3	NO	NO
432-763	SUSPEND SC INSECTICIDE	0.74	0.00	130	Deltamethrin	3	NO	NO
64405-2	REDZONE BAIT	0.00	1.72	17	Boric acid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.37	8	Fipronil	3	YES	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.02	4	Avermectin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.00	4	Indoxacarb	3	NO	NO
397-13	STERI-FAB	0.01	0.00	2	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO



## Probation, Department of

The New York City Department of Probation is charged with protecting the community by intervening in the lives of offenders, holding them accountable and serving as a catalyst for positive change. In collaboration with the community and other justice partners they provide information and services to the courts, give victims a voice in the justice system, and help strengthen families. The agency contracts for pest management services. No data was received for DOP in 2012.

## 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 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	20.2	16.6%	0.0	0.0%	153	25.6%
Insecticide	2.6	2.1%	44.3	100.0%	426	71.4%
Herbicide	98.9	81.2%	0.0	0.0%	18	3.0%
<b>Totals</b>	<b>121.7</b>		<b>44.3</b>		<b>597</b>	

**Table 41: List of Pesticides Applied by DSNY in 2012**

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	14.30	0.00	93	Brodifacoum	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	3.86	0.00	44	Bromadiolone	3	NO	NO
12455-76	ZEP TOTAL CONTROL PELLET PACKS TOTAL CONTROL SYSTE	1.72	0.00	13	Bromadiolone	3	NO	NO
12455-90	FINAL RODENTICIDE	0.16	0.00	1	Brodifacoum	3	NO	NO
12455-89	JAGUAR BAIT CHUNX	0.14	0.00	1	Brodifacoum	3	NO	NO
12455-76	BLACK LEAF BLITZ READY-TO-USE PLACE PAC	0.07	0.00	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>								
432-763	SUSPEND SC	1.84	0.00	261	Deltamethrin	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.00	29.05	69	Cyhalothrin, lambda	3	NO	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.28	1.14	44	Fipronil	3	YES	NO
432-1363	TEMPO SC INSECTICIDE	0.07	14.00	30	Cyfluthrin, beta	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.27	0.00	12	Disodium octaborate tetrahydrate	3	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.08	0.03	4	Fipronil	3	YES	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.03	0.00	3	Avermectin	3	NO	NO
73766-1	ADIOS ANT KILLER GEL	0.01	0.00	1	Disodium octaborate tetrahydrate	3	NO	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.00	0.05	1	Hydramethylnon	3	YES	YES
432-1259	PRODUCT: RBF5	0.00	0.00	1	Fipronil	3	YES	NO
<b>Herbicides</b>								
81927-9	GLYPHOSATE 4 PLUS	98.88	0.00	18	Glyphosate, isopropylamine salt	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 2012.

**Table 42: Types of Pesticides Used by DOT in 2012**

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.0	0.0%	87.0	68.4%	45	4.5%
Insecticide	0.6	0.2%	1.2	0.9%	67	6.7%
Herbicide	277.8	99.8%	39.0	30.7%	891	88.8%
<b>Totals</b>	<b>278.3</b>		<b>127.1</b>		<b>1,003</b>	

**Table 43: Pesticide Products Used by DOT in 2012**

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>								
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	60.31	26	Bromadiolone	3	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	25.19	15	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1.46	4	Difethialone	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	0.56	0.00	45	Deltamethrin	3	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.50	10	Indoxacarb	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	0.06	4	Fipronil	3	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.20	3	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
67425-14	ECOPCO ACU CONTACT INSECTICIDE	0.00	0.19	1	Phenylethyl propionate	3	NO	NO
499-527	TC 249	0.00	0.13	1	Dinotefuran; Diatomaceous earth	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.08	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.01	1	Fipronil	3	YES	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.00	1	Avermectin	3	NO	NO
<b>Herbicides</b>								
62719-556	ACCORD XRT II	121.56	0.00	254	Glyphosate, dimethylammonium salt	3	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	79.02	0.00	248	Dicamba, diglycolamine salt	3	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.00	38.96	243	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
62719-176	PATHFINDER II	76.07	0.00	144	Triclopyr, butoxyethyl ester	3	NO	NO
71995-33	ROUNDUP WEED & GRASS KILLER READY-TO-USE PLUS	0.94	0.00	1	Glyphosate, isopropylamine salt; Nonanoic acid	3	NO	NO
62719-527	GARLON 4 ULTRA	0.20	0.00	1	Triclopyr	2	NO	NO

## **Youth and Community Development**

The Department of Youth and Community Development (DYCD) provides the City of New York with high-quality youth and family programming. The central task of DYCD is administering available City, state, and federal funds to effective community-based organizations. No pesticide applications were made by DYCD in 2012.

## APPENDIX 1: Complete Listing of Pesticide Products Used by New York City Agencies by Pesticide Type in 2012

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	2.71	8,873.45	14,775	Bromadiolone	3	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.13	8,364.93	12,897	Bromadiolone	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	3.19	3,347.49	10,485	Difethialone	3	NO	NO
100-1050	TALON-G RODENTICIDE BAIT PACK MINI-PELLETS WITH BI	0.00	1,619.11	2,840	Brodifacoum	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	707.63	1,871	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	690.97	1,523	Brodifacoum	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	547.28	784	Bromadiolone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.12	452.41	631	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	350.44	538	Difethialone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.52	203.77	348	Diphacinone	2	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.06	263.94	190	Diphacinone	3	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	93.80	144	Diphacinone	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	3.86	54.56	129	Bromadiolone	3	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	14.78	14.19	127	Brodifacoum	3	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	11.63	104	Brodifacoum	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	9.06	88	Zinc phosphide	3	NO	NO
12455-39	QUINTOX RAT AND MOUSE BAIT	0.00	17.28	49	Cholecalciferol	3	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	16.69	44	Bromadiolone	3	NO	NO
87235-1	BRIGAND SB SOFT BAIT RODENTICIDE	0.00	16.62	26	Bromadiolone	3	NO	NO
100-1057	TALON-G RODENTICIDE MINI-PELLETS WITH BITREX	0.00	19.19	19	Brodifacoum	3	NO	NO

<b>EPA Reg. #</b>	<b>EPA Product Name</b>	<b>Volume (Gals)</b>	<b>Weight (Lbs)</b>	<b>No. Appl's.</b>	<b>Active Ingredient(s)</b>	<b>EPA Tox. Cat.</b>	<b>EPA Carcin</b>	<b>CA Dev. Toxin</b>
47629-16	DIFENACOUM RAT AND MOUSE BLOCK	0.00	37.14	17	Difenacoum	3	NO	NO
12455-76	ZEP TOTAL CONTROL PELLET PACKS TOTAL CONTROL SYSTE	1.72	0.00	13	Bromadiolone	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.05	13	Bromadiolone	3	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	7.81	12	Chlorophacinone	2	NO	NO
12455-5	DITRAC ALL-WEATHER CAKE	0.00	3.21	10	Diphacinone	3	NO	NO
12455-16	ZP TRACKING POWDER	0.00	2.13	9	Zinc phosphide	1	NO	NO
12455-97	FASTRAC PLACE PACS	0.00	0.93	8	Bromethalin	3	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	0.32	8	Difethialone	3	NO	NO
12455-61	LIQUA-TOX II	0.29	0.00	7	Diphacinone, sodium salt	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	7.82	5	Bromadiolone	3	NO	NO
67517-72	ASSAULT MOUSE/RAT PLACE PACK	0.00	0.01	5	Bromethalin	3	NO	NO
12455-90	FINAL RODENTICIDE	0.16	0.02	2	Brodifacoum	3	NO	NO
100-1051	TALON-G RODENTICIDE BAIT PACK PELLETS WITH BITREX	0.00	3.31	2	Brodifacoum	3	NO	NO
7173-190	ROZOL PARAFFIN BLOCKS	0.00	0.75	2	Chlorophacinone	3	NO	NO
7173-113	INTER ROZOL TRACKING POWDER	0.00	0.00	2	Chlorophacinone	2	NO	NO
12455-89	JAGUAR BAIT CHUNX	0.14	0.00	1	Brodifacoum	3	NO	NO
12455-76	BLACK LEAF BLITZ READY-TO-USE PLACE PAC	0.07	0.00	1	Bromadiolone	3	NO	NO
7173-189	MAKI PARAFFIN BLOCKS	0.04	0.00	1	Bromadiolone	3	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	0.72	1	Brodifacoum	3	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	0.50	1	Bromadiolone	3	NO	NO
12455-80	ALL-WEATHER DI-BLOX	0.00	0.25	1	Diphacinone	3	NO	NO
7173-211	D-CEASE RAT AND MOUSE BAIT	0.00	0.09	1	Difethialone	3	NO	NO
12455-17	ZP AG PELLETS	0.00	0.06	1	Zinc phosphide	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
67517-66	JTEATON BROMETHALIN ALL WEATHER BAIT BLOCKS RODENTICIDE	0.00	0.01	1	Bromethalin	3	NO	NO
<b>Insecticides</b>								
432-763	SUSPEND SC INSECTICIDE	665.20	1.26	32,856	Deltamethrin	3	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	115.80	4.61	9,087	Cyfluthrin	3	NO	NO
397-13	STERI-FAB	724.90	432.97	7,071	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	6.19	232.63	4,497	Indoxacarb	3	NO	NO
64405-2	REDZONE BAIT	0.44	845.77	4,189	Boric acid	3	NO	NO
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	108.61	2,613	Fipronil	3	YES	NO
73049-429	VECTOMAX FG	0.00	960.67	2,282	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1363	TEMPO SC INSECTICIDE	439.69	17.00	2,063	Cyfluthrin, beta	3	NO	NO
432-1259	PRODUCT: RBF5	0.00	65.05	1,670	Fipronil	3	YES	NO
432-1257	MAXFORCE ROACH BAIT F.05	0.58	63.70	1,459	Fipronil	3	YES	NO
432-763	SUSPEND SC	49.62	0.69	937	Deltamethrin	3	NO	NO
499-507	TC 248	20.02	33.86	831	Dinotefuran	3	NO	NO
67425-14	ECOPCO ACU	26.60	7.81	718	Phenylethyl propionate	3	NO	NO
2724-484	RF 9707 AEROSOL	32.79	1.33	693	(7S)-Hydroprene	3	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.38	12.89	635	Disodium octaborate tetrahydrate	3	NO	NO
279-3384	ROACH KIL COMMERCIAL	0.00	199.68	615	Boric acid	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.12	29,353.24	517	Bacillus sphaericus	3	NO	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	18.71	440	Avermectin	3	NO	NO
499-467	WHITMIRE AVERT TC 181	0.00	24.83	288	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
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.02	15.04	248	Avermectin	3	NO	NO
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	14,102.56	232	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
432-1483	TEMPRID SC INSECTICIDE	129.58	0.00	214	Cyfluthrin, beta; Imidacloprid	3	NO	NO
10807-455	BORID BARRIER WITH BORIC ACID	0.00	56.12	186	Boric acid	3	NO	NO
100-1066	DEMAND CS INSECTICIDE	82.99	29.05	166	Cyhalothrin, lambda	3	NO	NO
432-772	DELTA DUST	0.00	13.76	138	Deltamethrin	3	NO	NO
432-1304	TEMPO 10 WP INSECTICIDE	104.51	1.32	132	Cyfluthrin, beta	3	NO	NO
1021-1641	SPECKOZ EVERCIDE ESFENVALERATE EC	0.13	3.32	128	Esfenvalerate	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	3.65	128	Fipronil	3	YES	NO
1021-1828	MGK ROACH BAIT 2822	0.00	1.76	121	Avermectin	3	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	7.20	118	Indoxacarb	3	NO	NO
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	191.44	104	Boric acid	3	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.63	0.00	83	Esfenvalerate	3	NO	NO
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	140.00	70	S-Methoprene	3	NO	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.66	8.68	67	Hydramethylnon	3	YES	YES
1021-1688	ANVIL 10+10 ULV	0.00	2,163.42	66	Phenothrin; Piperonyl butoxide	3	YES	NO
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	2.36	0.00	63	Boric acid	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.06	5.12	48	Boric acid	3	NO	NO
1677-191	ECO2000-GR	0.00	18.98	42	Boric acid	3	NO	NO
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.75	1.57	37	Hydramethylnon	3	YES	YES
1021-1603	NYLAR 10EC	27.38	0.00	33	Pyriproxyfen	3	NO	NO
48813-1	SUFFOIL-X	16.47	0.00	30	Petroleum distillates	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	7.66	0.00	29	D-trans Allethrin; Phenothrin	3	YES	NO
432-1262	MAXFORCE IBH10	0.00	62.48	27	Hydramethylnon	3	YES	YES
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	2.63	0.00	25	Deltamethrin	3	NO	NO



EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
9688-190	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	1.61	0.00	25	Cyhalothrin, lambda; Prallethrin	3	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.23	25	Indoxacarb	3	NO	NO
100-896	AVID 0.15 EC MITICIDE/INSECTICIDE	1.30	0.00	23	Avermectin	2	NO	NO
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.45	0.42	18	Fipronil	3	YES	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.96	0.00	17	Potassium laurate	2	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.03	27.89	17	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
42750-153	BENEFIT 60 WP	0.00	4.19	17	Imidacloprid	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	1.24	0.00	16	Pyriproxyfen	3	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.87	0.00	16	Acetamiprid	3	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	17.50	0.00	15	Indoxacarb	3	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	3.43	0.00	15	Cyhalothrin, lambda	3	NO	NO
70051-2	TRIACT 70	3.13	0.00	15	Neem oil	3	NO	NO
400-508	FLORAMITE SC	0.13	0.00	15	Bifenazate	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	1.10	14	Cyfluthrin	3	NO	NO
279-3385	DRAX ANT KILL GEL	0.47	0.69	13	Boric acid	3	NO	NO
432-1369	MAJESTY	0.03	0.00	13	Imidacloprid	3	NO	NO
53871-3	STIMUKIL FLY BAIT	0.00	45.13	13	(Z)-9-Tricosene; Methomyl	3	NO	NO
100-1489	DUPONT ACELEPRYN INSECTICIDE	3.84	0.00	12	DPX-E2Y45	0	NO	NO
74779-9	RTSA HORTICULTURAL OIL	3.03	0.00	11	Mineral oil	3	NO	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.37	0.00	11	(S)-Kinoprene	2	NO	NO
432-1471	KONTOS	0.34	0.00	11	Spirotetramat	3	NO	NO
241-313	SIEGE PBS GEL INSECTICIDE	0.00	3.44	11	Hydramethylnon	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
1021-2569	MULTICIDE SPRAY 29511	1.46	0.00	10	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.19	0.00	10	Spinosad	3	NO	NO
86330-11	SUNSPRAY 6E PLUS	3.20	0.00	9	Mineral oil	3	NO	NO
432-1318	MERIT 75 WSP	0.00	58.70	9	Imidacloprid	3	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	1.73	0.00	8	Mineral oil	3	NO	NO
66222-40	PEDESTAL	0.14	0.00	8	Novaluron	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.08	0.00	7	Azadirachtin	3	NO	NO
66222-199	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	27.15	7	Imidacloprid	3	NO	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	21.00	7	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.25	7	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	0.39	7	Flonicamid	3	NO	NO
67760-99	PROAXIS EX	2.38	15.00	6	Cyhalothrin, gamma	3	NO	NO
432-1464	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	40.50	300.00	5	Trichlorfon	3	YES	NO
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	10.00	0.00	5	Chlorpyrifos	2	NO	NO
8033-96	TRANSPORT (R) GHP INSECTICIDE	2.25	0.00	5	Acetamiprid; Bifenthrin	3	YES	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICID E	1.38	0.00	5	Bifenthrin	3	YES	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.35	0.00	5	Pyrethrins	3	YES	NO
432-836	DELTAGARD G INSECTICIDE GRANULE	0.00	12.00	5	Deltamethrin	3	NO	NO
228-588	MALLET 75 WP	0.00	8.90	5	Imidacloprid	3	NO	NO
655-802	PRENTOX LARVA-LUR CONTAINS PROPOXUR	0.00	3.75	5	Propoxur	3	YES	NO
149-8	TERRO ANT KILLER II	0.00	1.38	5	Borax	3	NO	NO
19713-123	DAMOIL DORMANT & SUMMER SPRAY OIL	17.00	0.00	4	Kerosene	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
432-1312	MERIT 2F INSECTICIDE	3.50	0.00	4	Imidacloprid	3	NO	NO
432-1318	LESCO SYSTEMIC INSECTICIDE CONTAINS MERIT IN WATER SOLUBLE PACKETS	0.00	14.20	4	Imidacloprid	3	NO	NO
100-1487	PROVAUNT	0.00	12.50	4	Indoxacarb	3	NO	NO
70506-24	UP-STAR GOLD INSECTICIDE	10.48	0.00	3	Bifenthrin	3	YES	NO
5905-368	OMNI SUPREME SPRAY	8.50	0.00	3	Mineral oil	3	NO	NO
432-1331	PREMISE 2 INSECTICIDE	5.00	0.00	3	Imidacloprid	3	NO	NO
2724-786	RF2050 SPRAY	0.22	0.00	3	Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO
1021-1773	ZPRO ZYY IMPACT RESIDUAL AEROSOL	0.14	0.00	3	Esfenvalerate	3	NO	NO
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.03	0.00	3	Avermectin	3	NO	NO
100-1260	OPTIGARD ANT GEL BAIT	0.02	0.00	3	Thiamethoxam	3	YES	NO
499-444	WHITMIRE MICRO- GEN TC 164	0.00	0.00	3	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-1252	MAXFORCE PROFESSIONAL INSECT CONTROL ANT KILLER BA	0.00	0.15	3	Hydramethylnon	3	YES	YES
499-496	TC 234	0.00	0.04	3	Avermectin	3	NO	NO
5481-520	WISDOM (R) TC FLOWABLE	185.00	0.00	2	Bifenthrin	3	YES	NO
42750-115	XYTECT 2F INSECTICIDE	1.78	0.00	2	Imidacloprid	3	NO	NO
279-3401	LESCO WASP & HORNET PLUS	1.72	0.00	2	Tetramethrin; Permethrin; Piperonyl butoxide	3	YES	NO
432-1452	TEMPO ULTRA GC INSECTICIDE	1.67	0.00	2	Cyfluthrin, beta	3	NO	NO
499-531	TC 267	0.12	0.00	2	Dinotefuran	3	NO	NO
499-515	TC 273	0.05	0.00	2	Boric acid	3	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.05	0.00	2	Pyrethrins; Piperonyl butoxide	3	YES	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.03	2.00	2	Phenothrin; N- octyl bicycloheptene dicarboximide	3	YES	NO
62719-314	MONTEREY GARDEN INSECT SPRAY	0.00	0.00	2	Spinosad	3	NO	NO
538-306	GRUBEX III	0.00	846.70	2	DPX-E2Y45	0	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	300.00	2	Chlorpyrifos	3	NO	NO
62719-608	Recruit HD	0.00	24.47	2	Noviflumuron	0	NO	NO
432-1457	MERIT FXT TABLET INSECTICIDE	0.00	1.39	2	Imidacloprid	3	NO	NO
81880-5	SANMITE MITICIDE/INSECTICIDE	0.00	0.44	2	Pyridaben	2	NO	NO
432-992	DRIONE INSECTICIDE	0.00	0.38	2	Pyrethrins; Piperonyl butoxide; Silica gel	3	YES	NO
47000-73	SSI-50 INSECTICIDE	0.00	0.32	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
100-1481	DUPONT ADVION FIRE ANT BAIT	0.00	0.10	2	Indoxacarb	3	NO	NO
9444-131	VICTOR LIQUID ANT KILLING SYSTEM	0.00	0.03	2	Boric acid	3	NO	NO
4-408	BONIDE EIGHT INSECT CONTROL CONCENTRATE	4.00	0.00	1	Permethrin	3	YES	NO
9688-255	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	3.00	0.00	1	Deltamethrin; S-Bioallethrin	3	YES	NO
66222-192	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	3.00	0.00	1	Bifenthrin	3	YES	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	2.50	0.00	1	Carbaryl	3	YES	NO
42750-115	IMIDIPO SYSTEMIC INSECTICIDE	1.25	0.00	1	Imidacloprid	3	NO	NO
53883-229	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	1.25	0.00	1	Imidacloprid	3	NO	NO
66222-19	QUALI-PRO CHLOPYRIFOS 4E	1.00	0.00	1	Chlorpyrifos	2	NO	NO
1677-43	STER-BAC	1.00	0.00	1	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.44	0.00	1	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO
70051-6	SAFER BRAND JAPANESE BEETLE REPELLENT FOR ROSES & FLOWERS CONCENTRATE	0.07	0.00	1	Azadirachtin	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.07	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
499-452	ULD BP-100 INSECTICIDE	0.06	0.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
66222-210	QUALI-PRO ABAMECTIN 0.15 EC	0.02	0.00	1	Avermectin	2	NO	NO
73766-1	ADIOS ANT KILLER GEL	0.01	0.00	1	Disodium octaborate tetrahydrate	3	NO	NO
8033-109	TRANSPORT (R) MIKRON INSECTICIDE	0.01	0.00	1	Acetamiprid; Bifenthrin	3	YES	NO
655-489	PRENTOX PYRONYL CROP SPRAY	0.01	0.00	1	Pyrethrins; Piperonyl butoxide	3	YES	NO
499-470	WHITMIRE MICRO- GEN TC 198	0.01	0.00	1	Cyfluthrin	3	NO	NO
432-1329	MARATHON 1% GRANULAR GREENHOUSE AND NURSERY INSECTICIDE	0.01	0.00	1	Imidacloprid	3	NO	NO
1021-1641	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	1	Esfenvalerate	3	NO	NO
53883-92	CYPER TC INSECTICIDE	0.00	0.00	1	Cypermethrin, beta	2	YES	NO
73748-7	BIFENTHRIN 7.9 TERMITICIDE/INSECTI CIDE	0.00	0.00	1	Bifenthrin	3	YES	NO
499-470	JOHNSON WAX PROFESSIONAL BRAND RESIDUAL INSECTICIDE CRAWLING INSECT	0.00	0.00	1	Cyfluthrin	3	NO	NO
432-1399	MERIT 2.5 PR	0.00	300.00	1	Imidacloprid	3	NO	NO
432-1308	DYLOX 6.2 GRANULAR INSECTICIDE	0.00	150.00	1	Trichlorfon	3	YES	NO
432-1289	DYLOX 80 TURF AND ORNAMENTAL INSECTICIDE	0.00	10.00	1	Trichlorfon	2	YES	NO
432-1338	TEMPO 20 WP GOLF COURSE INSECTICIDE	0.00	1.94	1	Cyfluthrin	3	NO	NO
5481-338	ALCO SMALL NO- PEST STRIP	0.00	0.38	1	DDVP	3	YES	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.38	1	Avermectin	3	NO	NO
67425-14	ECOPCO ACU CONTACT INSECTICIDE	0.00	0.19	1	Phenylethyl propionate	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
499-290	WHITMIRE PT 565 WB PYRETHRUM INSECT FOGGER	0.00	0.19	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
64405-2	LEGS UP! INDOOR GRANULAR BAIT	0.00	0.19	1	Boric acid	3	NO	NO
499-527	TC 249	0.00	0.13	1	Dinotefuran; Diatomaceous earth	3	NO	NO
499-509	WHITMIRE DE 1606	0.00	0.13	1	Diatomaceous earth	3	NO	NO
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.08	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.07	1	Indoxacarb	3	NO	NO
9444-131	BAYER ADVANCED ANT KILLER POWER PEN READYTO-USE BAIT	0.00	0.07	1	Boric acid	3	NO	NO
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.04	1	Hydramethylnon	3	YES	YES
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.02	1	Fipronil	3	YES	NO
73079-1	INTICE SWEET ANT GEL	0.00	0.00	1	Boric acid	3	NO	NO
73079-9	INTICE SMART ANT GEL	0.00	0.00	1	Borax	3	NO	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	114.23	5.88	715	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	337.95	37.31	626	Glyphosate, isopropylamine salt	3	NO	NO
62719-556	ACCORD XRT II	917.63	0.00	565	Glyphosate, dimethylammonium salt	3	NO	NO
62719-527	GARLON 4 ULTRA	469.90	0.00	338	Triclopyr	2	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	79.02	0.00	248	Dicamba, diglycolamine salt	3	NO	NO
352-622	DUPONT OUST EXTRA HERBICIDE	0.00	38.96	243	Sulfometuron methyl; Metsulfuron-methyl	3	NO	NO
62719-176	PATHFINDER II	94.20	0.00	159	Triclopyr, butoxyethyl ester	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	835.38	0.00	157	Pendimethalin	3	YES	NO
62719-324	GLYPRO	61.29	0.00	105	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	78.00	0.00	68	Trinexapac-ethyl	3	NO	NO
62719-40	GARLON 4	17.79	0.00	64	Triclopyr, butoxyethyl ester	3	NO	NO
241-391	PENDULUM 3.3 HERBICIDE	5.25	0.00	64	Pendimethalin	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
72112-4	GLYPHOSATE PRO 4TM	4.76	0.00	41	Glyphosate, isopropylamine salt	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.62	1.25	29	Fenoxaprop-P (+)	3	NO	NO
71995-25	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	16.18	0.00	26	Glyphosate, isopropylamine salt	3	NO	NO
62719-542	DIMENSION 2EW	48.04	0.00	23	Dithiopyr	2	NO	NO
524-517	ACCORD XL HERBICIDE	8.09	0.00	20	Glyphosate, isopropylamine salt	3	NO	NO
81927-9	GLYPHOSATE 4 PLUS	98.88	0.00	18	Glyphosate, isopropylamine salt	3	NO	NO
228-366	RAZOR HERBICIDE	4.29	0.00	16	Glyphosate, isopropylamine salt	3	NO	NO
241-341	LESCO PRE-M 3.3EC	5.44	0.00	15	Pendimethalin	3	YES	NO
62719-258	TURFLON ESTER	3.57	0.00	14	Triclopyr, butoxyethyl ester	3	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	2.39	0.00	14	Clopyralid	3	NO	NO
51036-289	STERLING	11.08	0.00	11	Dicamba, dimethylamine salt	2	NO	NO
66222-212	QUALI-PRO T-NEX 1 AQ	23.63	0.00	9	Trinexapac-ethyl	3	NO	NO
524-454	ROUNDUP ORIGINAL II HERBICIDE	2.54	0.00	8	Glyphosate, isopropylamine salt	2	NO	NO
10404-82	LESCO PRE-M 1.31% PLUS FERTILIZER	2.50	0.00	7	Pendimethalin	3	YES	NO
100-1267	TENACITY	0.40	0.00	7	Mesotrione	3	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	51.25	7	Dithiopyr	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	28.10	0.00	6	Ethephon	1	NO	NO
66330-276	DICAMBA DMA 4# AG	3.45	0.00	6	Dicamba, dimethylamine salt	2	NO	NO
524-343	ROUNDUP CUSTOM HERBICIDE	2.25	0.00	6	Glyphosate, isopropylamine salt	3	NO	NO
54705-8	FLOREL BRAND GROWTH REGULATOR	0.02	0.00	6	Ethephon	3	NO	NO
241-360	PRE-M 3.3 EC TURF HERBICIDE	7.34	0.00	5	Pendimethalin	3	YES	NO
10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	5.81	0.00	4	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine 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
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	3.25	0.00	4	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
538-60	STARTER FERTILIZER WITH CRABGRASS PREVENTER	0.00	331.40	4	Siduron	3	NO	NO
228-702	NUFARM PROSEGE SELECTIVE HERBICIDE	0.00	0.64	4	Halosulfuron-methyl	3	NO	NO
66330-293	LESCO T-STORM FLOWABLE TURF & ORNAMENTAL FUNGICIDE	12.50	0.00	3	Thiophanate-methyl	3	YES	YES
2217-759	EMBARK 2-S PLANT GROWTH REGULATOR	5.35	0.00	3	Mefluidide, diethanolamine salt	3	NO	NO
42750-247	DUPONT KRENITE S BRUSH CONTROL AGENT	5.00	0.00	3	Fosamine, ammonium salt	3	NO	NO
66222-176	GLYPHOGAN PLUS HERBICIDE	1.50	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
1381-192	CORNERSTONE PLUS	0.80	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
62719-322	PROKOZ GLYPHOSATE PRO	0.36	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.31	57.31	3	Dithiopyr	3	NO	NO
62719-137	SPRING CRABGRASS CONTROL	0.00	4,000.00	3	Benfluralin; Trifluralin	3	YES	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	591.50	3	Bensulide; Oxadiazon	2	YES	YES
81880-1	GWN-3069 SEDGEHAMMER	0.00	0.00	3	Halosulfuron-methyl	3	NO	NO
264-267	PROXY	27.00	0.00	2	Ethephon	1	NO	NO
62719-92	CONFRONT	9.38	0.00	2	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	7.50	0.00	2	Pendimethalin	3	YES	NO
228-264	RIVERDALE TRIPLET SELECTIVE HERBICIDE	5.61	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; Mecoprop-P	1	YES	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	2.48	0.00	2	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecoprop-P	3	YES	NO
7969-137	STERLING BLUE HERBICIDE	1.16	0.00	2	Dicamba, diglycolamine salt	3	NO	NO



EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
62719-151	TURF FERTILIZER - CONTAINS TEAM 0.92%	0.23	0.00	2	Benfluralin; Trifluralin	2	YES	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.21	0.00	2	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO
10404-85	0.10% DIMENSION PLUS FERTILIZER	0.00	1,200.00	2	Dithiopyr	3	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	1,140.00	2	Dithiopyr	3	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	18.00	0.00	1	Bensulide	3	NO	NO
71995-33	ROUNDUP WEED & GRASS KILLER READY-TO-USE PLUS	0.94	0.00	1	Glyphosate, isopropylamine salt; Nonanoic acid	3	NO	NO
70506-259	GOLDWING	0.08	0.00	1	Trinexapac-ethyl	3	NO	NO
2217-794	ANDERSONS GOLF PRODUCTS TURF FERTILIZER 28-0-4 WIT	0.00	1,250.00	1	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
62719-483	GREEN YARD CRABGRASS PREVENTER WITH 0.125% DIMENSION	0.00	500.00	1	Dithiopyr	3	NO	NO
10163-213	GORDON'S PROFESSIONAL TURF & ORNAMENTAL PRODUCTS T	0.00	48.00	1	Siduron	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.01	1	Halosulfuron-methyl	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	340.91	5.00	70	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	304.75	0.00	51	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	149.69	42	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	129.58	0.00	41	Hydrogen peroxide	1	NO	NO
264-1155	RHAPSODY AS0	209.10	0.00	34	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	60.50	0.00	30	Propamocarb hydrochloride	3	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	70.57	1.00	29	Iprodione; Thiophanate-methyl	3	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	59.47	265.00	29	Propamocarb hydrochloride	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
432-890	ALLETTE WDG BRAND FUNGICIDE	0.00	1,034.00	27	Fosetyl-Al	3	NO	NO
68173-3	AFFIRM WDG	0.00	16.94	25	Polyoxin D zinc salt	3	NO	NO
66222-149	ARMOR TECH CLT 825	2.64	506.90	24	Chlorothalonil	2	YES	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	14.88	274.00	19	Triadimefon	3	YES	YES
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	782.00	17	Chlorothalonil	1	YES	NO
60063-3	LESCO MANICURE ULTRA	0.00	545.00	17	Chlorothalonil	2	YES	NO
432-1371	COMPASS	0.00	36.07	16	Trifloxystrobin	3	NO	NO
100-1326	BANNER MAXX II	26.27	0.00	13	Propiconazole	3	YES	NO
50534-209	MANICURE 6 FLOWABLE	151.95	0.00	12	Chlorothalonil	3	YES	NO
66222-41	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	14.25	0.00	12	Propiconazole	2	YES	NO
70644-1	EKSPUNGE	0.00	558.00	12	Phosphoric acid, monopotassium salt	3	NO	NO
50534-202	MANICURE ULTREX	0.00	1,247.00	11	Chlorothalonil	1	YES	NO
86064-2	ARMOR TECH CLT 720 FL	105.00	0.00	10	Chlorothalonil	2	YES	NO
7969-184	Insignia Fungicide	0.00	103.03	10	Pyraclostrobin	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	54.69	0.00	9	Propiconazole	2	YES	NO
400-521	TERRAGUARD SC	0.08	0.00	9	Triflumizole	3	NO	NO
58185-30	FUNGO 50 WSB WETTABLE POWDER TURF & ORNAMENTAL SYS	0.00	9.50	9	Thiophanate-methyl	3	YES	YES
228-684	NUFARM IPRODIONE SPC FUNGICIDE	55.50	0.00	8	Iprodione	3	YES	NO
100-796	SUBDUE MAXX	26.71	0.00	8	Mefenoxam	3	NO	NO
67702-2	CAMELOT O FUNGICIDE/BACTERICIDE	14.52	0.00	8	Copper octanoate	3	NO	NO
432-890	LESCO PRODIGY SIGNATURE	0.00	341.00	8	Fosetyl-Al	3	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	215.56	8	Triadimefon	3	YES	YES
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	134.50	8	Streptomyces lydicus WYEC 108	3	NO	NO
70870-1	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.02	0.97	7	Potassium bicarbonate	3	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	2,021.00	7	Chlorothalonil	1	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
7969-224	CURALAN EG	0.00	362.75	7	Vinclozolin	3	YES	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	56.16	0.00	6	Iprodione	3	YES	NO
100-1347	CONCERT II	50.00	0.00	6	Propiconazole	1	YES	NO
100-741	ALAMO FUNGICIDE	31.80	0.00	5	Propiconazole	2	YES	NO
100-641	BANNER FUNGICIDE	20.00	0.00	5	Propiconazole	2	YES	NO
432-1446	TARTAN FLO FUNGICIDE	9.75	0.00	5	Triadimefon; Trifloxystrobin	3	YES	YES
70506-185	PENNZOZEB 75 DF	5.00	376.45	5	Mancozeb	3	YES	NO
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	22.50	5	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
432-1486	RESERVE FUNGICIDE	56.40	0.00	4	Chlorothalonil; Triconazole	2	YES	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	20.00	0.00	4	Thiophanate-methyl	3	YES	YES
7969-255	HONOR FUNGICIDE	0.00	196.50	4	Nicobifen; Pyraclostrobin	3	YES	NO
432-1367	BAYLETON 50 WDG NURSERY AND GREENHOUSE SYSTEMIC FU	0.00	34.03	4	Triadimefon	3	YES	YES
62388-1	NOGALL	0.00	3.09	4	Agrobacterium radiobacter strain K1026	3	NO	NO
66222-161	QUALI-PRO FOSETYL -AL 80 WDG	0.00	2.83	4	Fosetyl-AI	3	NO	NO
66330-305	IPRODIONE 2SE TURF	35.00	0.00	3	Iprodione	3	YES	NO
67690-38	PENTATHLON LF	30.00	0.00	3	Mancozeb	3	YES	NO
1001-87	TORQUE FUNGICIDE	12.83	0.00	3	Tebuconazole	3	YES	NO
69361-27	TEBUCONAZOLE 3.6F FUNGICIDE	5.50	0.00	3	Tebuconazole	3	YES	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	1.88	3.81	3	Pyraclostrobin	2	NO	NO
71512-13	SEGWAY FUNGICIDE	1.23	0.00	3	Cyazofamid	3	NO	NO
9198-111	THE ANDERSONS 1.0% BAYLETON(R) FUNGICIDE	0.00	540.00	3	Triadimefon	3	YES	YES
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	99.00	3	Polyoxin D zinc salt	3	NO	NO
66330-56	ENDORSE WATER DISPERSIBLE GRANULES	0.00	41.20	3	Polyoxin D zinc salt	3	NO	NO
432-1223	PROSTAR 70 WP	0.00	2.44	3	Flutolanil	3	NO	NO
60063-7	LESCO MANICRUE 6FL	14.00	0.00	2	Chlorothalonil	2	YES	NO
66222-134	THIOPHANATE METHYL 4.5 F	12.00	0.00	2	Thiophanate-methyl	3	YES	YES
66222-214	QUALI-PRO IPRO 2SE	10.00	0.00	2	Iprodione	3	YES	NO
66222-154	EQUUS 720 SST	10.00	0.00	2	Chlorothalonil	2	YES	NO
50534-211	DACONIL ZN FLOWABLE FUNGICIDE	7.85	0.00	2	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
66222-154	QUALI-PRO CHLOROTHALONIL 720 SFT	6.75	0.00	2	Chlorothalonil	2	YES	NO
100-1216	BANNER HERITAGE MAXX	5.27	0.00	2	Azoxystrobin; Propiconazole	3	YES	NO
100-1191	HERITAGE MAXX	3.25	0.00	2	Azoxystrobin	3	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	1.05	0.00	2	Thiabendazole	3	NO	NO
62719-463	EAGLE 20EW	0.02	0.00	2	Myclobutanil	3	NO	YES
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.02	0.00	2	Fenarimol	3	NO	NO
70506-234	MANZATE PRO-STICK FUNGICIDE	0.00	81.00	2	Mancozeb	3	YES	NO
100-769	MEDALLION FUNGICIDE	0.00	3.00	2	Fludioxonil	3	NO	NO
5481-8992	TURFCIDE 4F	43.00	0.00	1	PCNB	3	YES	NO
464-693	CHEMICAR 15	15.00	0.00	1	Glutaraldehyde	1	NO	NO
66330-305	LESCO 18 PLUS	10.00	0.00	1	Iprodione	3	YES	NO
73545-13	TOPSIN 4.5FL	9.00	0.00	1	Thiophanate-methyl	3	YES	YES
66222-41	QUALI-PRO PROPICONAZOLE 14.3	8.25	0.00	1	Propiconazole	2	YES	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	8.00	0.00	1	Thiophanate-methyl	3	YES	YES
432-889	CHIPCO 26019 FUNGICIDE	5.10	0.00	1	Iprodione	3	YES	NO
100-1231	INSTRATA	5.00	0.00	1	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO
1001-78	3336 PLUS SYSTEMIC FUNGICIDE	5.00	0.00	1	Thiophanate-methyl	2	YES	YES
66222-216	QUALI-PRO MEFENOXAM 2AQ	0.69	0.00	1	Mefenoxam	2	NO	NO
1001-70	3336 G	0.00	300.00	1	Thiophanate-methyl	3	YES	YES
100-794	ANDERSONS GOLF PRODUCTS PYTHIUM CONTROL WITH MEFEN	0.00	160.00	1	Mefenoxam	3	NO	NO
9198-210	ANDERSONS GOLF PRODUCTS FUNGICIDE X	0.00	40.00	1	Iprodione	3	YES	NO
62719-388	FORE 80WP RAINSHIELD	0.00	22.00	1	Mancozeb	3	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	0.00	16.00	1	Terrazole	3	YES	NO
67690-37	CUPRO 2005 T/N/O	0.00	0.10	1	Copper hydroxide	1	NO	NO
<b>Other (Repellents, Biochemical Pesticides, Etc.)</b>								
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	12.48	0.69	1416	(7S)-Hydroprene	3	NO	NO
2724-351	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	0.34	0.00	24	(7S)-Hydroprene	3	NO	NO
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	29.00	0.00	23	Copper oxide (ous)	2	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	5.66	8	Metaldehyde	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0.39	0.00	3	Paclobutrazol	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	3	Gibberellins	2	NO	NO
2217-768	EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.00	0.00	2	Capsicum oleoresin	3	NO	NO
59807-4	HORMODIN 1	0.00	0.09	2	IBA	3	NO	NO
1448-212	CHEMICIDE 100-15	15.00	0.00	1	Poly(oxyethylene ) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0.00	0.50	1	Fox urine	3	NO	NO
73049-67	DITERA DF BIOLOGICAL NEMATICIDE	0.00	0.04	1	Myrothecium verrucaria, dried fermentation solids & solubles	3	NO	NO

## APPENDIX 2: Complete Listing of Pesticide Products Used by the Department of Parks and Recreation in 2012

### Pesticide Products Used by DPR in 2012 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>								
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	394.19	490	Bromadiolone	3	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	115.40	300	Difethialone	3	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	129.19	192	Bromadiolone	3	NO	NO
12455-17	ZP RODENT BAIT AG	0.00	9.06	88	Zinc phosphide	3	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	25.88	59	Bromadiolone	3	NO	NO
12455-39	QUINTOX RAT AND MOUSE BAIT	0.00	17.28	49	Cholecalciferol	3	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	12.53	42	Bromadiolone	3	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	0.14	26	Brodifacoum	3	NO	NO
47629-16	DIFENACOU RAT AND MOUSE BLOCK	0.00	37.06	15	Difenacoum	3	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.05	13	Bromadiolone	3	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	3.63	10	Diphacinone	2	NO	NO
12455-97	FASTRAC PLACE PACS	0.00	0.93	8	Bromethalin	3	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	0.44	5	Difethialone	3	NO	NO
67517-72	ASSAULT MOUSE/RAT PLACE PACK	0.00	0.01	5	Bromethalin	3	NO	NO
100-1051	TALON-G RODENTICIDE BAIT PACK PELLETS WITH BITREX	0.00	3.31	2	Brodifacoum	3	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	2.50	2	Bromadiolone	3	NO	NO
7173-190	ROZOL PARAFFIN BLOCKS	0.00	0.75	2	Chlorophacinone	3	NO	NO
7173-189	MAKI PARAFFIN BLOCKS	0.04	0.00	1	Bromadiolone	3	NO	NO
12455-17	ZP AG PELLETS	0.00	0.06	1	Zinc phosphide	3	NO	NO
67517-66	JTEATON BROMETHALIN ALL WEATHER BAIT BLOCKS RODENTICIDE	0.00	0.01	1	Bromethalin	3	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	0.00	1	Bromadiolone	3	NO	NO
<b>Insecticides</b>								
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.95	53	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	1.92	33	Fipronil	3	YES	NO
48813-1	SUFFOIL-X	16.47	0.00	30	Petroleum distillates	3	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	7.66	0.00	28	D-trans Allethrin; Phenothrin	3	YES	NO
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.00	7.96	26	Hydramethylnon	3	YES	YES
100-896	AVID 0.15 EC MITICIDE/INSECTICID E	1.30	0.00	23	Avermectin	2	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGIC IDE	0.96	0.00	17	Potassium laurate	2	NO	NO
42750-153	BENEFIT 60 WP	0.00	4.19	17	Imidacloprid	3	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	1.24	0.00	16	Pyriproxyfen	3	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.87	0.00	16	Acetamiprid	3	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	3.43	0.00	15	Cyhalothrin, lambda	3	NO	NO
70051-2	TRIACT 70	3.13	0.00	15	Neem oil	3	NO	NO
400-508	FLORAMITE SC	0.13	0.00	15	Bifenazate	3	NO	NO
432-1402	DECATHLON 20 WP GREENHOUSE AND NURSERY INSECTICIDE	0.00	1.10	14	Cyfluthrin	3	NO	NO
432-1369	MAJESTY	0.03	0.00	13	Imidacloprid	3	NO	NO
100-1489	DUPONT ACELEPRYN INSECTICIDE	3.84	0.00	12	DPX-E2Y45	0	NO	NO
74779-9	RTSA HORTICULTURAL OIL	3.03	0.00	11	Mineral oil	3	NO	NO
2724-476	ENSTAR II INSECT GROWTH REGULATOR (ENSTAR 5E)	0.37	0.00	11	(S)-Kinoprene	2	NO	NO
432-1471	KONTOS	0.34	0.00	11	Spirotetramat	3	NO	NO
64405-2	REDZONE BAIT	0.00	7.13	11	Boric acid	3	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.19	0.00	10	Spinosad	3	NO	NO
86330-11	SUNSPRAY 6E PLUS	3.20	0.00	9	Mineral oil	3	NO	NO
432-1318	MERIT 75 WSP	0.00	58.70	9	Imidacloprid	3	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	1.73	0.00	8	Mineral oil	3	NO	NO
66222-40	PEDESTAL	0.14	0.00	8	Novaluron	3	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	187.00	8	Bacillus sphaericus	3	NO	NO
70051-27	AZANTIN XL BIOLOGICAL INSECTICIDE	0.08	0.00	7	Azadirachtin	3	NO	NO
66222-199	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	27.15	7	Imidacloprid	3	NO	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	21.00	7	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	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
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.25	7	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO
279-3287	FLONICAMID 50SG INSECTICIDE	0.00	0.39	7	Flonicamid	3	NO	NO
67760-99	PROAXIS EX	2.38	15.00	6	Cyhalothrin, gamma	3	NO	NO
432-1464	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	40.50	300.00	5	Trichlorfon	3	YES	NO
228-624	NUFARM CHLORPYRIFOS SPC 4 INSECTICIDE	10.00	0.00	5	Chlorpyrifos	2	NO	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICID E	1.38	0.00	5	Bifenthrin	3	YES	NO
1021-1771	PYGANIC CROP PROTECTION EC 1.4 II	0.35	0.00	5	Pyrethrins	3	YES	NO
228-588	MALLET 75 WP	0.00	8.90	5	Imidacloprid	3	NO	NO
19713-123	DAMOIL DORMANT & SUMMER SPRAY OIL	17.00	0.00	4	Kerosene	3	NO	NO
432-1312	MERIT 2F INSECTICIDE	3.50	0.00	4	Imidacloprid	3	NO	NO
432-1318	LESCO SYSTEMIC INSECTICIDE CONTAINS MERIT IN WATER SOLUBLE PACKETS	0.00	14.20	4	Imidacloprid	3	NO	NO
100-1487	PROVAUNT	0.00	12.50	4	Indoxacarb	3	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.19	4	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO
70506-24	UP-STAR GOLD INSECTICIDE	10.48	0.00	3	Bifenthrin	3	YES	NO
5905-368	OMNI SUPREME SPRAY	8.50	0.00	3	Mineral oil	3	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.65	3	Boric acid	3	NO	NO
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.13	3	Fipronil	3	YES	NO
499-496	TC 234	0.00	0.04	3	Avermectin	3	NO	NO
42750-115	XYTECT 2F INSECTICIDE	1.78	0.00	2	Imidacloprid	3	NO	NO
432-1452	TEMPO ULTRA GC INSECTICIDE	1.67	0.00	2	Cyfluthrin, beta	3	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.05	0.00	2	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-1363	TEMPO SC INSECTICIDE	0.00	0.00	2	Cyfluthrin, beta	3	NO	NO
538-306	GRUBEX III	0.00	846.70	2	DPX-E2Y45	0	NO	NO
9198-167	ANDERSONS GOLF PRODUCTS INSECTICIDE III	0.00	300.00	2	Chlorpyrifos	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
432-1457	MERIT FXT TABLET INSECTICIDE	0.00	1.39	2	Imidacloprid	3	NO	NO
81880-5	SANMITE MITICIDE/INSECTICIDE	0.00	0.44	2	Pyridaben	2	NO	NO
4-408	BONIDE EIGHT INSECT CONTROL CONCENTRATE	4.00	0.00	1	Permethrin	3	YES	NO
66222-192	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	3.00	0.00	1	Bifenthrin	3	YES	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	2.50	0.00	1	Carbaryl	3	YES	NO
42750-115	IMIDIPRO SYSTEMIC INSECTICIDE	1.25	0.00	1	Imidacloprid	3	NO	NO
53883-229	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	1.25	0.00	1	Imidacloprid	3	NO	NO
66222-19	QUALI-PRO CHLORPYRIFOS 4E	1.00	0.00	1	Chlorpyrifos	2	NO	NO
100-1066	DEMAND CS INSECTICIDE	1.00	0.00	1	Cyhalothrin, lambda	3	NO	NO
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.44	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.07	0.00	1	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO
70051-6	SAFER BRAND JAPANESE BEETLE REPELLENT FOR ROSES & FLOWERS CONCENTRATE	0.07	0.00	1	Azadirachtin	3	NO	NO
499-452	ULD BP-100 INSECTICIDE	0.06	0.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO
66222-210	QUALI-PRO ABAMECTIN 0.15 EC	0.02	0.00	1	Avermectin	2	NO	NO
655-489	PRENTOX PYRONYL CROP SPRAY	0.01	0.00	1	Pyrethrins; Piperonyl butoxide	3	YES	NO
432-763	SUSPEND SC	0.00	0.00	1	Deltamethrin	3	NO	NO
432-1399	MERIT 2.5 PR	0.00	300.00	1	Imidacloprid	3	NO	NO
432-1308	DYLOX 6.2 GRANULAR INSECTICIDE	0.00	150.00	1	Trichlorfon	3	YES	NO
432-1289	DYLOX 80 TURF AND ORNAMENTAL INSECTICIDE	0.00	10.00	1	Trichlorfon	2	YES	NO
432-1338	TEMPO 20 WP GOLF COURSE INSECTICIDE	0.00	1.94	1	Cyfluthrin	3	NO	NO
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	0.01	1	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
73079-1	INTICE SWEET ANT GEL	0.00	0.00	1	Boric acid	3	NO	NO
73079-9	INTICE SMART ANT GEL	0.00	0.00	1	Borax	3	NO	NO
<b>Herbicides</b>								
524-579	ROUNDUP PROMAX	114.23	5.88	715	Glyphosate, potassium salt	3	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	320.33	37.31	605	Glyphosate, isopropylamine salt	3	NO	NO
62719-527	GARLON 4 ULTRA	469.71	0.00	337	Triclopyr	2	NO	NO
62719-556	ACCORD XRT II	796.07	0.00	311	Glyphosate, dimethylammonium salt	3	NO	NO
241-341	PENDULUM 3.3 EC HERBICIDE	835.38	0.00	157	Pendimethalin	3	YES	NO
62719-324	GLYPRO	61.29	0.00	105	Glyphosate, isopropylamine salt	3	NO	NO
100-937	PRIMO MAXX	78.00	0.00	68	Trinexapac-ethyl	3	NO	NO
62719-40	GARLON 4	17.79	0.00	64	Triclopyr, butoxyethyl ester	3	NO	NO
241-391	PENDULUM 3.3 HERBICIDE	5.25	0.00	64	Pendimethalin	3	YES	NO
72112-4	GLYPHOSATE PRO 4TM	4.76	0.00	41	Glyphosate, isopropylamine salt	3	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.62	1.25	29	Fenoxaprop-P (+)	3	NO	NO
71995-25	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	16.18	0.00	26	Glyphosate, isopropylamine salt	3	NO	NO
62719-542	DIMENSION 2EW	48.04	0.00	23	Dithiopyr	2	NO	NO
62719-176	PATHFINDER II	18.13	0.00	15	Triclopyr, butoxyethyl ester	3	NO	NO
241-341	LESCO PRE-M 3.3EC	5.44	0.00	15	Pendimethalin	3	YES	NO
524-517	ACCORD XL HERBICIDE	7.08	0.00	14	Glyphosate, isopropylamine salt	3	NO	NO
62719-258	TURFLON ESTER	3.57	0.00	14	Triclopyr, butoxyethyl ester	3	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	2.39	0.00	14	Clopyralid	3	NO	NO
51036-289	STERLING	11.08	0.00	11	Dicamba, dimethylamine salt	2	NO	NO
66222-212	QUALI-PRO T-NEX 1 AQ	23.63	0.00	9	Trinexapac-ethyl	3	NO	NO
10404-82	LESCO PRE-M 1.31% PLUS FERTILIZER	2.50	0.00	7	Pendimethalin	3	YES	NO
100-1267	TENACITY	0.40	0.00	7	Mesotrione	3	NO	NO
66222-213	QUALI-PRO DITHIOPYR 40 WSB	0.00	51.25	7	Dithiopyr	3	NO	NO
432-1230	PROXY GROWTH REGULATOR	28.10	0.00	6	Ethephon	1	NO	NO
66330-276	DICAMBA DMA 4# AG	3.45	0.00	6	Dicamba, dimethylamine salt	2	NO	NO
54705-8	FLOREL BRAND GROWTH REGULATOR	0.02	0.00	6	Ethephon	3	NO	NO
241-360	PRE-M 3.3 EC TURF HERBICIDE	7.34	0.00	5	Pendimethalin	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
10404-44	LESCO THREE-WAY BENTGRASS SELECTIVE HERBICIDE	5.81	0.00	4	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	3	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	3.25	0.00	4	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO
538-60	STARTER FERTILIZER WITH CRABGRASS PREVENTER	0.00	331.40	4	Siduron	3	NO	NO
228-702	NUFARM PROSEGE SELECTIVE HERBICIDE	0.00	0.64	4	Halosulfuron-methyl	3	NO	NO
66330-293	LESCO T-STORM FLOWABLE TURF & ORNAMENTAL FUNGICIDE	12.50	0.00	3	Thiophanate-methyl	3	YES	YES
2217-759	EMBAK 2-S PLANT GROWTH REGULATOR	5.35	0.00	3	Mefluidide, diethanolamine salt	3	NO	NO
66222-176	GLYPHOGAN PLUS HERBICIDE	1.50	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
62719-322	PROKOZ GLYPHOSATE PRO	0.36	0.00	3	Glyphosate, isopropylamine salt	3	NO	NO
62719-445	DIMENSION* ULTRA 40WP	0.31	57.31	3	Dithiopyr	3	NO	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	591.50	3	Bensulide; Oxadiazon	2	YES	YES
81880-1	GWN-3069 SEDGEHAMMER	0.00	0.00	3	Halosulfuron-methyl	3	NO	NO
264-267	PROXY	27.00	0.00	2	Ethephon	1	NO	NO
62719-92	CONFRONT	9.38	0.00	2	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO
241-360	LESCO PRE-M 3.3EC TURF HERBICIDE	7.50	0.00	2	Pendimethalin	3	YES	NO
228-264	RIVERDALE TRIPLET SELECTIVE HERBICIDE	5.61	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; Mecoprop-P	1	YES	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	2.48	0.00	2	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecoprop-P	3	YES	NO
7969-137	STERLING BLUE HERBICIDE	1.16	0.00	2	Dicamba, diglycolamine salt	3	NO	NO
62719-151	TURF FERTILIZER - CONTAINS TEAM 0.92%	0.23	0.00	2	Benfluralin; Trifluralin	2	YES	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.21	0.00	2	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin
10404-85	0.10% DIMENSION PLUS FERTILIZER	0.00	1200.00	2	Dithiopyr	3	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	1140.00	2	Dithiopyr	3	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	18.00	0.00	1	Bensulide	3	NO	NO
70506-259	GOLDWING	0.08	0.00	1	Trinexapac-ethyl	3	NO	NO
2217-794	ANDERSONS GOLF PRODUCTS TURF FERTILIZER 28-0-4 WIT	0.00	1250.00	1	2,4-D; Dicamba; Mecoprop-P	3	YES	NO
62719-483	GREEN YARD CRABGRASS PREVENTER WITH 0.125% DIMENSION	0.00	500.00	1	Dithiopyr	3	NO	NO
10163-213	GORDON'S PROFESSIONAL TURF & ORNAMENTAL PRODUCTS T	0.00	48.00	1	Siduron	3	NO	NO
81880-1	SEDGEHAMMER	0.00	0.01	1	Halosulfuron-methyl	3	NO	NO
<b>Fungicides</b>								
100-1364	DACONIL ACTION	340.91	5.00	70	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO
71065-3	COMPANION LIQUID BIOLOGICAL FUNGICIDE	304.75	0.00	51	Bacillus subtilis GBO3	3	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	149.69	42	Azoxystrobin	3	NO	NO
70299-1	ZEROTOL ALGAECIDE/FUNGICIDE	129.58	0.00	41	Hydrogen peroxide	1	NO	NO
264-1155	RHAPSODY AS0	209.10	0.00	34	QST 713 strain of dried Bacillus subtilis	3	NO	NO
432-942	BANOL TURF AND ORNAMENTAL FUNGICIDE	60.50	0.00	30	Propamocarb hydrochloride	3	NO	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	70.57	1.00	29	Iprodione; Thiophanate-methyl	3	YES	YES
55260-9	PROPLANT TURF AND ORNAMENTAL FUNGICIDE	59.47	265.00	29	Propamocarb hydrochloride	3	NO	NO
432-890	ALIETTE WDG BRAND FUNGICIDE	0.00	1034.00	27	Fosetyl-Al	3	NO	NO
68173-3	AFFIRM WDG	0.00	16.94	25	Polyoxin D zinc salt	3	NO	NO
66222-149	ARMOR TECH CLT 825	2.64	506.90	24	Chlorothalonil	2	YES	NO
70127-2	NOVOZYMES BIOFUNGICIDE GREEN RELEAF 710-140	101.00	0.00	22	Bacillus licheniformis SB3086; IBA	3	NO	NO
432-1445	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	14.88	274.00	19	Triadimefon	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
50534-202	MANICURE ULTREX TURF & ORNAMENTAL	0.00	782.00	17	Chlorothalonil	1	YES	NO
60063-3	LESCO MANICURE ULTRA	0.00	545.00	17	Chlorothalonil	2	YES	NO
432-1371	COMPASS	0.00	36.07	16	Trifloxystrobin	3	NO	NO
100-1326	BANNER MAXX II	26.27	0.00	13	Propiconazole	3	YES	NO
50534-209	MANICURE 6 FLOWABLE	151.95	0.00	12	Chlorothalonil	3	YES	NO
66222-41	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	14.25	0.00	12	Propiconazole	2	YES	NO
70644-1	EKSPUNGE	0.00	558.00	12	Phosphoric acid, monopotassium salt	3	NO	NO
50534-202	MANICURE ULTREX	0.00	1247.00	11	Chlorothalonil	1	YES	NO
86064-2	ARMOR TECH CLT 720 FL	105.00	0.00	10	Chlorothalonil	2	YES	NO
7969-184	Insignia Fungicide	0.00	103.03	10	Pyraclostrobin	3	NO	NO
66222-41	PRIMEERAONE PROPICONAZOLA 14.3	54.69	0.00	9	Propiconazole	2	YES	NO
400-521	TERRAGUARD SC	0.08	0.00	9	Triflumizole	3	NO	NO
58185-30	FUNGO 50 WSB WETTABLE POWDER TURF & ORNAMENTAL SYS	0.00	9.50	9	Thiophanate-methyl	3	YES	YES
228-684	NUFARM IPRODIONE SPC FUNGICIDE	55.50	0.00	8	Iprodione	3	YES	NO
100-796	SUBDUE MAXX	26.71	0.00	8	Mefenoxam	3	NO	NO
67702-2	CAMELOT O FUNGICIDE/BACTERICIDE	14.52	0.00	8	Copper octanoate	3	NO	NO
432-890	LESCO PRODIGY SIGNATURE	0.00	341.00	8	Fosetyl-Al	3	NO	NO
432-1360	BAYLETON 50 TURF AND ORNAMENTAL FUNGICIDE IN WATER	0.00	215.56	8	Triadimefon	3	YES	YES
73314-2	ACTINO-IRON BIOLOGICAL FUNGICIDE	0.00	134.50	8	Streptomyces lydicus WYEC 108	3	NO	NO
70870-1	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.02	0.97	7	Potassium bicarbonate	3	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	2021.00	7	Chlorothalonil	1	YES	NO
7969-224	CURALAN EG	0.00	362.75	7	Vinclozolin	3	YES	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	56.16	0.00	6	Iprodione	3	YES	NO
100-1347	CONCERT II	50.00	0.00	6	Propiconazole	1	YES	NO
100-741	ALAMO FUNGICIDE	31.80	0.00	5	Propiconazole	2	YES	NO
100-641	BANNER FUNGICIDE	20.00	0.00	5	Propiconazole	2	YES	NO
432-1446	TARTAN FLO FUNGICIDE	9.75	0.00	5	Triadimefon; Trifloxystrobin	3	YES	YES
70506-185	PENNCOZEB 75 DF	5.00	376.45	5	Mancozeb	3	YES	NO
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	22.50	5	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO
432-1486	RESERVE FUNGICIDE	56.40	0.00	4	Chlorothalonil; Triticonazole	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
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	20.00	0.00	4	Thiophanate-methyl	3	YES	YES
7969-255	HONOR FUNGICIDE	0.00	196.50	4	Nicobifen; Pyraclostrobin	3	YES	NO
432-1367	BAYLETON 50 WDG NURSERY AND GREENHOUSE SYSTEMIC FU	0.00	34.03	4	Triadimefon	3	YES	YES
62388-1	NOGALL	0.00	3.09	4	Agrobacterium radiobacter strain K1026	3	NO	NO
66222-161	QUALI-PRO FOSETYL -AL 80 WDG	0.00	2.83	4	Fosetyl-Al	3	NO	NO
66330-305	IPRODIONE 2SE TURF	35.00	0.00	3	Iprodione	3	YES	NO
67690-38	PENTATHLON LF	30.00	0.00	3	Mancozeb	3	YES	NO
1001-87	TORQUE FUNGICIDE	12.83	0.00	3	Tebuconazole	3	YES	NO
69361-27	TEBUCONAZOLE 3.6F FUNGICIDE	5.50	0.00	3	Tebuconazole	3	YES	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	1.88	3.81	3	Pyraclostrobin	2	NO	NO
71512-13	SEGWAY FUNGICIDE	1.23	0.00	3	Cyazofamid	3	NO	NO
9198-111	THE ANDERSONS 1.0% BAYLETON(R) FUNGICIDE	0.00	540.00	3	Triadimefon	3	YES	YES
66330-41	ENDORSE WETTABLE POWDER TURF FUNGICIDE	0.00	99.00	3	Polyoxin D zinc salt	3	NO	NO
66330-56	ENDORSE WATER DISPERSIBLE GRANULES	0.00	41.20	3	Polyoxin D zinc salt	3	NO	NO
432-1223	PROSTAR 70 WP	0.00	2.44	3	Flutolanil	3	NO	NO
60063-7	LESCO MANICRUE 6FL	14.00	0.00	2	Chlorothalonil	2	YES	NO
66222-134	THIOPHANATE METHYL 4.5 F	12.00	0.00	2	Thiophanate-methyl	3	YES	YES
66222-214	QUALI-PRO IPRO 2SE	10.00	0.00	2	Iprodione	3	YES	NO
66222-154	EQUUS 720 SST	10.00	0.00	2	Chlorothalonil	2	YES	NO
50534-211	DACONIL ZN FLOWABLE FUNGICIDE	7.85	0.00	2	Chlorothalonil	2	YES	NO
66222-154	QUALI-PRO CHLOROTHALONIL 720 SFT	6.75	0.00	2	Chlorothalonil	2	YES	NO
100-1216	BANNER HERITAGE MAXX	5.27	0.00	2	Azoxystrobin; Propiconazole	3	YES	NO
100-1191	HERITAGE MAXX	3.25	0.00	2	Azoxystrobin	3	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	1.05	0.00	2	Thiabendazole	3	NO	NO
62719-463	EAGLE 20EW	0.02	0.00	2	Myclobutanil	3	NO	YES
10163-274	RUBIGAN A.S. TURF AND ORNAMENTAL	0.02	0.00	2	Fenarimol	3	NO	NO
70506-234	MANZATE PRO-STICK FUNGICIDE	0.00	81.00	2	Mancozeb	3	YES	NO
100-769	MEDALLION FUNGICIDE	0.00	3.00	2	Fludioxonil	3	NO	NO
5481-8992	TURFCIDE 4F	43.00	0.00	1	PCNB	3	YES	NO
464-693	CHEMICAR 15	15.00	0.00	1	Glutaraldehyde	1	NO	NO
66330-305	LESCO 18 PLUS	10.00	0.00	1	Iprodione	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
73545-13	TOPSIN 4.5FL	9.00	0.00	1	Thiophanate-methyl	3	YES	YES
66222-41	QUALI-PRO PROPICONAZOLE 14.3	8.25	0.00	1	Propiconazole	2	YES	NO
228-630	NUFARM TM+IP SPC FUNGICIDE	8.00	0.00	1	Thiophanate-methyl	3	YES	YES
432-889	CHIPCO 26019 FUNGICIDE	5.10	0.00	1	Iprodione	3	YES	NO
1001-78	3336 PLUS SYSTEMIC FUNGICIDE	5.00	0.00	1	Thiophanate-methyl	2	YES	YES
100-1231	INSTRATA	5.00	0.00	1	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO
66222-216	QUALI-PRO MEFENOXAM 2AQ	0.69	0.00	1	Mefenoxam	2	NO	NO
1001-70	3336 G	0.00	300.00	1	Thiophanate-methyl	3	YES	YES
100-794	ANDERSONS GOLF PRODUCTS PYTHIUM CONTROL WITH MEFEN	0.00	160.00	1	Mefenoxam	3	NO	NO
9198-210	ANDERSONS GOLF PRODUCTS FUNGICIDE X	0.00	40.00	1	Iprodione	3	YES	NO
62719-388	FORE 80WP RAINSHIELD	0.00	22.00	1	Mancozeb	3	YES	NO
400-416	TERRAZOLE 35% WETTABLE POWDER	0.00	16.00	1	Terrazole	3	YES	NO
67690-37	CUPRO 2005 T/N/O	0.00	0.10	1	Copper hydroxide	1	NO	NO
<b>Other (Repellents, Biochemical Pesticides, Etc.)</b>								
60061-71	PETTIT MARINE PAINT PREMIUM SINGLE SEASON ABLATIVE	29.00	0.00	23	Copper oxide (ous)	2	NO	NO
71096-7	ORTHO BUG-GETA SNAIL & SLUG KILLER 1	0.00	5.66	8	Metaldehyde	3	NO	NO
100-1014	PACLOBUTRAZOL 2SC	0.39	0.00	3	Paclobutrazol	3	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	3	Gibberellins	2	NO	NO
2217-768	EMBARC E-Z-TU-USE PLANT GROWTH REGULATOR	1.00	0.00	2	Mefluidide, diethanolamine salt	3	NO	NO
72-574	MILLER HOT SAUCE ANIMAL REPELLENT	0.00	0.00	2	Capsicum oleoresin	3	NO	NO
59807-4	HORMODIN 1	0.00	0.09	2	IBA	3	NO	NO
1448-212	CHEMICIDE 100-15	15.00	0.00	1	Poly(oxyethylene) (dimethylimino) ethylene (dimethylimino) ethylene dichloride	3	NO	NO
80917-4	SHAKE-AWAY CRITTER REPELLENT GRANULES	0.00	0.50	1	Fox urine	3	NO	NO

<b>EPA Reg. #</b>	<b>EPA Product Name</b>	<b>Volume (Gals)</b>	<b>Weight (Lbs)</b>	<b>No. Appl's.</b>	<b>Active Ingredient(s)</b>	<b>EPA Tox Cat</b>	<b>EPA Carcin</b>	<b>CA Dev. Toxin</b>
73049-67	DITERA DF BIOLOGICAL NEMATICIDE	0.00	0.04	1	Myrothecium verrucaria, dried fermentation solids & solubles	3	NO	NO



### APPENDIX 3: Complete Listing of “Best Management Practices” Insecticide Used Citywide in 2012

EPA Reg. #	EPA Prod Name	Volume in Gallons	Weight in Pounds	Total Applications	Active Ingredient Data
100-1484	DUPONT ADVION COCKROACH GEL BAIT	6.19	232.63	4,497	Indoxacarb
64405-2	REDZONE BAIT	0.44	845.77	4,189	Boric acid
432-1460	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	108.61	2,613	Fipronil
73049-429	VECTOMAX FG	0.00	960.67	2,282	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis strain AM 65-52
432-1259	PRODUCT: RBF5	0.00	65.05	1,670	Fipronil
432-1257	MAXFORCE ROACH BAIT F.05	0.58	63.70	1,459	Fipronil
67425-14	ECOPCO ACU	26.60	7.81	718	Phenylethyl propionate
73766-1	GOURMET ANT BAIT GEL	0.38	12.89	635	Disodium octaborate tetrahydrate
279-3384	ROACH KIL COMMERCIAL	0.00	199.68	615	Boric acid
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.12	29353.24	517	Bacillus sphaericus
499-406	AVERT PRESCRIPTION TREATMENT TC 93A BAIT	0.00	18.71	440	Avermectin
499-410	AVERT PRESCRIPTION TREATMENT TC 93B BAIT	0.02	15.04	248	Avermectin
73049-19	VECTOBAC CG BIOLOGICAL LARVICIDE GRANULES	0.00	14102.56	232	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
10807-455	BORID BARRIER WITH BORIC ACID	0.00	56.12	186	Boric acid
432-1264	MAXFORCE FC ANT KILLER BAIT GEL	0.00	3.65	128	Fipronil
1021-1828	MGK ROACH BAIT 2822	0.00	1.76	121	Avermectin
100-1498	DUPONT ADVION ANT GEL	0.00	7.20	118	Indoxacarb
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	191.44	104	Boric acid
2724-446	ZOECON RF-437 MOSQUITO GROWTH REGULATOR SR-20	0.00	140.00	70	S-Methoprene
432-1255	MAXFORCE GRANULAR INSECT BAIT	0.66	8.68	67	Hydramethylnon
499-384	WHITMIRE PT 240 PERMA-DUST INSECTICIDE	2.36	0.00	63	Boric acid
73079-2	INTICE GRANULAR BAIT	0.06	5.12	48	Boric acid
1677-191	ECO2000-GR	0.00	18.98	42	Boric acid
432-1254	MAXFORCE PROFESSIONAL INSECT CONTROL ROACH KILLER	0.75	1.57	37	Hydramethylnon
1021-1603	NYLAR 10EC	27.38	0.00	33	Pyriproxyfen
48813-1	SUFFOIL-X	16.47	0.00	30	Petroleum distillates
432-1262	MAXFORCE IBH10	0.00	62.48	27	Hydramethylnon
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	1.23	25	Indoxacarb
432-1256	MAXFORCE FC ANT BAIT STATIONS	0.45	0.42	18	Fipronil
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.96	0.00	17	Potassium laurate
6218-47	SUMMIT B.T.I. BRIQUETS	0.03	27.89	17	Bacillus thuringiensis subsp. Israelensis strain BMP 144
59639-96	DISTANCE INSECT GROWTH REGULATOR	1.24	0.00	16	Pyriproxyfen
100-1501	DUPONT ARILON INSECTICIDE	17.50	0.00	15	Indoxacarb
70051-2	TRIACT 70	3.13	0.00	15	Neem oil
279-3385	DRAX ANT KILL GEL	0.47	0.69	13	Boric acid
241-313	SIEGE PBS GEL INSECTICIDE	0.00	3.44	11	Hydramethylnon
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.19	0.00	10	Spinosad
73049-10	VECTOBAC G BIOLOGICAL	0.00	21.00	7	Bacillus thuringiensis, subsp.

	LARVICIDE GRANULES				Israelensis, strain AM 65-52
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.25	7	Bacillus thuringiensis, subsp Kurstaki, strain ABTS-351, fermentation solids and solution
100-1487	PROVAUNT	0.00	12.50	4	Indoxacarb
499-370	JOHNSON WAX PROFESSIONAL BRAND GRANULAR ANT BAIT	0.03	0.00	3	Avermectin
100-1260	OPTIGARD ANT GEL BAIT	0.02	0.00	3	Thiamethoxam
432-1252	MAXFORCE PROFESSIONAL INSECT CONTROL ANT KILLER BA	0.00	0.15	3	Hydramethylnon
499-515	TC 273	0.05	0.00	2	Boric acid
62719-314	MONTEREY GARDEN INSECT SPRAY	0.00	0.00	2	Spinosad
100-1481	DUPONT ADVION FIRE ANT BAIT	0.00	0.10	2	Indoxacarb
73049-38	VECTOBAC 12AS BIOLOGICAL LARVICIDE	0.44	0.00	1	Bacillus thuringiensis, subsp Israelensis, strain AM 65-52
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.07	0.00	1	Bacillus thuringiensis, subsp Israelensis, strain AM 65-52
73766-1	ADIOS ANT KILLER GEL	0.01	0.00	1	Disodium octaborate tetrahydrate
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.38	1	Avermectin
67425-14	ECOPCO ACU CONTACT INSECTICIDE	0.00	0.19	1	Phenylethyl propionate
64405-2	LEGS UP! INDOOR GRANULAR BAIT	0.00	0.19	1	Boric acid
499-509	WHITMIRE DE 1606	0.00	0.13	1	Diatomaceous earth
499-527	TC 249	0.00	0.13	1	Dinotefuran; Diatomaceous earth
432-1455	BES 0026 FLY SPOT BAIT	0.00	0.08	1	Imidacloprid; (Z)-9-Tricosene
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.07	1	Indoxacarb
432-1251	MAXFORCE ROACH CONTROL SYSTEM	0.00	0.04	1	Hydramethylnon
432-1258	MAXFORCE LARGE ROACH BAIT F.03	0.00	0.02	1	Fipronil
73079-1	INTICE SWEET ANT GEL	0.00	0.00	1	Boric acid
73079-9	INTICE SMART ANT GEL	0.00	0.00	1	Borax