



Pesticide Use by New York City Agencies in 2022

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Pesticide Use by New York City Agencies in 2022

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. New York City agencies account for a small fraction of all pesticides used in the city. New York State receives pesticide use data from all commercial applicators. New York City agencies' use in 2017 (the last year for which New York State data has been processed) accounted for an estimated 2.8% of the total volume of liquid pesticides, and 12% of the total pounds of solid pesticides applied within the five boroughs of New York City, after excluding mosquito larvicide applications.

In 2022, 31 municipal agencies reported their pesticide use to DOHMH. This report summarizes pesticides applied by or on behalf of agencies on city-owned or -leased property.

Key findings include:

- Pesticides were applied 683,375 times by New York City agencies in 2022. Agencies used 8,106 gallons of liquid and 161,741 pounds of solid pesticide products (Table 1). There was a decrease in number of applications and total product use by weight due to a decrease in mosquito larvicide applications in coastal wetlands and catch basins.
- Even with declining levels of larviciding, mosquitos were the most targeted pest in 2022, followed by cockroaches, rats, mice, and ants, making up the top 5 targets (by total number of applications in descending order) (Table 3).
- Most liquid pesticide products (40% by volume) used by city agencies were fungicides, and most solid products (47% by weight) were rodenticides (Table 1). After excluding DOHMH mosquito larviciding conducted to prevent spread of West Nile Virus and other mosquito-borne diseases (30% of all solid products), rodenticides remained the largest percentage of solid pesticide products used (67% by weight).
- Insecticides
 - Insecticides were the most frequently applied type of pesticide, accounting for 83% of all applications (Table 1).
 - The volume of liquid insecticides decreased 26% in 2022, compared with 2021 (Figure 2). This decrease was due to use of smaller volume pyrethroid applications at NYCHA (Figure 6).
 - Liquid pyrethroid products targeting cockroaches and bed bugs decreased 20% and 42%, respectively, from 2021 to 2022, continuing a downward trend (Figure 6).
 - A moderate decrease (12%) in the number of mosquito larvicide applications was associated with a 33% decrease in use of these products by weight, compared with 2021.

- “Best Management Practices” (BMP) insecticide products (Appendix 3) include gel and bait insecticides with little potential for human exposure. Use in 2022 was almost identical to 2021 (93% and 94% of insecticide applications, respectively). BMP application amounts by weight to treat cockroaches decreased by 36% from 2021 to 2022 (Figure 4).
- Herbicides
 - Compared to other liquid pesticides, liquid herbicide product use increased in 2022 (Figure 2). Volume increased by 177% (1,079 to 2,990 gallons), due to the treatment of invasive plants in city parks. However, there was a 90% drop in the use of glyphosate products, and amounts are now 99% lower than in 2012 (Figure 3). The Parks Department has phased out the use of glyphosate products in areas of parks accessible to the public as required by 2021 amendments to Local Law 37.
 - The use of solid herbicide products in 2022 decreased 9% from 2021, but the use of outdoor granular turf formulations – mainly on golf courses and large institutional lawns – continued at higher levels compared to earlier years.
 - The Parks Department no longer applies pre-emergent herbicides near roadways or along walkways and perimeters of city parks.
- Rodenticides
 - Use of solid rodenticide products increased 21% by weight from 2021 (Figure 1). The DOHMH calibrates its rodenticide applications based on findings from neighborhood rat ‘indexing’. The increase reflects a rise in the number of inspections in 2022 as field activity increased after the reduction in 2020 into 2021 due to the COVID-19 pandemic.

Pesticide Use by New York City Agencies in 2021

I. BACKGROUND

When Local Law 37 was enacted on May 9, 2005, New York City (NYC) 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 for pesticide use on property owned or leased by the City, including the prohibition of certain products, posting of warning notices prior to pesticide use, and the requirement that agencies report their pesticide use annually.

With the enactment of Local Law 37, prohibitions of 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. By May 2006, use of pesticides classified by the EPA as of July 19, 2004, as possible, probable, or known human carcinogens was prohibited. Finally, by November 2006, use of pesticides classified by the State of California’s Office of Environmental Health Hazard Assessment as developmental toxicants as of March 4, 2005, was prohibited. In May 2021 the law was further amended to include prohibition of any additional chemicals on the EPA and California lists since the original law. The legislation further amended the law to prohibit any chemicals listed as a carcinogen by the World Health Organization’s International Association for Research on Cancer (IARC) – including glyphosate, a commonly used herbicide listed as “probably carcinogenic to humans” – as of the date of the law’s passage. Additional prohibitions on use of synthetic pesticide chemicals in city parks went into effect in late 2022, eighteen months after the adoption of the amended law. The full impact of the prohibitions in city parks will be evident in reporting for 2023.

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. Local Law 37 also empowered the New York City Department of Health and Mental Hygiene (DOHMH) to consider and grant requests for waivers from prohibition on a case-by-case basis. DOHMH issues annual waivers from prohibition of insecticide gels containing the ingredients fipronil, hydramethylnon, and avermectin due to their effectiveness and low potential for human exposure. DOHMH maintains a webpage on Local Law 37 at <http://nyc.gov/health/ll37> that includes a list of all waivers granted to agencies, as well as the original waiver applications.

In October 2007, New York City enacted Local Law 54, which requires City agencies to report their pesticide use to DOHMH, and DOHMH to issue a summary report to the City Council and the Mayor. This fifteenth annual summary report demonstrates that City agencies have made significant improvements to the quality and delivery of pesticide use data since the enactment of Local Law 37. In 2006, only three agencies provided data in an electronic format that enabled summarization. In 2022, all agencies reported data electronically.

II. SOURCES OF PESTICIDE USE DATA

New York City agencies are required to report their pesticide use for the preceding calendar year to DOHMH by February 1. This report summarizes data received by the DOHMH for pesticides applied during calendar year 2022.

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, the target pest, the date and location the product was applied, and what agency or contractor applied it. 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 active ingredients. In addition, DOHMH links these data to the EPA Office of Pesticide Programs' List of Chemicals Evaluated for Carcinogenic Potential, the State of California's List of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity, and the IARC carcinogen list, all available for download at <http://nyc.gov/health/1137>.

III. METHODS AND LIMITATIONS

Data in a variety of electronic formats were imported into a single database, where they were checked for quality and validity. Weight and volumetric units were standardized to pounds and gallons, respectively. Products sold in solid form are primarily 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 Microsoft SQL, Excel and Access. We analyzed data by pesticide type and chemical class, and report total numbers, pounds, and gallons of applications for New York City, and by agency on whose behalf the pesticides were applied.

All reporting New York City agencies and their contractors provided data to DOHMH in electronic format. DOHMH hosts an electronic reporting tool, the New York City Pesticide Use Reporting System (NYCPURS), that all agencies, contractors, and licensed pest control applicators can register to use. The system also allows for the importation of data maintained by other electronic systems.

Summary statistics are reported by agency, based on records DOHMH has evaluated for completeness. It is still not possible to fully determine whether each agency was able to report every pesticide application. Many agencies depend upon contractors to maintain records of pesticides applied and may not be certain that all contractors have fully complied with Local Law 37 reporting requirements. Additional limitations in the data include:

- Staff and contractor turnover have led to difficulty maintaining dependable and timely reporting at some agencies.
- Year-to-year variation in agency pesticide use can be due to many factors, including but not limited to changes in practice, budgets, and the incidence of actual pest problems.
- Decisions on whether a single application is reported by an entire building or by individual apartment or office suite, as well as reporting of diluted versus undiluted amounts of

applied pesticides, can significantly affect the reported amounts per application and total number of applications in a year. Because of variations in practice among agencies and contractors, uniformity in reporting cannot be assured.

Despite the above-mentioned limitations, the data continue to improve over previous years with increased agency and contractor use of NYCPURS. Reporting errors, especially in reporting incorrect units, were further reduced in 2022 due to input standardization and consistent formatting in the NYCPURS system.

In 2022, 99% of records were either imported or directly entered into the NYCPURS system, with the remainder reported in electronic format outside of the NYCPURS system. We expect to see further improvements in the data over the next year, as more agencies and contractors migrate existing electronic or paper systems to the NYCPURS system. 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. In 2022, Parks, NYCHA, and DOE also continued using dry ice (frozen carbon dioxide) as an alternative rodenticide in sensitive outdoor locations, such as near city parks and outdoor areas on school properties. DOHMH worked with federal and state regulators to receive approval for this rodent control method in 2017, which has no risk of secondary poisoning to predatory animals. Some other common rodenticide products used by agencies in 2022 were: Contrac All-Weather Blox®, Contrac Rodenticide®, Final Rodenticide® and Difethialone Paste Place Packs®.

In 2022, a total of 75,749 pounds of rodenticides were applied by City agencies, accounting for 47% by weight of solid pesticides applied – 67% by weight when excluding mosquito larvicides (Table 1).

Insecticides

A total of 1,817 gallons and 53,947 pounds of insecticides were applied by NYC agencies in 2022, accounting for 22% by volume, and 33% by weight of the total applications. Biological insecticides applied to target mosquito larvae account for 91% of insecticides by weight (Table 1). When those products are excluded, 5,075 pounds of insecticides by weight were applied, making

up 5% of solid pesticides applied. Insecticides used by NYC agencies in 2022 fell largely into three classes of products: conventional pyrethrins and pyrethroids, organophosphates and carbamates, and “Best Management Practices” (BMP) 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, cyhalothrin, esfenvalerate, and deltamethrin. Pyrethrin and pyrethroid products used by agencies in 2022 include Whitmire Optem ME PT 600®, STERI-FAB, Demand CS Insecticide®, Temprid SC Insecticide®, Suspend SC Insecticide® and Tempo SC Insecticide ®.

In 2022, pyrethrins and pyrethroids accounted for 67% of total liquid insecticides applied by volume and 1% of solid insecticides by weight – 13% by weight when excluding mosquito larvicides. These products made up 5% of the total number of insecticide applications. There was a 27% decrease in pyrethroids applied by volume in 2022.

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 has also allowed the registrations for several carbamates to lapse.

The main organophosphate active ingredients used in 2022 were outdoor applications of trichlorfon on some golf courses, which are exempt from Local Law 37 use prohibitions. The only carbamate active ingredients applied in 2022 were carbaryl and methomyl. Organophosphate and carbamate products applied by agencies in 2022 include Dylox 420 SL Turf and Ornamental Insecticide®, Sevin SL Carbaryl Insecticide®, and Golden Malrin RF-128 Fly Killer ®.

These products remain a very small percentage of the insecticides used by city agencies, making up well below 1% of the total number of insecticide applications. Reports submitted by agencies showed that in 2022, the use of organophosphates and carbamates accounted for only 2% of liquid insecticides applied by agencies by volume (a small increase from 2021 levels) and 7% of total solids by weight after excluding mosquito larvicides.

“Best Management Practices” Insecticides

The market offers several highly effective insecticide products with little or no potential risk for human exposure. 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 programs and are referred to as “Best Management Practices” Insecticides (BMP). Integrated pest management involves sealing cracks, fixing leaks and removing garbage to deprive pests of food, water and shelter with the aim of minimizing pesticide use. A complete list of BMP insecticides is 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®, Vectomax FG ®, Summit B.T.I. Briquets®, Vendetta Plus Cockroach Gel Bait ®, and DuPont Advion Cockroach Gel Bait®.

In 2022, 17% of the total insecticides applied by volume, and 98% by weight, were insecticidal dusts, gels and baits, insect growth regulators, or biological larvicides. Excluding mosquito larvicides, the total drops to 78% of solid insecticide products by weight.

Herbicides

New York City agencies used herbicides in 2022 primarily for vegetation control in parks and for the maintenance of highways and street medians. The active ingredients most frequently used were triclopyr, butoxyethyl ester, imazamox and Glufosinate-ammonium. A total of 2,990 gallons and 24,704 pounds of herbicides were applied in 2022, accounting for 37% of total pesticide volume and 15% of total pesticide weight overall (22% after excluding mosquito larviciding). (Table 1)

Glyphosate

Though recent use by NYC agencies has been declining, glyphosates remain a commonly used liquid herbicide in the US, best known as Roundup® products. Glyphosate is a broad-spectrum, non-selective systemic herbicide that can be used throughout the growing season. In early 2015, the International Agency for Research on Cancer (IARC), a branch of the World Health Organization (WHO), changed the classification for glyphosate to a “probable human carcinogen.” However, a risk assessment by the European Food Safety Authority (EFSA) determined that glyphosate is “unlikely to pose a carcinogenic hazard to humans.”¹ Glyphosate shows little acute toxicity, but there has been growing concern that chronic exposure may increase risk of certain cancers. There is also some evidence that heavy use of the chemical in warm climates with soil high in certain toxic metals could present significant risk for developing kidney damage in agricultural workers. Glyphosate use had increased as agencies phased out the use of other herbicides prohibited under Local Law 37 but has been declining since 2013. The amendments to

1. ¹ European Food Safety Authority. Conclusion on the peer review of the pesticide risk assessment of the active substance glyphosate. *Efsa J* 2015;13:4302.

Local Law 37 passed in 2021 now prohibit the use of glyphosate products due to IARC classifying the chemical as a probable carcinogen. In 2022, 1% of liquid herbicide use (by volume) contained glyphosate compared to 53% in 2016 (Figure 3).

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, benfluralin and prodiamine. Agencies used dinitroaniline products containing prodiamine in 2022, including Barricade 4FL® and Quali-Pro Prodiamine 4L ® applied on city golf courses. In 2013, the Parks Department chose to no longer use pendimethalin-containing herbicides, after requesting a waiver in previous years to use this herbicide.

Chlorophenoxyacetic/Benzoic Acids

The chlorophenoxyacetic acid herbicides are a family of related chemicals that are often combined in products. EPA classifies one member of this class of pesticides – mecoprop-p – as a suspected carcinogen. 2,4-D is also now prohibited due to classification by IARC as possibly carcinogenic to humans. Common chlorophenoxyacetic acid active ingredients are 2,4-D, MCPP, mecoprop-p, dicamba and MCPA. Common chlorophenoxyacetic acid products used by agencies in 2021 were Riverdale Vanquish Herbicide®, Cool Power Selective Herbicide ® and Speed Zone Broadleaf Herbicide®. In 2022, the only uses of these products were applications along city highways by the DOT and a small number of applications on the city's golf courses, parks, and botanical gardens.

Ureas

Like dinitroaniline herbicides, urea herbicides are of low acute toxicity, but chronic exposure may pose some risks. Classification as a possible human carcinogen varies within the group. Rimsulfuron, a urea herbicide among the twenty most heavily used herbicides reported by commercial applicators in the private market in NYC in 2017 (most recent data available), 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. None of the ureas used by NYC agencies in 2021 is classified by the EPA as a human carcinogen. Common urea active ingredients are sulfometuron methyl, metsulfuron-methyl and halosulfuron-methyl. Common urea products used by NYC agencies in 2022 were Sedgehammer®, and Oust XP Herbicide® Dupont Viewpoint Herbicide®. In 2022, the only uses of these products were applications along city highways by the DOT and a small number of applications on city golf courses.

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, which are exempt from Local Law 37 prohibitions.

The active ingredients of fungicides commonly used in NYC in 2022 were acibenzolar-S-methyl, chlorothalonil, tebuconazole, fosetyl-Al, thiabendazole, trichoderma harzianum rifai strain KRL-AG2, thiophanate-methyl, propamocarb hydrochloride, iprodione, and QST 713 strain of dried *Bacillus subtilis*. Common fungicide products applied in 2022 include Daconil Action®, Banol Turf and Ornamental Fungicide®, Armor Tech TMI 2020XL®, 12ESP705 Fungicide®, Alette WDG Brand Fungicide, and Rhapsody AS0.

Fungicides represented less than 1% of the total number of pesticide applications in 2022, but they made up 40% of total volume of liquid pesticides applied and 5% of total weight of solid products – 7% after excluding mosquito larvicides (Table 1). Though the total volume of liquid fungicides reported has only increased slightly since 2012, they are now one of the most heavily used types of pesticide reported by volume. Much of this increase is due to a shift to liquid formulations from solid products (Figure 1 & 2).

B. SUMMARY OF CITYWIDE PESTICIDE USE

Pesticide use can be measured and compared in several ways. Throughout the remainder of this report, we describe frequency of applications and quantity applied. Quantities for liquid applications are usually measured as volume in gallons. Quantities for solid applications are typically measured as weight in pounds. However, we included pesticides applied in totals by weight and volume based on the unit reported by City agencies or their contractors. In other words, if a liquid pesticide typically reported in gallons was instead reported in pounds, it was included in the weight totals.

Pesticides were applied a total of 683,375 times by New York City agencies in 2022, 4% less than in 2021 due to a decrease in larvicide applications, but with a 15% increase in the number of pyrethroid applications targeting roaches and bed bugs, primarily at NYCHA. The pesticides applied most frequently by New York City agencies (by application count) were insecticides. However, rodenticides were the most heavily used solid products (47% by weight), and fungicides were the most heavily used liquid (40% by volume). In 2022, 91% of the insecticides reported by weight were bacterial products designed to kill mosquito larvae in stagnant waters away from human contact. Excluding these products used as part of DOHMH mosquito-borne disease control programs, 5% of total solid pesticides by weight were insecticides and 67% were rodenticides. The majority of rodenticide applied by city agencies is placed directly into rat burrows and poses little risk of exposure to the public. Table 1 summarizes these findings of applications by pesticide type.

Table 1. Total Applications Reported Applied by NYC Agencies in 2022, by Pesticide Type

Pesticide Type	Volume		Weight			Times Applied	
	Gallons	% of Total	Pounds	% of Total	% without larvicide	Number	% of Total
Rodenticide	1	0.0%	75,749	46.8%	67.1%	112,399	16.4%
Insecticide	1,817	22.4%	53,947	33.4%	4.5%	567,563	83.1%
Herbicide	2,990	36.9%	24,704	15.3%	21.9%	2,186	0.3%
Fungicide	3,202	39.5%	7,342	4.5%	6.5%	1,186	0.2%
Other	96	1.2%	1	0.0%	0.001%	41	0.0%
Totals	8,106		161,741			683,375	

Table 2 lists the ten most frequently used products for each pesticide type on New York City owned or leased property in 2022. For each, we list the total volume, weight, and number of applications (No. Apps), as well as the active ingredient(s), the EPA toxicity category (EPA Tox Cat), whether the product is considered a known, possible, or suspect carcinogen by EPA (EPA Carcin), whether the product is listed by the State of California as a reproductive or developmental hazard (CA Dev Toxin), and whether the product is listed as carcinogen by IARC (IARC Carcin). 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 labels require 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 slightly toxic, while Toxicity 4 products are considered relatively non-toxic, and both carry the signal word “Caution.” A complete list of products used by New York City by pesticide type is included in Appendix 1.

Table 2. Ten Most Frequently Applied Pesticide Products by NYC Agencies in 2022 by Type

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Apps	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	38,558.46	62354	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	12,187.99	12481	Bromadiolone	3	NO	NO	NO
12455-90	FINAL RODENTICIDE	0.00	7,506.38	12307	Brodifacoum	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.04	288.95	8631	Diphacinone	2	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	873.95	3256	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	642.21	2385	Bromadiolone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2,822.21	2359	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	560.91	2268	Brodifacoum	3	NO	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	602.97	1789	Bromadiolone	3	NO	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Apps	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev Toxin	IARC Carcin
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,754.05	1245	Bromadiolone	3	NO	NO	NO
Insecticides									
73049-429	VECTOMAX FG	0.00	13,393.98	451915	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.05	726.99	31675	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1,167.57	9046	Boric acid	3	NO	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	73.63	8146	Dinotefuran	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	9.20	31.51	8039	Deltamethrin	3	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	2.34	0.00	6317	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.56	76.51	6232	Avermectin; Pyriproxyfen	3	NO	YES	NO
1021-2796	MGK Formula 3113	0.09	76.19	6014	Clothianidin; Pyriproxyfen	0	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	21.09	0.00	5205	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	5.22	0.75	4950	(7S)-Hydroprene	3	NO	NO	NO
Herbicides									
101563-188	DUPONT VIEWPOINT HERBICIDE	9.06	0.00	285	Aminocyclopyrach lor; Imazapyr; Metsulfuron- methyl	3	NO	NO	NO
62719-176	PATHFINDER II	112.38	0.00	266	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-519	MILESTONE	9.52	0.00	265	Aminopyralid, triisopropanolamin e salt	3	NO	NO	NO
7969-443	DERRINGER HERBICIDE	61.07	0.00	263	Glufosinate- ammonium	2	NO	NO	NO
62719-527	GARLON 4 ULTRA	50.63	1.01	194	Triclopyr	2	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	2,154.42	0.00	116	Imazamox	3	NO	NO	NO
100-937	PRIMO MAXX	36.71	0.00	89	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	41.18	0.00	58	Trinexapac-ethyl	3	NO	NO	NO

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Apps	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev Toxin	IARC Carcin
86064-3	ARMOR TECH PGR 113 MC	5.97	65.44	48	Trinexapac-ethyl	3	NO	NO	NO
524-579	ROUNDUP PROMAX	1.82	32.78	48	Glyphosate, potassium salt	3	NO	NO	YES
Fungicides									
100-1364	DACONIL ACTION	685.04	5.00	92	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	87.19	87	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	7.08	560.83	82	Thiabendazole	3	YES	NO	NO
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	202.15	20.00	65	Propamocarb hydrochloride	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	48.79	0.00	56	Trinexapac-ethyl	3	NO	NO	NO
53883-323-86064	ARMOR TECH TMI 2020XL	157.95	0.00	53	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-1633	Secure Action	41.37	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	25	Mineral oil	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	3.30	806.00	23	Fosetyl-Al	3	NO	NO	NO
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	1,143.06	23	Fosetyl-Al	3	NO	NO	NO
Other									
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	25.00	0.00	25	Copper oxide (ous)	2	NO	NO	NO
59807-4	HORMODIN 1	0.00	0.60	9	IBA	3	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	6	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	71.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	NO	NO

C. CHANGES IN PESTICIDE USE

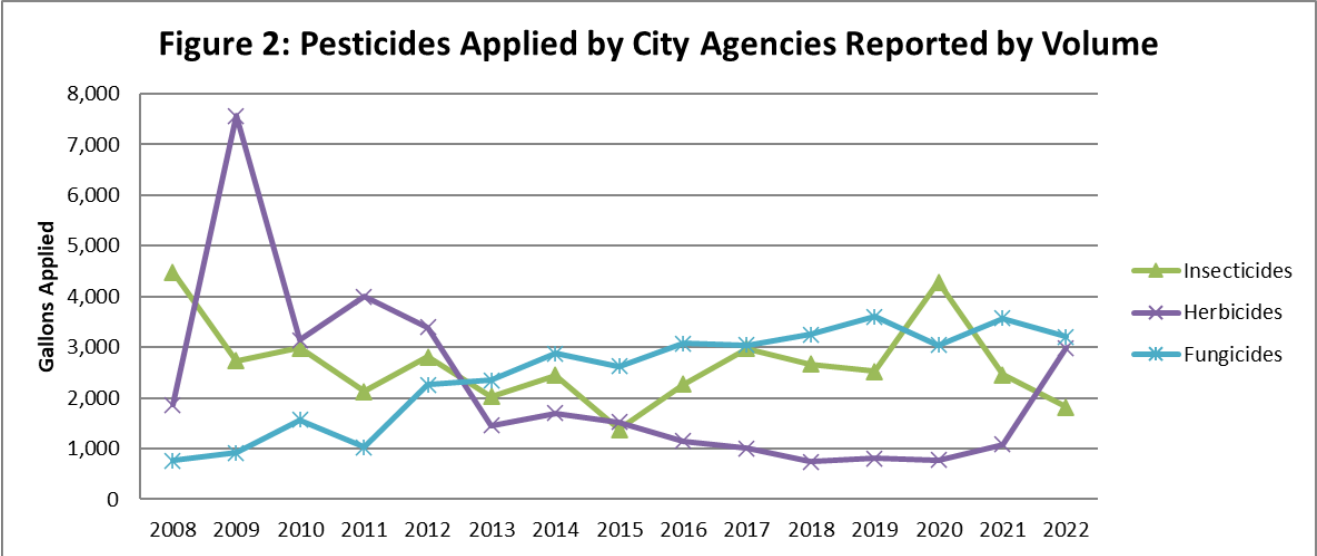
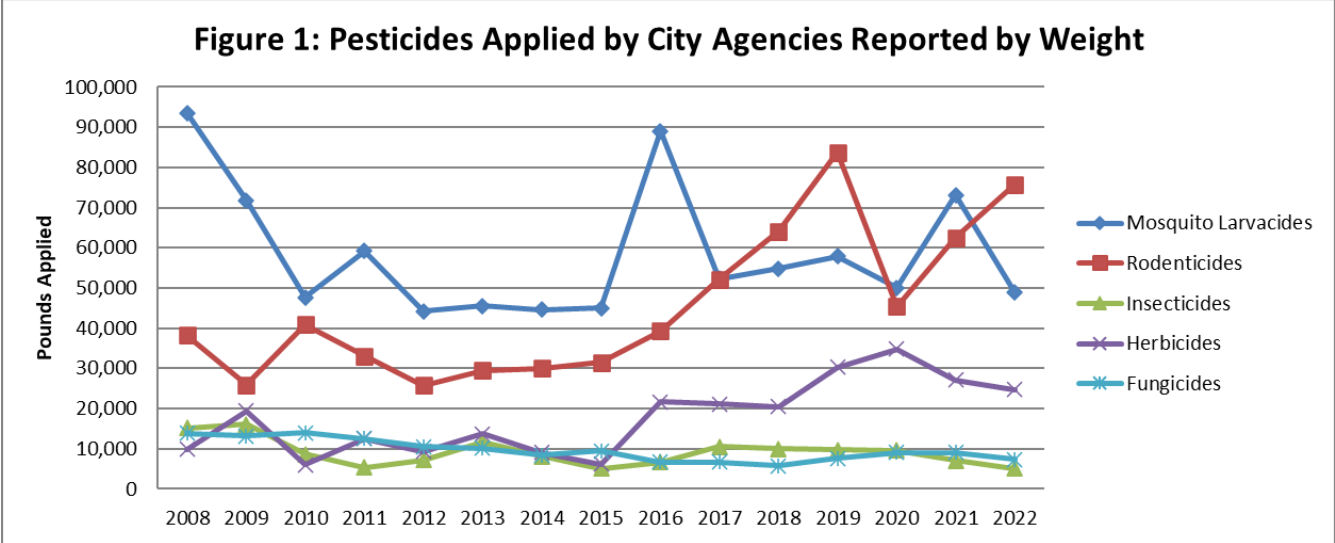
A complete listing of application amounts by target pest is listed in Table 3.

Table 3: Complete listing of pesticide applications by New York City Agencies by Target Pest, 2022

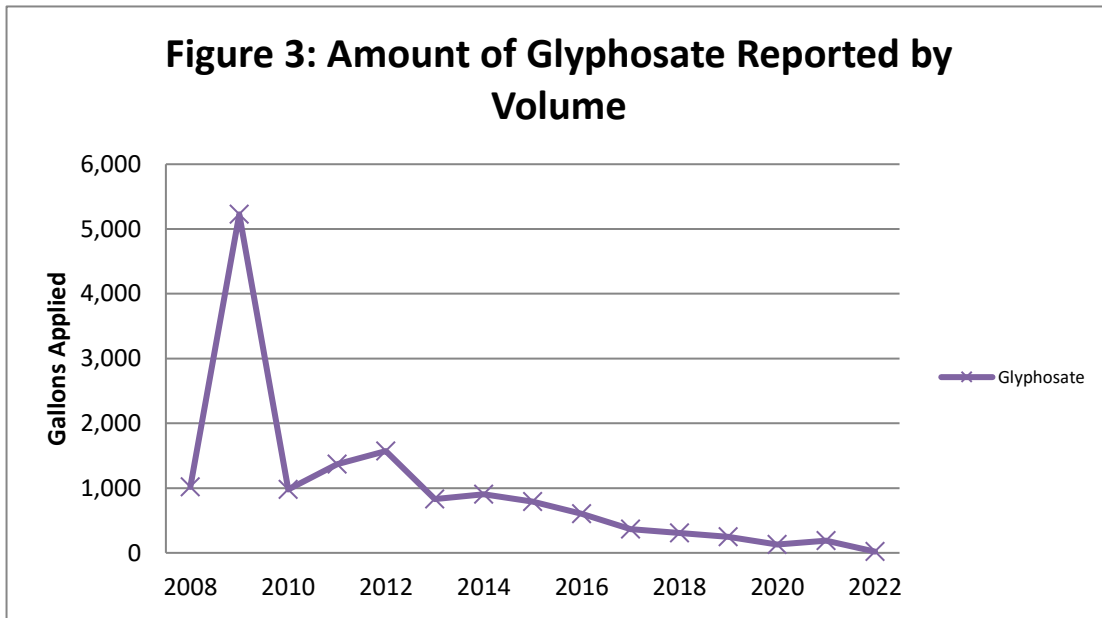
Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Mosquitoes	498.9	49416.5	452797	66.26%
Roaches	374.9	3374.7	89598	13.11%
Rats	0.1	67157.9	89385	13.08%
Mice	5.8	8608.1	22895	3.35%
Ants	25.4	714.4	9387	1.37%
Missing Target Organism	45.4	166.9	4673	<1%
Emerald Ash Borer	29.0	0.0	3126	<1%
Other Pests	216.6	576.8	2726	<1%
Weeds, vines, or grasses	2989.8	24703.5	2186	<1%
Bedbugs	2.1	1988.1	2182	<1%
Flying insects	127.6	403.8	1440	<1%
Termites	12.3	8.3	1258	<1%
Fungal Disease or Infestation	3201.8	7341.6	1186	<1%
Other Crawling Insects	178.3	462.4	536	<1%
Totals	7,708	164,923	683,375	

The level of completeness of city agency pesticide reporting has improved dramatically over the years, making analysis of trends in pesticide use possible since 2008. Figures 1 and 2 show trends from 2008 through 2022 in use of pesticides by city agencies by type of pesticide, with solid and liquid products reported by weight and volume, respectively.

In Figure 1, DOHMH mosquito control program larvicides are charted separately from other insecticides, because they represent a large proportion of city insecticide use and their year-to-year use varies more with weather than other insecticides. Larvicide use (Figure 1) decreased 33% in 2022 while the number of applications remained very high due to treatment of city catch basins. Use of solid rodenticide products went up again in 2022 (21% increase by weight) from 2021 to 2022 following a sharp decline in 2020. Solid herbicide by weight declined slightly in 2022 but remains at a historically high level due to the use of outdoor granular turf formulations that include fertilizer (adding to the product weight) mainly on golf courses and large institutional lawns (Figure 1).

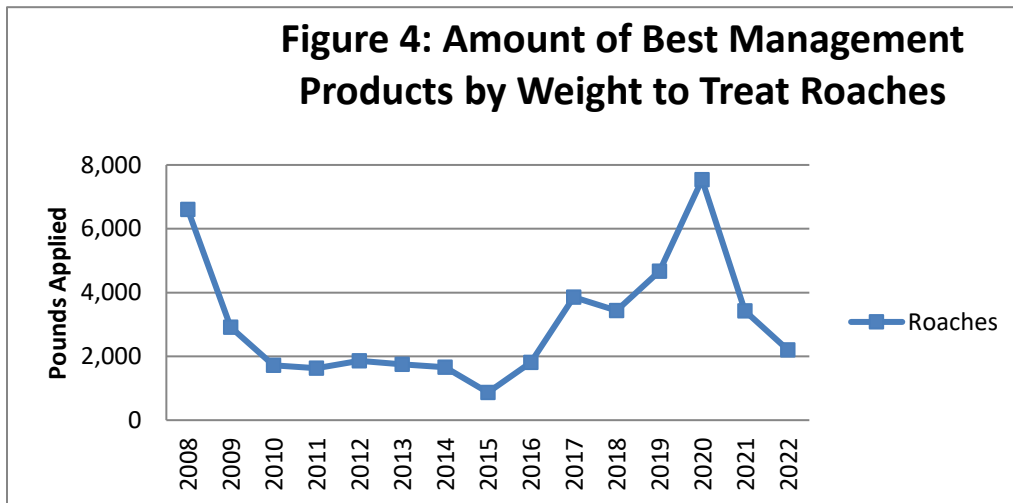


Rodenticides and mosquito larvacides are not included in Figure 2 as those products are almost exclusively solid formulations reported by weight. There was a 26% decrease in liquid insecticide use reported by volume in 2022 compared to 2021, due to a decrease in use of pyrethroids and liquid BMP insecticides (Appendix 1 & 3). From 2008 to 2022, there was a 59% decrease in the volume of liquid insecticides used (Figure 2). In contrast, liquid herbicide use increased 177% by volume (Figure 2) from 2021 to 2022, but there was a 90% decrease in gallons of glyphosate applied (Figure 3). Overall, there has been a 99% decline in glyphosate levels applied since 2012. The high volume of herbicide (mostly glyphosate) used in 2009 was due in part to large discreet projects by the Parks Department to control invasive species in remote, often wooded, parkland.



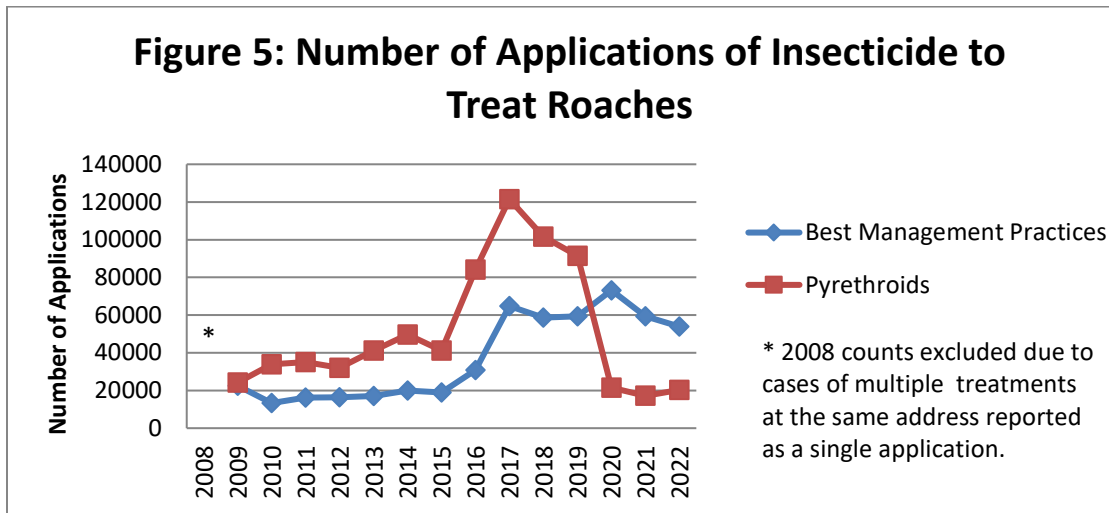
Use of spray formulations vs. Best Management Practices

After a large reduction in BMP products to combat roaches from 2008 to 2010, the reported use of these products leveled off through 2015, increased through 2020, and declined sharply in 2021 with the downward trend continued in 2022. There was a 55% decrease in BMP products targeting roaches in 2021 compared with 2020 and 36% decrease in 2022 compared with 2021 (Figure 4).



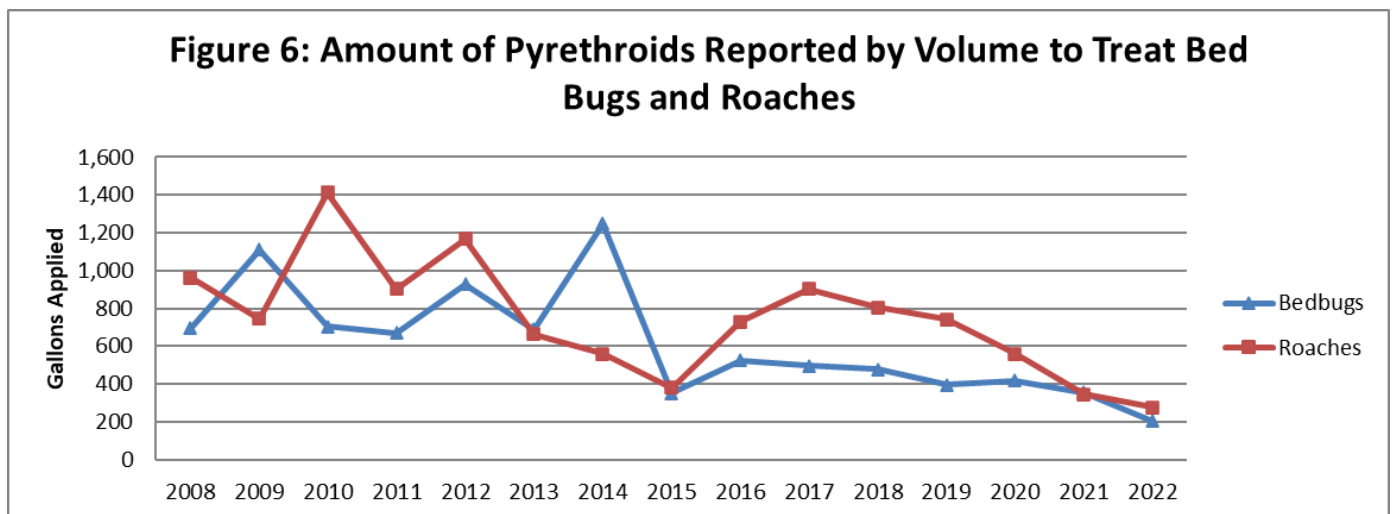
There was a 25% increase in the number of pyrethroid applications and a 9% decrease in the number of BMP applications to treat roaches from 2021 to 2022 (Figure 5). Although the number of pyrethroid applications went up, there were 30% by weight and 20% by volume less pyrethroids applied in 2022 (Figures 5 and 6). Meanwhile the BMP amount by weight decreased

by 36%, maintaining the downward trend while BMP remained more frequently applied than pyrethroids overall (Figure 5).



Bed Bugs vs. Roaches

Use of pyrethroid spray products targeting roaches decreased 20% by volume, but the number of applications increased 25% from 2021 to 2022 (Figures 5 and 6). There was also a 42% decrease in gallons of pyrethroids used by city agencies to treat bed bugs from 2021 to 2022 (Figure 6). Citywide, the number of pyrethroid applications to treat bed bugs decreased 37% in 2022. Total volume of pyrethroid use for control of bed bugs from 2008 to 2022 has remained low since 2015 compared with previous years, while volume for cockroaches has declined from a high in 2017 (Figure 6).



Rodents

Rodenticide use increased by 21% in 2022 by weight (Figure 1). The number of applications was also increased by 28%. Variability year to year is due to a neighborhood rat surveillance initiative ([Rat Indexing - NYC Health](#)). In addition, more inspections were conducted in 2022 than during the shutdown during the COVID-19 pandemic.

Mosquitoes

Mosquito control measures include larviciding (killing larvae) and adulticiding (killing flying adults). The DOHMH Vector Control program was the primary applicator; 48,872 pounds of mosquito larvicide and 452 gallons of adulticide were applied in 2022. Larvicide reported by weight decreased by 33% in 2022 (Figure 1). Though the application count decreased by 12% from 2021 to 2022, there continued to be a very high number of applications of larvicide in sewer catch basins in 2022 across the city. Since 2019, counts of applications have increased considerably, a 784% increase. The agency will continue to monitor mosquito populations across the five boroughs, especially the populations that commonly carry mosquito-borne pathogens such as the West Nile and Zika viruses. The amount of adulticide applied by DOHMH varies year to year, depending on weather and severity of mosquito infestations. The number of adulticide applications decreased slightly in 2022 (data not shown).

D. SUMMARY OF AGENCIES' PESTICIDE USE

For each reporting agency, we summarize total pesticide use by pesticide type, followed by a listing of pesticide products used.

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, ACS 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 ACS pesticide use by pesticide type. Table 5 lists all pesticide products used in 2022, primarily at facilities previously under management of the DJJ.

Table 4: Types of Pesticides Used by ACS in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	100.29	88.7%	168	24.7%
Insecticide	2.38	100.0%	12.78	11.3%	511	75.3%
Totals	2.38		113.07		679	

Table 5: Pesticide Products Used by ACS in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	87.80	96	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	11.43	62	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.06	10	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	6.09	335	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.92	0.00	79	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	2.97	26	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.65	26	Indoxacarb	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.07	20	Imidacloprid	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	1.14	0.00	12	Phenylethyl propionate	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.01	0.00	9	Deltamethrin	3	NO	NO	NO
397-13	STERI-FAB	0.28	0.00	2	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
88760-1	TER-RTU1	0.03	0.00	1	Neem oil	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	3.00	1	Indoxacarb	3	NO	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. DFTA 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 with 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 2022.

Brooklyn Public Libraries

The Brooklyn Public Library (BPL) serves Brooklyn's 2.5 million residents, offering thousands of public programs, millions of books, and use of more than 850 free Internet-accessible computers at its 66 locations. Contractors are hired for pest management as needed and the major pest infestations are roaches and mice. Table 6 summarizes BPL pesticide use by pesticide type. Table 7 lists all pesticide products used in 2022.

Table 6: Types of Pesticides Used by BPL in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	173.30	86.7%	628	45.5%
Insecticide	0.08	100.0%	26.61	13.3%	753	54.5%
Totals	0.08		199.90		1,381	

Table 7: Pesticide Products Used by BPL in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	160.50	554	Difethialone	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	8.05	50	Chlorophacinone	2	NO	NO	NO
87235-1-88689	EZ SOFT - SOFT BAIT RODENTICIDE	0.00	4.19	12	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	0.56	12	Diphacinone	2	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	4.72	448	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.23	112	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.05	0.00	60	Deltamethrin	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.01	0.00	28	Esfenvalerate	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.79	28	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	6.63	24	Boric acid	3	NO	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	5.00	18	Deltamethrin	3	NO	NO	NO
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.09	10	Fipronil	3	YES	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.07	9	Imidacloprid	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.03	6	Imidacloprid	3	NO	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	IARC Carcin
1021-1641-57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.01	0.00	2	Esfenvalerate	3	NO	NO	NO
499-557	Alpine WSG	0.00	7.65	2	Novaluron	3	NO	NO	NO
101563-6	DELTA DUST	0.00	0.25	2	Deltamethrin	3	NO	NO	NO
499-550	TC-323	0.00	0.13	2	Prallethrin	3	NO	NO	NO
101563-199	TETRANILIPROLE 200 SC INSECTICIDE SOD FARM	0.00	0.02	2	Tetraniliprole	3	NO	NO	NO

Board of Elections

The Board of Elections is the administrative body that oversees elections through staff at its main and five borough offices. The agency contracts for pest control through the citywide contract administered by DCAS. Table 8 summarizes BOE pesticide use by pesticide type. Table 9 lists all pesticide products used in 2022.

Table 8: Types of Pesticides Used by BOE in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	37.85	97.2%	33	45.2%
Insecticide	0.10	100.0%	1.10	2.8%	40	54.8%
Totals	0.10		38.95		73	

Table 9: Pesticide Products Used by BOE in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	35.18	28	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	2.67	5	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.88	24	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.25	7	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.02	0.00	4	Cyfluthrin, beta; Imidacloprid	3	NO	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	IARC Carcin
101563-4	SUSPEND SC INSECTICIDE	0.00	0.00	3	Deltamethrin	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.07	0.00	1	Phenylethyl propionate	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.01	1	Boric acid	3	NO	NO	NO

Chief Medical Examiner

The Office of Chief Medical Examiner (OCME) is responsible for investigating deaths in unusual circumstances, approving requests for cremations, providing additional forensic services to support criminal investigations, and managing all functions of the city mortuary. The agency contracts for pest control through the citywide contract administered by DCAS. Table 10 summarizes OCME pesticide use by pesticide type. Table 11 lists all pesticide products used in 2022.

Table 10: Types of Pesticides Used by OCME in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	3.86	67.2%	9	7.6%
Insecticide	0.25	100.0%	1.88	32.8%	109	92.4%
Totals	0.25		5.73		118	

Table 11: Pesticide Products Used by OCME in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	3.86	9	Difethialone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.56	64	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.10	0.00	19	Deltamethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.19	13	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.14	0.00	11	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.13	1	Boric acid	3	NO	NO	NO

City University of New York

The City University of New York (CUNY) is the nation's largest urban public university and consists of 23 institutions. The University serves more than 260,000 degree-credit students and 273,000 adult continuing and professional education students. Individual institutions contract for pest control services through private vendors. The data reports were received from a subset of the following 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 12 summarizes CUNY pesticide use by pesticide type. Table 13 lists all pesticide products used in 2022.

Table 12: Types of Pesticides Used by CUNY in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	8,752.89	99.9%	393	45.2%
Insecticide	103.20	100.0%	9.80	0.1%	476	54.8%
Totals	103.20		8,762.69		869	

Table 13: Pesticide Products Used by CUNY in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	8705.35	232	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	28.92	120	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	8.06	14	Bromadiolone	3	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	7.50	10	Diphacinone	3	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	0.23	10	Bromadiolone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1.75	4	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	0.83	2	Bromadiolone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	0.25	1	Brodifacoum	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	6.61	147	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.66	0.00	105	Cyfluthrin, beta; Imidacloprid	3	NO	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	IARC Carcin
53883-276	DELTA 4.75% SC	85.00	0.00	85	Deltamethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.88	31	Indoxacarb	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.35	25	Avermectin	3	NO	YES	NO
89459-59	ENVI ACU CONTACT Insecticide	2.36	0.00	24	Phenylethyl propionate	3	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	0.05	0.00	19	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.49	16	Boric acid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.02	0.00	6	Deltamethrin	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.24	6	Avermectin; Pyriproxyfen	3	NO	YES	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	15.00	0.00	5	Bifenthrin	3	YES	NO	NO
397-13	STERI-FAB	0.16	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.00	0.00	1	Cyhalothrin, lambda	3	NO	NO	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	1	Cyhalothrin, lambda	3	NO	NO	NO
62577-12	ECOPCO ACU	0.00	0.13	1	Phenylethyl propionate	3	NO	NO	NO
279-3443	D-FOAM INSECTICIDE	0.00	0.06	1	Deltamethrin	3	NO	NO	NO
499-561	TC-315	0.00	0.02	1	Dinotefuran	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	0.00	0.02	1	Cyfluthrin, beta	3	NO	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 55 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 citywide contract for pest management services that city agencies can buy into. This contract is effective from September 1, 2019, to August 31, 2024. Two contractors have replaced the previous citywide contractor. Several agencies are housed in DCAS managed buildings, and the DCAS report reflects these applications. Table 14 summarizes DCAS pesticide use by pesticide type. Table 15 lists all pesticide products used in 2022.

Table 14: Types of Pesticides Used by DCAS in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	501.40	95.7%	976	53.4%
Insecticide	5.10	100.0%	22.80	4.3%	852	46.6%
Totals	5.10		524.20		1,828	

Table 15: Pesticide Products Used by DCAS in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	406.13	635	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	81.75	266	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	13.31	74	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	0.25	1	Difethialone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	9.77	425	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	1.34	0.00	123	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	10.15	86	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	2.56	75	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.24	0.00	70	Deltamethrin	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	3.30	0.00	36	Phenylethyl propionate	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.05	12	Imidacloprid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.01	0.00	8	(7S)-Hydroprene	3	NO	NO	NO
499-561	TC-315	0.00	0.02	6	Dinotefuran	3	NO	NO	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	5	Cyhalothrin, lambda	3	NO	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	0.08	2	Clothianidin	0	NO	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	IARC Carcin
2724-490	RF 9910 AEROSOL	0.12	0.00	1	Phenothrin; Permethrin; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
499-550	TC-323	0.12	0.00	1	Prallethrin	3	NO	NO	NO
101563-14	DELTA GARD G INSECTICIDE GRANULE	0.00	0.08	1	Deltamethrin	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.04	1	Avermectin; Pyriproxyfen	3	NO	YES	NO

Correction, Department of

The Department of Correction (DOC) is responsible for New York City's inmates, housing the majority of them on Riker's Island. It oversees 44 facilities, including eleven correctional facilities which 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 in maintaining certain facilities. Table 16 summarizes DOC pesticide use by pesticide type. Table 17 lists all pesticide products used in 2022.

Table 16: Types of Pesticides Used by DOC in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	101.18	71.5%	164	17.9%
Insecticide	8.80	100.0%	40.35	28.5%	752	82.1%
Totals	8.80		141.53		916	

Table 17: Pesticide Products Used by DOC in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	58.71	111	Difethialone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	18.75	42	Bromadiolone	3	NO	NO	NO
7173-172	ROZOL BLUE TRACKING POWDER	0.00	3.50	5	Chlorophacinone	2	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	1.47	5	Diphacinone	2	NO	NO	NO
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	18.75	1	Difethialone	3	NO	NO	NO

Insecticides

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
73079-4	BORACTIN INSECTICIDE POWDER	2.01	1.91	153	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	2.97	92	Indoxacarb	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.08	2.80	87	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	2.99	81	Avermectin; Pyriproxyfen	3	NO	YES	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.06	15.38	73	Boric acid	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	0.11	0.00	46	Cyfluthrin, beta	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	1.48	43	Clothianidin; Pyriproxyfen	0	NO	NO	NO
432-763-62719	SUSPEND SC	0.23	0.00	35	Deltamethrin	3	NO	NO	NO
9688-255-8845	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	1.45	0.00	26	Deltamethrin; S-Bioallethrin	3	YES	NO	NO
73049-429	VECTOMAX FG	0.00	2.31	23	Bacillus sphaericus; Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	1.26	19	Dinotefuran	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.03	0.00	18	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	2.45	17	Boric acid	3	NO	NO	NO
397-13	STERI-FAB	4.63	0.00	14	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	4.37	10	Bacillus sphaericus	3	NO	NO	NO
101563-49	PRODUCT: RBF5	0.00	0.23	6	Fipronil	3	YES	NO	NO
9688-190	CHEMSICO WASP & HORNET KILLER LE	0.23	0.00	3	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	1.06	2	Methomyl; (Z)-9-Tricosene	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.06	2	Boric acid	3	NO	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	IARC Carcin
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.09	1	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.02	1	Boric acid	3	NO	NO	NO

Economic Development Corporation

The New York City Economic Development Corporation (NYCEDC) fosters inclusive economic development across all five boroughs by helping to lay the foundations of growth, advancing quality jobs across sectors and promoting access to opportunity. Through investments in community facilities, affordable housing, parks, open space, streetscapes, infrastructure and resiliency projects, NYCEDC works with local communities to create dynamic and accessible neighborhoods. NYCEDC is responsible for contracting for pest control, including rodent control, in publicly accessible open spaces within the lots of private buildings. Table 18 summarizes NYCEDC pesticide use by pesticide type. Table 19 lists all pesticide products used in 2022.

Table 18: Types of Pesticides Used by NYCEDC in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	34.30	100.0%	97	100.0%
Totals	0.00		34.30		97	

Table 19: Pesticide Products Used by NYCEDC in 2022 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	IARC Carcin
Rodenticides									
12455-89	FINAL ALL-WEATHER BLOX	0.00	21.52	68	Brodifacoum	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	12.74	29	Bromadiolone	3	NO	NO	NO

Education, Department of

The Department of Education (DOE) provides primary and secondary education to more than 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 approximately 20 in-house licensed pest management professionals who conduct monthly monitoring inspections and respond to pest problems for approximately 900 schools. DOE contracts with several pest management companies

to provide services for an additional 300 schools. NYS Department of Environmental Conservation (DEC) more strictly regulates pesticide use at schools. More information is available here: <https://www.dec.ny.gov/chemical/41822.html>. Table 20 summarizes DOE pesticide use by pesticide type. Table 21 lists all pesticide products used in 2022.

Table 20: Types of Pesticides Used by DOE in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	4,922.41	79.6%	9,326	33.2%
Insecticide	56.05	100.0%	1,261.58	20.4%	18,740	66.8%
Totals	56.05		6,183.99		28,066	

Table 21: Pesticide Products Used by DOE in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALON E PASTE PLACE PACKS	0.00	1714.32	7455	Difethialone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	396.04	751	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	998.75	494	Bromadiolone	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	9.93	402	Bromethalin	3	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	42.88	77	Bromadiolone	3	NO	NO	NO
7173-308	Chlorophacinone Soft Bait	0.00	65.00	74	Chlorophacinone	3	NO	NO	NO
12455-148	Rat Ice	0.00	1679.00	54	Carbon dioxide	2	NO	NO	NO
7969-382	Selontra Rodent Bait	0.00	16.12	18	Cholecalciferol	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	0.38	1	Chlorophacinone	2	NO	NO	NO
Insecticides									
64405-2	REDZONE BAIT	0.00	902.34	7569	Boric acid	3	NO	NO	NO
499-510	PRESCRIPTIO N TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	66.38	6892	Dinotefuran	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	29.27	1585	Disodium octaborate tetrahydrate	3	NO	NO	NO
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	191.98	904	Imidacloprid	3	NO	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	IARC Carcin
499-473	WHITMIRE MICRO-GEN TC 205 INJECTION SYSTEM	25.50	0.00	376	Cyhalothrin, lambda	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	6.42	259	Avermectin; Pyriproxyfen	3	NO	YES	NO
89459-84	RF2228 LH AEROSOL	8.96	1.13	245	Cyhalothrin, lambda; (7S)- Hydroprene	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	4.72	166	Clothianidin; Pyriproxyfen	0	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	2.95	154	Indoxacarb	3	NO	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	1.30	120	Imidacloprid	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	8.95	96	Indoxacarb	3	NO	NO	NO
499-294	AVERT PRESCRIPTIO N TREATMENT 310	0.00	0.85	66	Avermectin	3	NO	YES	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	10.05	57	Avermectin	3	NO	YES	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	20.06	48	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.74	33	Fipronil	3	YES	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	20.41	0.00	32	Imidacloprid; (Z)-9- Tricosene	3	NO	NO	NO
101563-47	MAXFORCE ROACH BAIT F.05	0.00	0.43	27	Fipronil	3	YES	NO	NO
2724-484	RF 9707 AEROSOL	1.09	2.00	26	(7S)-Hydroprene	3	NO	NO	NO
499-507	PRESCRIPTIO N TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.46	24	Dinotefuran	3	NO	NO	NO
499-550	TC-323	0.00	5.44	10	Prallethrin	3	NO	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	IARC Carcin
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	3.63	8	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
101563-93	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	0.50	8	Cyfluthrin	3	NO	NO	NO
499-561	TC-315	0.00	0.16	8	Dinotefuran	3	NO	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.00	0.88	6	Boric acid	3	NO	NO	NO
101563-46	MAXFORCE FC ANT BAIT STATIONS	0.00	0.05	5	Fipronil	3	YES	NO	NO
53883-335	N + P Regulator	0.03	0.00	4	Pyriproxyfen; Novaluron	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.00	0.14	3	Deltamethrin	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.05	0.00	2	(7S)-Hydroprene	3	NO	NO	NO
279-3443	D-FOAM INSECTICIDE	0.00	0.50	2	Deltamethrin	3	NO	NO	NO
101563-6	DELTA DUST	0.00	0.00	2	Deltamethrin	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.00	0.00	1	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.19	1	Dinotefuran; Diatomaceous earth	3	NO	NO	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.00	0.06	1	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO

Environmental Protection, Department of

The Department of Environmental Protection (DEP) has more than 1,700 facilities upstate and in NYC. 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 NYC. DEP contracts for some pest control services and employs approximately 10 licensed applicators for maintenance of roadways and other infrastructure in the watershed. Table 22 summarizes DEP pesticide use by pesticide type. Table 23 lists all pesticide products used in 2022.

Table 22: Types of Pesticides Used by DEP in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	116.20	57.1%	150	6.2%
Insecticide	6.70	60.9%	87.30	42.9%	2,243	92.3%
Herbicide	4.30	39.1%	0.00	0.0%	37	1.5%
Totals	11.00		203.50		2,430	

Table 23: Pesticide Products Used by DEP in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	107.30	127	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	4.13	11	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	1.77	6	Bromadiolone	3	NO	NO	NO
12455-132-3240	TOMCAT WITH BROMETHALIN BAIT CHUNX	0.00	2.75	4	Bromethalin	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	0.23	2	Bromethalin	3	NO	NO	NO
Insecticides									
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	7.25	1254	Dinotefuran	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.07	28.42	478	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	39.01	384	Boric acid	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	0.15	30	Disodium octaborate tetrahydrate	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	10.31	19	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.18	0.00	17	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	1.05	0.00	13	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.37	12	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.04	0.22	8	Indoxacarb	3	NO	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.23	0.00	4	Cyfluthrin	3	NO	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	IARC Carcin
4822-472	RAID MAX ROACH BAIT V	0.00	0.00	4	Avermectin	3	NO	YES	NO
89459-84	RF2228 LH AEROSOL	0.00	0.50	4	Cyhalothrin, lambda; (7S)-Hydroprene	3	NO	NO	NO
53883-118	BIFENTHRIN TC INSECTICIDE/TERMITICIDE	5.00	0.13	3	Bifenthrin	3	YES	NO	NO
499-550	TC-323	0.00	0.19	3	Prallethrin	3	NO	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.00	0.25	2	Boric acid	3	NO	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.01	2	Imidacloprid	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.08	0.00	1	Phenylethyl propionate	3	NO	NO	NO
397-13	STERI-FAB	0.02	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
149-8-64405	TERRO PCO LIQUID ANT BAIT	0.01	0.00	1	Borax	3	NO	NO	NO
499-496	PRESCRIPTION TREATMENT BRAND ADVANCE 360A DUAL CHOICE ANT BAIT STATIONS	0.00	0.00	1	Avermectin	3	NO	YES	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	0.50	1	Boric acid	3	NO	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.01	1	Dinotefuran	3	NO	NO	NO
Herbicides									
62719-556	ACCORD XRT II	3.57	0.00	33	Glyphosate, dimethylammonium salt	3	NO	NO	YES
7969-444	FINALE HERBICIDE	0.75	0.00	4	Glufosinate-ammonium	2	NO	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 control through the citywide contract administered by DCAS. Table 24 summarizes pesticide use by pesticide type. Table 25 lists all pesticide products used by DOF in 2022.

Table 24: Types of Pesticides Used by DOF in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	12.72	91.6%	20	30.8%
Insecticide	0.10	0.2%	1.16	8.4%	45	69.2%
Totals	0.10		13.88		65	

Table 25: Pesticide Products Used by DOF in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	12.30	18	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	0.42	2	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.88	37	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.29	5	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.08	0.00	1	Phenylethyl propionate	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.02	0.00	1	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.00	0.00	1	Deltamethrin	3	NO	NO	NO

Fire Department

The Fire Department of New York City (FDNY) is responsible for protection against fires and fire hazards, and providing emergency medical services, technical rescue and response to various biological, chemical and radioactive hazards. FDNY manages some 350 facilities throughout the City and contracts for pest control services. Table 26 summarizes FDNY pesticide use by pesticide type. Table 27 lists all pesticide products used in 2022.

Table 26: Types of Pesticides Used by FDNY in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1,210.63	93.9%	1,569	39.8%
Insecticide	9.70	100.0%	77.97	6.1%	2,378	60.2%
Totals	9.70		1,288.61		3,947	

Table 27: Pesticide Products Used by FDNY in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1144.5 1	1275	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	56.22	266	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	9.91	28	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.05	21.44	979	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.44	0.00	646	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	32.86	249	Boric acid	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	2.29	0.00	187	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	5.49	177	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	5.56	0.00	68	Phenylethyl propionate	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.06	15	Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.43	13	Avermectin; Pyriproxyfen	3	NO	YES	NO
499-550	TC-323	0.20	7.06	12	Prallethrin	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	0.00	12	(7S)-Hydroprene	3	NO	NO	NO
499-561	TC-315	0.00	0.06	5	Dinotefuran	3	NO	NO	NO
53883-335	N + P Regulator	0.04	0.00	4	Pyriproxyfen; Novaluron	3	NO	NO	NO
101563-14	DELTAGARD G INSECTICIDE GRANULE	0.00	0.12	3	Deltamethrin	3	NO	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	IARC Carcin
397-13	STERI-FAB	0.10	0.04	2	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.04	2	Indoxacarb	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	0.00	0.00	1	Cyfluthrin, beta	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	10.00	1	Indoxacarb	3	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.25	1	Prallethrin	3	NO	NO	NO
2724-490	RF 9910 AEROSOL	0.00	0.13	1	Phenothrin; Permethrin; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO

Health + Hospitals

New York City Health + Hospitals (H+H) is an \$8.5 billion integrated healthcare delivery system with its own 522,000-member health plan, MetroPlus, and is the largest municipal healthcare organization in the country. H+H serves 1.1 million New Yorkers every year and more than 382,000 are uninsured. H+H provides comprehensive medical, mental health and substance abuse services through its more than 70 locations including 11 acute care hospitals, five skilled nursing facilities, and six large diagnostic and treatment centers. H+H Health and Home Care also provides in-home services for New Yorkers. Pest control protocols differ among facilities because each is managed separately. A few facilities have pest control professionals on staff, but the majority rely on outside contractors. Table 28 summarizes H+H pesticide use by pesticide type. Table 29 lists products by pesticide types in 2022.

Table 28: Types of Pesticides Used by H+H in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	130.16	14.5%	265	7.5%
Insecticide	319.40	100.0%	766.18	85.5%	3,253	92.5%
Totals	319.40		896.34		3,518	

Table 29: Pesticide Products Used by H+H in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	128.60	262	Difethialone	3	NO	NO	NO
12455-149	F-Trac Soft Bait	0.00	1.57	3	Bromethalin	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	55.00	1372	Indoxacarb	3	NO	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	252.80	647	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	13.68	299	Indoxacarb	3	NO	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	190.90	0.00	281	Indoxacarb	3	NO	NO	NO
397-13	STERI-FAB	0.00	385.30	220	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	50.35	0.00	87	Cyhalothrin, lambda	3	NO	NO	NO
1677-43	STER-BAC	27.31	0.00	62	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO	NO
1021-1603	NYLAR 10EC	22.32	0.00	48	Pyriproxyfen	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	21.31	43	Boric acid	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	6.95	0.00	42	Cyfluthrin, beta	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	11.25	35	Disodium octaborate tetrahydrate	3	NO	NO	NO
101563-6	DELTA DUST	0.00	6.44	33	Deltamethrin	3	NO	NO	NO
101563-59	TEMPO 10 WP INSECTICIDE	10.61	0.00	32	Cyfluthrin, beta	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	5.50	16	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	1.70	0.00	15	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
499-561	TC-315	5.25	0.00	7	Dinotefuran	3	NO	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	IARC Carcin
47000-73-1677	SSI-50 INSECTICIDE	0.00	14.00	7	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
149-8-64405	TERRO PCO LIQUID ANT BAIT	0.00	0.63	3	Borax	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	0.02	2	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.25	1	Prallethrin	3	NO	NO	NO
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	0.01	1	Avermectin	3	NO	YES	NO

Health and Mental Hygiene, Department of

The Department of Health and Mental Hygiene (DOHMH) protects and promotes the health 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. VSC is charged with mosquito management and uses licensed pest management staff and outside contractors. PCS focuses on rodent control – performing inspections, cleanups and treatments of both private and public property. Currently, PCS employs approximately 40 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. 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 25 and 26. The Healthy Homes Program in the Bureau of Environmental Disease and Injury Prevention uses a private contractor to provide high quality pest control in the homes of children with asthma. Pest management in facilities operated by DOHMH is done through private contractors. ^{(b)(7)} Table 30 summarizes DOHMH pesticide use by pesticide type. Table 31 lists all pesticide products used in 2022.

Table 30 Types of Pesticides Used by DOHMH in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	24,123.67	33.1%	29,151	6.0%
Insecticide	500.87	100.0%	48,836.94	66.9%	452,782	94.0%
Totals	500.87		72,960.61		481,933	

Table 31 Pesticide Products Used by DOHMH in 2022 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	IARC Carcin
Rodenticides									
12455-90	FINAL RODENTICIDE	0.00	7324.26	12271	Brodifacoum	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	6966.65	10257	Bromadiolone	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	7451.55	1837	Difethialone	3	NO	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	602.97	1789	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	302.44	1149	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	82.48	487	Bromadiolone	3	NO	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	621.59	354	Brodifacoum	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	98.02	332	Brodifacoum	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	402.50	297	Difethialone	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	37.77	191	Bromethalin	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	232.50	186	Bromadiolone	3	NO	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	0.94	1	Bromadiolone	3	NO	NO	NO
Insecticides									
73049-429	VECTOMAX FG	0.00	13391.67	451892	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	13106.36	437	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	5.95	149	Indoxacarb	3	NO	NO	NO
1021-1795-8329	DUET DUAL-ACTION ADULTICIDE	344.07	0.00	63	Phenothrin; Piperonyl butoxide; Prallethrin	3	YES	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.56	0.00	40	Cyfluthrin, beta; Imidacloprid	3	NO	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	IARC Carcin
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	22300.00	34	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.08	0.00	27	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.63	26	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.97	26	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	2.04	0.00	24	Phenylethyl propionate	3	NO	NO	NO
1021-1688-8329	ANVIL 10+10 ULV	108.41	0.00	19	Phenothrin; Piperonyl butoxide	3	YES	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.35	16	Imidacloprid	3	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	26.63	10	Bacillus sphaericus	3	NO	NO	NO
8329-108	MERUS 3.0	45.55	0.00	9	Pyrethrins	0	YES	NO	NO
2724-490	RF 9910 AEROSOL	0.15	2.50	3	Phenothrin; Permethrin; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.11	3	Avermectin; Pyriproxyfen	3	NO	YES	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.00	0.00	2	(7S)-Hydroprene	3	NO	NO	NO
1021-2818	SUMILARV 0.5G SACHETS (WSP)	0.00	0.77	2	Pyriproxyfen	3	NO	NO	NO

Homeless Services, Department of

The Department of Homeless Services (DHS) manages homeless shelters and dormitory facilities across NYC. Of these, six are Family Services operated, five provide dormitory facilities for families with children, one facility – Preventative Assistance and Temporary Housing (PATH) – is an intake facility, and five adult facilities 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 32 summarizes DHS pesticide use by pesticide type. Table 33 lists all pesticide products used in 2022.

Table 32: Types of Pesticides Used by DHS in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1,804.20	98.3%	686	48.8%
Insecticide	4.30	100.0%	30.70	1.7%	721	51.2%
Totals	4.30		1,834.90		1,407	

Table 33: Pesticide Products Used by DHS in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1797.65	662	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	6.59	24	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	29.09	559	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.65	0.00	69	Deltamethrin	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	3.39	0.00	40	Phenylethyl propionate	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.27	0.00	20	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.76	18	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.82	7	Boric acid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.01	0.00	5	(7S)-Hydroprene	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.00	2	Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.04	1	Avermectin; Pyriproxyfen	3	NO	YES	NO

Housing Authority

The New York City Housing Authority (NYCHA) manages more than 2,200 residential buildings and more than 170,000 apartments, as well as office space and grounds that cover approximately 2,300 acres. NYCHA currently has a staff of more than 100 pest management professionals who perform routine inspections and treatments, carry out specialized intensive integrated pest management 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 rodents, cockroaches and bedbugs, and exterior rats, and weeds. Mosquito control and supplemental treatments are done by vendor services. Table 34

summarizes NYCHA pesticide use by pesticide type on NYCHA property. Table 35 lists the products used in 2022.

Table 34: Types of Pesticides Used by NYCHA in 2022

Pesticide Type	Volume*		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	24,563.45	92.7%	61,126	46.1%
Insecticide	420.14	100.0%	1,936.88	7.3%	71,376	53.9%
Totals	420.14		26,500.33		132,502	

Table 35: Pesticide Products Used by NYCHA in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	14561.59	45489	Difethialone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	278.27	8463	Diphacinone	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2521.63	2020	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	431.35	1877	Brodifacoum	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	4041.05	1362	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1172.57	677	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	188.20	589	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	133.18	410	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	1025.50	128	Carbon dioxide	2	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	9.08	37	Chlorophacino ne	2	NO	NO	NO
12455-90	FINAL RODENTICIDE	0.00	182.12	36	Brodifacoum	3	NO	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	5.81	20	Bromadiolone	3	NO	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	0.16	5	Brodifacoum	3	NO	NO	NO
87235-2-88689	BRIGAND WB WAX BLOCK RODENTICIDE	0.00	1.75	4	Bromadiolone	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	4.30	3	Bromethalin	3	NO	NO	NO
7969-382	Selontra Rodent Bait	0.00	2.16	3	Cholecalciferol	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	1.00	2	Bromethalin	3	NO	NO	NO
56-42	BAIT BLOCK RODENTIICDE WITH PEANUT BUTTER FLAVORIZ	0.00	3.75	1	Diphacinone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	534.00	25276	Indoxacarb	3	NO	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	IARC Carcin
101563-134	TEMPRID SC INSECTICIDE	2.25	0.00	6283	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	3.28	0.00	5624	Deltamethrin	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	65.23	5371	Clothianidin; Pyriproxyfen	0	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	60.41	5231	Avermectin; Pyriproxyfen	3	NO	YES	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	4.89	0.00	4887	(7S)-Hydroprene	3	NO	NO	NO
397-13	STERI-FAB	397.70	0.00	4165	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	6.75	0.00	4048	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	49.20	3162	Fipronil	3	YES	NO	NO
101563-49	PRODUCT: RBF5	0.00	32.46	2042	Fipronil	3	YES	NO	NO
101563-47	MAXFORCE ROACH BAIT F.05	0.00	31.13	1638	Fipronil	3	YES	NO	NO
53883-438	CSI 16-107G Indoxacarb Powder	0.00	12.10	796	Indoxacarb	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	232.62	574	Indoxacarb	3	NO	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.07	0.00	432	Cyfluthrin	3	NO	NO	NO
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	34.49	362	Emamectin, benzoate	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	51.14	222	Boric acid	3	NO	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	553.95	211	S-Methoprene	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	78.19	196	(7S)-Hydroprene	3	NO	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	50.13	172	Boric acid	3	NO	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	IARC Carcin
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	70.00	156	Deltamethrin	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	21.94	150	Avermectin	3	NO	YES	NO
73766-1	GOURMET ANT BAIT GEL	0.00	0.70	69	Disodium octaborate tetrahydrate	3	NO	NO	NO
101563-94	PRE-EMPT FLY BAIT	0.00	8.01	65	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.27	0.00	60	S-Methoprene	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	3.32	44	Indoxacarb	3	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	6.19	23	Boric acid	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.00	9.19	20	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.06	0.00	16	Esfenvalerate	3	NO	NO	NO
62577-12	ECOPCO ACU	1.59	0.00	14	Phenylethyl propionate	3	NO	NO	NO
499-550	TC-323	0.00	30.63	14	Prallethrin	3	NO	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	0.67	14	Clothianidin	0	NO	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	1.37	0.00	10	Cyfluthrin	3	NO	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	1.37	0.00	5	D-trans Allethrin; Phenothrin	3	YES	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.55	0.00	5	Phenylethyl propionate	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.00	0.00	4	Cyhalothrin, lambda	3	NO	NO	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	4	Cyhalothrin, lambda	3	NO	NO	NO
81824-12	BORATHOR GRANULAR SCATTER BAIT	0.00	1.00	4	Boric acid	3	NO	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.13	2	Dinotefuran	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.05	2	Indoxacarb	3	NO	NO	NO
499-561	TC-315	0.00	0.01	2	Dinotefuran	3	NO	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	IARC Carcin
241-392	PHANTOM TERMITICIDE- INSECTICIDE	0.00	0.00	1	Chlorfenapyr	3	YES	NO	NO

*NOTE: In some cases, the data reflect the amount of liquid insecticide when diluted with one gallon of water, not the amount of insecticide used during each application.

Housing Preservation and Development

Housing Preservation and Development (HPD) oversees occupied and vacant residential and commercial buildings, vacant lots, and a limited number of agency offices. In addition, its Emergency Repair Program occasionally encounters and responds to rats and fleas in occupied private buildings. HPD has no certified applicators on staff and contracts for pest management services. Table 36 summarizes HPD pesticide use by pesticide type. Table 37 lists all pesticide products used in 2022.

Table 36: Types of Pesticides Used by HPD in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	505.12	76.4%	2,384	37.0%
Insecticide	21.60	100.0%	155.62	23.6%	4,059	62.9%
Herbicide	0.01	0.0%	0.00	0.0%	5	0.1%
Totals	21.61		660.74		6,448	

Table 37: Pesticide Products Used by HPD in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	238.37	1174	Difethialone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	30.50	737	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	8.11	186	Bromadiolone	3	NO	NO	NO
12455-79	CONTRAC ALL- WEATHER BLOX	0.00	223.05	173	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	0.60	72	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	4.16	31	Diphacinone	2	NO	NO	NO
12455-95	FASTRAC ALL- WEATHER BLOX	0.00	0.28	10	Bromethalin	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	0.05	1	Bromethalin	3	NO	NO	NO
Insecticides									
8033-109-279	TRANSPORT (R) MIKRON INSECTICIDE	12.18	0.08	1253	Acetamiprid; Bifenthrin	3	YES	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	IARC Carcin
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.01	5.33	557	Avermectin; Pyriproxyfen	3	NO	YES	NO
1021-2796	MGK Formula 3113	0.09	4.75	431	Clothianidin; Pyriproxyfen	0	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	2.83	327	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	5.58	313	Indoxacarb	3	NO	NO	NO
1021-1641-57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.39	0.00	202	Esfenvalerate	3	NO	NO	NO
1021-2574	MGK FORMULA 2964	0.31	0.00	159	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO	NO
64405-2	REDZONE BAIT	0.00	60.26	123	Boric acid	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	24.00	123	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.27	0.00	93	Deltamethrin	3	NO	NO	NO
101563-49	PRODUCT: RBF5	0.00	0.80	88	Fipronil	3	YES	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	4.38	82	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
100-1218	DEMON MAX INSECTICIDE	0.16	0.00	73	Cypermethrin, beta	2	YES	NO	NO
89459-41	PRENTOX EXCITER	0.11	0.00	49	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	0.19	0.00	46	Bifenthrin	3	YES	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	9.20	38	Deltamethrin	3	NO	NO	NO
53883-92	CYPER TC INSECTICIDE	0.54	0.00	19	Cypermethrin, beta	3	YES	NO	NO
499-550	TC-323	0.00	5.97	19	Prallethrin	3	NO	NO	NO
2724-484	RF 9707 AEROSOL	0.00	3.77	18	(7S)-Hydroprene	3	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	0.04	0.00	15	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
1021-2569	MULTICIDE SPRAY 29511	0.00	1.56	4	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	0	YES	NO	NO
1021-2838	ULD BP-100 Contact Insecticide II	0.63	0.00	3	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.04	3	Avermectin	3	NO	YES	NO
499-557	Alpine WSG	0.00	0.01	3	Novaluron	3	NO	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	IARC Carcin
1021-1424	PYROCID FOGGING CONCENTRATE 7338	2.50	0.00	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.00	0.00	2	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.00	26.25	2	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
53883-308	CSI PY-PBO 6-60 CONCENTRATE	0.00	0.19	2	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
1021-2776	VBC3 INSECTICIDE	0.02	0.00	1	Clothianidin; Piperonyl butoxide; Metofluthrin (ISO)	0	YES	NO	NO
397-13	STERI-FAB	0.02	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.25	1	Prallethrin	3	NO	NO	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.00	0.25	1	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
101563-6	DELTA DUST	0.00	0.13	1	Deltamethrin	3	NO	NO	NO

Human Resources Administration

The New York City Human Resources Administration/Department of Social Services (HRA/DSS) provides temporary help to individuals and families with social service and economic needs to assist them in reaching self-sufficiency. HRA serves more than 3 million New Yorkers through essential and diverse programs and services. HRA/DSS has numerous offices and public service centers throughout the 5 boroughs. Table 38 summarizes HRA pesticide use by pesticide type. Table 39 lists the products used in 2022.

Table 38: Types of Pesticides Used by HRA in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	74.44	87.7%	77	14.7%

Insecticide	10.82	100.0%	10.43	12.3%	446	85.3%
Totals	10.82		84.87		523	

Table 39: Pesticide Products Used by HRA in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	72.91	64	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	1.53	13	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	9.46	199	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	10.35	0.00	182	Phenylethyl propionate	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.47	0.00	38	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.66	17	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.24	8	Boric acid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.07	1	Avermectin; Pyriproxyfen	3	NO	YES	NO
1021-2796	MGK Formula 3113	0.00	0.00	1	Clothianidin; Pyriproxyfen	0	NO	NO	NO

New York Public Libraries

The New York Public Library (NYPL), through its 85 branches libraries services residents in the boroughs of Manhattan, the Bronx and Staten Island. Pest management is provided by private contractors. No application data was provided by NYPL for 2022.

Parks and Recreation

New York City 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 more than 100 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.

DPR reports include pesticides applied on all city-owned golf courses. Local Law 37 exempts these locations from pesticide prohibitions. These tables also include data from sister organizations that operate on DPR property, such as zoos, conservancies, and botanic gardens. Table 40 summarizes pesticide use by pesticide type. Table 41 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 in 2022. Appendix 2 includes a complete product listing for DPR.

Table 40: Types of Pesticides Used by DPR in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.29	0.0%	6,698.30	17.0%	2,724	27.6%
Insecticide	331.37	5.2%	611.22	1.6%	4,852	49.1%
Herbicide	2,785.02	43.4%	24,703.53	62.8%	1,080	10.9%
Fungicide	3,201.76	49.9%	7,341.65	18.7%	1,186	12.0%
Other	96.00	1.5%	0.60	0.0%	41	0.4%
Totals	6,414.45		39,355.30		9,883	

Table 41: Ten Most Frequently Applied Pesticide Products by DPR in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	535.62	811	Difethialone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	580.06	494	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	4770.00	250	Carbon dioxide	2	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	74.06	241	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	95.62	178	Bromadiolone	3	NO	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	255.26	154	Difethialone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	210.56	127	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.04	4.49	120	Diphacinone	2	NO	NO	NO
12455-106	TERAD3 BLOX	0.00	23.45	107	Cholecalciferol	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	37.75	76	Bromadiolone	3	NO	NO	NO
Insecticides									
74578-12	TREE-AGE R10	29.00	0.00	3126	Emamectin, benzoate	2	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	18.34	565	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.15	2.95	317	Deltamethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.07	119	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.91	0.00	85	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
1021-1603	NYLAR 10EC	0.08	0.00	76	Pyriproxyfen	3	NO	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	IARC Carcin
64405-2	REDZONE BAIT	0.00	9.07	67	Boric acid	3	NO	NO	NO
48813-1-68539	SUFFOIL-X	6.80	0.00	27	Petroleum distillates	3	NO	NO	NO
432-1312-67760	GARANT T&O 2F	22.44	0.00	24	Imidacloprid	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	8.67	0.00	22	Cyfluthrin, beta	3	NO	NO	NO
Herbicides									
62719-527	GARLON 4 ULTRA	46.64	1.01	181	Triclopyr	2	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	2,154.42	0.00	116	Imazamox	3	NO	NO	NO
62719-176	PATHFINDER II	17.69	0.00	101	Triclopyr, butoxyethyl ester	3	NO	NO	NO
100-937	PRIMO MAXX	36.71	0.00	89	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	41.18	0.00	58	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	5.97	65.44	48	Trinexapac-ethyl	3	NO	NO	NO
524-579	ROUNDUP PROMAX	1.82	32.78	48	Glyphosate, potassium salt	3	NO	NO	YES
62719-542	DIMENSION 2EW	67.13	0.00	39	Dithiopyr	2	NO	NO	NO
62719-324	GLYPRO	3.62	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO	YES
228-741	NUP-16011 Herbicide	30.01	0.00	29	2,4-D, 2-ethylhexyl ester; Fluroxypyr 1-methylheptyl ester; Flumioxazin; Triclopyr, butoxyethyl ester	3	NO	NO	NO
Fungicides									
100-1364	DACONIL ACTION	685.04	5.00	92	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	87.19	87	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	7.08	560.83	82	Thiabendazole	3	YES	NO	NO
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	202.15	20.00	65	Propamocarb hydrochloride	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	48.79	0.00	56	Trinexapac-ethyl	3	NO	NO	NO
53883-323-86064	ARMOR TECH TMI 2020XL	157.95	0.00	53	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-1633	Secure Action	41.37	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	25	Mineral oil	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	3.30	806.00	23	Fosetyl-Al	3	NO	NO	NO
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	1143.06	23	Fosetyl-Al	3	NO	NO	NO

Other

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	25.00	0.00	25	Copper oxide (ous)	2	NO	NO	NO
59807-4	HORMODIN 1	0.00	0.60	9	IBA	3	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	6	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	71.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	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, nine Housing Police Service Areas, and other investigative and specialized units. The major pest issues facing its facilities are structural pests (in and around buildings) and are managed by private contractors as needed. Table 42 summarizes NYPD pesticide use by pesticide type. Table 43 lists all pesticide products used in 2022.

Table 42 Types of Pesticides Used by NYPD in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1,042.59	95.9%	1,243	44.5%
Insecticide	10.00	100.0%	44.68	4.1%	1,552	55.5%
Totals	10.00		1,087.27		2,795	

Table 43: Pesticide Products Used by NYPD in 2022 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	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	934.60	993	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	59.42	203	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	48.58	47	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	13.31	437	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.24	0.00	425	Deltamethrin	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	3.57	0.00	294	Cyfluthrin, beta; Imidacloprid	3	NO	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	IARC Carcin
64405-2	REDZONE BAIT	0.00	24.32	157	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.66	148	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	4.87	0.00	52	Phenylethyl propionate	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.05	0.00	17	(7S)-Hydroprene	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.05	11	Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.22	6	Avermectin; Pyriproxyfen	3	NO	YES	NO
499-550	TC-323	0.23	0.13	2	Prallethrin	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	2.00	2	Indoxacarb	3	NO	NO	NO
397-13	STERI-FAB	0.02	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO

Queens Public Libraries

The Queens Public Library (QPL) manages 64 libraries, as well as indoor, outdoor and office facilities. Contractors are hired for pest management as needed and the major pest infestations are roaches and mice. Table 44 summarizes QPL pesticide use by pesticide type. Table 45 lists all pesticide products used in 2022.

Table 44: Types of Pesticides Used by QPL in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	39.62	99.9%	119	93.7%
Insecticide	0.00	100.0%	0.04	0.1%	8	6.3%
Totals	0.00		39.66		127	

Table 45: Pesticide Products Used by QPL in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
12455-89	FINAL ALL-WEATHER BLOX	0.00	33.07	104	Brodifacoum	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	6.55	15	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.03	4	Indoxacarb	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.01	2	Indoxacarb	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	0.00	2	Clothianidin; Pyriproxyfen	0	NO	NO	NO

Sanitation, Department of

The Department of Sanitation (DSNY) manages garages, office buildings, transfer stations, and various publicly owned lots throughout the city. Because of the nature of the agency's work – managing garbage – pest problems are endemic at some facilities, so DSNY employs two certified pesticide applicators who make routine visits to facilities and respond to emergency calls. DSNY also contracts for weed control on some of the City's rights-of-way. Table 46 summarizes DSNY pesticide use by pesticide type. Table 47 lists the products used in 2022.

Table 46: Types of Pesticides Used by DSNY in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.38	8.4%	369.91	99.5%	466	29.2%
Insecticide	4.10	91.6%	1.73	0.5%	1,128	70.8%
Totals	4.48		371.64		1,594	

Table 47: List of Pesticides Applied by DSNY in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.38	201.55	264	Bromadiolone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	69.85	82	Brodifacoum	3	NO	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	64.96	76	Brodifacoum	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	22.75	27	Difethialone	3	NO	NO	NO
56-42-8254	EATON'S ALL-WEATHER BAIT	0.00	10.81	17	Diphacinone	3	NO	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	IARC Carcin
	BLOCKS RODENTICIDE WITH MOLASSES/PEA NUT BUTTE								
Insecticides									
100-1066	DEMAND CS INSECTICIDE	0.84	0.00	553	Cyhalothrin, lambda	3	NO	NO	NO
2724-351- 50809	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	1.49	0.00	374	(7S)-Hydroprene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.55	0.07	68	Avermectin; Pyriproxyfen	3	NO	YES	NO
73766-1	GOURMET ANT BAIT GEL	0.50	0.00	41	Disodium octaborate tetrahydrate	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.82	29	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.20	0.00	24	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
432-763- 62719	SUSPEND SC	0.13	0.00	22	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.25	12	Boric acid	3	NO	NO	NO
499-462	PRO-CONTROL FOGGER IV	0.38	0.00	2	Pyrethrins; Cyfluthrin; Piperonyl butoxide	3	YES	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.02	0.00	1	Phenylethyl propionate	3	NO	NO	NO
499-557	Alpine WSG	0.00	0.55	1	Novaluron	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.05	1	Indoxacarb	3	NO	NO	NO

Taxi and Limousine Commission

The Taxi and Limousine Commission (TLC) licenses and regulates more than 50,000 vehicles and approximately 100,000 drivers, performs safety and emissions inspections of the more than 13,000 medallion taxicabs three times each year, and holds numerous hearings for violations of City and TLC rules and regulations, making it the most active taxi and limousine licensing regulatory agency in the United States. The agency contracts for pest control through the citywide contract administered by DCAS. Table 48 summarizes pesticide use by pesticide type. Table 49 lists all pesticide products used by TLC in 2022.

Table 48: Types of Pesticides Used by TLC in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1.54	97.9%	3	42.9%

Insecticide	0.01	100.0%	0.03	2.1%	4	57.1%
Totals	0.01		1.58		7	

Table 49: Pesticide Products Used by TLC in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	1.54	3	Difethialone	3	NO	NO	NO
Insecticides									
101563-4	SUSPEND SC INSECTICIDE	0.01	0.00	3	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.03	1	Indoxacarb	3	NO	NO	NO

Transportation, Department of

The Department of Transportation (DOT) has a staff of more than 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 50 summarizes DOT pesticide use by pesticide type. Table 51 lists all pesticide products used in 2022.

Table 50: Types of Pesticides Used by DOT in 2022

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	428.63	97.9%	622	28.7%
Insecticide	2.30	1.1%	9.21	2.1%	483	22.3%
Herbicide	200.41	98.9%	0.00	0.0%	1,064	49.1%
Totals	202.71		437.85		2,169	

Table 51: Pesticide Products Used by DOT in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	377.33	492	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	50.42	124	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	0.88	6	Bromadiolone	3	NO	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	IARC Carcin
Insecticides									
101563-4	SUSPEND SC INSECTICIDE	0.58	0.00	186	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	2.89	136	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	1.05	0.00	93	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.88	23	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.35	15	Indoxacarb	3	NO	NO	NO
2724-375	ALTOSID BRIQUETS	0.00	3.93	14	S-Methoprene	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.30	0.00	6	Phenylethyl propionate	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.15	5	Avermectin; Pyriproxyfen	3	NO	YES	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.02	4	Imidacloprid	3	NO	NO	NO
499-550	TC-323	0.38	0.00	1	Prallethrin	3	NO	NO	NO
Herbicides									
101563-188	DUPONT VIEWPOINT HERBICIDE	9.06	0.00	285	Aminocyclopyrachlor; Imazapyr; Metsulfuron-methyl	3	NO	NO	NO
7969-443	DERRINGER HERBICIDE	61.07	0.00	263	Glufosinate-ammonium	2	NO	NO	NO
62719-519	MILESTONE	8.78	0.00	247	Aminopyralid, triisopropanolamine salt	3	NO	NO	NO
62719-176	PATHFINDER II	94.70	0.00	165	Triclopyr, butoxyethyl ester	3	NO	NO	NO
228-397	RIVERDALE VANQUISH HERBICIDE	13.16	0.00	45	Dicamba, diglycolamine salt	3	NO	NO	NO
101563-144	ESPLANADE 200 SC	2.52	0.00	24	Indaziflam	3	NO	NO	NO
53883-505	PRAMITOL 25E	7.13	0.00	22	Prometon	3	NO	NO	NO
62719-527	GARLON 4 ULTRA	3.99	0.00	13	Triclopyr	2	NO	NO	NO

APPENDIX 1: Complete Listing of Pesticide Products Used by New York City Agencies by Pesticide Type in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	38,558.46	62354	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	12,187.99	12481	Bromadiolone	3	NO	NO	NO
12455-90	FINAL RODENTICIDE	0.00	7,506.38	12307	Brodifacoum	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.04	288.95	8631	Diphacinone	2	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	873.95	3256	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	642.21	2385	Bromadiolone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	2,822.21	2359	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	560.91	2268	Brodifacoum	3	NO	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	602.97	1789	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,754.05	1245	Bromadiolone	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	52.28	599	Bromethalin	3	NO	NO	NO
12455-148	Rat Ice	0.00	7,474.50	432	Carbon dioxide	2	NO	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	621.65	355	Brodifacoum	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	443.06	313	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	415.25	304	Difethialone	3	NO	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.38	201.55	264	Bromadiolone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	125.19	256	Brodifacoum	3	NO	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	255.26	154	Difethialone	3	NO	NO	NO
12455-106	TERAD3 BLOX	0.00	23.45	107	Cholecalciferol	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	17.50	88	Chlorophacinone	2	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	43.11	87	Bromadiolone	3	NO	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	IARC Carcin
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	64.96	76	Brodifacoum	3	NO	NO	NO
7173-308	Chlorophacinone Soft Bait	0.00	65.00	74	Chlorophacinone	3	NO	NO	NO
61282-97-56	JT Eaton™ Answer® Kills Mice with Reusable Bait Station A	0.00	14.94	33	Bromethalin	3	NO	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	2.28	22	Bromethalin	3	NO	NO	NO
7969-382	Selontra Rodent Bait	0.00	18.28	21	Cholecalciferol	3	NO	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	6.75	21	Bromadiolone	3	NO	NO	NO
56-42-8254	EATON'S ALL-WEATHER BAIT BLOCKS RODENTICIDE WITH MOLASSES/PEANUT BUTTE	0.00	10.81	17	Diphacinone	3	NO	NO	NO
7173-238	GENERATION MEAL	0.00	25.00	15	Difethialone	3	NO	NO	NO
12455-61	LIQUA-TOX II	0.25	0.00	13	Diphacinone, sodium salt	3	NO	NO	NO
56-42	BAIT BLOCK RODENTIICDE WITH PEANUT BUTTER FLAVORIZ	0.00	12.75	12	Diphacinone	3	NO	NO	NO
87235-1-88689	EZ SOFT - SOFT BAIT RODENTICIDE	0.00	4.19	12	Bromadiolone	3	NO	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	8.50	8	Bromadiolone	3	NO	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	7.58	8	Difethialone	3	NO	NO	NO
87235-2-88689	BRIGAND WB WAX BLOCK RODENTICIDE	0.00	2.25	6	Bromadiolone	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	4.63	5	Bromethalin	3	NO	NO	NO
7173-172	ROZOL BLUE TRACKING POWDER	0.00	3.50	5	Chlorophacinone	2	NO	NO	NO
12455-108	FORMUS ALL-WEATHER BLOX	0.00	0.16	5	Brodifacoum	3	NO	NO	NO
12455-132-3240	TOMCAT WITH BROMETHALIN BAIT CHUNX	0.00	2.75	4	Bromethalin	3	NO	NO	NO
12455-149	F-Trac Soft Bait	0.00	1.57	3	Bromethalin	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	2.87	2	Diphacinone	3	NO	NO	NO
12455-16	ZP TRACKING POWDER	0.00	0.31	2	Zinc phosphide	1	NO	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	IARC Carcin
7173-211	GENERATION RODENTICIDE BAIT PACKS (PELLETS)	0.00	18.75	1	Difethialone	3	NO	NO	NO
Insecticides									
73049-429	VECTOMAX FG	0.00	13,393.98	451915	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.05	726.99	31675	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1,167.57	9046	Boric acid	3	NO	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	73.63	8146	Dinotefuran	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	9.20	31.51	8039	Deltamethrin	3	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	2.34	0.00	6317	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.56	76.51	6232	Avermectin; Pyriproxyfen	3	NO	YES	NO
1021-2796	MGK Formula 3113	0.09	76.19	6014	Clothianidin; Pyriproxyfen	0	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	21.09	0.00	5205	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	5.22	0.75	4950	(7S)-Hydroprene	3	NO	NO	NO
397-13	STERI-FAB	403.91	385.34	4408	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	49.93	3195	Fipronil	3	YES	NO	NO
74578-12	TREE-AGE R10	29.00	0.00	3126	Emamectin, benzoate	2	NO	NO	NO
101563-49	PRODUCT: RBF5	0.00	33.48	2136	Fipronil	3	YES	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.50	30.11	1725	Disodium octaborate tetrahydrate	3	NO	NO	NO
101563-47	MAXFORCE ROACH BAIT F.05	0.00	31.56	1665	Fipronil	3	YES	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.04	48.82	1546	Indoxacarb	3	NO	NO	NO
8033-109-279	TRANSPORT (R) MIKRON INSECTICIDE	12.18	0.08	1253	Acetamiprid; Bifenthrin	3	YES	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	IARC Carcin
73079-4	BORACTIN INSECTICIDE POWDER	2.01	305.34	973	Boric acid	3	NO	NO	NO
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	191.98	904	Imidacloprid	3	NO	NO	NO
53883-438	CSI 16-107G Indoxacarb Powder	0.00	12.10	796	Indoxacarb	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	242.42	702	Indoxacarb	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	51.20	0.00	645	Cyhalothrin, lambda	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	34.85	0.00	462	Phenylethyl propionate	3	NO	NO	NO
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	13,106.3 6	437	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.31	0.00	436	Cyfluthrin	3	NO	NO	NO
499-473	WHITMIRE MICRO-GEN TC 205 INJECTION SYSTEM	25.50	0.00	376	Cyhalothrin, lambda	3	NO	NO	NO
2724-351- 50809	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	1.49	0.00	374	(7S)-Hydroprene	3	NO	NO	NO
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	34.49	362	Emamectin, benzoate	3	NO	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	190.90	0.00	281	Indoxacarb	3	NO	NO	NO
89459-84	RF2228 LH AEROSOL	8.96	1.63	249	Cyhalothrin, lambda; (7S)- Hydroprene	3	NO	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	84.20	212	Deltamethrin	3	NO	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	553.95	211	S-Methoprene	3	NO	NO	NO
1021- 1641- 57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.40	0.00	204	Esfenvalerate	3	NO	NO	NO
2724-469	ZOECON (S)- HYDROPRENE ROACH CONTROL STATION II	0.05	78.19	199	(7S)-Hydroprene	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	22.34	179	Avermectin	3	NO	YES	NO
1021-2574	MGK FORMULA 2964	0.31	1.00	163	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	37.54	159	Bacillus thuringiensis subspecies Israelensis strain BMP 144	3	NO	NO	NO
101563- 119	BES 0026 FLY SPOT BAIT	20.49	38.24	141	Imidacloprid; (Z)- 9-Tricosene	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	27.63	131	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	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	IARC Carcin
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	1.39	131	Imidacloprid	3	NO	NO	NO
1021-1603	NYLAR 10EC	22.40	0.00	124	Pyriproxyfen	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	15.74	0.02	112	Cyfluthrin, beta	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.64	91	Imidacloprid	3	NO	NO	NO
53883-276	DELTA 4.75% SC	85.00	0.00	85	Deltamethrin	3	NO	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.06	16.50	81	Boric acid	3	NO	NO	NO
100-1218	DEMON MAX INSECTICIDE	0.16	0.00	73	Cypermethrin, beta	2	YES	NO	NO
499-550	TC-323	1.05	49.53	67	Prallethrin	3	NO	NO	NO
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	0.85	67	Avermectin	3	NO	YES	NO
101563-94	PRE-EMPT FLY BAIT	0.00	8.01	65	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-1795-8329	DUET DUAL-ACTION ADULTICIDE	344.07	0.00	63	Phenothrin; Piperonyl butoxide; Prallethrin	3	YES	NO	NO
1677-43	STER-BAC	27.31	0.00	62	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.27	0.00	60	S-Methoprene	3	NO	NO	NO
101563-6	DELTA DUST	0.00	7.03	59	Deltamethrin	3	NO	NO	NO
432-763-62719	SUSPEND SC	0.35	0.00	57	Deltamethrin	3	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	10.05	57	Avermectin	3	NO	YES	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	15.19	0.00	51	Bifenthrin	3	YES	NO	NO
2724-484	RF 9707 AEROSOL	1.09	11.02	50	(7S)-Hydroprene	3	NO	NO	NO
89459-41	PRENTOX EXCITER	0.11	0.00	49	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.07	0.21	46	Esfenvalerate	3	NO	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	1.86	46	Dinotefuran	3	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	8.64	40	Boric acid	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	11.25	35	Disodium octaborate tetrahydrate	3	NO	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	IARC Carcin
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	22,300.00	34	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
101563-59	TEMPO 10 WP INSECTICIDE	10.61	0.00	32	Cyfluthrin, beta	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	3.87	35.25	32	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
499-561	TC-315	5.25	0.27	29	Dinotefuran	3	NO	NO	NO
48813-1-68539	SUFFOIL-X	6.80	0.00	27	Petroleum distillates	3	NO	NO	NO
9688-255-8845	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	1.45	0.00	26	Deltamethrin; S-Bioallethrin	3	YES	NO	NO
432-1312-67760	GARANT T&O 2F	22.44	0.00	24	Imidacloprid	3	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	31.02	21	Bacillus sphaericus	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	20.70	21	Indoxacarb	3	NO	NO	NO
2724-375	ALTOSID BRIQUETS	0.00	5.89	21	S-Methoprene	3	NO	NO	NO
1021-1688-8329	ANVIL 10+10 ULV	108.41	0.00	19	Phenothrin; Piperonyl butoxide	3	YES	NO	NO
53883-92	CYPER TC INSECTICIDE	0.54	0.00	19	Cypermethrin, beta	3	YES	NO	NO
86203-11-59639	SAFARI 20SG INSECTICIDE	0.00	105.66	19	Dinotefuran	3	NO	NO	NO
70051-2-59807	TRIACT 70	3.61	0.00	17	Neem oil	3	NO	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.60	0.00	17	Potassium laurate	2	NO	NO	NO
53883-366	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	8.07	0.00	16	Bifenthrin	3	YES	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	0.75	16	Clothianidin	0	NO	NO	NO
53883-244-66222	QUALI-PRO LAMBDA GC-0	7.42	6.88	15	Cyhalothrin, lambda	2	NO	NO	NO
62577-12	ECOPCO ACU	1.59	0.13	15	Phenylethyl propionate	3	NO	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	3.17	0.00	14	Cyhalothrin, lambda	2	NO	NO	NO
70051-9-59807	AZATIN O BIOLOGICAL INSECTICIDE	0.42	0.00	14	Azadirachtin	3	NO	NO	NO
62719-523	BLACKHAWK	1.50	35.01	13	Spinosad	3	NO	NO	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.90	13	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.94	0.23	12	Indoxacarb	3	NO	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.12	0.00	12	Spinosad	3	NO	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	IARC Carcin
101563-60	MERIT 2F INSECTICIDE	23.82	0.00	10	Imidacloprid	3	NO	NO	NO
499-470	WHITMIRE MICRO-GEN TC 198	1.37	0.00	10	Cyfluthrin	3	NO	NO	NO
2724-793	RF2067-EW	0.14	0.00	10	(S)-Kinoprene	3	NO	NO	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	10	Cyhalothrin, lambda	3	NO	NO	NO
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.09	10	Fipronil	3	YES	NO	NO
8329-108	MERUS 3.0	45.55	0.00	9	Pyrethrins	0	YES	NO	NO
100-1551	Ference	5.70	0.00	9	Cyantraniliprole	0	NO	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	5.55	0.00	9	Cyhalothrin, lambda	3	NO	NO	NO
100-1489	DUPONT ACELEPRYN INSECTICIDE	18.26	0.00	8	DPX-E2Y45	0	NO	NO	NO
53883-335	N + P Regulator	0.08	0.00	8	Pyriproxyfen; Novaluron	3	NO	NO	NO
101563-93	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	0.50	8	Cyfluthrin	3	NO	NO	NO
53883-514	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	7.32	0.00	7	Imidacloprid	3	NO	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.59	0.00	7	Mineral oil	3	NO	NO	NO
71711-4-67690	SEPRO AKARI 5SC MITICIDE/INSECTICIDE	0.47	0.00	7	Fenpyroximate	2	NO	NO	NO
47000-73-1677	SSI-50 INSECTICIDE	0.00	14.00	7	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
69526-17	CIVITAS ONE	70.90	0.00	6	Mineral oil	3	NO	NO	NO
101563-130	SPIROTETRAMAT 240 SC GREENHOUSE AND NURSERY INSECTICIDE/MITICIDE	0.05	0.00	6	Spirotetramat	3	NO	NO	NO
100-1543	MAINSRING GH & N	0.04	0.00	6	Cyantraniliprole	0	NO	NO	NO
499-557	Alpine WSG	0.00	8.21	6	Novaluron	3	NO	NO	NO
85306-1	SELECT TCS	0.00	0.01	6	Fipronil	3	YES	NO	NO
74578-10	TREE-AGE G4	17.03	0.00	5	Emamectin, benzoate	3	NO	NO	NO
70506-150	IMIGOLD 2F TURF & ORNAMENTAL INSECTICIDE	12.69	0.00	5	Imidacloprid	3	NO	NO	NO
499-362	WHITMIRE PT 515 WASP FREEZE	1.37	0.00	5	D-trans Allethrin; Phenothrin	3	YES	NO	NO
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.27	0.00	5	Potassium laurate	2	NO	NO	NO
2724-490	RF 9910 AEROSOL	0.27	2.63	5	Phenothrin; Permethrin; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	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	IARC Carcin
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.15	0.00	5	Pyriproxyfen	3	NO	NO	NO
70506-537	FLORAMITE SC	0.02	0.00	5	Bifenazate	3	NO	NO	NO
101563-46	MAXFORCE FC ANT BAIT STATIONS	0.00	0.05	5	Fipronil	3	YES	NO	NO
89442-24	BIFEN G/N 7.9SC SELECT	2.44	0.00	4	Bifenthrin	3	YES	NO	NO
149-8-64405	TERRO PCO LIQUID ANT BAIT	0.01	0.63	4	Borax	3	NO	NO	NO
4822-472	RAID MAX ROACH BAIT V	0.00	0.00	4	Avermectin	3	NO	YES	NO
1021-2569	MULTICIDE SPRAY 29511	0.00	1.56	4	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	0	YES	NO	NO
81824-12	BORATHOR GRANULAR SCATTER BAIT	0.00	1.00	4	Boric acid	3	NO	NO	NO
101563-14	DELTAGARD G INSECTICIDE GRANULE	0.00	0.19	4	Deltamethrin	3	NO	NO	NO
432-1227-10404	LESCO SEVIN SL	16.19	0.00	3	Carbaryl	3	YES	YES	NO
5481-643	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	14.90	0.00	3	Trichlorfon	3	YES	NO	NO
53883-118	BIFENTHRIN TC INSECTICIDE/TERMITICIDE	5.00	0.13	3	Bifenthrin	3	YES	NO	NO
86869-5	LAMBDA SELECT	0.64	0.00	3	Cyhalothrin, lambda	2	NO	NO	NO
1021-2838	ULD BP-100 Contact Insecticide II	0.63	0.00	3	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
74779-17	RTSA 4% EMAMECTIN BENZOATE	0.58	0.00	3	Emamectin, benzoate	3	NO	NO	NO
55809-3	CRC WASP & HORNET KILLER PLUS	0.33	0.00	3	Tetramethrin; Phenothrin	3	YES	NO	NO
9688-190	CHEMSICO WASP & HORNET KILLER LE	0.23	0.00	3	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
101563-143	SUSPEND POLYZONE	0.02	0.06	3	Deltamethrin	3	NO	NO	NO
100-1636	Provaunt WDG	0.00	45.84	3	Indoxacarb	3	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.75	3	Prallethrin	3	NO	NO	NO
279-3443	D-FOAM INSECTICIDE	0.00	0.56	3	Deltamethrin	3	NO	NO	NO
83100-6-88975	PRIMERAONE IMIDACLOPRID 2F INSECTICIDE	5.50	0.00	2	Imidacloprid	3	NO	NO	NO
42750-115-86064	ARMORTECH IMD 2 F	5.00	0.00	2	Imidacloprid	3	NO	NO	NO
1021-1424	PYROCIDE FOGGING CONCENTRATE 7338	2.50	0.00	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	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	IARC Carcin
279-3457	TRIPLE CROWN GOLF INSECTICIDE	1.40	0.00	2	Bifenthrin; Cypermethrin, zeta; Imidacloprid	2	YES	NO	NO
499-462	PRO-CONTROL FOGGER IV	0.38	0.00	2	Pyrethrins; Cyfluthrin; Piperonyl butoxide	3	YES	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.03	0.00	2	Acetamiprid	3	NO	NO	NO
241-392	PHANTOM TERMITICIDE- INSECTICIDE	0.01	0.00	2	Chlorfenapyr	3	YES	NO	NO
2724-274	GOLDEN MALRIN RF-128 FLY KILLER	0.00	1.06	2	Methomyl; (Z)-9-Tricosene	3	NO	NO	NO
1021-2818	SUMILARV 0.5G SACHETS (WSP)	0.00	0.77	2	Pyriproxyfen	3	NO	NO	NO
82074-2	BOTANIGARD 22WP	0.00	0.69	2	Beauveria bassiana GHA	3	NO	NO	NO
1021-1767	MULTICIDE LICE & DUST MITE SPRAY 27911	0.00	0.31	2	Phenothrin; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
53883-308	CSI PY-PBO 6-60 CONCENTRATE	0.00	0.19	2	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
101563-199	TETRANILIPROLE 200 SC INSECTICIDE SOD FARM	0.00	0.02	2	Tetraniliprole	3	NO	NO	NO
499-500	PRESCRIPTION TREATMENT BRAND ADVANCE COMPRESSED TERMITE BAIT II	0.00	0.01	2	Diffubenzuron	3	NO	NO	NO
69526-5	PURESPRAY SPRAY OIL 10E	11.72	0.00	1	Mineral oil	3	NO	NO	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	5.00	0.00	1	Carbaryl	3	YES	YES	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICIDE	4.22	0.00	1	Bifenthrin	3	YES	NO	NO
1021-2834	ULD? BP-300 INSECTICIDE	2.00	0.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
1021-1177	PYROCIDE FOGGING CONCENTRATE 5628	2.00	0.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb	3	NO	NO	NO
279-3393	CB-80-1 FOR INSECT CONTROL	0.13	0.00	1	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
88760-1	TER-RTU1	0.03	0.00	1	Neem oil	3	NO	NO	NO
81880-29-10163	Sanmite SC Miticide Insecticide	0.02	0.00	1	Pyridaben	3	NO	NO	NO
1021-2776	VBC3 INSECTICIDE	0.02	0.00	1	Clothianidin; Piperonyl butoxide; Metofluthrin (ISO)	0	YES	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	IARC Carcin
59639-170-74779	TRANSTECT 70WSP INSECTICIDE	0.01	0.00	1	Dinotefuran	3	NO	NO	NO
499-496	PRESCRIPTION TREATMENT BRAND ADVANCE 360A DUAL CHOICE ANT BAIT STATIONS	0.00	0.00	1	Avermectin	3	NO	YES	NO
5481-641-432	Dylox 6.2 Granular Insecticide	0.00	330.00	1	Trichlorfon	3	YES	NO	NO
4822-596	RAID ANT & ROACH 26	0.00	2.00	1	Imiprothrin; Cypermethrin, beta	3	YES	NO	NO
53883-513	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	1.00	1	Imidacloprid	3	NO	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.19	1	Dinotefuran; Diatomaceous earth	3	NO	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.03	1	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.02	1	Boric acid	3	NO	NO	NO
Herbicides									
101563-188	DUPONT VIEWPOINT HERBICIDE	9.06	0.00	285	Aminocyclopyrach lor; Imazapyr; Metsulfuron- methyl	3	NO	NO	NO
62719-176	PATHFINDER II	112.38	0.00	266	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-519	MILESTONE	9.52	0.00	265	Aminopyralid, triisopropanolamin e salt	3	NO	NO	NO
7969-443	DERRINGER HERBICIDE	61.07	0.00	263	Glufosinate- ammonium	2	NO	NO	NO
62719-527	GARLON 4 ULTRA	50.63	1.01	194	Triclopyr	2	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	2,154.42	0.00	116	Imazamox	3	NO	NO	NO
100-937	PRIMO MAXX	36.71	0.00	89	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	41.18	0.00	58	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	5.97	65.44	48	Trinexapac-ethyl	3	NO	NO	NO
524-579	ROUNDUP PROMAX	1.82	32.78	48	Glyphosate, potassium salt	3	NO	NO	YES
228-397	RIVERDALE VANQUISH HERBICIDE	13.16	0.00	45	Dicamba, diglycolamine salt	3	NO	NO	NO
62719-542	DIMENSION 2EW	67.13	0.00	39	Dithiopyr	2	NO	NO	NO
62719-556	ACCORD XRT II	4.69	0.00	37	Glyphosate, dimethylammoniu m salt	3	NO	NO	YES

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin	IARC Carcin
62719-324	GLYPRO	3.62	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO	YES
228-741	NUP-16011 Herbicide	30.01	0.00	29	2,4-D, 2-ethylhexyl ester; Fluroxypyr 1-methylheptyl ester; Flumioxazin; Triclopyr, butoxyethyl ester	3	NO	NO	NO
101563-144	ESPLANADE 200 SC	2.52	0.00	24	Indaziflam	3	NO	NO	NO
1001-91	GWN-6010 PLANT GROWTH REGULATOR	0.19	61.02	24	Prohexadione calcium	3	NO	NO	NO
62719-687	VASTLAN	4.07	0.00	23	Triclopyr, Choline Salt	2	NO	NO	NO
228-743	NUP-18013	12.59	0.00	22	Glufosinate-ammonium	3	NO	NO	NO
53883-505	PRAMITOL 25E	7.13	0.00	22	Prometon	3	NO	NO	NO
100-1412	CLARELLE	8.61	0.00	19	Paclobutrazol	3	NO	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.05	7.31	17	Fenoxaprop-P (+)	3	NO	NO	NO
279-3265	F8426 HERBICIDE	2.50	0.00	16	Carfentrazone-ethyl	3	NO	NO	NO
7969-327	PYLEX HERBICIDE	0.77	0.00	16	Topramezone	3	NO	NO	NO
101563-40	PROXY GROWTH REGULATOR	91.46	0.00	14	Ethephon	1	NO	NO	NO
352-401	DUPONT OUST HERBICIDE	0.00	0.75	13	Sulfometuron methyl	3	NO	NO	NO
228-615	CLASH SELECTIVE HERBICIDE	5.60	18.66	12	Dicamba, diglycolamine salt	3	NO	NO	NO
67702-54-4	Fireworxx 80	9.02	12.78	10	Capric acid; Caprylic acid	3	NO	NO	NO
100-1267	TENACITY	0.51	0.00	10	Mesotrione	3	NO	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	8.61	0.00	9	Glyphosate, isopropylamine salt	3	NO	NO	YES
62719-560	EF-1343	1.65	0.00	9	Florasulam	3	NO	NO	NO
92967-1	AVENGER WEED KILLER CONCENTRATE	8.75	0.00	7	Limonene	3	NO	NO	NO
71368-114	Panther SC - Non-Crop Herbicide	0.30	0.00	7	Flumioxazin	0	NO	NO	NO
66222-151	ETHEPHON 2SL	32.90	0.00	6	Ethephon	1	NO	NO	NO
7969-272	DRIVE XLR8 HERBICIDE	20.16	0.00	6	Quinclorac	3	NO	NO	NO

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62719-92	CONFRONT	9.02	0.00	5	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO	NO
100-1014	PACLOBUTRAZOL 2SC	4.13	0.00	5	Paclobutrazol	3	NO	NO	NO
81880-1-10163	SEDGEHAMMER	0.90	0.98	5	Halosulfuron-methyl	3	NO	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.05	0.00	5	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO	NO
100-1214	BICEP II MAGNUM MANUFACTURING USE PRODUCT	0.01	0.00	5	Atrazine; Metolachlor, (S)	3	YES	YES	NO
70506-404	BOLL-SET	19.50	0.00	4	Gibberellins; IBA	3	NO	NO	NO
1381-253	ASCEND SL	6.61	0.00	4	Gibberellins; IBA; Cytokinin	3	NO	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	3.19	0.00	4	Clopyralid	3	NO	NO	NO
7969-444	FINALE HERBICIDE	0.75	0.00	4	Glufosinate-ammonium	2	NO	NO	NO
2217-833	SPEED ZONE BROADLEAF HERBICIDE	30.23	0.00	3	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO	NO
53883-379	QUALI-PRO PRODIAMINE 4L	19.78	0.00	3	Prodiamine	3	YES	NO	NO
70299-23	AXXE BROAD SPECTRUM HERBICIDE	0.95	0.00	3	Nonanoic acid, ammonium salt	2	NO	NO	NO
53883-373	QUALI-PRO T-NEX 1 AQ	0.67	0.00	3	Trinexapac-ethyl	3	NO	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	24.00	0.00	2	Bensulide	3	NO	NO	NO
100-1139	BARRICADE 4FL	17.77	0.00	2	Prodiamine	3	YES	NO	NO
85208-1-93489	GREEN GOBBLER 20% VINEGAR WEED KILLER	10.00	0.00	2	Acetic acid	1	NO	NO	NO
14774-2	STRIKE 3	5.30	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCPP-P, dimethylamine salt	1	NO	NO	NO
228-744	Q-BALL HERBICIDE	1.87	0.00	2	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
62719-566	TURFLON ESTER ULTRA	0.02	0.00	2	Triclopyr, butoxyethyl ester	3	NO	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	IARC Carcin
84009-27	GLYPHOSATE 41% SUPER CONCENTRATE HERBICIDE	0.01	0.00	2	Glyphosate, isopropylamine salt	2	NO	NO	YES
961-362	LEBANON FERTILIZER WITH BARRICADE (0.43%) PREEMERGENCE WEED CONTROL (0.00	9,000.00	2	Prodiamine	3	YES	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	575.00	2	Dithiopyr	3	NO	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	0.00	9.38	2	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO	YES
53883-399	Quali Pro Dithiopyr L	5.25	0.00	1	Dithiopyr	2	NO	NO	NO
228-312	TRIPLET SF	4.00	0.00	1	Dicamba, dimethylamine salt; 2,4-D, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
7969-398	Segment II Herbicide	2.87	0.00	1	Sethoxydim	2	NO	NO	NO
53883-336	QUINCLORAC 1.5 L	0.88	0.00	1	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
86064-5	ARMORTECH (R) THREESOME(TM)	0.69	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	0.54	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
239-2491	ORTHO BRUSH-B-GON BRUSH KILLER	0.01	0.00	1	Triclopyr, triethylamine salt	3	NO	NO	NO
62719-504-91636	SYNA TEK DIMENSION 0.15% PLUS FERTILIZER	0.00	8,000.00	1	Dithiopyr	3	NO	NO	NO
10404-86	LESCO DIMENSION 0.15% PLUS FERTILIZER	0.00	4,000.00	1	Dithiopyr	3	NO	NO	NO
9198-154	THE ANDERSONS FERTILIZER WITH .125% DIMENSION(R) AND 1.0% RONSTAR(R)	0.00	1,500.00	1	Dithiopyr; Oxadiazon	3	YES	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	IARC Carcin
62719-486-534	GREEN YARD CRABGRASS PREVENTER WITH 0.1% DIMENSION	0.00	1,050.00	1	Dithiopyr	3	NO	NO	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	340.00	1	Bensulide; Oxadiazon	2	YES	YES	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	19.69	1	Dithiopyr	3	NO	NO	NO
53883-374	QUALI-PRO DITHIOPYR 40 WSB	0.00	8.75	1	Dithiopyr	3	NO	NO	NO
Fungicides									
100-1364	DACONIL ACTION	685.04	5.00	92	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	87.19	87	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	7.08	560.83	82	Thiabendazole	3	YES	NO	NO
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	202.15	20.00	65	Propamocarb hydrochloride	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	48.79	0.00	56	Trinexapac-ethyl	3	NO	NO	NO
53883-323-86064	ARMOR TECH TMI 2020XL	157.95	0.00	53	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-1633	Secure Action	41.37	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	25	Mineral oil	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	3.30	806.00	23	Fosetyl-Al	3	NO	NO	NO
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	1,143.06	23	Fosetyl-Al	3	NO	NO	NO
70506-262	PEGASUS 6L	299.05	0.00	21	Chlorothalonil	2	YES	NO	YES
101563-113	TARTAN FLO FUNGICIDE	77.01	9.06	21	Triadimefon; Trifloxystrobin	3	YES	YES	NO
432-1505	CHIPCO 26019T FUNGICIDE	120.28	0.00	20	Iprodione; Trifloxystrobin	3	YES	NO	NO
53883-433	QUALI-PRO MEFENOXAM 2AQ	17.20	26.56	20	Mefenoxam	2	NO	NO	NO
66222-117	ORIOUS 3.6F	28.50	3.75	18	Tebuconazole	3	YES	NO	NO
70870-1-68539	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	0.53	18	Potassium bicarbonate	3	NO	NO	NO
264-1155	RHAPSODY AS0	225.00	0.00	17	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
101563-112	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	28.90	0.00	17	Triadimefon	3	YES	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	IARC Carcin
66222-117-86064	ARMOR TECH TEB360 XL	34.58	0.00	16	Tebuconazole	3	YES	NO	NO
71512-13-2217	SEGWAY FUNGICIDE	14.75	0.00	16	Cyazofamid	3	NO	NO	NO
60063-7-10404	LESCO MANICRUE 6FL	104.38	0.00	15	Chlorothalonil	2	YES	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	98.02	8.75	13	Iprodione	3	YES	NO	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	62.22	0.00	13	Thiophanate-methyl	3	YES	YES	NO
7969-404	Maxtima Fungicide	9.67	0.00	13	Mefentrifluconazole	3	NO	NO	NO
68173-3-1001	AFFIRM WDG	2.54	107.50	13	Polyoxin D zinc salt	3	NO	NO	NO
70506-272	PEGASUS DFX	0.00	1,014.50	13	Chlorothalonil	1	YES	NO	YES
86064-1	ARMORTECH CLT 825 DF	0.00	342.00	13	Chlorothalonil	2	YES	NO	YES
7969-349	Xzemplar Fungicide	8.92	0.00	12	Fluxapyroxad	3	NO	NO	NO
59639-144	V-10116 VPP FUNGICIDE	1.00	114.31	12	Metconazole	3	NO	NO	NO
432-890-10404	LESCO PRODIGY SIGNATURE	0.00	355.00	12	Fosetyl-Al	3	NO	NO	NO
53883-343	AZOXYSTROBIN 50 WG	0.00	5.90	12	Azoxystrobin	3	NO	NO	NO
86064-4	ARMOR TECH PPZ 143 MC	75.43	18.13	10	Propiconazole	2	YES	NO	NO
86064-6	ArmorTech ZOXY 2F	27.13	0.00	10	Azoxystrobin	3	NO	NO	NO
101563-152	TEBUCONAZOLE SC TURF AND ORNAMENTAL FUNGICIDE	19.53	11.00	10	Tebuconazole	3	YES	NO	NO
100-1433	BRISKWAY	14.47	0.00	10	Azoxystrobin; Difenconazole	3	YES	NO	NO
42750-99	TEBUCONAZOLE 3.6FL	40.76	0.00	9	Tebuconazole	3	YES	NO	NO
89442-28	IPRODIONE 2F SELECT	39.38	0.00	9	Iprodione	3	YES	NO	NO
100-1326	BANNER MAXX II	18.53	0.00	9	Propiconazole	3	YES	NO	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	11.32	0.00	9	Propiconazole	2	YES	NO	NO
432-888-10404	LESCO 18 PLUS TURF & ORNAMENTAL FUNGICIDE	44.48	0.00	8	Iprodione	3	YES	NO	NO
70299-12	ZEROTOL 2.0	5.96	0.00	8	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO	NO
91234-199-86064	CYA 345	4.86	0.00	8	Cyazofamid	3	NO	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	IARC Carcin
7969-350	LEXICON INTRINSIC BRAND FUNGICIDE	4.46	2.63	8	Fluxapyroxad; Pyraclostrobin	3	NO	NO	NO
67690-77	ZIO	0.00	55.00	8	Pseudomonas chlororaphis strain AFS009	3	NO	NO	NO
228-623-10404	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	12.38	0.00	7	Propiconazole	2	YES	NO	NO
100-1550	HERITAGE ACTION	0.32	6.50	7	Acibenzolar-S-methyl; Azoxystrobin	3	NO	NO	NO
83170-1	DUTCH TRIG	0.09	0.00	7	Verticillium dahliae isolate WCS 850	3	NO	NO	NO
1001-69	3336 F	10.27	0.00	6	Thiophanate-methyl	3	YES	YES	NO
67702-2-59807	Grotto	9.67	0.00	6	Copper octanoate	3	NO	NO	NO
89442-21	AZOXY 2SC SELECT	3.88	6.88	6	Azoxystrobin	3	NO	NO	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	2.51	7.70	6	Pyraclostrobin	2	NO	NO	NO
53883-313	QUALI-PRO CHLOROTHALONIL DF	0.00	405.50	6	Chlorothalonil	2	YES	NO	YES
89442-14	THIOPHANATE METHYL 4.5F SELECT	41.02	0.00	5	Thiophanate-methyl	3	YES	YES	NO
228-737	NUP-15013 Fungicide	11.79	9.06	5	Fluazinam	3	YES	NO	NO
89442-3	PPZ 41.8 SELECT	9.94	0.00	5	Propiconazole	2	YES	NO	NO
42750-211	PROPICONAZOLE 41.8% EC	7.73	0.00	5	Propiconazole	2	YES	NO	NO
53883-454-10404	LESCO Drax Fungicide	2.67	0.00	5	Fluazinam	3	YES	NO	NO
66222-134	THIOPHANATE METHYL 4.5 F	59.19	12.50	4	Thiophanate-methyl	3	YES	YES	NO
228-739	NUP-15014 Fungicide	27.22	0.00	4	Tebuconazole; Fluazinam	3	YES	NO	NO
50534-221-100	DACONIL WEATHER STIK ZN FLOWABLE FUNGICIDE	20.00	0.00	4	Chlorothalonil	2	YES	NO	YES
100-1654	A22070 Fungicide	12.88	0.00	4	Azoxystrobin; Propiconazole	2	YES	NO	NO
89442-37	Fluazinam 40SC Select	8.11	0.00	4	Fluazinam	3	YES	NO	NO
100-1477	Ascernity	5.00	0.00	4	Difenoconazole	3	YES	NO	NO
100-796	SUBDUE MAXX	0.83	0.00	4	Mefenoxam	3	NO	NO	NO
42750-261-53883	STROBE 2L	0.73	0.00	4	Azoxystrobin	3	NO	NO	NO
70299-15	GC PRO	0.00	779.00	4	Sodium percarbonate	1	NO	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	IARC Carcin
7969-196	EMERALD FUNGICIDE	0.00	39.60	4	Nicobifen	2	YES	NO	NO
100-1347	CONCERT II	30.25	0.00	3	Chlorothalonil; Propiconazole	1	YES	NO	YES
89442-41	AzProp Select	17.00	0.00	3	Propiconazole; Azoxystrobin	3	YES	NO	NO
89442-1	TEBUCONAZOLE 3.6 SELECT	13.50	0.00	3	Tebuconazole	3	YES	NO	NO
42750-292	AZOXY 11% + TEB 26% FL	9.00	0.00	3	Azoxystrobin; Tebuconazole	3	YES	NO	NO
100-1216	BANNER HERITAGE MAXX	6.25	0.00	3	Azoxystrobin; Propiconazole	3	YES	NO	NO
100-1600	A19649 200SC Turf	5.06	0.00	3	Pydiflumetofen	3	NO	NO	NO
264-1155- 68539	CEASE	4.35	0.00	3	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
7969-255	HONOR FUNGICIDE	0.69	37.14	3	Nicobifen; Pyraclostrobin	3	YES	NO	NO
961-277	LEBANON TURF FUNGICIDE CONTAINS DACONIL	0.00	860.00	3	Chlorothalonil	3	YES	NO	YES
62719- 402-10404	LESCO MANCOZEB DG TURF AND ORNAMENTAL FUNGICIDE	0.00	144.00	3	Mancozeb	3	YES	NO	NO
50534- 202-100	MANICURE ULTREX TURF & ORNAMENTAL	0.00	124.40	3	Chlorothalonil	1	YES	NO	YES
53883-310	QUALI-PRO CHLOROTHALONIL 720 SFT	0.00	60.00	3	Chlorothalonil	2	YES	NO	YES
70506-187	MICROTHIOL DISPERS	0.00	55.00	3	Sulfur	3	NO	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	10.55	3	Azoxystrobin	3	NO	NO	NO
432-1223	PROSTAR 70 WP	0.00	3.13	3	Flutolanil	3	NO	NO	NO
50534- 211-100	DACONIL ZN FLOWABLE FUNGICIDE	12.00	0.00	2	Chlorothalonil	2	YES	NO	YES
81803-6- 52287	JET- AG	12.00	0.00	2	Hydrogen peroxide; Peroxyacetic acid	1	NO	NO	NO
89442-46	FluazTeb Select	10.56	0.00	2	Fluazinam; Tebuconazole	3	YES	NO	NO
50534- 209-100	MANICURE 6 FLOWABLE	9.33	0.00	2	Chlorothalonil	3	YES	NO	YES
228-626- 52287	NUFARM T-METHYL SPC 4.5 F FUNGICIDE	8.28	0.00	2	Thiophanate- methyl	3	YES	YES	NO
83100-1- 83979	OFFSET 3.6F FUNGICIDE	7.59	0.00	2	Tebuconazole	3	YES	NO	NO
83070-8	ADVAN PROPAMOCARB	3.17	0.00	2	Propamocarb hydrochloride	3	NO	NO	NO
228-630- 10404	LESCO TWOSOME FUNGICIDE	3.06	0.00	2	Iprodione; Thiophanate- methyl	3	YES	YES	NO
228-652	NUFARM T-METHYL 4.5 F Fungicide	2.75	0.00	2	Thiophanate- methyl	3	YES	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	IARC Carcin
93051-4	Rightline Azox 2 SC	1.88	0.00	2	Azoxystrobin	3	NO	NO	NO
73806-1	K-PHITE 7LP Fungicide	1.50	0.00	2	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
71512-13-279	SEGWAY FUNGICIDE	1.09	0.00	2	Cyazofamid	3	NO	NO	NO
53883-477	CSI 19-349 Fludioxonil	1.03	0.00	2	Fludioxonil	3	NO	NO	NO
91234-199	A275.02	1.02	0.00	2	Cyazofamid	3	NO	NO	NO
71512-20-100	SECURE	0.78	0.00	2	Fluazinam	2	YES	NO	NO
69526-5-499	PRESCRIPTION TREATMENT BRAND ULTRA-PURE OIL (WIDESCRIPTRO, HORTICULTUR	0.00	0.00	2	Mineral oil	3	NO	NO	NO
60063-3	ECHO 825	0.00	40.00	2	Chlorothalonil	2	YES	NO	YES
464-693-63288	CHEMICAR 15	65.00	0.00	1	Glutaraldehyde	1	NO	NO	NO
86064-9	ArmorTech TM 462 F	12.00	0.00	1	Thiophanate-methyl	3	YES	YES	NO
100-1231	INSTRATA	10.00	0.00	1	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO	YES
228-630-86064	ArmorTech TMI 2020 FLO	10.00	0.00	1	Thiophanate-methyl; Iprodione	3	YES	YES	NO
101563-148	ES TC006A	8.30	0.00	1	Mono- and di-potassium salts of phosphorous acid	0	NO	NO	NO
70051-107-59807	TRIATHLON BA	2.63	0.00	1	Bacillus subtilis var. amyloliquefaciens strain D747	0	NO	NO	NO
42750-252	PROPICONAZOLE 1.3 ME	1.17	0.00	1	Propiconazole	2	YES	NO	NO
7969-403	NAVICON INTRINSIC BRAND FUNGICIDE	1.16	0.00	1	Pyraclostrobin; Mefentrifluconazole	3	NO	NO	NO
100-1448	MEDALLION SC	1.03	0.00	1	Fludioxonil	3	NO	NO	NO
89442-16	METALAXYL 4L SELECT	1.00	0.00	1	Metalaxyl	3	NO	NO	NO
84059-3	REGALIA BIOPROTECTANT CONCENTRATE	1.00	0.00	1	Reynoutria sachalinensis	3	NO	NO	NO
7969-184	Insignia Fungicide	0.97	0.00	1	Pyraclostrobin	3	NO	NO	NO
53883-454	CSI 18-257 Fluazinam	0.17	0.00	1	Fluazinam	3	YES	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	0.00	20.00	1	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	3	YES	YES	YES
53883-363	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	0.00	15.63	1	Propiconazole	3	YES	NO	NO
100-1191	HERITAGE MAXX	0.00	8.00	1	Azoxystrobin	3	NO	NO	NO
101563-91	COMPASS	0.00	0.38	1	Trifloxystrobin	3	NO	NO	NO
Other (Repellents, Biochemical Pesticides, Etc.)									

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox. Cat.	EPA Carcin	CA Dev. Toxin	IARC Carcin
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	25.00	0.00	25	Copper oxide (ous)	2	NO	NO	NO
59807-4	HORMODIN 1	0.00	0.60	9	IBA	3	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	6	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	71.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	NO	NO

APPENDIX 2: Complete Listing of Pesticide Products Used by the Department of Parks and Recreation in 2022

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
Rodenticides									
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	535.62	811	Difethialone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	580.06	494	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	4770.00	250	Carbon dioxide	2	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	74.06	241	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	95.62	178	Bromadiolone	3	NO	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	255.26	154	Difethialone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	210.56	127	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.04	4.49	120	Diphacinone	2	NO	NO	NO
12455-106	TERAD3 BLOX	0.00	23.45	107	Cholecalciferol	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	37.75	76	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	31.54	59	Brodifacoum	3	NO	NO	NO
61282-97-56	JT Eaton™ Answer® Kills Mice with Reusable Bait Station A	0.00	14.94	33	Bromethalin	3	NO	NO	NO
7173-238	GENERATION MEAL	0.00	25.00	15	Difethialone	3	NO	NO	NO
12455-61	LIQUA-TOX II	0.25	0.00	13	Diphacinone, sodium salt	3	NO	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	2.00	12	Bromethalin	3	NO	NO	NO
7173-188	MAKI RAT AND MOUSE BAIT PACKS (PELLETS)	0.00	8.50	8	Bromadiolone	3	NO	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	7.58	8	Difethialone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	12.50	6	Difethialone	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	3.63	3	Bromethalin	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	2.87	2	Diphacinone	3	NO	NO	NO
87235-2-88689	BRIGAND WB WAX BLOCK RODENTICIDE	0.00	0.50	2	Bromadiolone	3	NO	NO	NO
12455-16	ZP TRACKING POWDER	0.00	0.31	2	Zinc phosphide	1	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	1.50	1	Diphacinone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	0.50	1	Brodifacoum	3	NO	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	0.06	1	Brodifacoum	3	NO	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	IARC Carcin
Insecticides									
74578-12	TREE-AGE R10	29.00	0.00	3126	Emamectin, benzoate	2	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	18.34	565	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.15	2.95	317	Deltamethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.07	119	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.91	0.00	85	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
1021-1603	NYLAR 10EC	0.08	0.00	76	Pyriproxyfen	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	9.07	67	Boric acid	3	NO	NO	NO
48813-1-68539	SUFFOIL-X	6.80	0.00	27	Petroleum distillates	3	NO	NO	NO
432-1312-67760	GARANT T&O 2F	22.44	0.00	24	Imidacloprid	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	8.67	0.00	22	Cyfluthrin, beta	3	NO	NO	NO
101563-6	DELTA DUST	0.00	0.21	21	Deltamethrin	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	2.81	35.25	19	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
86203-11-59639	SAFARI 20SG INSECTICIDE	0.00	105.66	19	Dinotefuran	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.22	0.75	18	(7S)-Hydroprene	3	NO	NO	NO
70051-2-59807	TRIACT 70	3.61	0.00	17	Neem oil	3	NO	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGI CIDE	0.60	0.00	17	Potassium laurate	2	NO	NO	NO
53883-366	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	8.07	0.00	16	Bifenthrin	3	YES	NO	NO
53883-244-66222	QUALI-PRO LAMBDA GC-0	7.42	6.88	15	Cyhalothrin, lambda	2	NO	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	3.17	0.00	14	Cyhalothrin, lambda	2	NO	NO	NO
70051-9-59807	AZATIN O BIOLOGICAL INSECTICIDE	0.42	0.00	14	Azadirachtin	3	NO	NO	NO
62719-523	BLACKHAWK	1.50	35.01	13	Spinosad	3	NO	NO	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0	1.90	13	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0	0.00	12	Spinosad	3	NO	NO	NO
101563-60	MERIT 2F INSECTICIDE	24	0.00	10	Imidacloprid	3	NO	NO	NO
2724-793	RF2067-EW	0	0.00	10	(S)-Kinoprene	3	NO	NO	NO
100-1551	Ference	6	0.00	9	Cyantraniliprole	0	NO	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	5.55	0.00	9	Cyhalothrin, lambda	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.74	0.00	9	Phenylethyl propionate	3	NO	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	IARC Carcin
100-1489	DUPONT ACELEPRYN INSECTICIDE	18.26	0.00	8	DPX-E2Y45	0	NO	NO	NO
53883-514	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	7.32	0.00	7	Imidacloprid	3	NO	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.59	0.00	7	Mineral oil	3	NO	NO	NO
71711-4-67690	SEPRO AKARI 5SC MITICIDE/INSECTICIDE	0.47	0.00	7	Fenpyroximate	2	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	2.69	7	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
2724-375	ALTOSID BRIQUETS	0.00	1.96	7	S-Methoprene	3	NO	NO	NO
69526-17	CIVITAS ONE	70.90	0.00	6	Mineral oil	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.94	0.15	6	Indoxacarb	3	NO	NO	NO
101563-130	SPIROTETRAMAT 240 SC GREENHOUSE AND NURSERY INSECTICIDE/MITICIDE	0.05	0.00	6	Spirotetramat	3	NO	NO	NO
100-1543	MAINSRING GH & N	0.04	0.00	6	Cyantraniliprole	0	NO	NO	NO
2724-484	RF 9707 AEROSOL	0.00	5.25	6	(7S)-Hydroprene	3	NO	NO	NO
85306-1	SELECT TCS	0.00	0.01	6	Fipronil	3	YES	NO	NO
74578-10	TREE-AGE G4	17.03	0.00	5	Emamectin, benzoate	3	NO	NO	NO
70506-150	IMIGOLD 2F TURF & ORNAMENTAL INSECTICIDE	12.69	0.00	5	Imidacloprid	3	NO	NO	NO
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.27	0.00	5	Potassium laurate	2	NO	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.15	0.00	5	Pyriproxyfen	3	NO	NO	NO
70506-537	FLORAMITE SC	0.02	0.00	5	Bifenazate	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.02	5	Imidacloprid	3	NO	NO	NO
89442-24	BIFEN G/N 7.9SC SELECT	2.44	0.00	4	Bifenthrin	3	YES	NO	NO
1021-2574	MGK FORMULA 2964	0.00	1.00	4	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO	NO
432-1227-10404	LESCO SEVIN SL	16.19	0.00	3	Carbaryl	3	YES	YES	NO
5481-643	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	14.90	0.00	3	Trichlorfon	3	YES	NO	NO
86869-5	LAMBDA SELECT	0.64	0.00	3	Cyhalothrin, lambda	2	NO	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	IARC Carcin
74779-17	RTSA 4% EMAMECTIN BENZOATE	0.58	0.00	3	Emamectin, benzoate	3	NO	NO	NO
55809-3	CRC WASP & HORNET KILLER PLUS	0.33	0.00	3	Tetramethrin; Phenothrin	3	YES	NO	NO
499-550	TC-323	0.12	0.00	3	Prallethrin	3	NO	NO	NO
101563-143	SUSPEND POLYZONE	0.02	0.06	3	Deltamethrin	3	NO	NO	NO
100-1636	Provaunt WDG	0.00	45.84	3	Indoxacarb	3	NO	NO	NO
83100-6-88975	PRIMERAONE IMIDACLOPRID 2F INSECTICIDE	5.50	0.00	2	Imidacloprid	3	NO	NO	NO
42750-115-86064	ARMORTECH IMD 2 F	5.00	0.00	2	Imidacloprid	3	NO	NO	NO
279-3457	TRIPLE CROWN GOLF INSECTICIDE	1.40	0.00	2	Bifenthrin; Cypermethrin, zeta; Imidacloprid	2	YES	NO	NO
8033-106	TRISTAR 8.5 SL INSECTICIDE	0.03	0.00	2	Acetamiprid	3	NO	NO	NO
82074-2	BOTANIGARD 22WP	0.00	0.69	2	Beauveria bassiana GHA	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	0.21	2	Esfenvalerate	3	NO	NO	NO
69526-5	PURESPRAY SPRAY OIL 10E	11.72	0.00	1	Mineral oil	3	NO	NO	NO
432-1227	SEVIN SL CARBARYL INSECTICIDE	5.00	0.00	1	Carbaryl	3	YES	YES	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICIDE	4.22	0.00	1	Bifenthrin	3	YES	NO	NO
397-13	STERI-FAB	1.00	0.00	1	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb	3	NO	NO	NO
81880-29-10163	Sanmite SC Miticide Insecticide	0.02	0.00	1	Pyridaben	3	NO	NO	NO
59639-170-74779	TRANSTECT 70WSP INSECTICIDE	0.01	0.00	1	Dinotefuran	3	NO	NO	NO
241-392	PHANTOM TERMITICIDE-INSECTICIDE	0.01	0.00	1	Chlorfenapyr	3	YES	NO	NO
5481-641-432	Dylox 6.2 Granular Insecticide	0.00	330.00	1	Trichlorfon	3	YES	NO	NO
4822-596	RAID ANT & ROACH 26	0.00	2.00	1	Imiprothrin; Cypermethrin, beta	3	YES	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	IARC Carcin
53883-513	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	1.00	1	Imidacloprid	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	0.20	1	Indoxacarb	3	NO	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.03	1	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	0.02	1	Bacillus sphaericus	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.00	1	Avermectin	3	NO	YES	NO
2724-469	ZOECON (S)- HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
Herbicides									
+	GARLON 4 ULTRA	46.64	1.01	181	Triclopyr	2	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	2,154.4 2	0.00	116	Imazamox	3	NO	NO	NO
62719-176	PATHFINDER II	17.69	0.00	101	Triclopyr, butoxyethyl ester	3	NO	NO	NO
100-937	PRIMO MAXX	36.71	0.00	89	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	41.18	0.00	58	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	5.97	65.44	48	Trinexapac-ethyl	3	NO	NO	NO
524-579	ROUNDUP PROMAX	1.82	32.78	48	Glyphosate, potassium salt	3	NO	NO	YES
62719-542	DIMENSION 2EW	67.13	0.00	39	Dithiopyr	2	NO	NO	NO
62719-324	GLYPRO	3.62	0.00	31	Glyphosate, isopropylamine salt	3	NO	NO	YES
228-741	NUP-16011 Herbicide	30.01	0.00	29	2,4-D, 2- ethylhexyl ester; Fluroxypyr 1- methylheptyl ester; Flumioxazin; Triclopyr, butoxyethyl ester	3	NO	NO	NO
1001-91	GWN-6010 PLANT GROWTH REGULATOR	0.19	61.02	24	Prohexadione calcium	3	NO	NO	NO
62719-687	VASTLAN	4.07	0.00	23	Triclopyr, Choline Salt	2	NO	NO	NO
228-743	NUP-18013	12.59	0.00	22	Glufosinate- ammonium	3	NO	NO	NO
100-1412	CLARELLE	8.61	0.00	19	Paclobutrazol	3	NO	NO	NO
62719-519	MILESTONE	0.74	0.00	18	Aminopyralid, triisopropanolamin e salt	3	NO	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	2.05	7.31	17	Fenoxaprop-P (+)	3	NO	NO	NO
279-3265	F8426 HERBICIDE	2.50	0.00	16	Carfentrazone- ethyl	3	NO	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	IARC Carcin
7969-327	PYLEX HERBICIDE	0.77	0.00	16	Topramezone	3	NO	NO	NO
101563-40	PROXY GROWTH REGULATOR	91.46	0.00	14	Ethephon	1	NO	NO	NO
352-401	DUPONT OUST HERBICIDE	0.00	0.75	13	Sulfometuron methyl	3	NO	NO	NO
228-615	CLASH SELECTIVE HERBICIDE	5.60	18.66	12	Dicamba, diglycolamine salt	3	NO	NO	NO
67702-54-4	Fireworxx 80	9.02	12.78	10	Capric acid; Caprylic acid	3	NO	NO	NO
100-1267	TENACITY	0.51	0.00	10	Mesotrione	3	NO	NO	NO
524-529	ROUNDUP PRO CONCENTRATE	8.61	0.00	9	Glyphosate, isopropylamine salt	3	NO	NO	YES
62719-560	EF-1343	1.65	0.00	9	Florasulam	3	NO	NO	NO
92967-1	AVENGER WEED KILLER CONCENTRATE	8.75	0.00	7	Limonene	3	NO	NO	NO
71368-114	Panther SC - Non-Crop Herbicide	0.30	0.00	7	Flumioxazin	0	NO	NO	NO
66222-151	ETHEPHON 2SL	32.90	0.00	6	Ethephon	1	NO	NO	NO
7969-272	DRIVE XLR8 HERBICIDE	20.16	0.00	6	Quinclorac	3	NO	NO	NO
62719-92	CONFRONT	9.02	0.00	5	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO	NO
100-1014	PACLOBUTRAZOL 2SC	4.13	0.00	5	Paclobutrazol	3	NO	NO	NO
81880-1-10163	SEDGEHAMMER	0.90	0.98	5	Halosulfuron-methyl	3	NO	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.05	0.00	5	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO	NO
70506-404	BOLL-SET	19.50	0.00	4	Gibberellins; IBA	3	NO	NO	NO
1381-253	ASCEND SL	6.61	0.00	4	Gibberellins; IBA; Cytokinin	3	NO	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	3.19	0.00	4	Clopyralid	3	NO	NO	NO
62719-556	ACCORD XRT II	1.12	0.00	4	Glyphosate, dimethylammonium salt	3	NO	NO	YES
2217-833	SPEED ZONE BROADLEAF HERBICIDE	30.23	0.00	3	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO	NO
53883-379	QUALI-PRO PRODIAMINE 4L	19.78	0.00	3	Prodiamine	3	YES	NO	NO
70299-23	AXXE BROAD SPECTRUM HERBICIDE	0.95	0.00	3	Nonanoic acid, ammonium salt	2	NO	NO	NO
53883-373	QUALI-PRO T-NEX 1 AQ	0.67	0.00	3	Trinexapac-ethyl	3	NO	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	24.00	0.00	2	Bensulide	3	NO	NO	NO
100-1139	BARRICADE 4FL	17.77	0.00	2	Prodiamine	3	YES	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	IARC Carcin
85208-1-93489	GREEN GOBBLER 20% VINEGAR WEED KILLER	10.00	0.00	2	Acetic acid	1	NO	NO	NO
14774-2	STRIKE 3	5.30	0.00	2	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
228-744	Q-BALL HERBICIDE	1.87	0.00	2	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
62719-566	TURFLON ESTER ULTRA	0.02	0.00	2	Triclopyr, butoxyethyl ester	3	NO	NO	NO
84009-27	GLYPHOSATE 41% SUPER CONCENTRATE HERBICIDE	0.01	0.00	2	Glyphosate, isopropylamine salt	2	NO	NO	YES
961-362	LEBANON FERTILIZER WITH BARRICADE (0.43%) PREEMERGENCE WEED CONTROL (0.00	9000.00	2	Prodiamine	3	YES	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	575.00	2	Dithiopyr	3	NO	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	0.00	9.38	2	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO	YES
53883-399	Quali Pro Dithiopyr L	5.25	0.00	1	Dithiopyr	2	NO	NO	NO
228-312	TRIPLET SF	4.00	0.00	1	Dicamba, dimethylamine salt; 2,4-D, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
7969-398	Segment II Herbicide	2.87	0.00	1	Sethoxydim	2	NO	NO	NO
53883-336	QUINCLORAC 1.5 L	0.88	0.00	1	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
86064-5	ARMORTECH (R) THREESOME(TM)	0.69	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	0.54	0.00	1	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
239-2491	ORTHO BRUSH-B-GON BRUSH KILLER	0.01	0.00	1	Triclopyr, triethylamine salt	3	NO	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	IARC Carcin
62719-504-91636	SYNA TEK DIMENSION 0.15% PLUS FERTILIZER	0.00	8000.00	1	Dithiopyr	3	NO	NO	NO
10404-86	LESCO DIMENSION 0.15% PLUS FERTILIZER	0.00	4000.00	1	Dithiopyr	3	NO	NO	NO
9198-154	THE ANDERSONS FERTILIZER WITH .125% DIMENSION(R) AND 1.0% RONSTAR(R)	0.00	1500.00	1	Dithiopyr; Oxadiazon	3	YES	YES	NO
62719-486-534	GREEN YARD CRABGRASS PREVENTER WITH 0.1% DIMENSION	0.00	1050.00	1	Dithiopyr	3	NO	NO	NO
9198-176	ANDERSON'S GOOSE/CRABGRASS CONTROL	0.00	340.00	1	Bensulide; Oxadiazon	2	YES	YES	NO
62719-445	DIMENSION* ULTRA 40WP	0.00	19.69	1	Dithiopyr	3	NO	NO	NO
53883-374	QUALI-PRO DITHIOPYR 40 WSB	0.00	8.75	1	Dithiopyr	3	NO	NO	NO
Fungicides									
100-1364	DACONIL ACTION	685.04	5.00	92	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	87.19	87	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-892	ARBOTECT 20-S FUNGICIDE	7.08	560.83	82	Thiabendazole	3	YES	NO	NO
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	202.15	20.00	65	Propamocarb hydrochloride	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	48.79	0.00	56	Trinexapac-ethyl	3	NO	NO	NO
53883-323-86064	ARMOR TECH TMI 2020XL	157.95	0.00	53	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-1633	Secure Action	41.37	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	25	Mineral oil	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	3.30	806.00	23	Fosetyl-Al	3	NO	NO	NO
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	1143.06	23	Fosetyl-Al	3	NO	NO	NO
70506-262	PEGASUS 6L	299.05	0.00	21	Chlorothalonil	2	YES	NO	YES
101563-113	TARTAN FLO FUNGICIDE	77.01	9.06	21	Triadimefon; Trifloxystrobin	3	YES	YES	NO
432-1505	CHIPCO 26019T FUNGICIDE	120.28	0.00	20	Iprodione; Trifloxystrobin	3	YES	NO	NO
53883-433	QUALI-PRO MEFENOXAM 2AQ	17.20	26.56	20	Mefenoxam	2	NO	NO	NO
66222-117	ORIOUS 3.6F	28.50	3.75	18	Tebuconazole	3	YES	NO	NO
70870-1-68539	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	0.53	18	Potassium bicarbonate	3	NO	NO	NO
264-1155	RHAPSODY ASO	225.00	0.00	17	QST 713 strain of dried Bacillus subtilis	3	NO	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	IARC Carcin
101563-112	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	28.90	0.00	17	Triadimefon	3	YES	YES	NO
66222-117-86064	ARMOR TECH TEB360 XL	34.58	0.00	16	Tebuconazole	3	YES	NO	NO
71512-13-2217	SEGWAY FUNGICIDE	14.75	0.00	16	Cyazofamid	3	NO	NO	NO
60063-7-10404	LESCO MANICRUE 6FL	104.38	0.00	15	Chlorothalonil	2	YES	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	98.02	8.75	13	Iprodione	3	YES	NO	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	62.22	0.00	13	Thiophanate-methyl	3	YES	YES	NO
7969-404	Maxtima Fungicide	9.67	0.00	13	Mefentrifluconazole	3	NO	NO	NO
68173-3-1001	AFFIRM WDG	2.54	107.50	13	Polyoxin D zinc salt	3	NO	NO	NO
70506-272	PEGASUS DFX	0.00	1014.50	13	Chlorothalonil	1	YES	NO	YES
86064-1	ARMORTECH CLT 825 DF	0.00	342.00	13	Chlorothalonil	2	YES	NO	YES
7969-349	Xzemplar Fungicide	8.92	0.00	12	Fluxapyroxad	3	NO	NO	NO
59639-144	V-10116 VPP FUNGICIDE	1.00	114.31	12	Metconazole	3	NO	NO	NO
432-890-10404	LESCO PRODIGY SIGNATURE	0.00	355.00	12	Fosetyl-AI	3	NO	NO	NO
53883-343	AZOXYSTROBIN 50 WG	0.00	5.90	12	Azoxystrobin	3	NO	NO	NO
86064-4	ARMOR TECH PPZ 143 MC	75.43	18.13	10	Propiconazole	2	YES	NO	NO
86064-6	ArmorTech ZOXY 2F	27.13	0.00	10	Azoxystrobin	3	NO	NO	NO
101563-152	TEBUCONAZOLE SC TURF AND ORNAMENTAL FUNGICIDE	19.53	11.00	10	Tebuconazole	3	YES	NO	NO
100-1433	BRISKWAY	14.47	0.00	10	Azoxystrobin; Difenoconazole	3	YES	NO	NO
42750-99	TEBUCONAZOLE 3.6FL	40.76	0.00	9	Tebuconazole	3	YES	NO	NO
89442-28	IPRODIONE 2F SELECT	39.38	0.00	9	Iprodione	3	YES	NO	NO
100-1326	BANNER MAXX II	18.53	0.00	9	Propiconazole	3	YES	NO	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	11.32	0.00	9	Propiconazole	2	YES	NO	NO
432-888-10404	LESCO 18 PLUS TURF & ORNAMENTAL FUNGICIDE	44.48	0.00	8	Iprodione	3	YES	NO	NO
70299-12	ZEROTOL 2.0	5.96	0.00	8	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO	NO
91234-199-86064	CYA 345	4.86	0.00	8	Cyazofamid	3	NO	NO	NO
7969-350	LEXICON INTRINSIC BRAND FUNGICIDE	4.46	2.63	8	Fluxapyroxad; Pyraclostrobin	3	NO	NO	NO
67690-77	ZIO	0.00	55.00	8	Pseudomonas chlororaphis strain AFS009	3	NO	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	IARC Carcin
228-623-10404	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	12.38	0.00	7	Propiconazole	2	YES	NO	NO
100-1550	HERITAGE ACTION	0.32	6.50	7	Acibenzolar-S-methyl; Azoxystrobin	3	NO	NO	NO
83170-1	DUTCH TRIG	0.09	0.00	7	Verticillium dahliae isolate WCS 850	3	NO	NO	NO
1001-69	3336 F	10.27	0.00	6	Thiophanate-methyl	3	YES	YES	NO
67702-2-59807	Grotto	9.67	0.00	6	Copper octanoate	3	NO	NO	NO
89442-21	AZOXY 2SC SELECT	3.88	6.88	6	Azoxystrobin	3	NO	NO	NO
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	2.51	7.70	6	Pyraclostrobin	2	NO	NO	NO
53883-313	QUALI-PRO CHLOROTHALONIL DF	0.00	405.50	6	Chlorothalonil	2	YES	NO	YES
89442-14	THIOPHANATE METHYL 4.5F SELECT	41.02	0.00	5	Thiophanate-methyl	3	YES	YES	NO
228-737	NUP-15013 Fungicide	11.79	9.06	5	Fluazinam	3	YES	NO	NO
89442-3	PPZ 41.8 SELECT	9.94	0.00	5	Propiconazole	2	YES	NO	NO
42750-211	PROPICONAZOLE 41.8% EC	7.73	0.00	5	Propiconazole	2	YES	NO	NO
53883-454-10404	LESCO Drax Fungicide	2.67	0.00	5	Fluazinam	3	YES	NO	NO
66222-134	THIOPHANATE METHYL 4.5 F	59.19	12.50	4	Thiophanate-methyl	3	YES	YES	NO
228-739	NUP-15014 Fungicide	27.22	0.00	4	Tebuconazole; Fluazinam	3	YES	NO	NO
50534-221-100	DACONIL WEATHER STIK ZN FLOWABLE FUNGICIDE	20.00	0.00	4	Chlorothalonil	2	YES	NO	YES
100-1654	A22070 Fungicide	12.88	0.00	4	Azoxystrobin; Propiconazole	2	YES	NO	NO
89442-37	Fluazinam 40SC Select	8.11	0.00	4	Fluazinam	3	YES	NO	NO
100-1477	Ascenity	5.00	0.00	4	Difenoconazole	3	YES	NO	NO
100-796	SUBDUE MAXX	0.83	0.00	4	Mefenoxam	3	NO	NO	NO
42750-261-53883	STROBE 2L	0.73	0.00	4	Azoxystrobin	3	NO	NO	NO
70299-15	GC PRO	0.00	779.00	4	Sodium percarbonate	1	NO	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	39.60	4	Nicobifen	2	YES	NO	NO
100-1347	CONCERT II	30.25	0.00	3	Chlorothalonil; Propiconazole	1	YES	NO	YES
89442-41	AzProp Select	17.00	0.00	3	Propiconazole; Azoxystrobin	3	YES	NO	NO
89442-1	TEBUCONAZOLE 3.6 SELECT	13.50	0.00	3	Tebuconazole	3	YES	NO	NO
42750-292	AZOXY 11% + TEB 26% FL	9.00	0.00	3	Azoxystrobin; Tebuconazole	3	YES	NO	NO
100-1216	BANNER HERITAGE MAXX	6.25	0.00	3	Azoxystrobin; Propiconazole	3	YES	NO	NO
100-1600	A19649 200SC Turf	5.06	0.00	3	Pydiflumetofen	3	NO	NO	NO
264-1155-68539	CEASE	4.35	0.00	3	QST 713 strain of dried Bacillus subtilis	3	NO	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	IARC Carcin
7969-255	HONOR FUNGICIDE	0.69	37.14	3	Nicobifen; Pyraclostrobin	3	YES	NO	NO
961-277	LEBANON TURF FUNGICIDE CONTAINS DACONIL	0.00	860.00	3	Chlorothalonil	3	YES	NO	YES
62719-402-10404	LESCO MANCOZEB DG TURF AND ORNAMENTAL FUNGICIDE	0.00	144.00	3	Mancozeb	3	YES	NO	NO
50534-202-100	MANICURE ULTREX TURF & ORNAMENTAL	0.00	124.40	3	Chlorothalonil	1	YES	NO	YES
53883-310	QUALI-PRO CHLOROTHALONIL 720 SFT	0.00	60.00	3	Chlorothalonil	2	YES	NO	YES
70506-187	MICROTHIOL DISPERS	0.00	55.00	3	Sulfur	3	NO	NO	NO
100-1093	HERITAGE FUNGICIDE	0.00	10.55	3	Azoxystrobin	3	NO	NO	NO
432-1223	PROSTAR 70 WP	0.00	3.13	3	Flutolanil	3	NO	NO	NO
50534-211-100	DACONIL ZN FLOWABLE FUNGICIDE	12.00	0.00	2	Chlorothalonil	2	YES	NO	YES
81803-6-52287	JET- AG	12.00	0.00	2	Hydrogen peroxide; Peroxyacetic acid	1	NO	NO	NO
89442-46	FluazTeb Select	10.56	0.00	2	Fluazinam; Tebuconazole	3	YES	NO	NO
50534-209-100	MANICURE 6 FLOWABLE	9.33	0.00	2	Chlorothalonil	3	YES	NO	YES
228-626-52287	NUFARM T-METHYL SPC 4.5 F FUNGICIDE	8.28	0.00	2	Thiophanate-methyl	3	YES	YES	NO
83100-1-83979	OFFSET 3.6F FUNGICIDE	7.59	0.00	2	Tebuconazole	3	YES	NO	NO
83070-8	ADVAN PROPAMOCARB	3.17	0.00	2	Propamocarb hydrochloride	3	NO	NO	NO
228-630-10404	LESCO TWOSOME FUNGICIDE	3.06	0.00	2	Iprodione; Thiophanate-methyl	3	YES	YES	NO
228-652	NUFARM T-METHYL 4.5 F Fungicide	2.75	0.00	2	Thiophanate-methyl	3	YES	YES	NO
93051-4	Rightline Azox 2 SC	1.88	0.00	2	Azoxystrobin	3	NO	NO	NO
73806-1	K-PHITE 7LP Fungicide	1.50	0.00	2	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
71512-13-279	SEGWAY FUNGICIDE	1.09	0.00	2	Cyazofamid	3	NO	NO	NO
53883-477	CSI 19-349 Fludioxonil	1.03	0.00	2	Fludioxonil	3	NO	NO	NO
91234-199	A275.02	1.02	0.00	2	Cyazofamid	3	NO	NO	NO
71512-20-100	SECURE	0.78	0.00	2	Fluazinam	2	YES	NO	NO
69526-5-499	PRESCRIPTION TREATMENT BRAND ULTRA-PURE OIL (WIDESCRIPTRO, HORTICULTUR	0.00	0.00	2	Mineral oil	3	NO	NO	NO
60063-3	ECHO 825	0.00	40.00	2	Chlorothalonil	2	YES	NO	YES
464-693-63288	CHEMICAR 15	65.00	0.00	1	Glutaraldehyde	1	NO	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	IARC Carcin
86064-9	ArmorTech TM 462 F	12.00	0.00	1	Thiophanate-methyl	3	YES	YES	NO
228-630-86064	ArmorTech TMI 2020 FLO	10.00	0.00	1	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-1231	INSTRATA	10.00	0.00	1	Chlorothalonil; Fludioxonil; Propiconazole	3	YES	NO	YES
101563-148	ES TC006A	8.30	0.00	1	Mono- and di-potassium salts of phosphorous acid	0	NO	NO	NO
70051-107-59807	TRIATHLON BA	2.63	0.00	1	Bacillus subtilis var. amyloliquefaciens strain D747	0	NO	NO	NO
42750-252	PROPICONAZOLE 1.3 ME	1.17	0.00	1	Propiconazole	2	YES	NO	NO
7969-403	NAVICON INTRINSIC BRAND FUNGICIDE	1.16	0.00	1	Pyraclostrobin; Mefentrifluconazole	3	NO	NO	NO
100-1448	MEDALLION SC	1.03	0.00	1	Fludioxonil	3	NO	NO	NO
84059-3	REGALIA BIOPROTECTANT CONCENTRATE	1.00	0.00	1	Reynoutria sachalinensis	3	NO	NO	NO
89442-16	METALAXYL 4L SELECT	1.00	0.00	1	Metalaxyl	3	NO	NO	NO
7969-184	Insignia Fungicide	0.97	0.00	1	Pyraclostrobin	3	NO	NO	NO
53883-454	CSI 18-257 Fluazinam	0.17	0.00	1	Fluazinam	3	YES	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	0.00	20.00	1	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	3	YES	YES	YES
53883-363	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	0.00	15.63	1	Propiconazole	3	YES	NO	NO
100-1191	HERITAGE MAXX	0.00	8.00	1	Azoxystrobin	3	NO	NO	NO
101563-91	COMPASS	0.00	0.38	1	Trifloxystrobin	3	NO	NO	NO
Other (Repellents, Biochemical Pesticides, Etc.)									
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	25.00	0.00	25	Copper oxide (ous)	2	NO	NO	NO
59807-4	HORMODIN 1	0.00	0.60	9	IBA	3	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	6	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	71.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	NO	NO

APPENDIX 3: Complete Listing of “Best Management Practices” Insecticides Used Citywide in 2022

EPA Reg. #	EPA Prod Name	Volume in Gallons	Weight in Pounds	Total Applications	Active Ingredient Data
73049-429	VECTOMAX FG	0.00	13393.98	451,915	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.05	726.99	31,675	Indoxacarb
64405-2	REDZONE BAIT	0.00	1167.57	9,046	Boric acid
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.56	76.51	6,232	Avermectin; Pyriproxyfen
1021-2796	MGK Formula 3113	0.09	76.19	6,014	Clothianidin; Pyriproxyfen
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	49.93	3,195	Fipronil
101563-49	PRODUCT: RBF5	0.00	33.48	2,136	Fipronil
73766-1	GOURMET ANT BAIT GEL	0.50	30.11	1,725	Disodium octaborate tetrahydrate
101563-47	MAXFORCE ROACH BAIT F.05	0.00	31.56	1,665	Fipronil
100-1498	DUPONT ADVION ANT GEL	0.04	48.82	1,546	Indoxacarb
73079-4	BORACTIN INSECTICIDE POWDER	2.01	305.34	973	Boric acid
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	191.98	904	Imidacloprid
53883-438	CSI 16-107G Indoxacarb Powder	0.00	12.10	796	Indoxacarb
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	242.42	702	Indoxacarb
89459-59	ENVI ACU CONTACT Insecticide	34.85	0.00	462	Phenylethyl propionate
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	13106.36	437	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	34.49	362	Emamectin, benzoate
100-1501	DUPONT ARILON INSECTICIDE	190.90	0.00	281	Indoxacarb
1021-1828	MGK ROACH BAIT 2822	0.00	22.34	179	Avermectin
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	37.54	159	Bacillus thuringiensis subspecies Israelensis strain BMP 144
101563-119	BES 0026 FLY SPOT BAIT	20.49	38.24	141	Imidacloprid; (Z)-9-Tricosene
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	1.39	131	Imidacloprid
1021-1603	NYLAR 10EC	22.40	0.00	124	Pyriproxyfen
92028-3	SureKill Roach Gel Bait	0.00	0.64	91	Imidacloprid
73079-6	GREEN ZONE GRANULAR BAIT	0.06	16.50	81	Boric acid
101563-94	PRE-EMPT FLY BAIT	0.00	8.01	65	Imidacloprid; (Z)-9-Tricosene
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.27	0.00	60	S-Methoprene
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	10.05	57	Avermectin
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	8.64	40	Boric acid
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	4.00	11.25	35	Disodium octaborate tetrahydrate
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	22300.00	34	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
48813-1	SUFFOIL-X	6.80	0.00	27	Petroleum distillates
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	31.02	21	Bacillus sphaericus
100-1483	ADVION INSECT GRANULE	0.00	20.70	21	Indoxacarb
2724-375	ALTOSID BRIQUETS	0.00	5.89	21	S-Methoprene
70051-2	TRIACT 70	3.61	0.00	17	Neem oil
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.60	0.00	17	Potassium laurate
62577-12	ECOPCO ACU	1.59	0.13	15	Phenylethyl propionate

62719-523	BLACKHAWK	1.50	35.01	13	Spinosad
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.90	13	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
100-1485	DUPONT ADVION ANT BAIT ARENA	0.94	0.23	12	Indoxacarb
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.12	0.00	12	Spinosad
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.09	10	Fipronil
53883-335	N + P Regulator	0.08	0.00	8	Pyriproxyfen; Novaluron
85306-1	SELECT TCS	0.00	0.01	6	Fipronil
42697-60	SAFER BRAND O-INSECTICIDAL SOAP CONCENTRATE	0.27	0.00	5	Potassium laurate
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.15	0.00	5	Pyriproxyfen
101563-46	MAXFORCE FC ANT BAIT STATIONS	0.00	0.05	5	Fipronil
4822-472	RAID MAX ROACH BAIT V	0.00	0.00	4	Avermectin
81824-12	BORATHOR GRANULAR SCATTER BAIT	0.00	1.00	4	Boric acid
100-1636	Provaunt WDG	0.00	45.84	3	Indoxacarb
1021-2818	SUMILARV 0.5G SACHETS (WSP)	0.00	0.77	2	Pyriproxyfen
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb
88760-1	TER-RTU1	0.03	0.00	1	Neem oil
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.19	1	Dinotefuran; Diatomaceous earth
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	0.03	1	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles
73079-2	INTICE GRANULAR BAIT	0.00	0.02	1	Boric acid