



Pesticide Use by New York City Agencies in 2023

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Pesticide Use by New York City Agencies in 2023

EXECUTIVE SUMMARY

Local Law 54 of 2007 requires the New York City Department of Health and Mental Hygiene (the Health Department) 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 2022 (the last year for which New York State data has been processed) accounted for an estimated 2% of the total volume of liquid pesticides, and 15% of the total pounds of solid pesticides applied within the five boroughs of New York City, after excluding mosquito larvicide applications.

In 2023, 30 municipal agencies reported their pesticide use to the Health Department. This report summarizes pesticides applied by or on behalf of agencies on city-owned or -leased property.

Key findings:

- Pesticides were applied 329,438 times by New York City agencies in 2023. Agencies used 23,531 gallons and 173,373 pounds of products (Table 1). There was a decrease in number of applications from 2022, primarily because mosquito larvicide ceased being reported as individual applications to sewer catch basins. There was an increase in pesticide use by volume, largely driven by CO₂ gas rodenticide now mostly reported by volume.
- With the decline in the reporting of individual larvicide applications in catch basins, mosquitos dropped to the third most targeted pest in 2023, after cockroaches and rats, based on total number of applications (Table 3).
- Most liquid/gas pesticide products (74% by volume) and solid products (46% by weight) used by city agencies were rodenticides (Table 1). After excluding the Health Department mosquito larviciding to prevent spread of West Nile Virus and other mosquito-borne diseases (25% of all solid products), rodenticides made up an even larger percentage of solid pesticide products used (62% by weight).
- Insecticides
 - Insecticides were the most frequently applied type of pesticide, accounting for 59% of all applications (Table 1).
 - The volume of liquid insecticides decreased 19% in 2023, compared with 2022 (Figure 2).
 - Liquid pyrethroid products targeting cockroaches and bed bugs decreased 36% and 30%, respectively, from 2022 to 2023, continuing a downward trend (Figure 6).
 - A sharp decrease (93%) in the number of mosquito larvicide applications was associated with an 11% decrease in use of these products by weight, compared with

2022. As already noted, the difference in magnitude across the two metrics stems from a change to no longer reporting individual sewer catch basin applications.

- “Best Management Practices” (BMP) insecticide products (Appendix 3) include gel and bait insecticides with little potential for human exposure. Use reported by weight more than doubled in 2023 and made up 86% of insecticide applications by weight after excluding larvicides. Applications to treat cockroaches increased threefold by weight from 2022 to 2023 due to an increase in the use of insect growth regulator (IGR) bait stations (Figure 4).
- Herbicides
 - Liquid herbicide product use by volume decreased in 2023 (Figure 2) by 57% (2,990 to 1,288 gallons). However, there was a 150 gallon increase in the use of glyphosate products at one NYC golf course which is exempt from prohibition. Amounts are still 90% 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 2023 remained relatively unchanged from 2022. 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 has mostly eliminated the use of synthetic herbicides, except for treatments of dangerous or invasive plants, as required by 2021 amendments to Local Law 37.
- Rodenticides
 - Use of solid rodenticide products increased 6% by weight from 2022 (Figure 1). The Health Department calibrates its rodenticide applications based on findings from neighborhood rat ‘indexing.’ The slight increase reflects a rise in the number of inspections in 2023 as field activity increased as part of a citywide initiative to control mice and rat infestations.

Pesticide Use by New York City Agencies in 2022

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 added to 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 impact of the prohibitions in city parks is evident in this report.

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 (the Health Department) to consider and grant requests for waivers from prohibition on a case-by-case basis. The Health Department 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. The Health Department maintains a webpage on Local Law 37 at <http://nyc.gov/health/1137> 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 the Health Department, and the Health Department to issue a summary report to the City Council and the Mayor. This sixteenth 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 2023, 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 the Health Department by February 1. This report summarizes data received by the the Health Department for pesticides applied during calendar year 2023.

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. The Health Department 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, the Health Department 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

The Health Department 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. Data from NYCPURS and some external electronic sources 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 and gases 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.

Summary statistics are reported by agency, based on records the Health Department has evaluated for completeness. It is not possible to know if an agency reported 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 across agencies and contractors, uniformity in reporting cannot be assured.

Despite the above-mentioned limitations, the Health Department continues its efforts to improve the data quality by promoting increased use of NYCPURS. Reporting errors, especially in reporting incorrect units, were further reduced in 2023 due to input standardization and consistent formatting in the NYCPURS system.

In 2023, 92% 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 applied by NYC Agencies are second-generation anticoagulants (SGARs), for example, brodifacoum, bromadiolone and difethialone. Some common rodenticide products used by agencies in 2023 (all SGARs) were: Contrac All-Weather Blox®, Contrac Rodenticide®, Final Rodenticide® and Difethialone Paste Place Packs®. First-generation anticoagulants – such as warfarin, chlorophacinone and diphacinone – are rarely used. One advantage of SGARs is that they do not require multiple doses to kill a rat. However, there is growing awareness of the widespread ecological harm associated with use of SGARs and the need to reduce their use.

In 2023, Parks, NYCHA, and DOE continued use of non-anticoagulant dry ice (frozen carbon dioxide), along with first-time user the Health Department, as an alternative rodenticide in sensitive outdoor locations, such as near city parks, building exteriors, squares, and outdoor areas on school properties. In 2017, the Health Department worked with federal and state regulators to receive approval for this rodent control method, which has no risk of secondary poisoning to predatory animals.

In 2023, a total of 17,290 gallons and 80,347 pounds of rodenticides were applied by City agencies, accounting for 74% by volume liquid pesticide and 46% by weight of solid pesticide – 62% by weight after excluding mosquito larvicides (Table 1). The increase in rodenticide was

due to use of a CO₂ gas product (IGI Carbon Dioxide) reported by volume instead of a solid CO₂ product (Rat Ice) that was used exclusively in 2022.

Insecticides

A total of 1,472 gallons and 58,984 pounds of insecticides were applied by NYC agencies in 2023, accounting for 6% by volume, and 34% by weight of the total applications. Biological insecticides applied to target mosquito larvae account for 74% of insecticides by weight (Table 1). When those products are excluded, 15,322 pounds of insecticides by weight were applied, making up 12% of solid pesticides applied. Insecticides used by NYC agencies in 2023 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 2023 include STERI-FAB, Demand CS Insecticide®, Temprid SC Insecticide®, Suspend SC Insecticide®, and Conquer Residual Insecticide Concentrate.

In 2023, pyrethrins and pyrethroids accounted for 66% of total liquid insecticides applied by volume and 2% of solid insecticides by weight – 6% by weight when excluding mosquito larvicides. These products made up 15% of the total number of insecticide applications. There was a 20% decrease in pyrethroids applied by volume in 2023.

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 2023 were outdoor applications of trichlorfon on some golf courses, which are exempt from Local Law 37 use prohibitions. The only carbamate active ingredient applied in 2023 was carbaryl. Organophosphate and carbamate products applied by agencies in 2023 include Dylox 420 SL Turf and Ornamental Insecticide®, Alco Fly Fighter Insect Spray Pressurized, and Lesco Sevin SL.

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 2023, the use of organophosphates and carbamates accounted for only 4% of liquid insecticides applied by agencies by volume (a small increase from 2022 levels) and 4% of total solids by weight after excluding mosquito larvicides (a small decrease from 2022 levels).

“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®, Optigard Cockroach Gel, Gourmet Ant Bait Gel, BES 0026 Fly Spot Bait, and DuPont Advion Cockroach Gel Bait®.

In 2023, 21% of the total insecticides applied by volume, and 96% by weight, were insecticidal dusts, gels, and baits, insect growth regulators, or biological larvicides. Excluding mosquito larvicides, the total drops to 86% of solid insecticide products by weight.

Herbicides

New York City agencies used herbicides in 2023 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 1,288 gallons and 25,141 pounds of herbicides were applied in 2023, accounting for 5% of total pesticide volume and 15% of total pesticide weight overall (19% 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 Local Law 37 passed in 2022 now prohibit the use of glyphosate products due to IARC classifying the chemical as a probable carcinogen. In 2023, 12% of liquid herbicide use (by volume) contained glyphosate compared to 53% in 2016 (Figure 3). Practically all the glyphosate use in 2023 was on a single NYC golf course that is exempt from the product prohibition.

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 proflumicafene. Agencies used dinitroaniline products containing proflumicafene in 2023, including Barricade 4FL®, Lebanon Fertilizer with Barricade (0.43%) Preemer, Turfgrass Fertilizer with Barricade (0.43%) Preemer and Quali-Pro Proflumicafene 4L ® applied on city golf courses.

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 2023 were NUP-16011 Herbicide, Cool Power Selective Herbicide®, Lasco Three-way Selective Herbicide, Armortech® Threesome™ and Triad Select. In 2023, the only uses of these products were a small number of applications on the city’s golf courses, and in parks and botanical gardens with waivers.

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.

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. Diuron, a urea herbicide among the four most heavily used herbicides reported by commercial applicators in the private market in NYC in 2022 (most recent data available), is classified by the EPA as a known/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 2023 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 2023 were Sedgehammer®, Nufarm Prosedge Selective Herbicide2, Dupont Viewpoint Herbicide®, and Dupont Oust Herbicide®. In 2023, the only uses of these products were applications along city highways by the DOT and a small number of applications on city golf courses and parks.

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 applied by NYC on golf courses, which are exempt from Local Law 37 prohibitions.

The active ingredients of fungicides commonly used in NYC in 2023 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 2023 include T-22G Biological Plant Protectant Granules, Daconil Action®, Banol Turf and Ornamental Fungicide®, Armor Tech CLT 720 XL Fungicide®, 12ESP705 Fungicide®, Aliette WDG Brand Fungicide, and Rhapsody AS0.

Fungicides represented less than 1% of the total number of pesticide applications in 2023, but they made up 14% of total volume of liquid pesticides applied and 5% of total weight of solid products – 7% after excluding mosquito larvicides (Table 1). The total volume of liquid and weight of solid fungicides reported have increased since 2022 (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 typically measured as volume in gallons. Quantities for solid applications are typically measured as weight in pounds. However, if a liquid product was reported by a City agency or contractor in pounds, it was included in weight measures.

Pesticides were applied 329,438 times by New York City agencies in 2023, 52% less than in 2022, due to a 93% decrease in reports of larvicide applications, driven by a change in reporting practice for catch basin application, and a 15% decrease in reports 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 (46% by weight), and the most heavily used liquid/gas (74% by volume). In 2023, 74% 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 the Health Department mosquito-borne disease control programs, 12% of total solid pesticides by weight were insecticides and 62% 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 2023, by Pesticide Type

Pesticide Type	Volume		Weight			Times Applied	
	Gallons	% of Total	Pounds	% of Total	% without larvicide	Number	% of Total
Rodenticide	17,290	73.5%	80,347	46.3%	61.9%	131,156	39.8%
Insecticide	1,472	6.3%	58,984	34.0%	11.8%	193,899	58.9%
Herbicide	1,288	5.5%	25,141	14.5%	19.4%	3,086	0.9%
Fungicide	3,396	14.4%	8,900	5.1%	6.9%	1,237	0.4%
Other	84	0.4%	1	0.0%	0.001%	60	0.0%
Totals	23,531		173,373			329,438	

Table 2 lists the ten most frequently used products for each pesticide type on New York City owned or leased property in 2023. 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 2023 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	37,465.40	69,697	Difethialone	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
12455-90	FINAL RODENTICIDE	0.00	11,360.94	20,256	Brodifacoum	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	13,813.01	18,479	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	498.14	9,160	Diphacinone	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.03	2,356.09	1,972	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	574.73	1,399	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	496.69	1,303	Brodifacoum	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.02	75.50	1,241	Bromethalin	3	NO	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	420.13	1,186	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	334.68	1,172	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	5.05	1,161.42	46,192	Indoxacarb	3	NO	NO	NO
73049-429	VECTOMAX FG	0.00	4,219.81	31,318	Bacillus sphaericus; Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	21.30	3.06	27,126	(7S)-Hydroprene	3	NO	NO	NO
64405-2	REDZONE BAIT	1.00	2,072.02	12,800	Boric acid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	27.80	46.73	11,433	Deltamethrin	3	NO	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	88.68	8,695	Dinotefuran	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.05	175.73	8,179	Avermectin; Pyriproxyfen	3	NO	YES	NO
74578-12	TREE-AGE R10	74.27	0.00	7,207	Emamectin, benzoate	2	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	1.22	0.00	5,932	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.73	7,218.79	5,784	(7S)-Hydroprene	3	NO	NO	NO

Herbicides

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Apps	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev Toxin	IARC Carcin
62719-519	MILESTONE	9.18	0.00	510	Aminopyralid, triisopropanolamine salt	3	NO	NO	NO
101563-188	DUPONT VIEWPOINT HERBICIDE	2.83	97.44	465	Aminocyclopyrachlor; Imazapyr; Metsulfuron-methyl	3	NO	NO	NO
7969-443	DERRINGER HERBICIDE	98.61	12.50	464	Glufosinate-ammonium	2	NO	NO	NO
101563-144	ESPLANADE 200 SC	5.60	0.00	442	Indaziflam	3	NO	NO	NO
62719-176	PATHFINDER II	145.29	20.45	327	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-527	GARLON 4 ULTRA	19.00	0.00	173	Triclopyr	2	NO	NO	NO
100-937	PRIMO MAXX	41.15	0.00	90	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	23.09	0.00	68	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	43.86	0.00	55	Trinexapac-ethyl	3	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	12.18	0.00	55	Imazamox	3	NO	NO	NO
Fungicides									
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	109.46	120	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-1364	DACONIL ACTION	772.86	0.00	100	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	158.37	20.00	60	Propamocarb hydrochloride	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	0.00	1,386.91	44	Fosetyl-Al	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	50.42	0.00	34	Trinexapac-ethyl	3	NO	NO	NO
86064-6	ArmorTech ZOXY 2F	45.47	0.00	34	Azoxystrobin	3	NO	NO	NO
228-630-86064	ArmorTech TMI 2020 FLO	74.00	0.00	29	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	5.12	651.53	29	Thiabendazole	3	YES	NO	NO
100-1633	Secure Action	41.92	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	26	Mineral oil	3	NO	NO	NO
Other									
59807-4	HORMODIN 1	0.00	0.28	40	IBA	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
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	14.00	0.00	14	Copper oxide (ous)	2	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	4	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	70.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	NO	NO
55943-1	HOT FOOT BIRD REPELLENT	0.00	0.50	1	Polybutenes	3	NO	NO	NO

C. CHANGES IN PESTICIDE USE

Table 3 contains a complete list of application amounts by target pest.

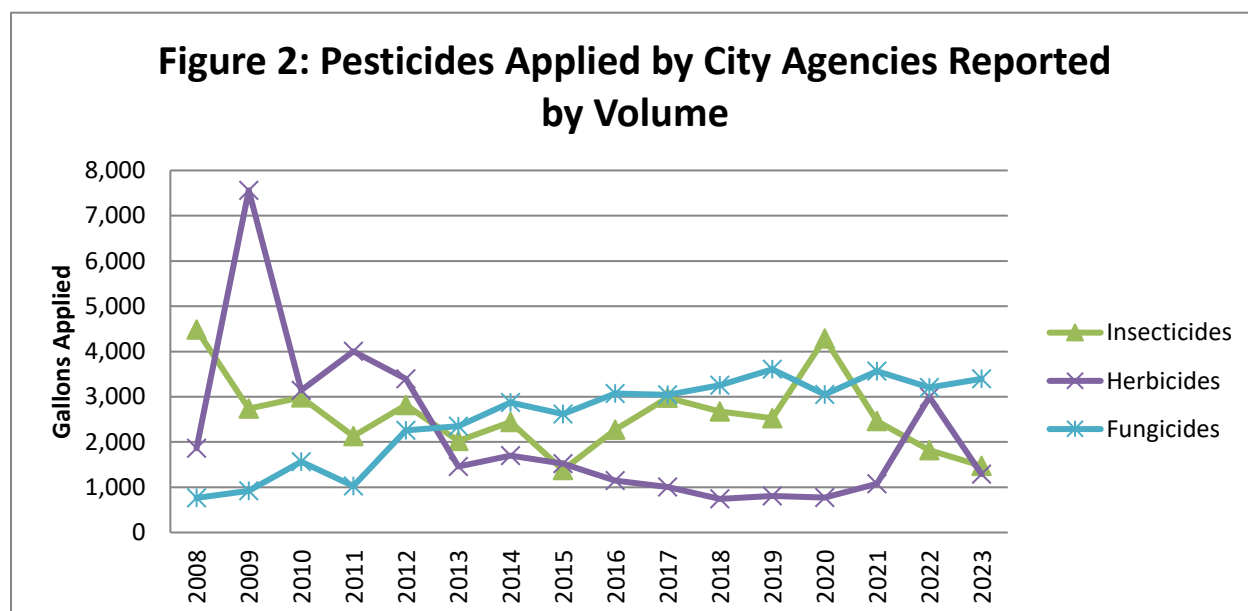
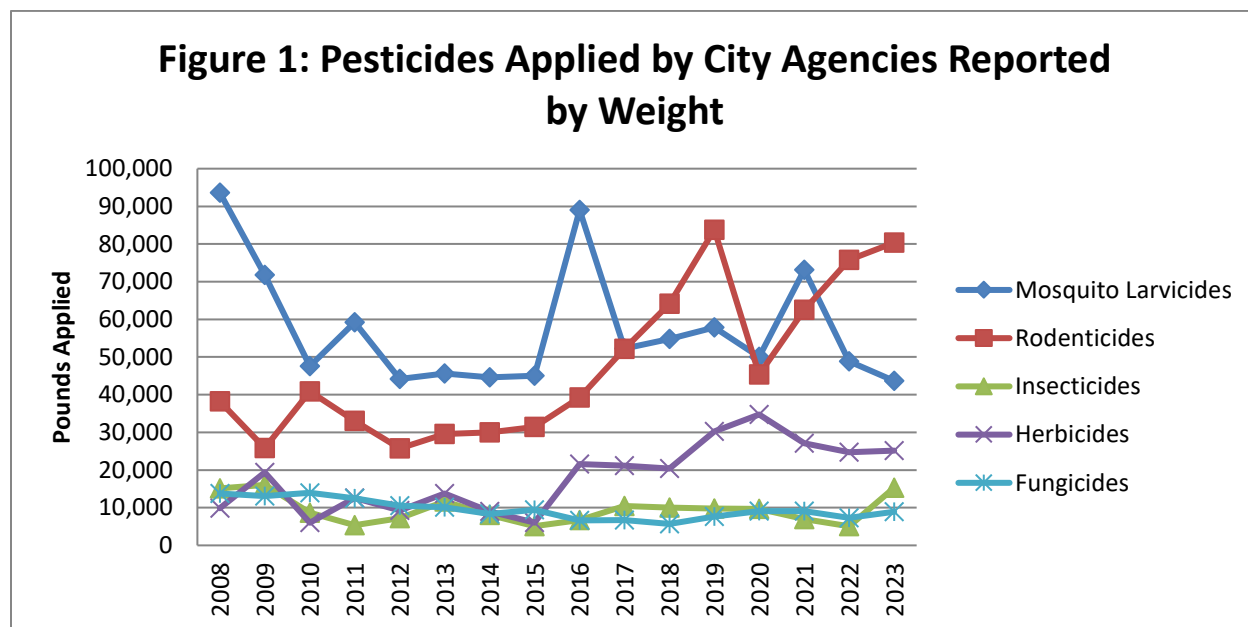
Table 3: List of pesticide applications by New York City Agencies by target pest, 2023

Target Pest	Volume in Gallons	Weight in Pounds	Total Applications	% of Total Applications
Roaches	163.4	10,805.9	121,727	36.9%
Rats	17,269.6	51,355.9	99,718	30.3%
Mosquitoes	433.8	43,677.0	31,728	9.6%
Mice	21.1	6,864.6	26,286	8.0%
Missing Target Organism	69.7	21,524.4	13,581	4.1%
Ants	6.4	1,280.4	12,955	3.9%
Emerald Ash Borer	74.3	0.0	7,207	2.2%
Other Pests	155.6	2,792.0	6,110	1.9%
Weeds, vines, or grasses	1,287.8	25,141.3	3,086	<1%
Flying insects	113.8	1,001.0	3,010	<1%
Bedbugs	1.4	1,313.4	2,429	<1%
Fungal Disease or Infestation	3,396.3	8,900.0	1,237	<1%
Other Crawling Insects	215.9	1,264.4	358	<1%
Termites	0.2	25.7	4	<1%
Other Rodents	0.0	0.0	2	<1%
Totals	23,209.4	175,946.0	329,438	

The level of completeness of city agency pesticide reporting has improved dramatically since 2008, with more recent years being most reflective of real variation in pest control practices. Figures 1 and 2 show trends through 2023 in use of pesticides by type, with solid and liquid products reported by weight and volume, respectively.

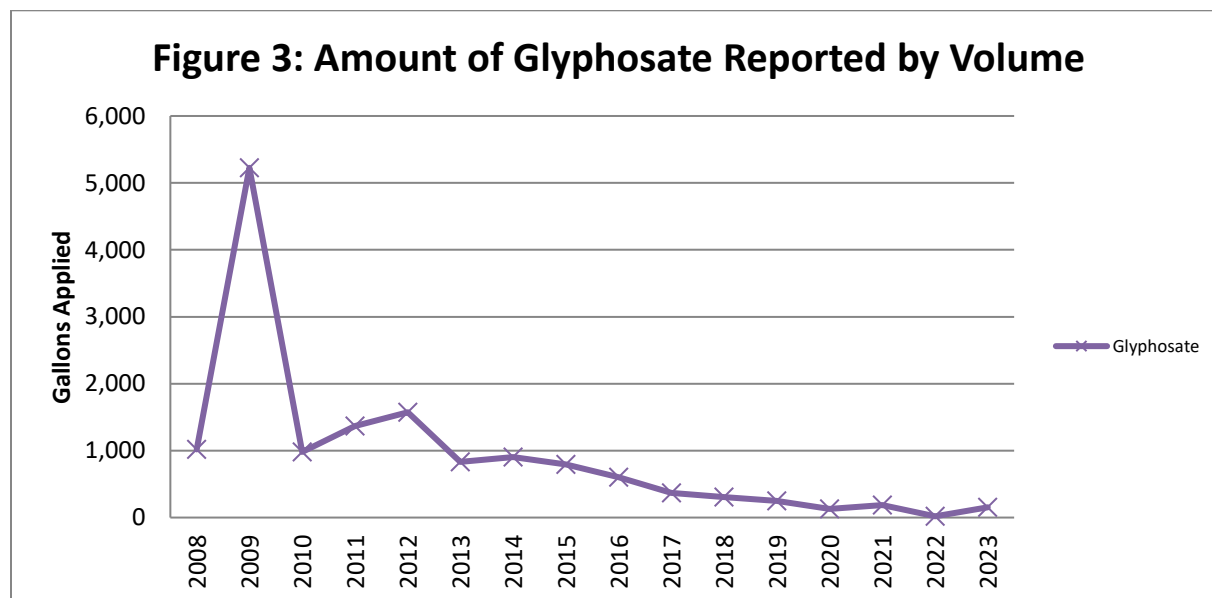
In Figure 1, the Health Department mosquito control program larvicides are charted separately from other insecticides, because they represent a large proportion of Agency insecticide use and their year-to-year use varies more with weather than other insecticides. Larvicide use (Figure 1) decreased 11% by weight and 93% by application count in 2023. The 93% decline is primarily due to a change in reporting to no longer count individual sewer catch basins treated as separate applications. Larvicides continue to make up the majority of solid insecticide products

used by weight (74%). Use of solid rodenticide products went up again in 2023 (6% by weight, from 2022 to 2023), following a sharp decline in 2020. Solid herbicide use went up slightly in 2023 and 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 larvicides are not included in Figure 2 as those products are almost exclusively solid formulations reported by weight. However, in 2023 agencies used a new carbon dioxide (CO₂) gas product that was reported by volume. The volume amount of that CO₂

gas rodenticide was much higher than the other pesticide types reported in Figure 2 and is not included in Figure 2, which aims to track liquid volume amounts. There was a 19% decrease in liquid insecticide use in 2023 compared to 2022, due to a decrease in use of pyrethroids and liquid BMP insecticides (Appendix 1 & 3). From 2008 to 2023, there was a 67% decrease in the volume of liquid insecticides used (Figure 2). Liquid herbicide use decreased 57% by volume (Figure 2) from 2022 to 2023, but there was a 727% increase in gallons of glyphosate applied due to a large amount used at one NYC golf course that is exempt from prohibitions (Figure 3). Overall, there has been a 90% decrease in glyphosate levels applied since 2012.

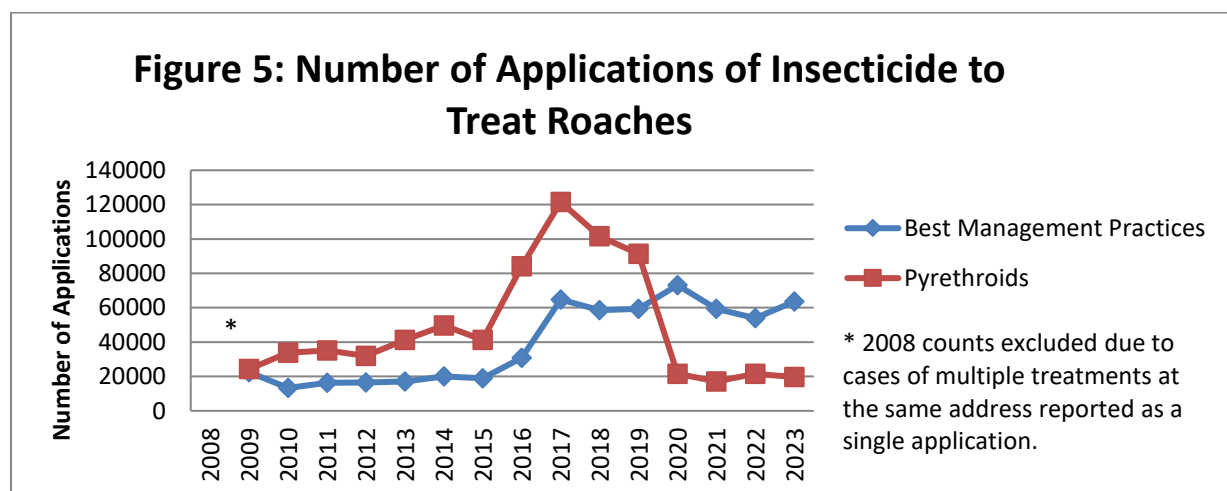


Use of spray formulations vs. Best Management Practices

The reported use of BMP products to combat roaches had declined in recent years from a higher level in 2020, but increased sharply in 2023. There was a three-fold increase in 2023 compared with 2022 due to large increases in the amount of insect growth regulator products used, reversing a downward trend (Figure 4).

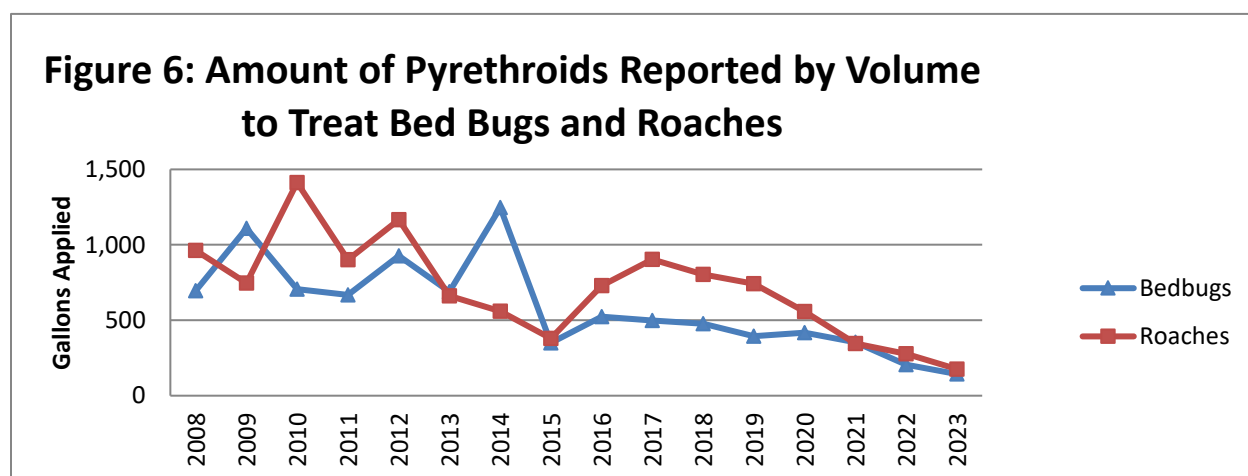


There was an 8% decrease in the number of pyrethroid applications and a 28% increase in the number of BMP applications to treat roaches from 2022 to 2023 (Figure 5).



Bed Bugs vs. Roaches

Use of pyrethroid spray products targeting roaches decreased 36% by volume, and the number of applications decreased 8% from 2022 to 2023 (Figures 5 and 6). There was also a 30% decrease in gallons of pyrethroids used by city agencies to treat bed bugs from 2022 to 2023 (Figure 6). Citywide, the number of pyrethroid applications to treat bed bugs decreased 9% in 2023. Total volume of pyrethroid use for control of bed bugs 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 6% in 2023 by weight (Figure 1). The number of applications also increased by 17%. Variability year to year is due to a neighborhood rat surveillance and control initiative ([Rat Indexing - NYC Health](#)).

Mosquitoes

Mosquito control measures include larviciding (killing larvae) and adulticiding (killing flying adults). The Health Department Vector Control program was the primary applicator; 43,662 pounds of mosquito larvicide and 433 gallons of adulticide were applied in 2023. Though the application count decreased 93% from 2022, the amount of larvicide applied in sewer catch basins by weight declined only slightly (11%, Figure 1). The agency continues 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 the Health Department varies year to year depending on weather and severity of mosquito infestations. There was no significant change in the number of adulticide applications from 2022 to 2023 (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 2023, primarily at facilities previously under management of the DJJ.

Table 4: Types of Pesticides Used by ACS in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	79.98	93.2%	58	18.2%
Insecticide	2.34	100.0%	5.88	6.8%	260	81.8%
Totals	2.34		85.85		318	

Table 5: Pesticide Products Used by ACS in 2023

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	79.98	58	Difethialone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	5.26	150	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.92	0.00	79	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.58	14	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	1.14	0.00	12	Phenylethyl propionate	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.03	3	Boric acid	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

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 2023.

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 2023.

Table 6: Types of Pesticides Used by BPL in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	103.52	89.3%	340	47.8%
Insecticide	0.04	100.0%	12.35	10.7%	371	52.2%
Totals	0.04		115.87		711	

Table 7: Pesticide Products Used by BPL in 2023 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	89.09	269	Difethialone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	0.96	40	Diphacinone	2	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	13.34	30	Chlorophacinone	2	NO	NO	NO
87235-1-88689	EZ SOFT - SOFT BAIT RODENTICIDE	0.00	0.13	1	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.23	125	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.99	97	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.04	0.00	75	Deltamethrin	3	NO	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.38	25	Imidacloprid	3	NO	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	5.41	12	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.91	10	Boric acid	3	NO	NO	NO
1021-1641-57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	6	Esfenvalerate	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.08	6	Indoxacarb	3	NO	NO	NO
499-568	PT ALPINE PRESSURIZED FLY BAIT	0.00	0.88	3	Dinotefuran	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.02	3	Imidacloprid	3	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.69	2	Prallethrin	3	NO	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.31	2	Dinotefuran; Diatomaceous earth	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	0.00	1	Esfenvalerate	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
499-557	Alpine WSG	0.00	0.27	1	Novaluron	3	NO	NO	NO
101563-6	DELTA DUST	0.00	0.13	1	Deltamethrin	3	NO	NO	NO
499-550	TC-323	0.00	0.06	1	Prallethrin	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 2023.

Table 8: Types of Pesticides Used by BOE in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	33.90	96.6%	21	31.3%
Insecticide	0.10	100.0%	1.20	3.4%	46	68.7%
Totals	0.10		35.10		67	

Table 9: Pesticide Products Used by BOE in 2023 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	33.90	21	Difethialone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.91	27	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.25	7	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.03	0.00	6	Deltamethrin	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.02	0.00	4	Cyfluthrin, beta; Imidacloprid	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 2023.

Table 10: Types of Pesticides Used by OCME in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	8.23	78.0%	42	22.5%
Insecticide	0.36	100.0%	2.32	22.0%	145	77.5%
Totals	0.36		10.55		187	

Table 11: Pesticide Products Used by OCME in 2023

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	7.44	35	Difethialone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	0.18	4	Bromethalin	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	0.62	3	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.56	58	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.16	0.00	55	Deltamethrin	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.06	0.00	15	(7S)-Hydroprene	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.14	0.00	11	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.13	5	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.63	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 25 institutions. The University serves more than 225,000 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 2023.

Table 12: Types of Pesticides Used by CUNY in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	4779.4	99.9%	208	35.3%
Insecticide	17.39	100.0%	7.12	0.1%	382	64.7%
Totals	17.39		4,786.53		590	

Table 13: Pesticide Products Used by CUNY in 2023 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	4,761.19	158	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	12.25	34	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.31	7	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	3.31	4	Diphacinone	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1.31	4	Bromadiolone	3	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	0.03	1	Bromadiolone	3	NO	NO	NO
Insecticides									
101563-165	TEMPRID SC-F INSECTICIDE	0.67	0.00	107	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	3.68	102	Indoxacarb	3	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	0.14	0.00	52	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.85	29	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	2.36	0.00	24	Phenylethyl propionate	3	NO	NO	NO
53883-276	DELTA 4.75% SC	13.00	0.00	13	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.49	13	Boric acid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.02	0.00	8	Deltamethrin	3	NO	NO	NO
499-561	TC-315	0.00	0.13	8	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
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.24	6	Avermectin; Pyriproxyfen	3	NO	YES	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	0.00	5	(7S)-Hydroprene	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.00	3	Avermectin	3	NO	YES	NO
100-1066	DEMAND CS INSECTICIDE	0.00	0.13	2	Cyhalothrin, lambda	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	0.10	2	Clothianidin; Pyriproxyfen	0	NO	NO	NO
5481-520	WISDOM (R) TC FLOWABLE	1.00	0.00	1	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
101563-143	SUSPEND POLYZONE	0.01	0.00	1	Deltamethrin	3	NO	NO	NO
53883-335	N + P Regulator	0.00	0.00	1	Pyriproxyfen; Novaluron	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	0.00	1	Esfenvalerate	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	0.00	0.38	1	Disodium octaborate tetrahydrate	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	0.13	1	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
53883-438	CSI 16-107G Indoxacarb Powder	0.00	0.00	1	Indoxacarb	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 2023.

Table 14: Types of Pesticides Used by DCAS in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1319.68	97.9%	1545	57.7%
Insecticide	6.92	100.0%	28.38	2.1%	1131	42.3%
Totals	6.92		1,348.06		2,676	

Table 15: Pesticide Products Used by DCAS in 2023 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	445.45	692	Difethialone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.01	552.96	341	Bromadiolone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	139.63	210	Brodifacoum	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.03	110.10	112	Diphacinone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	22.22	68	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	16.93	43	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	5.53	40	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	2.49	20	Bromethalin	3	NO	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	6.08	12	Difethialone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	18.02	6	Brodifacoum	3	NO	NO	NO
87235-4	MONARK SB	0.00	0.26	1	Difenacoum	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	11.32	437	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	2.00	0.00	312	Deltamethrin	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	7.81	81	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	2.37	67	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	3.30	0.00	36	Phenylethyl propionate	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.04	0.00	22	(7S)-Hydroprene	3	NO	NO	NO
499-561	TC-315	0.00	0.23	18	Dinotefuran	3	NO	NO	NO
1021-1641-57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	0.00	0.00	4	Esfenvalerate	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
499-540	TC 303	0.00	3.81	4	Prallethrin; Pyriproxyfen; Dinotefuran	3	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	1.00	4	Boric acid	3	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.75	4	Avermectin	3	NO	YES	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	3	Cyhalothrin, lambda	3	NO	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	0.12	3	Clothianidin	0	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.01	3	Imidacloprid	3	NO	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.03	2	Indoxacarb	3	NO	NO	NO
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
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
499-568	PT ALPINE PRESSURIZED FLY BAIT	0.00	0.56	1	Dinotefuran	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	0.20	1	Indoxacarb	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.00	0.13	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.04	1	Avermectin; Pyriproxyfen	3	NO	YES	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.01	1	Indoxacarb	3	NO	NO	NO

Correction, Department of

The Department of Correction (DOC) is responsible for New York City's incarcerated population, 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 2023.

Table 16: Types of Pesticides Used by DOC in 2023

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

Rodenticide	0.00	0.0%	33.80	80.5%	99	32.7%
Insecticide	11.55	100.0%	8.17	19.5%	204	67.3%
Totals	11.55		41.97		303	

Table 17: Pesticide Products Used by DOC in 2023 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	17.98	53	Difethialone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	15.81	46	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1498	DUPONT ADVION ANT GEL	0.00	1.17	36	Indoxacarb	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	0.11	0.00	33	Cyfluthrin, beta	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	1.57	32	Clothianidin; Pyriproxyfen	0	NO	NO	NO
397-13	STERI-FAB	10.60	0.00	23	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.77	0.32	20	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	3.13	18	Boric acid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.90	18	Avermectin; Pyriproxyfen	3	NO	YES	NO
499-507	PRESCRIPTION BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	1.05	16	Dinotefuran	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.00	0.00	4	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
73079-2	INTICE GRANULAR BAIT	0.00	0.04	3	Boric acid	3	NO	NO	NO
9688-255-8845	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	0.06	0.00	1	Deltamethrin; S-Bioallethrin	3	YES	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. NYCEDC reported no pesticide applications in 2023.

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 18 summarizes DOE pesticide use by pesticide type. Table 19 lists all pesticide products used in 2023.

Table 18: Types of Pesticides Used by DOE in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	11393.74	99.1%	8552.23	77.8%	12,172	34.8%
Insecticide	108.22	0.9%	2440.04	22.2%	22,813	65.2%
Totals	11,501.96		10,992.27		34,985	

Table 19: Pesticide Products Used by DOE in 2023 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	5,905.86	9,758	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1,426.25	633	Bromadiolone	3	NO	NO	NO
7173-308	Chlorophacinon e Soft Bait	0.00	339.75	433	Chlorophacinone	3	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	323.38	428	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	224.50	386	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
7173-304	BROMETHALIN SOFT BAIT	0.00	11.81	374	Bromethalin	3	NO	NO	NO
7173-313	IGI CARBON DIOXIDE	11,393.74	0.00	94	Carbon dioxide	2	NO	NO	NO
12455-139	Final Soft Bait	0.00	12.76	37	Brodifacoum	3	NO	NO	NO
12455-148	Rat Ice	0.00	299.00	13	Carbon dioxide	2	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	5.25	10	Bromadiolone	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	0.75	4	Chlorophacinone	2	NO	NO	NO
7969-382	Selontra Rodent Bait	0.00	2.91	2	Cholecalciferol	3	NO	NO	NO
Insecticides									
64405-2	REDZONE BAIT	1.00	1,681.09	10,773	Boric acid	3	NO	NO	NO
499-510	PRESCRIPTIO N TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	86.37	8,319	Dinotefuran	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	23.69	1,492	Disodium octaborate tetrahydrate	3	NO	NO	NO
2724-484	RF 9707 AEROSOL	0.26	422.66	767	(7S)-Hydroprene	3	NO	NO	NO
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	67.58	306	Imidacloprid	3	NO	NO	NO
89459-84	RF2228 LH AEROSOL	22.33	9.95	186	Cyhalothrin, lambda; (7S)-Hydroprene	3	NO	NO	NO
499-473	WHITMIRE MICRO-GEN TC 205 INJECTION SYSTEM	20.28	0.00	171	Cyhalothrin, lambda	3	NO	NO	NO
64405-37	Nibor-D Insecticide Foam + IGR	0.00	47.54	144	Disodium octaborate tetrahydrate; Pyriproxyfen	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.00	24.75	131	Deltamethrin	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	63.35	0.00	123	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	2.65	102	Avermectin; Pyriproxyfen	3	NO	YES	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.06	68	Indoxacarb	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.57	60	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
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	22.50	43	Indoxacarb	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	0.72	34	Clothianidin; Pyriproxyfen	0	NO	NO	NO
499-550	TC-323	0.00	10.75	17	Prallethrin	3	NO	NO	NO
499-294	AVERT PRESCRIPTIO N TREATMENT 310	0.00	1.17	15	Avermectin	3	NO	YES	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	1.94	13	Avermectin	3	NO	YES	NO
101563-93	TEMPO 1% PROFESSION AL INSECTICIDE	0.00	1.25	11	Cyfluthrin	3	NO	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.00	1.63	9	Boric acid	3	NO	NO	NO
2724-469	ZOECON (S)- HYDROPRENE ROACH CONTROL STATION II	0.73	0.00	4	(7S)-Hydroprene	3	NO	NO	NO
5481-13	ALCO FLY FIGHTER INSECT SPRAY PRESSURIZED	0.00	0.25	4	DDVP	3	YES	NO	YES
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.04	4	Imidacloprid	3	NO	NO	NO
499-527	PRESCRIPTIO N TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.44	3	Dinotefuran; Diatomaceous earth	3	NO	NO	NO
499-507	PRESCRIPTIO N TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	0.02	3	Dinotefuran	3	NO	NO	NO
499-500	PRESCRIPTIO N TREATMENT BRAND ADVANCE COMPRESSED TERMITE BAIT II	0.00	25.44	2	Diflubenzuron	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	4.50	2	Bacillus thuringiensis subspecies Israelensis strain BMP 144	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
499-561	TC-315	0.00	0.05	2	Dinotefuran	3	NO	NO	NO
2724-786-89459	Zenprox Wasp-X2 Spray	0.27	0.00	1	Tetramethrin; Piperonyl butoxide; Ethofenprox	3	YES	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.00	0.00	1	Cyhalothrin, lambda	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	0.00	0.38	1	Disodium octaborate tetrahydrate	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
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	0.00	0.02	1	Bifenthrin	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 20 summarizes DEP pesticide use by pesticide type. Table 21 lists all pesticide products used in 2023.

Table 20: Types of Pesticides Used by DEP in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	267.87	68.4%	609	33.3%
Insecticide	0.89	10.8%	123.83	31.6%	1211	66.2%
Herbicide	7.33	89.2%	0.00	0.0%	9	0.5%
Totals	8.22		391.69		1,829	

Table 21: Pesticide Products Used by DEP in 2023 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	251.02	525	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	16.64	83	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
7173-297	BROMADIOLON E PASTE 0901	0.00	0.21	1	Bromadiolone	3	NO	NO	NO
Insecticides									
64405-2	REDZONE BAIT	0.00	72.81	424	Boric acid	3	NO	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	2.31	376	Dinotefuran	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.61	15.84	132	Deltamethrin	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	1.02	120	Disodium octaborate tetrahydrate	3	NO	NO	NO
2724-484	RF 9707 AEROSOL	0.00	23.19	93	(7S)-Hydroprene	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.18	0.00	17	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.38	14	Indoxacarb	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	5.59	13	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.22	6	Indoxacarb	3	NO	NO	NO
101563-93	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	0.75	3	Cyfluthrin	3	NO	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.02	3	Imidacloprid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.01	0.00	2	(7S)-Hydroprene	3	NO	NO	NO
89459-84	RF2228 LH AEROSOL	0.00	0.44	2	Cyhalothrin, lambda; (7S)-Hydroprene	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
499-550	TC-323	0.00	0.75	1	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
53883-118	BIFENTHRIN TC INSECTICIDE/TERMITICIDE	0.00	0.19	1	Bifenthrin	3	YES	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.00	0.19	1	Boric acid	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.00	0.13	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
Herbicides									
83100-76	GF-1280	0.83	0.00	5	Glyphosate, dimethylammonium salt	3	NO	NO	YES
42750-247	DUPONT KRENITE S BRUSH CONTROL AGENT	6.50	0.00	4	Fosamine, ammonium salt	3	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 22 summarizes pesticide use by pesticide type. Table 23 lists all pesticide products used by DOF in 2023.

Table 22: Types of Pesticides Used by DOF in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	13.42	86.1%	21	29.2%
Insecticide	0.12	0.0%	2.17	13.9%	51	70.8%
Totals	0.12		15.59		72	

Table 23: Pesticide Products Used by DOF in 2023 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	12.36	18	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	1.06	3	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.07	37	Indoxacarb	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.29	6	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
101563-4	SUSPEND SC INSECTICIDE	0.03	0.00	4	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.80	2	Boric acid	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

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 24 summarizes FDNY pesticide use by pesticide type. Table 25 lists all pesticide products used in 2023.

Table 24: Types of Pesticides Used by FDNY in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1,264.54	93.0%	1,514	36.7%
Insecticide	11.31	100.0%	94.49	7.0%	2,613	63.3%
Totals	11.31		1,359.03		4,127	

Table 25: Pesticide Products Used by FDNY in 2023 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	1,208.45	1,347	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	15.40	60	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	8.99	47	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	29.58	43	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	1.16	14	Bromethalin	3	NO	NO	NO
87235-4	MONARK SB	0.00	0.96	3	Difenacoum	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.05	20.49	1,059	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
101563-4	SUSPEND SC INSECTICIDE	2.99	0.00	811	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	46.62	225	Boric acid	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	2.32	0.00	193	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	6.11	173	Indoxacarb	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	5.56	0.00	68	Phenylethyl propionate	3	NO	NO	NO
499-550	TC-323	0.20	17.78	15	Prallethrin	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.43	13	Avermectin; Pyriproxyfen	3	NO	YES	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	0.00	12	(7S)-Hydroprene	3	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	2.01	12	Avermectin	3	NO	YES	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	0.08	5	Indoxacarb	3	NO	NO	NO
8033-114-279	ENDZONE INSECTICIDE STICKER	0.00	0.00	4	Acetamiprid	3	NO	NO	NO
53883-335	N + P Regulator	0.05	0.00	3	Pyriproxyfen; Novaluron	3	NO	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	0.25	3	Deltamethrin	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.01	3	Imidacloprid	3	NO	NO	NO
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
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	2	(7S)-Hydroprene	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	0.31	2	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
499-561	TC-315	0.00	0.02	2	Dinotefuran	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	0.02	2	Clothianidin; Pyriproxyfen	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
101563-143	SUSPEND POLYZONE	0.00	0.00	1	Deltamethrin	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
101563-119	BES 0026 FLY SPOT BAIT	0.00	0.13	1	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
53883-466-82540	CSI 18-264A INDOX ANT GEL	0.00	0.07	1	Indoxacarb	3	NO	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 eleven 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 26 summarizes H+H pesticide use by pesticide type. Table 27 lists products by pesticide types in 2023.

Table 26: Types of Pesticides Used by H+H in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	87.48	19.3%	184	5.4%
Insecticide	319.40	100.0%	365.54	80.6%	3,253	94.6%
Other	0.00	0.0%	0.50	0.1%	1	0.0%
Totals	319.40		453.52		3,438	

Table 27: Pesticide Products Used by H+H in 2023 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	86.55	182	Difethialone	3	NO	NO	NO
12455-149	F-Trac Soft Bait	0.00	0.55	1	Bromethalin	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	0.38	1	Chlorophacinone	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
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	28.03	656	Indoxacarb	3	NO	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	119.11	303	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	6.46	152	Indoxacarb	3	NO	NO	NO
397-13	STERI-FAB	0.00	174.56	125	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
499-561	TC-315	42.20	0.00	88	Dinotefuran	3	NO	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	27.95	0.00	59	Indoxacarb	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	1.00	16.03	50	Disodium octaborate tetrahydrate	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	20.00	0.00	48	Cyhalothrin, lambda	3	NO	NO	NO
1677-43	STER-BAC	13.46	0.00	35	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO	NO
1021-1603	NYLAR 10EC	5.54	0.00	34	Pyriproxyfen	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	11.00	33	Boric acid	3	NO	NO	NO
5481-8973	ORTHENE PCO FORMULA II	0.10	0.00	1	Acephate	3	YES	NO	NO
499-540	TC 303	0.00	6.25	1	Prallethrin; Pyriproxyfen; Dinotefuran	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	2.00	1	Indoxacarb	3	NO	NO	NO
47000-73-1677	SSI-50 INSECTICIDE	0.00	2.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
5481-533-47000	PROZAP INSECT GUARD	0.00	0.11	1	DDVP	3	YES	NO	YES
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
55943-1	HOT FOOT BIRD REPELLENT	0.00	0.50	1	Polybutenes	3	NO	NO	NO

Health and Mental Hygiene, Department of

The Department of Health and Mental Hygiene (the Health Department) protects and promotes the health of all New Yorkers. The Bureau of Veterinary and Pest Control Services at the Health Department protects the public from animal- and vector-borne diseases, and other hazards, including those that result from uncontrolled rodents or unregulated animals. 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 28 and 29. 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 the Health Department is done through private contractors. Table 28 summarizes the Health Department pesticide use by pesticide type. Table 29 lists all pesticide products used in 2023.

Table 28 Types of Pesticides Used by the Health Department in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	29592.93	40.4%	41,826	56.7%
Insecticide	435.81	100.0%	43649.96	59.6%	31,998	43.3%
Totals	435.81		73,242.90		73,824	

Table 29 Pesticide Products Used by the Health Department in 2023 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	11,205.00	20,225	Brodifacoum	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	9,122.18	15,254	Bromadiolone	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	7,808.50	2,950	Difethialone	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
12455-133	CONTRAC WITH LUMITRACK	0.00	420.13	1,186	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	162.04	586	Bromadiolone	3	NO	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	317.13	582	Brodifacoum	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	47.07	482	Bromadiolone	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.00	45.60	249	Bromethalin	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	255.06	197	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	181.94	75	Difethialone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	17.50	36	Brodifacoum	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	0.16	2	Bromethalin	3	NO	NO	NO
12455-148	Rat Ice	0.00	10.00	1	Carbon dioxide	2	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	0.63	1	Bromadiolone	3	NO	NO	NO
Insecticides									
73049-429	VECTOMAX FG	0.00	4,218.42	31,314	Bacillus sphaericus; Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	7.02	174	Indoxacarb	3	NO	NO	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	28,400.50	151	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
1021-1795-8329	DUET DUAL-ACTION ADULTICIDE	387.38	0.00	74	Phenothrin; Piperonyl butoxide; Prallethrin	3	YES	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.22	0.00	57	Deltamethrin	3	NO	NO	NO
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	10,990.00	54	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	3.97	44	Boric acid	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.56	0.00	40	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.06	30	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
89459-59	ENVI ACU CONTACT Insecticide	2.04	0.00	24	Phenylethyl propionate	3	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	26.38	18	Bacillus sphaericus	3	NO	NO	NO
8329-108	MERUS 3.0	30.43	0.00	7	Pyrethrins	0	YES	NO	NO
1021-1688-8329	ANVIL 10+10 ULV	15.01	0.00	3	Phenothrin; Piperonyl butoxide	3	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	0.01	0.00	2	(7S)-Hydroprene	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 30 summarizes DHS pesticide use by pesticide type. Table 31 lists all pesticide products used in 2023.

Table 30: Types of Pesticides Used by DHS in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	1063.23	97.2%	632	39.4%
Insecticide	4.92	100.0%	31.08	2.8%	974	60.6%
Totals	4.92		1,094.30		1,606	

Table 31: Pesticide Products Used by DHS in 2023 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	1,058.11	617	Difethialone	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
12455-146	CONTRAC SOFT BAIT	0.00	2.84	9	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	2.28	6	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	29.10	599	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.22	0.00	283	Deltamethrin	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	3.41	0.00	41	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	0.78	19	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	1.15	6	Boric acid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.01	0.00	4	(7S)-Hydroprene	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	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 32 summarizes NYCHA pesticide use by pesticide type on NYCHA property. Table 33 lists the products used in 2023.

Table 32: Types of Pesticides Used by NYCHA in 2023

Pesticide Type	Volume*		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	5,896.32	94.1%	21,791.13	69.5%	63,581	36.0%
Insecticide	372.08	5.9%	9,564.96	30.5%	113,121	64.0%

Totals	6,268.40	31,356.09	176,702
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Table 33: Pesticide Products Used by NYCHA in 2023 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	13,543.89	49,424	Difethialone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	491.90	9,050	Diphacinone	2	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1,873.27	1,268	Bromadiolone	3	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.00	1,397.34	1,170	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	360.81	1,132	Brodifacoum	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,050.72	885	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	257.97	464	Bromadiolone	3	NO	NO	NO
7173-313	IGI CARBON DIOXIDE	5,896.32	0.00	61	Carbon dioxide	2	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	18.52	48	Bromadiolone	3	NO	NO	NO
12455-90	FINAL RODENTICIDE	0.00	155.94	31	Brodifacoum	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	3.81	23	Chlorophacino ne	2	NO	NO	NO
12455-148	Rat Ice	0.00	2,630.50	13	Carbon dioxide	2	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	4.06	10	Diphacinone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	1.76	1	Bromethalin	3	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	0.63	1	Diphacinone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	968.08	40,998	Indoxacarb	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	20.99	0.00	27,011	(7S)-Hydroprene	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	13.25	0.00	8,133	Deltamethrin	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	168.96	7,967	Avermectin; Pyriproxyfen	3	NO	YES	NO
101563-134	TEMPRID SC INSECTICIDE	1.09	0.00	5,880	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	7,218.76	5,770	(7S)-Hydroprene	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	321.63	0.00	3,763	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	86.34	3,487	Clothianidin; Pyriproxyfen	0	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	3.41	0.00	2,447	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	41.19	1,929	Emamectin, benzoate	3	NO	NO	NO
101563-47	MAXFORCE ROACH BAIT F.05	0.00	30.50	840	Fipronil	3	YES	NO	NO
64405-2	REDZONE BAIT	0.00	169.69	833	Boric acid	3	NO	NO	NO
53883-438	CSI 16-107G Indoxacarb Powder	0.00	14.79	818	Indoxacarb	3	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	10.14	652	Fipronil	3	YES	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	338.50	600	Indoxacarb	3	NO	NO	NO
101563-49	PRODUCT: RBF5	0.00	11.85	445	Fipronil	3	YES	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	107.75	366	Deltamethrin	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	0.00	253.44	261	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.00	3.51	214	Disodium octaborate tetrahydrate	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	56.13	165	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.06	0.00	104	Cyfluthrin	3	NO	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	35.79	90	Boric acid	3	NO	NO	NO
499-500	PRESCRIPTION TREATMENT BRAND ADVANCE COMPRESSED TERMITE BAIT II	10.38	0.00	84	Diflubenzuron	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
101563-94	PRE-EMPT FLY BAIT	0.00	19.10	65	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
1021-2776	VBC3 INSECTICIDE	0.48	0.00	38	Clothianidin; Piperonyl butoxide; Metofluthrin (ISO)	0	YES	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.21	0.00	38	S-Methoprene	3	NO	NO	NO
499-550	TC-323	0.00	26.29	24	Prallethrin	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.02	0.00	23	Cyhalothrin, lambda	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	1.29	23	Indoxacarb	3	NO	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	0.26	18	Clothianidin	0	NO	NO	NO
100-1679	Advion Trio	0.00	0.15	8	Indoxacarb; Pyriproxyfen; Novaluron	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.55	0.00	5	Phenylethyl propionate	3	NO	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	0.32	5	S-Methoprene	3	NO	NO	NO
499-561	TC-315	0.00	0.01	5	Dinotefuran	3	NO	NO	NO
499-568	PT ALPINE PRESSURIZED FLY BAIT	0.00	0.73	4	Dinotefuran	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.16	4	Indoxacarb	3	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	1.25	3	Avermectin	3	NO	YES	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	1	Cyhalothrin, lambda	3	NO	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 34 summarizes HPD pesticide use by pesticide type. Table 35 lists all pesticide products used in 2023.

Table 34: Types of Pesticides Used by HPD in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.02	0.2%	459.42	46.4%	2,428	39.3%
Insecticide	9.03	99.8%	531.38	53.6%	3,747	60.7%
Totals	9.04		990.80		6,175	

Table 35: Pesticide Products Used by HPD in 2023

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	896.81	771	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	44.49	77	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	14.39	43	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	5.86	30	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	2.05	16	Bromethalin	3	NO	NO	NO
Insecticides									
101563-4	SUSPEND SC INSECTICIDE	3.10	0.00	687	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	15.22	534	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	3.57	0.00	293	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	32.57	147	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.47	131	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	0.04	0.00	12	(7S)-Hydroprene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.22	6	Avermectin; Pyriproxyfen	3	NO	YES	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.19	3	Avermectin	3	NO	YES	NO
499-550	TC-323	0.23	0.00	1	Prallethrin	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

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
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
2724-451	ZOECON 9010 GR	0.00	0.21	1	S-Methoprene	3	NO	NO	NO
73079-12	SILICIDE(TM)	0.00	0.06	1	Diatomaceous earth	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.00	1	Imidacloprid	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 five boroughs. Table 36 summarizes HRA pesticide use by pesticide type. Table 37 lists the products used in 2023.

Table 36: Types of Pesticides Used by HRA in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	84.50	84.2%	114	12.5%
Insecticide	12.00	100.0%	15.81	15.8%	796	87.5%
Totals	12.00		100.31		910	

Table 37: Pesticide Products Used by HRA in 2023 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	78.88	93	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	5.19	17	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	0.34	2	Bromethalin	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	0.07	1	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	0.03	1	Bromadiolone	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	12.21	308	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	1.16	0.00	210	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
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	0.94	23	Indoxacarb	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	2.37	22	Boric acid	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.02	0.00	5	(7S)-Hydroprene	3	NO	NO	NO
499-561	TC-315	0.00	0.02	4	Dinotefuran	3	NO	NO	NO
101563-143	SUSPEND POLYZONE	0.00	0.00	1	Deltamethrin	3	NO	NO	NO
279-3443	D-FOAM INSECTICIDE	0.00	0.13	1	Deltamethrin	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.08	1	Imidacloprid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.07	1	Avermectin; Pyriproxyfen	3	NO	YES	NO

New York Public Libraries

The New York Public Library (NYPL), through its 85 branches, 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 2023.

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 by weight. 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 38 summarizes pesticide use by pesticide type. Table 39 below lists for each pesticide type,

all products used, unless there were more than ten, in which case the ten most frequently applied products are listed in 2023. Appendix 2 includes a complete product listing for DPR.

Table 38: Types of Pesticides Used by DPR in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.28	0.0%	9,185.33	20.3%	3,851	25.7%
Insecticide	348.83	7.2%	2,040.20	4.5%	8,873	59.2%
Herbicide	1,020.34	21.0%	25,030.23	55.4%	964	6.4%
Fungicide	3,396.34	70.0%	8,900.04	19.7%	1,237	8.3%
Other	84.00	1.7%	0.28	0.0%	59	0.4%
Totals	4,849.78		45,156.07		14,984	

Table 39: Ten Most Frequently Applied Pesticide Products by DPR in 2023 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									
12455-69	CONTRAC RODENTICIDE	0.00	1,271.44	1,035	Bromadiolone	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	549.96	684	Difethialone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	1,278.63	560	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	5,236.00	318	Carbon dioxide	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.02	220.41	267	Bromadiolone	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	16.44	159	Bromethalin	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	65.49	100	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	115.33	99	Difethialone	3	NO	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	42.88	86	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	101.03	80	Bromadiolone	3	NO	NO	NO
Insecticides									
74578-12	TREE-AGE R10	74.27	0.00	7,207	Emamectin, benzoate	2	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	5.00	8.66	317	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.66	6.14	239	Deltamethrin	3	NO	NO	NO
7173-305	ROZOL GROUND SQUIRREL BAIT	0.00	220.25	149	Chlorophacinone	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	10.53	304	134	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4	126	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.91	0	85	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-6	DELTA DUST	6.00	1	48	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	8	48	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
499-550	TC-323	1.27	51.88	43	Prallethrin	3	NO	NO	NO
Herbicides									
62719-527	GARLON 4 ULTRA	19.00	0.00	173	Triclopyr	2	NO	NO	NO
100-937	PRIMO MAXX	41.15	0.00	90	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	23.09	0.00	68	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	43.86	0.00	55	Trinexapac-ethyl	3	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	12.18	0.00	55	Imazamox	3	NO	NO	NO
62719-519	MILESTONE	1.86	0.00	54	Aminopyralid, trisopropanolamine salt	3	NO	NO	NO
62719-687	VASTLAN	6.80	0.00	50	Triclopyr, Choline Salt	2	NO	NO	NO
62719-176	PATHFINDER II	0.00	19.33	48	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-542	DIMENSION 2EW	83.37	9.37	45	Dithiopyr	2	NO	NO	NO
10163-325	SCYTHE HERBICIDE	16.73	121.50	42	Nonanoic acid	2	NO	NO	NO
Fungicides									
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	109.46	120	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-1364	DACONIL ACTION	772.86	0.00	100	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	158.37	20.00	60	Propamocarb hydrochloride	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	0.00	1,386.91	44	Fosetyl-Al	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	50.42	0.00	34	Trinexapac-ethyl	3	NO	NO	NO
86064-6	ArmorTech ZOXY 2F	45.47	0.00	34	Azoxystrobin	3	NO	NO	NO
228-630-86064	ArmorTech TMI 2020 FLO	74.00	0.00	29	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	5.12	651.53	29	Thiabendazole	3	YES	NO	NO
100-1633	Secure Action	41.92	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	26	Mineral oil	3	NO	NO	NO
Other									
59807-4	HORMODIN 1	0.00	0.28	40	IBA	3	NO	NO	NO
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	14.00	0.00	14	Copper oxide (ous)	2	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	4	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	70.00	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 40 summarizes NYPD pesticide use by pesticide type. Table 41 lists all pesticide products used in 2023.

Table 40 Types of Pesticides Used by NYPD in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	963.61	94.8%	937	33.4%
Insecticide	11.83	100.0%	52.96	5.2%	1,871	66.6%
Totals	11.83		1,016.57		2,808	

Table 41: Pesticide Products Used by NYPD in 2023 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	896.81	771	Difethialone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	44.49	77	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	14.39	43	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	5.86	30	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	2.05	16	Bromethalin	3	NO	NO	NO
Insecticides									
101563-4	SUSPEND SC INSECTICIDE	3.10	0.00	687	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	15.22	534	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	3.57	0.00	293	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	32.57	147	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4.47	131	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	0.04	0.00	12	(7S)-Hydroprene	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.00	0.22	6	Avermectin; Pyriproxyfen	3	NO	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
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.19	3	Avermectin	3	NO	YES	NO
499-550	TC-323	0.23	0.00	1	Prallethrin	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
2724-469	ZOECON (S)- HYDROPRENE ROACH CONTROL STATION II	0.00	0.00	1	(7S)- Hydroprene	3	NO	NO	NO
2724-451	ZOECON 9010 GR	0.00	0.21	1	S-Methoprene	3	NO	NO	NO
73079-12	SILICIDE(TM)	0.00	0.06	1	Diatomaceous earth	3	NO	NO	NO
92028-3- 47000	SureKill Roach Gel Bait	0.00	0.00	1	Imidacloprid	3	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. QPL reported no pesticide applications for 2023.

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 42 summarizes DSNY pesticide use by pesticide type. Table 43 lists the products used in 2023.

Table 42: Types of Pesticides Used by DSNY in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	286.82	99.5%	449	25.5%

Insecticide	5.67	100.0%	1.31	0.5%	1,310	74.5%
Totals	5.67		288.13		1,759	

Table 43: List of Pesticides Applied by DSNY in 2023

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									
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	124.58	171	Brodifacoum	3	NO	NO	NO
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	68.64	151	Bromadiolone	3	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	47.08	69	Brodifacoum	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	26.74	35	Difethialone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	9.54	13	Brodifacoum	3	NO	NO	NO
56-42-8254	EATON'S ALL-WEATHER BAIT BLOCKS RODENTICIDE WITH MOLASSES/PEA NUT BUTTE	0.00	10.25	10	Diphacinone	3	NO	NO	NO
Insecticides									
2724-351-50809	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	2.34	0.00	598	(7S)-Hydroprene	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	0.20	0.00	381	Cyhalothrin, lambda	3	NO	NO	NO
432-763-62719	SUSPEND SC	0.96	0.00	220	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	0.82	30	Indoxacarb	3	NO	NO	NO
73766-1	GOURMET ANT BAIT GEL	0.62	0.00	28	Disodium octaborate tetrahydrate	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.20	0.00	24	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	0.43	13	Boric acid	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.05	0.00	6	Avermectin; Pyriproxyfen	3	NO	YES	NO
499-462	PRO-CONTROL FOGGER IV	1.13	0.00	5	Pyrethrins; Cyfluthrin; Piperonyl butoxide	3	YES	NO	NO
499-550	TC-323	0.14	0.00	1	Prallethrin	3	NO	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.02	0.00	1	Phenylethyl propionate	3	NO	NO	NO
432-1455-11556	QUICKBAYT SPOT SPRAY	0.02	0.00	1	(Z)-9-Tricosene	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	1	Deltamethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.05	1	Indoxacarb	3	NO	NO	NO

School Construction Authority

The School Construction Authority (SCA) designs and constructs safe, attractive, and environmentally sound public schools for children throughout the many communities of New York City. They are dedicated to building and modernizing schools in a responsible, cost-effective manner while achieving the highest standards of excellence in safety, quality, and integrity. Table 44 summarizes pesticide use by pesticide type. Table 45 lists all pesticide products used by SCA in 2023.

Table 44: Types of Pesticides Used by SCA in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	35.94	98.0%	213	97.7%
Insecticide	0.00	100.0%	0.75	2.0%	5	2.3%
Totals	0.00		36.69		218	

Table 45: Pesticide Products Used by SCA in 2023

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	31.94	189	Difethialone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	1.12	10	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	1.02	9	Bromethalin	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1.69	4	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	0.16	1	Bromadiolone	3	NO	NO	NO
Insecticides									
64405-2	REDZONE BAIT	0.00	0.75	5	Boric acid	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 46 summarizes DOT pesticide use by pesticide type. Table 47 lists all pesticide products used in 2023.

Table 46: Types of Pesticides Used by DOT in 2023

Pesticide Type	Volume		Weight		Times Applied	
	Gallons	% of Total	Pounds	% of Total	Number	% of Total
Rodenticide	0.00	0.0%	340.35	74.8%	312	11.1%
Insecticide	2.79	1.1%	3.73	0.8%	389	13.8%
Herbicide	260.12	98.9%	111.06	24.4%	2,113	75.1%
Totals	262.91		455.14		2,814	

Table 47: Pesticide Products Used by DOT in 2023

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	326.91	281	Difethialone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	6.64	14	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	2.82	10	Bromadiolone	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	3.91	6	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	0.07	1	Bromethalin	3	NO	NO	NO
Insecticides									
101563-4	SUSPEND SC INSECTICIDE	1.06	0.00	156	Deltamethrin	3	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	0.00	1.94	99	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	1.06	13	Boric acid	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	0.57	13	Indoxacarb	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	0.01	2	Imidacloprid	3	NO	NO	NO
499-550	TC-323	0.38	0.00	1	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
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.00	0.00	1	(7S)-Hydroprene	3	NO	NO	NO
Herbicides									
DUPONT VIEWPOINT HERBICIDE	2.83	97.44	465	Aminocyclopyrachlor; Imazapyr; Metsulfuron-methyl	3	NO	NO	NO	DUPONT VIEWPOINT HERBICIDE
DERRINGER HERBICIDE	98.61	12.50	464	Glufosinate-ammonium	2	NO	NO	NO	DERRINGER HERBICIDE
MILESTONE	7.32	0.00	456	Aminopyralid, trisopropazine salt	3	NO	NO	NO	MILESTONE
ESPLANADE 200 SC	5.60	0.00	442	Indaziflam	3	NO	NO	NO	ESPLANADE 200 SC
PATHFINDER II	145.29	1.13	279	Triclopyr, butoxyethyl ester	3	NO	NO	NO	PATHFINDER II
FINALE XL	0.47	0.00	7	Glufosinate-ammonium	2	NO	NO	NO	FINALE XL

APPENDIX 1: Complete Listing of Pesticide Products Used by New York City Agencies by Pesticide Type in 2023

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	37,465.40	69697	Difethialone	3	NO	NO	NO
12455-90	FINAL RODENTICIDE	0.00	11,360.94	20256	Brodifacoum	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	13,813.01	18479	Bromadiolone	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	498.14	9160	Diphacinone	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.03	2,356.09	1972	Bromadiolone	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	574.73	1399	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	496.69	1303	Brodifacoum	3	NO	NO	NO
7173-304	BROMETHALIN SOFT BAIT	0.02	75.50	1241	Bromethalin	3	NO	NO	NO
12455-133	CONTRAC WITH LUMITRACK	0.00	420.13	1186	Bromadiolone	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	334.68	1172	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	1,152.52	985	Bromadiolone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	1,538.94	767	Bromadiolone	3	NO	NO	NO
100-1055	WEATHERBLOK BAIT WITH BITREX	0.00	317.13	582	Brodifacoum	3	NO	NO	NO
7173-308	Chlorophacinone Soft Bait	0.00	339.75	433	Chlorophacinone	3	NO	NO	NO
82744-2-56	JT EATON NECTUS SOFT BAIT 2G SECOND GENERATION RODENTICIDE	0.00	323.41	429	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	8,175.50	345	Carbon dioxide	2	NO	NO	NO
12455-89	FINAL ALL-WEATHER BLOX	0.00	186.71	279	Brodifacoum	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	297.27	174	Difethialone	3	NO	NO	NO
12455-91	FINAL RODENTICIDE READY-TO-USE PLACE PAC	0.00	124.58	171	Brodifacoum	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	16.44	159	Bromethalin	3	NO	NO	NO
7173-313	IGI CARBON DIOXIDE	17,290.06	0.00	155	Carbon dioxide	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
12455-76	CONTRAC RODENTICIDE READY TO USE PLACE PAC	0.00	68.64	151	Bromadiolone	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.03	173.75	128	Diphacinone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	16.26	103	Bromethalin	3	NO	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	42.88	86	Bromadiolone	3	NO	NO	NO
7173-113	ROZOL TRACKING POWDER	0.00	29.54	76	Chlorophacinone	2	NO	NO	NO
12455-97	FASTRAC PLACE PACS	0.00	27.87	57	Bromethalin	3	NO	NO	NO
12455-95	FASTRAC ALL- WEATHER BLOX	0.00	23.38	50	Bromethalin	3	NO	NO	NO
61282-97- 56	JT Eaton™ Answer® Kills Mice with Reusable Bait Station A	0.00	15.69	30	Bromethalin	3	NO	NO	NO
7173-218	GENERATION MINI BLOCKS	0.00	7.78	19	Difethialone	3	NO	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	8.25	17	Difethialone	3	NO	NO	NO
72500-13	NOVEL COMMENSAL RODENT PELLETT # 2	0.00	6.88	16	Imidacloprid; Warfarin	3	NO	YES	NO
12455-106	TERAD3 BLOX	0.00	12.25	15	Cholecalciferol	3	NO	NO	NO
12455-61	LIQUA-TOX II	0.25	0.44	12	Diphacinone, sodium salt	3	NO	NO	NO
47629-16	DIFENACOU M RAT AND MOUSE BLOCK	0.00	8.69	12	Difenacoum	3	NO	NO	NO
56-42- 8254	EATON'S ALL- WEATHER BAIT BLOCKS RODENTICIDE WITH MOLASSES/PEANUT BUTTE	0.00	10.25	10	Diphacinone	3	NO	NO	NO
91601-1	ContraPest®	0.00	7.00	9	4- Vinylcyclohexene diepoxide; Triptolide	3	NO	NO	YES
7173-187	MAKI PARAFFINIZED PELLETS	0.00	1.94	5	Bromadiolone	3	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	12.63	4	Diphacinone	3	NO	NO	NO
87235-4	MONARK SB	0.00	1.22	4	Difenacoum	3	NO	NO	NO
7969-382	Selontra Rodent Bait	0.00	2.91	2	Cholecalciferol	3	NO	NO	NO
7173-215	MAKI Rodenticide MINI BLOCKS	0.00	0.75	2	Bromadiolone	3	NO	NO	NO
12455-149	F-Trac Soft Bait	0.00	0.55	1	Bromethalin	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
87235-1-88689	EZ SOFT - SOFT BAIT RODENTICIDE	0.00	0.13	1	Bromadiolone	3	NO	NO	NO
12455-75	CONTRAC RAT AND MOUSE BAIT READY TO USE PLACE PAC	0.00	0.09	1	Bromadiolone	3	NO	NO	NO
12455-96	F-TRAC RODENTICIDE	0.00	0.03	1	Bromethalin	3	NO	NO	NO
Insecticides									
100-1484	DUPONT ADVION COCKROACH GEL BAIT	5.05	1,161.42	46192	Indoxacarb	3	NO	NO	NO
73049-429	VECTOMAX FG	0.00	4,219.81	31318	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	21.30	3.06	27126	(7S)-Hydroprene	3	NO	NO	NO
64405-2	REDZONE BAIT	1.00	2,072.02	12800	Boric acid	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	27.80	46.73	11433	Deltamethrin	3	NO	NO	NO
499-510	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT PISTON CAN	0.00	88.68	8695	Dinotefuran	3	NO	NO	NO
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.05	175.73	8179	Avermectin; Pyriproxyfen	3	NO	YES	NO
74578-12	TREE-AGE R10	74.27	0.00	7207	Emamectin, benzoate	2	NO	NO	NO
101563-134	TEMPRID SC INSECTICIDE	1.22	0.00	5932	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.73	7,218.79	5784	(7S)-Hydroprene	3	NO	NO	NO
1021-2796	MGK Formula 3113	0.00	247.66	4090	Clothianidin; Pyriproxyfen	0	NO	NO	NO
397-13	STERI-FAB	335.80	174.60	3921	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	16.06	0.00	3581	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	45.98	1957	Emamectin, benzoate	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
73766-1	GOURMET ANT BAIT GEL	0.62	28.22	1854	Disodium octaborate tetrahydrate	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	213.19	1377	Indoxacarb	3	NO	NO	NO
2724-484	RF 9707 AEROSOL	0.26	449.16	869	(7S)-Hydroprene	3	NO	NO	NO
101563-47	MAXFORCE ROACH BAIT F.05	0.00	30.50	840	Fipronil	3	YES	NO	NO
53883-438	CSI 16-107G Indoxacarb Powder	0.00	14.80	819	Indoxacarb	3	NO	NO	NO
1021-1641-57076	CONQUER RESIDUAL INSECTICIDE CONCENTRATE	1.27	1.95	661	Esfenvalerate	3	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	10.80	658	Fipronil	3	YES	NO	NO
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	361.19	656	Indoxacarb	3	NO	NO	NO
2724-351-50809	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	2.55	0.00	600	(7S)-Hydroprene	3	NO	NO	NO
101563-49	PRODUCT: RBF5	0.00	18.45	533	Fipronil	3	YES	NO	NO
8033-109-279	TRANSPORT (R) MIKRON INSECTICIDE	4.91	0.01	505	Acetamiprid; Bifenthrin	3	YES	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	34.87	0.00	463	Phenylethyl propionate	3	NO	NO	NO
100-1066	DEMAND CS INSECTICIDE	20.23	0.13	455	Cyhalothrin, lambda	3	NO	NO	NO
279-9554	CB INSECTICIDE WITH DELTAMETHRIN	0.00	123.10	432	Deltamethrin	3	NO	NO	NO
101563-119	BES 0026 FLY SPOT BAIT	64.12	254.14	407	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
73079-4	BORACTIN INSECTICIDE POWDER	0.00	154.89	393	Boric acid	3	NO	NO	NO
53883-415	CSI 16-105 Delta+Tekko Pro Aerosol	0.00	114.92	354	Deltamethrin; Novaluron; Pyriproxyfen	3	NO	NO	NO
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	67.58	306	Imidacloprid	3	NO	NO	NO
100-1218	DEMON MAX INSECTICIDE	0.53	0.00	268	Cypermethrin, beta	2	YES	NO	NO
432-763-62719	SUSPEND SC	0.99	0.16	229	Deltamethrin	NUL L	NO	NO	NO
89459-84	RF2228 LH AEROSOL	22.33	10.39	188	Cyhalothrin, lambda; (7S)-Hydroprene	3	NO	NO	NO
499-473	WHITMIRE MICRO-GEN TC 205 INJECTION SYSTEM	20.28	0.00	171	Cyhalothrin, lambda	3	NO	NO	NO
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	28,400.50	151	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
7173-305	ROZOL GROUND SQUIRREL BAIT	0.00	220.25	149	Chlorophacinone	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
64405-37	Nibor-D Insecticide Foam + IGR	0.00	47.54	144	Disodium octaborate tetrahydrate; Pyriproxyfen	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	10.53	304.44	134	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
499-561	TC-315	42.20	0.46	127	Dinotefuran	3	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	8.21	0.38	117	Cyfluthrin, beta	3	NO	NO	NO
499-550	TC-323	2.33	110.75	110	Prallethrin	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	22.67	110	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
499-304	WHITMIRE OPTEM ME PT 600	0.06	0.00	104	Cyfluthrin	3	NO	NO	NO
499-500	PRESCRIPTION TREATMENT BRAND ADVANCE COMPRESSED TERMITE BAIT II	10.38	25.44	86	Diflubenzuron	3	NO	NO	NO
1021-1795-8329	DUET DUAL-ACTION ADULTICIDE	387.38	0.00	74	Phenothrin; Piperonyl butoxide; Prallethrin	3	YES	NO	NO
101563-94	PRE-EMPT FLY BAIT	0.00	19.10	65	Imidacloprid; (Z)-9-Tricosene	3	NO	NO	NO
100-1501	DUPONT ARILON INSECTICIDE	27.95	0.00	59	Indoxacarb	3	NO	NO	NO
1021-2574	MGK FORMULA 2964	0.09	0.75	54	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO	NO
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	10,990.00	54	Bacillus thuringiensis, subsp. israelensis, strain AM 65-52	3	NO	NO	NO
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	1.00	16.78	52	Disodium octaborate tetrahydrate	3	NO	NO	NO
101563-6	DELTA DUST	6.00	0.71	49	Deltamethrin	3	NO	NO	NO
1021-1603	NYLAR 10EC	5.55	0.00	46	Pyriproxyfen	3	NO	NO	NO
89459-41	PRENTOX EXCITER	0.09	0.00	44	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
1021-2809	MGK FORMULA 3128	0.00	20.04	42	Clothianidin	0	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	6.93	40	Avermectin	3	NO	YES	NO
1021-2776	VBC3 INSECTICIDE	0.48	0.00	38	Clothianidin; Piperonyl butoxide; Metofluthrin (ISO)	0	YES	NO	NO
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.21	0.00	38	S-Methoprene	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
1677-43	STER-BAC	13.46	0.00	35	Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride	1	NO	NO	NO
53883-92	CYPER TC INSECTICIDE	0.40	0.00	34	Cypermethrin, beta	3	YES	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.70	33	Imidacloprid	3	NO	NO	NO
101563-143	SUSPEND POLYZONE	0.20	0.09	30	Deltamethrin	3	NO	NO	NO
432-1531	BES0600 INSECTICIDE	0.00	3.14	29	Clothianidin	0	NO	NO	NO
432-1312-67760	GARANT T&O 2F	28.68	0.00	23	Imidacloprid	NUL L	NO	NO	NO
64405-2-74455	ECOLOGICAL ANT & INSECT BAIT	0.00	4.13	22	Boric acid	3	NO	NO	NO
87290-24	WILLOWOOD LAMBDA-CY 1 EC	11.91	0.00	19	Cyhalothrin, lambda	2	NO	NO	NO
499-507	PRESCRIPTION TREATMENT BRAND ALPINE COCKROACH GEL BAIT RESERVOIR	0.00	1.08	19	Dinotefuran	3	NO	NO	NO
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	26.38	18	Bacillus sphaericus	3	NO	NO	NO
101563-60	MERIT 2F INSECTICIDE	44.86	0.00	15	Imidacloprid	3	NO	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	5.12	0.00	15	Cyhalothrin, lambda	2	NO	NO	NO
499-294	AVERT PRESCRIPTION TREATMENT 310	0.00	1.17	15	Avermectin	3	NO	YES	NO
100-1551	Ference	10.90	3.81	14	Cyantraniliprole	0	NO	NO	NO
53883-244-66222	QUALI-PRO LAMBDA GC-0	6.75	0.00	14	Cyhalothrin, lambda	2	NO	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	6.02	0.00	14	Cyhalothrin, lambda	3	NO	NO	NO
70051-2-59807	TRIACT 70	1.15	0.00	14	Neem oil	3	NO	NO	NO
101563-93	TEMPO 1% PROFESSIONAL INSECTICIDE	0.00	2.00	14	Cyfluthrin	3	NO	NO	NO
53883-276	DELTA 4.75% SC	13.00	0.00	13	Deltamethrin	3	NO	NO	NO
48813-1-68539	SUFFOIL-X	0.77	21.75	13	Petroleum distillates	3	NO	NO	NO
92028-3-47000	SureKill Roach Gel Bait	0.00	0.12	13	Imidacloprid	3	NO	NO	NO
100-1489	DUPONT ACELEPRYN INSECTICIDE	11.09	0.00	12	DPX-E2Y45	0	NO	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.14	0.00	12	Spinosad	3	NO	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	35.95	10	S-Methoprene	3	NO	NO	NO
73079-6	GREEN ZONE GRANULAR BAIT	0.00	1.81	10	Boric acid	3	NO	NO	NO
89442-24	BIFEN G/N 7.9SC SELECT	4.50	0.00	9	Bifenthrin	3	YES	NO	NO
62719-523	BLACKHAWK	0.50	25.34	9	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
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.07	9	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO	NO
53883-365	QUALI-PRO BIFENTHRIN I/T 7.9F	1.78	0.00	8	Bifenthrin	3	YES	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.18	0.00	8	Pyriproxyfen	3	NO	NO	NO
81880-29-10163	Sanmite SC Miticide Insecticide	0.06	0.00	8	Pyridaben	3	NO	NO	NO
279-3206	TALSTAR TC FLOWABLE TERMITICIDE/INSECTICIDE	0.05	0.02	8	Bifenthrin	3	YES	NO	NO
499-568	PT ALPINE PRESSURIZED FLY BAIT	0.00	2.16	8	Dinotefuran	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	1.10	8	Indoxacarb	3	NO	NO	NO
100-1679	Advion Trio	0.00	0.15	8	Indoxacarb; Pyriproxyfen; Novaluron	3	NO	NO	NO
8329-108	MERUS 3.0	30.43	0.00	7	Pyrethrins	0	YES	NO	NO
53883-514	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	13.13	0.00	7	Imidacloprid	3	NO	NO	NO
70506-150	IMIGOLD 2F TURF & ORNAMENTAL INSECTICIDE	12.53	0.00	7	Imidacloprid	3	NO	NO	NO
100-1543	MAINSRING GH & N	0.11	0.00	7	Cyantraniliprole	0	NO	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.47	0.00	6	Potassium laurate	2	NO	NO	NO
2724-793	RF2067-EW	0.34	0.00	6	(S)-Kinoprene	3	NO	NO	NO
101563-14	DELTAGARD G INSECTICIDE GRANULE	0.00	8.14	6	Deltamethrin	3	NO	NO	NO
1021-2707-64405	FIREBACK BED BUG & INSECT SPRAY & JET	0.00	2.06	6	Permethrin; Pyrethrins; Piperonyl Butoxide	3	YES	NO	NO
5481-643	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	18.15	0.00	5	Trichlorfon	3	YES	NO	NO
69526-5	PURESPRAY SPRAY OIL 10E	12.50	0.00	5	Mineral oil	3	NO	NO	NO
499-462	PRO-CONTROL FOGGER IV	1.13	0.00	5	Pyrethrins; Cyfluthrin; Piperonyl butoxide	3	YES	NO	NO
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.30	0.00	5	Mineral oil	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
2724-490	RF 9910 AEROSOL	0.27	2.63	5	Phenothrin; Permethrin; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
499-540	TC 303	0.00	10.06	5	Prallethrin; Pyriproxyfen; Dinotefuran	3	NO	NO	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.22	5	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.75	5	Dinotefuran; Diatomaceous earth	3	NO	NO	NO
1021-1828	MGK ROACH BAIT 2822	0.00	0.05	5	Avermectin	3	NO	YES	NO
432-1227-10404	LESCO SEVIN SL	23.16	0.00	4	Carbaryl	3	YES	YES	NO
86869-5	LAMBDA SELECT	0.95	0.00	4	Cyhalothrin, lambda	2	NO	NO	NO
74779-17	RTSA 4% EMAMECTIN BENZOATE	0.93	0.00	4	Emamectin, benzoate	3	NO	NO	NO
101563-130	SPIROTETRAMAT 240 SC GREENHOUSE AND NURSERY INSECTICIDE/MITICIDE	0.08	0.00	4	Spirotetramat	3	NO	NO	NO
10163-326	CAPTIVA	0.07	0.00	4	Garlic; Resins, oleo-, capsicum; Soybean oil	3	NO	NO	NO
70051-9-59807	AZATIN O BIOLOGICAL INSECTICIDE	0.06	0.00	4	Azadirachtin	3	NO	NO	NO
53883-335	N + P Regulator	0.05	0.00	4	Pyriproxyfen; Novaluron	3	NO	NO	NO
53883-389	CSI 16-145 Lambda Cyhalothrin	0.00	0.00	4	Cyhalothrin, lambda	3	NO	NO	NO
100-1636	Provaunt WDG	0.00	14.25	4	Indoxacarb	3	NO	NO	NO
82074-2	BOTANIGARD 22WP	0.00	2.24	4	Beauveria bassiana GHA	3	NO	NO	NO
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.60	4	Fipronil	3	YES	NO	NO
5481-13	ALCO FLY FIGHTER INSECT SPRAY PRESSURIZED	0.00	0.25	4	DDVP	3	YES	NO	YES
8033-114-279	ENDZONE INSECTICIDE STICKER	0.00	0.00	4	Acetamiprid	3	NO	NO	NO
1021-1688-8329	ANVIL 10+10 ULV	15.01	0.00	3	Phenothrin; Piperonyl butoxide	3	YES	NO	NO
70506-537	FLORAMITE SC	0.02	0.00	3	Bifenazate	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	0.13	3	Esfenvalerate	3	NO	NO	NO
100-1492-82757	0.067% ACELEPRYN INSECTICIDE ON FERTILIZER	0.00	650.00	3	DPX-E2Y45	3	NO	NO	NO
71532-28-91026	FENVASTAR ECOCAP	0.00	0.38	3	Esfenvalerate	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
73079-2	INTICE GRANULAR BAIT	0.00	0.04	3	Boric acid	3	NO	NO	NO
5481-643-432	Dylox 420 SL	10.00	0.00	2	Trichlorfon	3	YES	NO	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICIDE	5.16	0.00	2	Bifenthrin	3	YES	NO	NO
42750-115-86064	ARMORTECH IMD 2 F	4.00	0.00	2	Imidacloprid	3	NO	NO	NO
1021-2838	ULD BP-100 Contact Insecticide II	0.03	0.00	2	Pyrethrins; Piperonyl butoxide	3	YES	NO	NO
1021-2834	ULD? BP-300 INSECTICIDE	0.01	0.00	2	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
92564-40	DYLOX 9.3% INSECT GRANULES	0.00	51.50	2	Trichlorfon	3	YES	NO	NO
85306-1	SELECT TCS	0.00	3.54	2	Fipronil	3	YES	NO	NO
9688-190	CHEMSICO WASP & HORNET KILLER LE	0.00	2.31	2	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
100-1483	ADVION INSECT GRANULE	0.00	2.20	2	Indoxacarb	3	NO	NO	NO
53883-384	CSI WASP KILLER	0.00	0.69	2	Prallethrin	3	NO	NO	NO
1021-2569	MULTICIDE SPRAY 29511	0.00	0.19	2	Imidacloprid; Phenothrin; N-octyl bicycloheptene dicarboximide	0	YES	NO	NO
5481-520	WISDOM (R) TC FLOWABLE	1.00	0.00	1	Bifenthrin	3	YES	NO	NO
70506-24	UP-STAR GOLD INSECTICIDE	0.63	0.00	1	Bifenthrin	3	YES	NO	NO
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb	3	NO	NO	NO
53883-366	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	0.47	0.00	1	Bifenthrin	3	YES	NO	NO
2724-786-89459	Zenprox Wasp-X2 Spray	0.27	0.00	1	Tetramethrin; Piperonyl butoxide; Ethofenprox	3	YES	NO	NO
53883-244	LAMBDA 9.7 GC-O	0.23	0.00	1	Cyhalothrin, lambda	2	NO	NO	NO
5481-8973	ORTHENE PCO FORMULA II	0.10	0.00	1	Acephate	3	YES	NO	NO
9688-255-8845	SPECTRACIDE COMMERCIAL WASP & HORNET KILLER 3	0.06	0.00	1	Deltamethrin; S-Bioallethrin	3	YES	NO	NO
86203-11-59639	SAFARI 20SG INSECTICIDE	0.03	0.00	1	Dinotefuran	3	NO	NO	NO
432-1455-11556	QUICKBAYT SPOT SPRAY	0.02	0.00	1	(Z)-9-Tricosene	NUL L	NO	NO	NO
1021-1810	PYROCIDAL FALCON 7452	0.00	0.00	1	Esfenvalerate; Pyriproxyfen; 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
5481-641-432	Dylox 6.2 Granular Insecticide	0.00	480.00	1	Trichlorfon	3	YES	NO	NO
2724-351-432	TURBOCID GOLD WITH GENTROL	0.00	118.00	1	(7S)-Hydroprene	3	NO	NO	NO
47000-73-1677	SSI-50 INSECTICIDE	0.00	2.00	1	Pyrethrins; Piperonyl butoxide; N-octyl bicycloheptene dicarboximide	3	YES	NO	NO
53883-513	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	1.00	1	Imidacloprid	3	NO	NO	NO
9688-187	CHEMSICO AEROSOL INSECTICIDE EL-A	0.00	1.00	1	Prallethrin; Lambda-Cyhalothrin	3	NO	NO	NO
67702-24-70051	BUG-N-SLUGGO INSECT, SLUG AND SNAIL BAIT	0.00	0.29	1	Iron phosphate; Spinosad	3	NO	NO	NO
499-557	Alpine WSG	0.00	0.27	1	Novaluron	3	NO	NO	NO
2724-451	ZOECON 9010 GR	0.00	0.21	1	S-Methoprene	3	NO	NO	NO
53883-118	BIFENTHRIN TC INSECTICIDE/TERMITICIDE	0.00	0.19	1	Bifenthrin	3	YES	NO	NO
2724-786	RF2050 SPRAY	0.00	0.19	1	Tetramethrin; Ethofenprox; Piperonyl butoxide	3	YES	NO	NO
279-3443	D-FOAM INSECTICIDE	0.00	0.13	1	Deltamethrin	3	NO	NO	NO
5481-533-47000	PROZAP INSECT GUARD	0.00	0.11	1	DDVP	3	YES	NO	YES
53883-466-82540	CSI 18-264A INDOX ANT GEL	0.00	0.07	1	Indoxacarb	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
73079-12	SILICIDE(TM)	0.00	0.06	1	Diatomaceous earth	3	NO	NO	NO
84059-17	GRANDEVO	0.00	0.03	1	Chromobacterium subtsugae strain PRAA4-1 cells and spent fermentation media	3	NO	NO	NO
Herbicides									
62719-519	MILESTONE	9.18	0.00	510	Aminopyralid, triisopropanolamine salt	3	NO	NO	NO
101563-188	DUPONT VIEWPOINT HERBICIDE	2.83	97.44	465	Aminocyclopyrachlor; Imazapyr; Metsulfuron-methyl	3	NO	NO	NO
7969-443	DERRINGER HERBICIDE	98.61	12.50	464	Glufosinate-ammonium	2	NO	NO	NO
101563-144	ESPLANADE 200 SC	5.60	0.00	442	Indaziflam	3	NO	NO	NO
62719-176	PATHFINDER II	145.29	20.45	327	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-527	GARLON 4 ULTRA	19.00	0.00	173	Triclopyr	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
100-937	PRIMO MAXX	41.15	0.00	90	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	23.09	0.00	68	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	43.86	0.00	55	Trinexapac-ethyl	3	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	12.18	0.00	55	Imazamox	3	NO	NO	NO
62719-687	VASTLAN	6.80	0.00	50	Triclopyr, Choline Salt	2	NO	NO	NO
62719-542	DIMENSION 2EW	83.37	9.37	45	Dithiopyr	2	NO	NO	NO
10163-325	SCYTHE HERBICIDE	16.73	121.50	42	Nonanoic acid	2	NO	NO	NO
62719-324	GLYPRO	3.98	0.00	30	Glyphosate, isopropylamine salt	3	NO	NO	YES
1001-91	GWN-6010 PLANT GROWTH REGULATOR	18.53	139.35	28	Prohexadione calcium	3	NO	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	8.16	0.00	25	Fenoxaprop-P (+)	3	NO	NO	NO
92967-1	AVENGER WEED KILLER CONCENTRATE	20.25	0.00	17	Limonene	3	NO	NO	NO
228-743	NUP-18013	16.15	0.00	17	Glufosinate-ammonium	3	NO	NO	NO
101563-40	PROXY GROWTH REGULATOR	118.07	0.00	16	Ethephon	1	NO	NO	NO
100-1267	TENACITY	0.06	0.00	14	Mesotrione	3	NO	NO	NO
7969-327	PYLEX HERBICIDE	0.34	0.00	12	Topramezone	3	NO	NO	NO
100-1412	CLARELLE	6.66	0.00	11	Paclobutrazol	3	NO	NO	NO
71368-114	Panther SC - Non-Crop Herbicide	3.60	0.00	10	Flumioxazin	0	NO	NO	NO
62719-560	EF-1343	3.76	0.00	9	Florasulam	3	NO	NO	NO
67702-26	Fiesta Herbicide	240.00	0.00	8	Iron HEDTA	3	NO	NO	NO
7969-464	FINALE XL	0.47	0.00	7	Glufosinate-ammonium	2	NO	NO	NO
53883-379	QUALI-PRO PRODIAMINE 4L	36.67	0.00	6	Prodiamine	3	YES	NO	NO
66222-151	ETHEPHON 2SL	23.81	0.00	5	Ethephon	1	NO	NO	NO
83100-76	GF-1280	0.83	0.00	5	Glyphosate, dimethylammonium salt	3	NO	NO	YES
524-579	ROUNDUP PROMAX	0.24	0.00	5	Glyphosate, potassium salt	3	NO	NO	YES
352-401	DUPONT OUST HERBICIDE	0.00	0.27	5	Sulfometuron methyl	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
42750-247	DUPONT KRENITE S BRUSH CONTROL AGENT	6.50	0.00	4	Fosamine, ammonium salt	3	NO	NO	NO
86064-5	ARMORTECH (R) THREESOME(TM)	10.33	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	5.84	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
228-741	NUP-16011 Herbicide	3.23	0.00	3	2,4-D, 2-ethylhexyl ester; Fluroxypyr 1-methylheptyl ester; Flumioxazin; Triclopyr, butoxyethyl ester	3	NO	NO	NO
100-1014	PACLOBUTRAZOL 2SC	2.00	0.00	3	Paclobutrazol	3	NO	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	1.06	0.00	3	Clopyralid	3	NO	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.96	0.00	3	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO	NO
279-3265	F8426 HERBICIDE	0.03	0.00	3	Carfentrazone-ethyl	3	NO	NO	NO
81880-1-10163	SEDGEHAMMER	0.00	0.46	3	Halosulfuron-methyl	3	NO	NO	NO
100-1139	BARRICADE 4FL	15.47	0.00	2	Prodiamine	3	YES	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	12.50	0.00	2	Bensulide	3	NO	NO	NO
89442-22	TRIAD SELECT	11.80	0.00	2	Dicamba, dimethylamine salt; 2,4-D; MCPA, dimethylamine salt	2	NO	NO	YES
7969-398	Segment II Herbicide	6.17	0.00	2	Sethoxydim	2	NO	NO	NO
228-312	TRIPLET SF	4.38	0.00	2	Dicamba, dimethylamine salt; 2,4-D, dimethylamine salt; MCP-P, dimethylamine salt	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
7969-272	DRIVE XLR8 HERBICIDE	3.77	0.00	2	Quinclorac	3	NO	NO	NO
53883-399	Quali Pro Dithiopyr L	3.00	0.00	2	Dithiopyr	2	NO	NO	NO
62719-92	CONFRONT	1.98	0.00	2	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO	NO
53883-336	QUINCLORAC 1.5 L	1.40	0.00	2	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
67690-46	LEGACY TURF GROWTH REGULATOR	0.86	0.00	2	Trinexapac-ethyl; Flurprimidol	2	NO	NO	NO
71368-112	CHEETAH	0.25	0.00	2	Glufosinate-ammonium	2	NO	NO	NO
961-362	LEBANON FERTILIZER WITH BARRICADE (0.43%) PREEMERGENCE WEED CONTROL (0.00	12,600.00	2	Prodiamine	3	YES	NO	NO
538-317-961	Lebanon ProScape Fertilizer with 0.08% MESO Preemergent Weed Control	0.00	960.00	2	Mesotrione	3	NO	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	628.00	2	Dithiopyr	3	NO	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	150.00	0.00	1	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO	YES
2217-833	SPEED ZONE BROADLEAF HERBICIDE	24.50	0.00	1	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO	NO
89442-22-72159	TRIAD SELECT	5.50	0.00	1	Dicamba, dimethylamine salt; 2,4-D; MCPA, dimethylamine salt	2	NO	NO	YES
2217-696-33955	ACME PROFESSIONAL STRENGTH BETASAN(R) PRE-EMERGENCE WEED & CRABGRASS P	4.10	0.00	1	Bensulide	3	NO	NO	NO
228-312-12204	TRIPLE SELECT	1.51	0.00	1	Dicamba, dimethylamine salt; MCPP-P, dimethylamine salt; 2,4-D, dimethylamine salt	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
2217-1053	EH-1681 Herbicide	1.33	0.00	1	Carfentrazone-ethyl; MCP-P, dimethylamine salt; Dicamba, dimethylamine salt; 2,4-D, 2-ethylhexyl ester	3	NO	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	0.05	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO	YES
62719-566	TURFLON ESTER ULTRA	0.01	0.00	1	Triclopyr, butoxyethyl ester	3	NO	NO	NO
961-362-89063	TURFGRASS FERTILIZER WITH BARRICADE 0.43% PREEMERGENCE WEED CONTROL	0.00	4,400.00	1	Prodiamine	3	YES	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
62719-486-534	GREEN YARD CRABGRASS PREVENTER WITH 0.1% DIMENSION	0.00	650.00	1	Dithiopyr	3	NO	NO	NO
53883-374-86064	ARMORTECH CGC 40 WSP	0.00	1.88	1	Dithiopyr	3	NO	NO	NO
228-711	NUFARM PROSEGE SELECTIVE HERBICIDE2	0.00	0.08	1	Halosulfuron-methyl	3	NO	NO	NO
Fungicides									
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	109.46	120	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-1364	DACONIL ACTION	772.86	0.00	100	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	158.37	20.00	60	Propamocarb hydrochloride	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	0.00	1,386.91	44	Fosetyl-Al	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	50.42	0.00	34	Trinexapac-ethyl	3	NO	NO	NO
86064-6	ArmorTech ZOXY 2F	45.47	0.00	34	Azoxystrobin	3	NO	NO	NO
228-630-86064	ArmorTech TMI 2020 FLO	74.00	0.00	29	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	5.12	651.53	29	Thiabendazole	3	YES	NO	NO
100-1633	Secure Action	41.92	0.00	27	Fluazinam; Acibenzolar-S-methyl	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
69526-13	CIVITAS	95.00	0.00	26	Mineral oil	3	NO	NO	NO
53883-313	QUALI-PRO CHLOROTHALONIL DF	0.00	993.05	23	Chlorothalonil	2	YES	NO	YES
66222-117	ORIOUS 3.6F	54.43	8.00	22	Tebuconazole	3	YES	NO	NO
264-1155	RHAPSODY AS0	132.50	0.00	21	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
89442-1	TEBUCONAZOLE 3.6 SELECT	32.69	0.00	21	Tebuconazole	3	YES	NO	NO
53883-433	QUALI-PRO MEFENOXAM 2AQ	18.70	13.44	20	Mefenoxam	2	NO	NO	NO
42750-99	TEBUCONAZOLE 3.6FL	44.45	0.00	19	Tebuconazole	3	YES	NO	NO
70299-12	ZEROTOL 2.0	8.52	0.00	19	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO	NO
7969-404	Maxtima Fungicide	19.02	0.00	18	Mefentrifluconazole	3	NO	NO	NO
89442-37	Fluazinam 40SC Select	21.83	0.00	16	Fluazinam	3	YES	NO	NO
7969-349	Xzemplar Fungicide	12.54	0.00	16	Fluxapyroxad	3	NO	NO	NO
60063-7-10404	LESCO MANICRUE 6FL	130.55	0.00	14	Chlorothalonil	2	YES	NO	YES
432-1505	CHIPCO 26019T FUNGICIDE	76.43	0.00	14	Iprodione; Trifloxystrobin	3	YES	NO	NO
101563-152	TEBUCONAZOLE SC TURF AND ORNAMENTAL FUNGICIDE	32.80	0.00	14	Tebuconazole	3	YES	NO	NO
66222-117-86064	ARMOR TECH TEB360 XL	18.43	0.00	14	Tebuconazole	3	YES	NO	NO
91234-199-86064	CYA 345	14.15	0.00	14	Cyazofamid	3	NO	NO	NO
86064-1	ARMORTECH CLT 825 DF	0.00	240.00	14	Chlorothalonil	2	YES	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	156.92	0.00	13	Iprodione	3	YES	NO	NO
53883-310	QUALI-PRO CHLOROTHALONIL 720 SFT	146.99	20.00	13	Chlorothalonil	2	YES	NO	YES
53883-323-86064	ARMOR TECH TMI 2020XL	61.22	0.00	13	Thiophanate-methyl; Iprodione	3	YES	YES	NO
101563-113	TARTAN FLO FUNGICIDE	50.74	0.00	11	Triadimefon; Trifloxystrobin	3	YES	YES	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	21.27	0.00	11	Propiconazole	2	YES	NO	NO
228-737	NUP-15013 Fungicide	11.60	0.00	11	Fluazinam	3	YES	NO	NO
70506-272	PEGASUS DFX	0.00	1,555.00	11	Chlorothalonil	1	YES	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
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	490.08	11	Fosetyl-Al	3	NO	NO	NO
53883-310-86064	Armor Tech CLT 720 XL Fungicide	247.04	0.00	10	Chlorothalonil	2	YES	NO	YES
228-623-10404	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	15.64	0.00	10	Propiconazole	2	YES	NO	NO
59639-144	V-10116 VPP FUNGICIDE	0.00	110.57	10	Metconazole	3	NO	NO	NO
67690-77	ZIO	0.00	40.00	10	Pseudomonas chlororaphis strain AFS009	3	NO	NO	NO
70506-262	PEGASUS 6L	93.98	0.00	9	Chlorothalonil	2	YES	NO	YES
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	14.21	0.00	9	Pyraclostrobin	2	NO	NO	NO
432-888-10404	LESCO 18 PLUS TURF & ORNAMENTAL FUNGICIDE	54.72	0.00	8	Iprodione	3	YES	NO	NO
89442-28	IPRODIONE 2F SELECT	32.03	0.00	8	Iprodione	3	YES	NO	NO
83070-8	ADVAN PROPAMOCARB	24.40	0.00	8	Propamocarb hydrochloride	3	NO	NO	NO
5481-617	EQUUS DF	20.00	179.75	8	Chlorothalonil	2	YES	NO	YES
228-737-52287	NUP-15013 Fungicide	14.00	0.00	8	Fluazinam	3	YES	NO	NO
71512-13-2217	SEGWAY FUNGICIDE	10.37	0.00	8	Cyazofamid	3	NO	NO	NO
101563-210	Densicor	3.88	0.00	8	Prothioconazole	3	NO	NO	NO
7969-255	HONOR FUNGICIDE	0.00	98.59	8	Nicobifen; Pyraclostrobin	3	YES	NO	NO
68173-3-1001	AFFIRM WDG	0.00	73.48	8	Polyoxin D zinc salt	3	NO	NO	NO
86064-4	ARMOR TECH PPZ 143 MC	48.84	0.00	7	Propiconazole	2	YES	NO	NO
89442-3	PPZ 41.8 SELECT	11.61	0.00	7	Propiconazole	2	YES	NO	NO
53883-343	AZOXYSTROBIN 50 WG	1.44	3.26	7	Azoxystrobin	3	NO	NO	NO
432-890-10404	LESCO PRODIGY SIGNATURE	0.00	286.00	7	Fosetyl-Al	NUL L	NO	NO	NO
89442-14	THIOPHANATE METHYL 4.5F SELECT	42.58	0.00	6	Thiophanate-methyl	3	YES	YES	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	21.94	0.00	6	Thiophanate-methyl	3	YES	YES	NO
100-1477	Ascernity	7.39	0.00	6	Difenoconazole	3	YES	NO	NO
53883-454-10404	LESCO Drax Fungicide	5.14	0.00	6	Fluazinam	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
83170-1	DUTCH TRIG	0.11	0.00	6	Verticillium dahliae isolate WCS 850	3	NO	NO	NO
70299-15	GC PRO	0.00	531.50	6	Sodium percarbonate	1	NO	NO	NO
70870-1-68539	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	0.47	6	Potassium bicarbonate	NUL L	NO	NO	NO
228-739	NUP-15014 Fungicide	29.19	0.00	5	Tebuconazole; Fluazinam	3	YES	NO	NO
100-1654	A22070 Fungicide	24.11	0.00	5	Azoxystrobin; Propiconazole	2	YES	NO	NO
66222-154-73220	QUALI-PRO CHLOROTHALONIL 720 SFT	19.62	0.00	5	Chlorothalonil	NUL L	NO	NO	NO
101563-112	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	13.13	0.00	5	Triadimefon	3	YES	YES	NO
228-630-10404	LESCO TWOSOME FUNGICIDE	11.39	0.00	5	Iprodione; Thiophanate-methyl	3	YES	YES	NO
73806-1	K-PHITE 7LP Fungicide	5.88	0.00	5	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	42.08	5	Nicobifen	2	YES	NO	NO
72112-2	TRANSOM 4.5 F	20.60	0.00	4	Thiophanate-methyl	3	YES	YES	NO
50534-209-100	MANICURE 6 FLOWABLE	20.00	0.00	4	Chlorothalonil	NUL L	NO	NO	NO
100-1433	BRISKWAY	17.82	0.00	4	Azoxystrobin; Difenoconazole	3	YES	NO	NO
53883-477	CSI 19-349 Fludioxonil	5.27	0.00	4	Fludioxonil	3	NO	NO	NO
100-1550	HERITAGE ACTION	0.00	57.75	4	Acibenzolar-S-methyl; Azoxystrobin	3	NO	NO	NO
62388-1-93445	NOGALL	0.00	3.30	4	Agrobacterium radiobacter strain K1026	NUL L	NO	NO	NO
89442-46	FluazTeb Select	23.43	0.00	3	Fluazinam; Tebuconazole	3	YES	NO	NO
86064-9	ArmorTech TM 462 F	12.50	0.00	3	Thiophanate-methyl	3	YES	YES	NO
67702-2-59807	Grotto	10.98	0.00	3	Copper octanoate	3	NO	NO	NO
83100-1-83979	OFFSET 3.6F FUNGICIDE	8.78	0.00	3	Tebuconazole	3	YES	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	7.50	20.00	3	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	3	YES	YES	YES
70051-107-59807	TRIATHLON BA	5.25	0.00	3	Bacillus subtilis var. amyloliquefaciens strain D747	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
264-1155-68539	CEASE	4.50	0.00	3	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
7969-403	NAVICON INTRINSIC BRAND FUNGICIDE	3.39	0.00	3	Pyraclostrobin; Mefentrifluconazole	3	NO	NO	NO
100-1600	A19649 200SC Turf	3.24	0.00	3	Pydiflumetofen	3	NO	NO	NO
7969-184	Insignia Fungicide	2.91	0.00	3	Pyraclostrobin	3	NO	NO	NO
89442-21	AZOXY 2SC SELECT	2.35	0.00	3	Azoxystrobin	3	NO	NO	NO
93051-4	Rightline Azox 2 SC	2.16	0.00	3	Azoxystrobin	3	NO	NO	NO
7969-350	LEXICON INTRINSIC BRAND FUNGICIDE	1.79	4.00	3	Fluxapyroxad; Pyraclostrobin	3	NO	NO	NO
42750-261-53883	STROBE 2L	0.66	0.00	3	Azoxystrobin	3	NO	NO	NO
70506-187	MICROTHIOL DISPERS	0.00	47.50	3	Sulfur	3	NO	NO	NO
89442-17	PROPICONAZOLE 14.3 SELECT	7.97	0.00	2	Propiconazole	3	YES	NO	NO
100-1326	BANNER MAXX II	4.69	0.00	2	Propiconazole	3	YES	NO	NO
62719-396-10404	LESCO 4 FLOWABLE MANCOZEB	4.50	0.00	2	Mancozeb	0	YES	NO	NO
70506-571-59807	TERRAZOLE 4EC	2.00	0.00	2	Terrazole	1	YES	NO	NO
84059-3	REGALIA BIOPROTECTANT CONCENTRATE	1.25	0.00	2	Reynoutria sachalinensis	3	NO	NO	NO
1001-70	3336 G	0.01	0.00	2	Thiophanate-methyl	3	YES	YES	NO
100-796	SUBDUE MAXX	0.01	0.00	2	Mefenoxam	3	NO	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DACONIL	0.00	960.00	2	Chlorothalonil	1	YES	NO	YES
50534-202-100	MANICURE ULTREX TURF & ORNAMENTAL	0.00	107.12	2	Chlorothalonil	NUL L	NO	NO	NO
62719-402-10404	LESCO MANCOZEB DG TURF AND ORNAMENTAL FUNGICIDE	0.00	96.00	2	Mancozeb	3	YES	NO	NO
66222-161	LEGION 80 WDG	0.00	87.50	2	Fosetyl-AI	3	NO	NO	NO
53883-483	Quali-Pro TM 4.5	0.00	40.00	2	Thiophanate-methyl	3	YES	YES	NO
53883-418	CSI 15-128B Azoxy + Propiconazole	0.00	32.00	2	Azoxystrobin; Propiconazole	3	YES	NO	NO
53883-363	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	0.00	31.25	2	Propiconazole	3	YES	NO	NO
432-1223	PROSTAR 70 WP	0.00	2.92	2	Flutolanil	3	NO	NO	NO
464-693-63288	CHEMICAR 15	66.00	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
61842-30-90930	LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE	18.75	0.00	1	Lime-sulfur	1	NO	NO	NO
66222-134	THIOPHANATE METHYL 4.5 F	12.00	0.00	1	Thiophanate-methyl	3	YES	YES	NO
2217-1049	EF-716 FUNGICIDE	11.00	0.00	1	Azoxystrobin; Cyazofamid	3	NO	NO	NO
89442-41	AzProp Select	6.50	0.00	1	Propiconazole; Azoxystrobin	3	YES	NO	NO
50534-211-100	DACONIL ZN FLOWABLE FUNGICIDE	5.00	0.00	1	Chlorothalonil	NUL L	NO	NO	NO
100-1642	Appear II Fungicide	4.81	0.00	1	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
70506-114	TEBUCONAZOLE 3.6 F FUNGICIDE	4.20	0.00	1	Tebuconazole	3	YES	NO	NO
71512-13-279	SEGWAY FUNGICIDE	3.36	0.00	1	Cyazofamid	3	NO	NO	NO
228-623	NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	2.73	0.00	1	Propiconazole	2	YES	NO	NO
100-1448	MEDALLION SC	1.33	0.00	1	Fludioxonil	3	NO	NO	NO
42750-211	PROPICONAZOLE 41.8% EC	1.33	0.00	1	Propiconazole	2	YES	NO	NO
89442-54	Azoxy D Select	1.31	0.00	1	Azoxystrobin; Difenoconazole	3	YES	NO	NO
42750-252	PROPICONAZOLE 1.3 ME	1.17	0.00	1	Propiconazole	2	YES	NO	NO
67702-2-67690	CAMELOT O FUNGICIDE/BACTERICIDE	1.13	0.00	1	Copper octanoate	3	NO	NO	NO
89442-16	METALAXYL 4L SELECT	0.30	0.00	1	Metalaxyl	3	NO	NO	NO
42750-292	AZOXY 11% + TEB 26% FL	0.13	0.00	1	Azoxystrobin; Tebuconazole	3	YES	NO	NO
400-422-59807	TERRAZOLE L	0.13	0.00	1	Terrazole	NUL L	NO	NO	NO
60063-59-52287	Azoxystrobin 250 SC	0.06	0.00	1	Azoxystrobin	2	NO	NO	NO
961-277	LEBANON TURF FUNGICIDE CONTAINS DACONIL	0.00	360.00	1	Chlorothalonil	3	YES	NO	YES
66222-149-73220	ARMOR TECH CLT 825	0.00	140.00	1	Chlorothalonil	NUL L	NO	NO	NO
100-1694	DACONIL SDG	0.00	20.00	1	Chlorothalonil	1	YES	NO	YES
53883-380	QUALI-PRO IPRO 2	0.00	20.00	1	Iprodione	3	YES	NO	NO
100-1191	HERITAGE MAXX	0.00	8.00	1	Azoxystrobin	3	NO	NO	NO
91234-199-53883	Gateway Fungicide SC	0.00	5.63	1	Cyazofamid	3	NO	NO	NO
4-62	BONIDE SULPHUR PLANT FUNGICIDE MICRONIZED SPRAY OR DUST	0.00	3.88	1	Sulfur	3	NO	NO	NO
68539-13	PB133	0.00	0.05	1	Potassium bicarbonate	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 2023

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									
12455-69	CONTRAC RODENTICIDE	0.00	1,271.44	1,035	Bromadiolone	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	549.96	684	Difethialone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	1,278.63	560	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	5,236.00	318	Carbon dioxide	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.02	220.41	267	Bromadiolone	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	16.44	159	Bromethalin	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	65.49	100	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	115.33	99	Difethialone	3	NO	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	42.88	86	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	101.03	80	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	78.04	79	Brodifacoum	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	1.53	58	Diphacinone	2	NO	NO	NO
12455-97	FASTRAC PLACE PACS	0.00	27.87	57	Bromethalin	3	NO	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	23.38	50	Bromethalin	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	14.69	50	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	7.04	34	Bromethalin	3	NO	NO	NO
61282-97-56	JT Eaton™ Answer® Kills Mice with Reusable Bait Station A	0.00	15.69	30	Bromethalin	3	NO	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	8.25	17	Difethialone	3	NO	NO	NO
72500-13	NOVEL COMMENSAL RODENT PELLET # 2	0.00	6.88	16	Imidacloprid; Warfarin	3	NO	YES	NO
12455-106	TERAD3 BLOX	0.00	12.25	15	Cholecalciferol	3	NO	NO	NO
12455-61	LIQUA-TOX II	0.25	0.44	12	Diphacinone, sodium salt	3	NO	NO	NO
47629-16	DIFENACOUM RAT AND MOUSE BLOCK	0.00	8.69	12	Difenacoum	3	NO	NO	NO
91601-1	ContraPest®	0.00	7.00	9	4-Vinylcyclohexene diepoxide; Triptolide	3	NO	NO	YES
7173-218	GENERATION MINI BLOCKS	0.00	1.69	7	Difethialone	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	59.59	6	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
7173-187	MAKI PARAFFINIZED PELLETS	0.00	1.94	5	Bromadiolone	3	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	12.00	3	Diphacinone	3	NO	NO	NO
7173-215	MAKI Rodenticide MINI BLOCKS	0.00	0.75	2	Bromadiolone	3	NO	NO	NO
12455-96	F-TRAC RODENTICIDE	0.00	0.03	1	Bromethalin	3	NO	NO	NO
12455-69	CONTRAC RODENTICIDE	0.00	1,271.44	1,035	Bromadiolone	3	NO	NO	NO
7173-258	DIFETHIALONE PASTE PLACE PACKS	0.00	549.96	684	Difethialone	3	NO	NO	NO
12455-36	CONTRAC RAT AND MOUSE BAIT	0.00	1,278.63	560	Bromadiolone	3	NO	NO	NO
12455-148	Rat Ice	0.00	5,236.00	318	Carbon dioxide	2	NO	NO	NO
12455-79	CONTRAC ALL-WEATHER BLOX	0.02	220.41	267	Bromadiolone	3	NO	NO	NO
12455-137	Rampage Pelleted Bait	0.00	16.44	159	Bromethalin	3	NO	NO	NO
7173-297	BROMADIOLONE PASTE 0901	0.00	65.49	100	Bromadiolone	3	NO	NO	NO
7173-205	GENERATION PELLETS	0.00	115.33	99	Difethialone	3	NO	NO	NO
7173-202	MAKI MINI BLOCKS	0.00	42.88	86	Bromadiolone	3	NO	NO	NO
12455-86	CONTRAC RODENTICIDE PLACE PAC	0.00	101.03	80	Bromadiolone	3	NO	NO	NO
12455-139	Final Soft Bait	0.00	78.04	79	Brodifacoum	3	NO	NO	NO
12455-56	DITRAC TRACKING POWDER	0.00	1.53	58	Diphacinone	2	NO	NO	NO
12455-97	FASTRAC PLACE PACS	0.00	27.87	57	Bromethalin	3	NO	NO	NO
12455-95	FASTRAC ALL-WEATHER BLOX	0.00	23.38	50	Bromethalin	3	NO	NO	NO
12455-146	CONTRAC SOFT BAIT	0.00	14.69	50	Bromadiolone	3	NO	NO	NO
7173-310	Bromethalin Soft Bait II	0.00	7.04	34	Bromethalin	3	NO	NO	NO
61282-97-56	JT Eaton™ Answer® Kills Mice with Reusable Bait Station A	0.00	15.69	30	Bromethalin	3	NO	NO	NO
7173-288	DIFETHIALONE BLOCK 0707	0.00	8.25	17	Difethialone	3	NO	NO	NO
72500-13	NOVEL COMMENSAL RODENT PELLET # 2	0.00	6.88	16	Imidacloprid; Warfarin	3	NO	YES	NO
12455-106	TERAD3 BLOX	0.00	12.25	15	Cholecalciferol	3	NO	NO	NO
12455-61	LIQUA-TOX II	0.25	0.44	12	Diphacinone, sodium salt	3	NO	NO	NO
47629-16	DIFENACOUM RAT AND MOUSE BLOCK	0.00	8.69	12	Difenacoum	3	NO	NO	NO
91601-1	ContraPest®	0.00	7.00	9	4-Vinylcyclohexene diepoxide; Triptolide	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
7173-218	GENERATION MINI BLOCKS	0.00	1.69	7	Difethialone	3	NO	NO	NO
12455-80	DITRAC ALL-WEATHER BLOX	0.00	59.59	6	Diphacinone	3	NO	NO	NO
7173-187	MAKI PARAFFINIZED PELLETS	0.00	1.94	5	Bromadiolone	3	NO	NO	NO
56-42	BAIT BLOCK RODENTICIDE WITH PEANUT BUTTER FLAVORIZ	0.00	12.00	3	Diphacinone	3	NO	NO	NO
7173-215	MAKI Rodenticide MINI BLOCKS	0.00	0.75	2	Bromadiolone	3	NO	NO	NO
12455-96	F-TRAC RODENTICIDE	0.00	0.03	1	Bromethalin	3	NO	NO	NO
Insecticides									
74578-12	TREE-AGE R10	74.27	0.00	7,207	Emamectin, benzoate	2	NO	NO	NO
100-1484	DUPONT ADVION COCKROACH GEL BAIT	5.00	8.66	317	Indoxacarb	3	NO	NO	NO
101563-4	SUSPEND SC INSECTICIDE	0.66	6.14	239	Deltamethrin	3	NO	NO	NO
7173-305	ROZOL GROUND SQUIRREL BAIT	0.00	220.25	149	Chlorophacinone	3	NO	NO	NO
9688-190-8845	SPECTRACIDE DESTROYER BRAND WASP & HORNET KILLER	10.53	304	134	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
100-1498	DUPONT ADVION ANT GEL	0.00	4	126	Indoxacarb	3	NO	NO	NO
101563-165	TEMPRID SC-F INSECTICIDE	0.91	0	85	Cyfluthrin, beta; Imidacloprid	3	NO	NO	NO
101563-6	DELTA DUST	6.00	1	48	Deltamethrin	3	NO	NO	NO
64405-2	REDZONE BAIT	0.00	8	48	Boric acid	3	NO	NO	NO
499-550	TC-323	1.27	51.88	43	Prallethrin	3	NO	NO	NO
2724-351	ZOECON RF-259 EMULSIFIABLE CONCENTRATE	0.03	3.06	29	(7S)-Hydroprene	3	NO	NO	NO
432-1312-67760	GARANT T&O 2F	28.68	0.00	23	Imidacloprid	3	NO	NO	NO
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	7.20	21	Bacillus thuringiensis subspecies israelensis strain BMP 144	3	NO	NO	NO
87290-24	WILLOWOOD LAMBDA-CY 1 EC	11.91	0.00	19	Cyhalothrin, lambda	2	NO	NO	NO
101563-60	MERIT 2F INSECTICIDE	44.86	0.00	15	Imidacloprid	3	NO	NO	NO
70506-121	UPI-2005 EXP-06 RUP INSECTICIDE	5.12	0.00	15	Cyhalothrin, lambda	2	NO	NO	NO
100-1551	Ference	10.90	3.81	14	Cyantraniliprole	0	NO	NO	NO
53883-244-66222	QUALI-PRO LAMBDA GC-0	6.75	0.00	14	Cyhalothrin, lambda	2	NO	NO	NO
100-1088	SCIMITAR GC INSECTICIDE	6.02	0.00	14	Cyhalothrin, lambda	3	NO	NO	NO
70051-2-59807	TRIACT 70	1.15	0.00	14	Neem oil	3	NO	NO	NO
48813-1-68539	SUFFOIL-X	0.77	21.75	13	Petroleum distillates	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	11.09	0.00	12	DPX-E2Y45	0	NO	NO	NO
101563-86	TEMPO SC INSECTICIDE	7.92	0.00	12	Cyfluthrin, beta	3	NO	NO	NO
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.14	0.00	12	Spinosad	3	NO	NO	NO
1021-1603	NYLAR 10EC	0.01	0.00	12	Pyriproxyfen	3	NO	NO	NO
89442-24	BIFEN G/N 7.9SC SELECT	4.50	0.00	9	Bifenthrin	3	YES	NO	NO
89459-59	ENVI ACU CONTACT Insecticide	0.74	0.00	9	Phenylethyl propionate	3	NO	NO	NO
62719-523	BLACKHAWK	0.50	25.34	9	Spinosad	3	NO	NO	NO
432-763-62719	SUSPEND SC	0.03	0.16	9	Deltamethrin	3	NO	NO	NO
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.07	9	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles	3	NO	NO	NO
53883-365	QUALI-PRO BIFENTHRIN I/T 7.9F	1.78	0.00	8	Bifenthrin	3	YES	NO	NO
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.18	0.00	8	Pyriproxyfen	3	NO	NO	NO
81880-29-10163	Sanmite SC Miticide Insecticide	0.06	0.00	8	Pyridaben	3	NO	NO	NO
53883-514	QUALI-PRO IMIDACLOPRID 2F TURF & ORNAMENTAL INSECTICIDE	13.13	0.00	7	Imidacloprid	3	NO	NO	NO
70506-150	IMIGOLD 2F TURF & ORNAMENTAL INSECTICIDE	12.53	0.00	7	Imidacloprid	3	NO	NO	NO
100-1543	MAINSRING GH & N	0.11	0.00	7	Cyantraniliprole	0	NO	NO	NO
1021-2574	MGK FORMULA 2964	0.00	0.75	7	Esfenvalerate; Prallethrin; Piperonyl butoxide	3	YES	NO	NO
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.47	0.00	6	Potassium laurate	2	NO	NO	NO
2724-793	RF2067-EW	0.34	0.00	6	(S)-Kinoprene	3	NO	NO	NO
101563-14	DELTAGARD G INSECTICIDE GRANULE	0.00	8.14	6	Deltamethrin	3	NO	NO	NO
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	0.66	6	Fipronil	3	YES	NO	NO
5481-643	DYLOX 420 SL TURF AND ORNAMENTAL INSECTICIDE	18.15	0.00	5	Trichlorfon	3	YES	NO	NO
69526-5	PURESPRAY SPRAY OIL 10E	12.50	0.00	5	Mineral oil	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
4-80	BONIDE HORTICULTURAL AND DORMANT SPRAY OIL	0.30	0.00	5	Mineral oil	3	NO	NO	NO
2724-469	ZOECON (S)-HYDROPRENE ROACH CONTROL STATION II	0.00	0.03	5	(7S)-Hydroprene	3	NO	NO	NO
2724-421	ZOECON RF-292 BRIQUET	0.00	35.64	5	S-Methoprene	3	NO	NO	NO
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.22	5	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	0.78	5	Avermectin	3	NO	YES	NO
432-1227-10404	LESCO SEVIN SL	23.16	0.00	4	Carbaryl	3	YES	YES	NO
86869-5	LAMBDA SELECT	0.95	0.00	4	Cyhalothrin, lambda	2	NO	NO	NO
74779-17	RTSA 4% EMAMECTIN BENZOATE	0.93	0.00	4	Emamectin, benzoate	3	NO	NO	NO
101563-130	SPIROTETRAMAT 240 SC GREENHOUSE AND NURSERY INSECTICIDE/MITICIDE	0.08	0.00	4	Spirotetramat	3	NO	NO	NO
10163-326	CAPTIVA	0.07	0.00	4	Garlic; Resins, oleo-, capsicum; Soybean oil	3	NO	NO	NO
70051-9-59807	AZATIN O BIOLOGICAL INSECTICIDE	0.06	0.00	4	Azadirachtin	3	NO	NO	NO
100-1636	Provaunt WDG	0.00	14.25	4	Indoxacarb	3	NO	NO	NO
82074-2	BOTANIGARD 22WP	0.00	2.24	4	Beauveria bassiana GHA	3	NO	NO	NO
73049-429	VECTOMAX FG	0.00	1.39	4	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52	3	NO	NO	NO
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.60	4	Fipronil	3	YES	NO	NO
397-13	STERI-FAB	3.00	0.00	3	Phenothrin; Isopropyl alcohol; Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride; Didecyl dimethyl ammonium chloride	2	NO	NO	NO
70506-537	FLORAMITE SC	0.02	0.00	3	Bifenazate	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
100-1492-82757	0.067% ACELEPRYN INSECTICIDE ON FERTILIZER	0.00	650.00	3	DPX-E2Y45	3	NO	NO	NO
71532-28-91026	FENVASTAR ECOCAP	0.00	0.38	3	Esfenvalerate	3	NO	NO	NO
5481-643-432	Dylox 420 SL	10.00	0.00	2	Trichlorfon	3	YES	NO	NO
279-3155	TALSTAR NURSERY FLOWABLE INSECTICIDE/MITICIDE	5.16	0.00	2	Bifenthrin	3	YES	NO	NO
42750-115-86064	ARMORTECH IMD 2 F	4.00	0.00	2	Imidacloprid	3	NO	NO	NO
2724-351-50809	ZOECON GENCOR 9% EMULSIFIABLE CONCENTRATE	0.20	0.00	2	(7S)-Hydroprene	3	NO	NO	NO
92564-40	DYLOX 9.3% INSECT GRANULES	0.00	51.50	2	Trichlorfon	3	YES	NO	NO
85306-1	SELECT TCS	0.00	3.54	2	Fipronil	3	YES	NO	NO
9688-190	CHEMSICO WASP & HORNET KILLER LE	0.00	2.31	2	Cyhalothrin, lambda; Prallethrin	3	NO	NO	NO
101563-143	SUSPEND POLYZONE	0.00	0.09	2	Deltamethrin	3	NO	NO	NO
70506-24	UP-STAR GOLD INSECTICIDE	0.63	0.00	1	Bifenthrin	3	YES	NO	NO
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb	3	NO	NO	NO
53883-366	QUALI-PRO BIFENTHRIN GOLF & NURSERY 7 9F	0.47	0.00	1	Bifenthrin	3	YES	NO	NO
53883-244	LAMBDA 9.7 GC-O	0.23	0.00	1	Cyhalothrin, lambda	2	NO	NO	NO
86203-11-59639	SAFARI 20SG INSECTICIDE	0.03	0.00	1	Dinotefuran	3	NO	NO	NO
5481-641-432	Dylox 6.2 Granular Insecticide	0.00	480.00	1	Trichlorfon	3	YES	NO	NO
2724-351-432	TURBOCID GOLD WITH GENTROL	0.00	118.00	1	(7S)-Hydroprene	3	NO	NO	NO
53883-513	QUALI-PRO IMIDACLOPRID 75 WSB	0.00	1.00	1	Imidacloprid	3	NO	NO	NO
9688-187	CHEMSICO AEROSOL INSECTICIDE EL-A	0.00	1.00	1	Prallethrin; Lambda-Cyhalothrin	3	NO	NO	NO
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	0.31	1	Indoxacarb	3	NO	NO	NO
67702-24-70051	BUG-N-SLUGGO INSECT, SLUG AND SNAIL BAIT	0.00	0.29	1	Iron phosphate; Spinosad	3	NO	NO	NO
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.26	1	Imidacloprid	3	NO	NO	NO
1021-1815	EVERCIDE ESFENVALERATE 6.4% CS	0.00	0.13	1	Esfenvalerate	3	NO	NO	NO
84059-17	GRANDEVO	0.00	0.03	1	Chromobacterium subtsugae strain PRAA4-1 cells and spent fermentation media	3	NO	NO	NO

Herbicides

EPA Reg. #	EPA Product Name	Volume (Gals)	Weight (Lbs)	No. Appl's.	Active Ingredient(s)	EPA Tox Cat	EPA Carcin	CA Dev. Toxin	IARC Carcin
62719-527	GARLON 4 ULTRA	19.00	0.00	173	Triclopyr	2	NO	NO	NO
100-937	PRIMO MAXX	41.15	0.00	90	Trinexapac-ethyl	3	NO	NO	NO
86064-3	ARMOR TECH PGR 113 MC	23.09	0.00	68	Trinexapac-ethyl	3	NO	NO	NO
89442-7	TRIN-PAC SELECT	43.86	0.00	55	Trinexapac-ethyl	3	NO	NO	NO
241-437-67690	CLEARCAST HERBICIDE	12.18	0.00	55	Imazamox	3	NO	NO	NO
62719-519	MILESTONE	1.86	0.00	54	Aminopyralid, triisopropanolamine salt	3	NO	NO	NO
62719-687	VASTLAN	6.80	0.00	50	Triclopyr, Choline Salt	2	NO	NO	NO
62719-176	PATHFINDER II	0.00	19.33	48	Triclopyr, butoxyethyl ester	3	NO	NO	NO
62719-542	DIMENSION 2EW	83.37	9.37	45	Dithiopyr	2	NO	NO	NO
10163-325	SCYTHE HERBICIDE	16.73	121.50	42	Nonanoic acid	2	NO	NO	NO
62719-324	GLYPRO	3.98	0.00	30	Glyphosate, isopropylamine salt	3	NO	NO	YES
1001-91	GWN-6010 PLANT GROWTH REGULATOR	18.53	139.35	28	Prohexadione calcium	3	NO	NO	NO
432-950	ACCLAIM EXTRA HERBICIDE	8.16	0.00	25	Fenoxaprop-P (+)	3	NO	NO	NO
92967-1	AVENGER WEED KILLER CONCENTRATE	20.25	0.00	17	Limonene	3	NO	NO	NO
228-743	NUP-18013	16.15	0.00	17	Glufosinate- ammonium	3	NO	NO	NO
101563-40	PROXY GROWTH REGULATOR	118.07	0.00	16	Ethephon	1	NO	NO	NO
100-1267	TENACITY	0.06	0.00	14	Mesotrione	3	NO	NO	NO
7969-327	PYLEX HERBICIDE	0.34	0.00	12	Topramezone	3	NO	NO	NO
100-1412	CLARELLE	6.66	0.00	11	Paclobutrazol	3	NO	NO	NO
71368-114	Panther SC - Non- Crop Herbicide	3.60	0.00	10	Flumioxazin	0	NO	NO	NO
62719-560	EF-1343	3.76	0.00	9	Florasulam	3	NO	NO	NO
67702-26	Fiesta Herbicide	240.00	0.00	8	Iron HEDTA	3	NO	NO	NO
53883-379	QUALI-PRO PRODIAMINE 4L	36.67	0.00	6	Prodiamine	3	YES	NO	NO
66222-151	ETHEPHON 2SL	23.81	0.00	5	Ethephon	1	NO	NO	NO
524-579	ROUNDUP PROMAX	0.24	0.00	5	Glyphosate, potassium salt	3	NO	NO	YES
352-401	DUPONT OUST HERBICIDE	0.00	0.27	5	Sulfometuron methyl	3	NO	NO	NO
86064-5	ARMORTECH (R) THREESOME(TM)	10.33	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	1	NO	NO	NO
10404-43	LESCO THREE-WAY SELECTIVE HERBICIDE	5.84	0.00	3	2,4-D, dimethylamine salt; Dicamba, dimethylamine salt; MCP-P, dimethylamine salt	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
228-741	NUP-16011 Herbicide	3.23	0.00	3	2,4-D, 2-ethylhexyl ester; Fluroxypyr 1-methylheptyl ester; Flumioxazin; Triclopyr, butoxyethyl ester	3	NO	NO	NO
100-1014	PACLOBUTRAZOL 2SC	2.00	0.00	3	Paclobutrazol	3	NO	NO	NO
62719-305	LONTREL TURF AND ORNAMENTAL	1.06	0.00	3	Clopyralid	3	NO	NO	NO
228-317	COOL POWER SELECTIVE HERBICIDE	0.96	0.00	3	Dicamba; MCPA, 2-ethyl hexyl ester; Triclopyr, butoxyethyl ester	3	NO	NO	NO
279-3265	F8426 HERBICIDE	0.03	0.00	3	Carfentrazone-ethyl	3	NO	NO	NO
81880-1-10163	SEDGEHAMMER	0.00	0.46	3	Halosulfuron-methyl	3	NO	NO	NO
100-1139	BARRICADE 4FL	15.47	0.00	2	Prodiamine	3	YES	NO	NO
2217-696	BETAMEC 4 PRE-EMERGENCE GRASS KILLER	12.50	0.00	2	Bensulide	3	NO	NO	NO
89442-22	TRIAD SELECT	11.80	0.00	2	Dicamba, dimethylamine salt; 2,4-D; MCPA, dimethylamine salt	2	NO	NO	YES
7969-398	Segment II Herbicide	6.17	0.00	2	Sethoxydim	2	NO	NO	NO
228-312	TRIPLET SF	4.38	0.00	2	Dicamba, dimethylamine salt; 2,4-D, dimethylamine salt; MCPP-P, dimethylamine salt	1	NO	NO	NO
7969-272	DRIVE XLR8 HERBICIDE	3.77	0.00	2	Quinclorac	3	NO	NO	NO
53883-399	Quali Pro Dithiopyr L	3.00	0.00	2	Dithiopyr	2	NO	NO	NO
62719-92	CONFRONT	1.98	0.00	2	Clopyralid, triethanolamine; Triclopyr, triethylamine salt	1	NO	NO	NO
53883-336	QUINCLORAC 1.5 L	1.40	0.00	2	Quinclorac, Dimethylamine Salt	3	NO	NO	NO
67690-46	LEGACY TURF GROWTH REGULATOR	0.86	0.00	2	Trinexapac-ethyl; Flurprimidol	2	NO	NO	NO
71368-112	CHEETAH	0.25	0.00	2	Glufosinate-ammonium	2	NO	NO	NO
961-362	LEBANON FERTILIZER WITH BARRICADE (0.43%) PREEMERGENCE WEED CONTROL (0.00	12,600.00	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
538-317-961	Lebanon ProScape Fertilizer with 0.08% MESO Preemergent Weed Control	0.00	960.00	2	Mesotrione	3	NO	NO	NO
9198-213	THE ANDERSONS 0.25% GRANULAR DITHIOPYR HERBICIDE	0.00	628.00	2	Dithiopyr	3	NO	NO	NO
524-535	ROUNDUP QUIKPRO HERBICIDE	150.00	0.00	1	Glyphosate, monoammonium salt; Diquat dibromide	3	NO	NO	YES
2217-833	SPEED ZONE BROADLEAF HERBICIDE	24.50	0.00	1	2,4-D, 2-ethylhexyl ester; Carfentrazone-ethyl; Dicamba; Mecroprop-p	3	YES	NO	NO
89442-22-72159	TRIAD SELECT	5.50	0.00	1	Dicamba, dimethylamine salt; 2,4-D; MCPA, dimethylamine salt	2	NO	NO	YES
2217-696-33955	ACME PROFESSIONAL STRENGTH BETASAN(R) PRE-EMERGENCE WEED & CRABGRASS P	4.10	0.00	1	Bensulide	3	NO	NO	NO
228-312-12204	TRIPLE SELECT	1.51	0.00	1	Dicamba, dimethylamine salt; MCPP-P, dimethylamine salt; 2,4-D, dimethylamine salt	1	NO	NO	NO
2217-1053	EH-1681 Herbicide	1.33	0.00	1	Carfentrazone-ethyl; MCPP-P, dimethylamine salt; Dicamba, dimethylamine salt; 2,4-D, 2-ethylhexyl ester	3	NO	NO	NO
524-475	ROUNDUP ULTRA HERBICIDE	0.05	0.00	1	Glyphosate, isopropylamine salt	3	NO	NO	YES
62719-566	TURFLON ESTER ULTRA	0.01	0.00	1	Triclopyr, butoxyethyl ester	3	NO	NO	NO
961-362-89063	TURFGRASS FERTILIZER WITH BARRICADE 0.43% PREEMERGENCE WEED CONTROL	0.00	4,400.00	1	Prodiamine	3	YES	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	650.00	1	Dithiopyr	3	NO	NO	NO
53883-374-86064	ARMORTECH CGC 40 WSP	0.00	1.88	1	Dithiopyr	3	NO	NO	NO
228-711	NUFARM PROSEGE SELECTIVE HERBICIDE2	0.00	0.08	1	Halosulfuron-methyl	3	NO	NO	NO
Fungicides									
68539-3	T-22G BIOLOGICAL PLANT PROTECTANT GRANULES	0.00	109.46	120	Trichoderma harzianum rifai strain KRL-AG2	3	NO	NO	NO
100-1364	DACONIL ACTION	772.86	0.00	100	Acibenzolar-S-methyl; Chlorothalonil	2	YES	NO	YES
101563-21	BANOL TURF AND ORNAMENTAL FUNGICIDE	158.37	20.00	60	Propamocarb hydrochloride	3	NO	NO	NO
101563-162	12ESP705 FUNGICIDE	0.00	1,386.91	44	Fosetyl-Al	3	NO	NO	NO
53883-353	QUALI-PRO T-NEX	50.42	0.00	34	Trinexapac-ethyl	3	NO	NO	NO
86064-6	ArmorTech ZOXY 2F	45.47	0.00	34	Azoxystrobin	3	NO	NO	NO
228-630-86064	ArmorTech TMI 2020 FLO	74.00	0.00	29	Thiophanate-methyl; Iprodione	3	YES	YES	NO
100-892	ARBOTECT 20-S FUNGICIDE	5.12	651.53	29	Thiabendazole	3	YES	NO	NO
100-1633	Secure Action	41.92	0.00	27	Fluazinam; Acibenzolar-S-methyl	3	YES	NO	NO
69526-13	CIVITAS	95.00	0.00	26	Mineral oil	3	NO	NO	NO
53883-313	QUALI-PRO CHLOROTHALONIL DF	0.00	993.05	23	Chlorothalonil	2	YES	NO	YES
66222-117	ORIOUS 3.6F	54.43	8.00	22	Tebuconazole	3	YES	NO	NO
264-1155	RHAPSODY AS0	132.50	0.00	21	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
89442-1	TEBUCONAZOLE 3.6 SELECT	32.69	0.00	21	Tebuconazole	3	YES	NO	NO
53883-433	QUALI-PRO MEFENOXAM 2AQ	18.70	13.44	20	Mefenoxam	2	NO	NO	NO
42750-99	TEBUCONAZOLE 3.6FL	44.45	0.00	19	Tebuconazole	3	YES	NO	NO
70299-12	ZEROTOL 2.0	8.52	0.00	19	Peroxyacetic acid; Hydrogen peroxide	1	NO	NO	NO
7969-404	Maxtima Fungicide	19.02	0.00	18	Mefentrifluconazole	3	NO	NO	NO
89442-37	Fluazinam 40SC Select	21.83	0.00	16	Fluazinam	3	YES	NO	NO
7969-349	Xzemplar Fungicide	12.54	0.00	16	Fluxapyroxad	3	NO	NO	NO
60063-7-10404	LESCO MANICRUE 6FL	130.55	0.00	14	Chlorothalonil	2	YES	NO	YES
432-1505	CHIPCO 26019T FUNGICIDE	76.43	0.00	14	Iprodione; Trifloxystrobin	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
101563-152	TEBUCONAZOLE SC TURF AND ORNAMENTAL FUNGICIDE	32.80	0.00	14	Tebuconazole	3	YES	NO	NO
66222-117-86064	ARMOR TECH TEB360 XL	18.43	0.00	14	Tebuconazole	3	YES	NO	NO
91234-199-86064	CYA 345	14.15	0.00	14	Cyazofamid	3	NO	NO	NO
86064-1	ARMORTECH CLT 825 DF	0.00	240.00	14	Chlorothalonil	2	YES	NO	YES
432-888	CHIPCO 26019 FLO BRAND FUNGICIDE	156.92	0.00	13	Iprodione	3	YES	NO	NO
53883-310	QUALI-PRO CHLOROTHALONIL 720 SFT	146.99	20.00	13	Chlorothalonil	2	YES	NO	YES
53883-323-86064	ARMOR TECH TMI 2020XL	61.22	0.00	13	Thiophanate-methyl; Iprodione	3	YES	YES	NO
101563-113	TARTAN FLO FUNGICIDE	50.74	0.00	11	Triadimefon; Trifloxystrobin	3	YES	YES	NO
228-633	NUFARM PROPICONAZOLE SPC EC FUNGICIDE	21.27	0.00	11	Propiconazole	2	YES	NO	NO
228-737	NUP-15013 Fungicide	11.60	0.00	11	Fluazinam	3	YES	NO	NO
70506-272	PEGASUS DFX	0.00	1,555.00	11	Chlorothalonil	1	YES	NO	YES
101563-18	ALIETTE WDG BRAND FUNGICIDE	0.00	490.08	11	Fosetyl-Al	3	NO	NO	NO
53883-310-86064	Armor Tech CLT 720 XL Fungicide	247.04	0.00	10	Chlorothalonil	2	YES	NO	YES
228-623-10404	LESCO SPECTATOR ULTRA 1.3 FUNGICIDE	15.64	0.00	10	Propiconazole	2	YES	NO	NO
59639-144	V-10116 VPP FUNGICIDE	0.00	110.57	10	Metconazole	3	NO	NO	NO
67690-77	ZIO	0.00	40.00	10	Pseudomonas chlororaphis strain AFS009	3	NO	NO	NO
70506-262	PEGASUS 6L	93.98	0.00	9	Chlorothalonil	2	YES	NO	YES
7969-290	INSIGNIA SC INTRINSIC BRAND FUNGICIDE	14.21	0.00	9	Pyraclostrobin	2	NO	NO	NO
432-888-10404	LESCO 18 PLUS TURF & ORNAMENTAL FUNGICIDE	54.72	0.00	8	Iprodione	3	YES	NO	NO
89442-28	IPRODIONE 2F SELECT	32.03	0.00	8	Iprodione	3	YES	NO	NO
83070-8	ADVAN PROPAMOCARB	24.40	0.00	8	Propamocarb hydrochloride	3	NO	NO	NO
5481-617	EQUUS DF	20.00	179.75	8	Chlorothalonil	2	YES	NO	YES
228-737-52287	NUP-15013 Fungicide	14.00	0.00	8	Fluazinam	3	YES	NO	NO
71512-13-2217	SEGWAY FUNGICIDE	10.37	0.00	8	Cyazofamid	3	NO	NO	NO
101563-210	Densicor	3.88	0.00	8	Prothioconazole	3	NO	NO	NO
7969-255	HONOR FUNGICIDE	0.00	98.59	8	Nicobifen; Pyraclostrobin	3	YES	NO	NO
68173-3-1001	AFFIRM WDG	0.00	73.48	8	Polyoxin D zinc salt	3	NO	NO	NO
86064-4	ARMOR TECH PPZ 143 MC	48.84	0.00	7	Propiconazole	2	YES	NO	NO
89442-3	PPZ 41.8 SELECT	11.61	0.00	7	Propiconazole	2	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
53883-343	AZOXYSTROBIN 50 WG	1.44	3.26	7	Azoxystrobin	3	NO	NO	NO
432-890-10404	LESCO PRODIGY SIGNATURE	0.00	286.00	7	Fosetyl-Al	3	NO	NO	NO
89442-14	THIOPHANATE METHYL 4.5F SELECT	42.58	0.00	6	Thiophanate-methyl	3	YES	YES	NO
228-626	NUFARM T-METHYL PRO 4.5 F FUNGICIDE	21.94	0.00	6	Thiophanate-methyl	3	YES	YES	NO
100-1477	Ascernity	7.39	0.00	6	Difenoconazole	3	YES	NO	NO
53883-454-10404	LESCO Drax Fungicide	5.14	0.00	6	Fluazinam	3	YES	NO	NO
83170-1	DUTCH TRIG	0.11	0.00	6	Verticillium dahliae isolate WCS 850	3	NO	NO	NO
70299-15	GC PRO	0.00	531.50	6	Sodium percarbonate	1	NO	NO	NO
70870-1-68539	MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	0.00	0.47	6	Potassium bicarbonate	3	NO	NO	NO
228-739	NUP-15014 Fungicide	29.19	0.00	5	Tebuconazole; Fluazinam	3	YES	NO	NO
100-1654	A22070 Fungicide	24.11	0.00	5	Azoxystrobin; Propiconazole	2	YES	NO	NO
66222-154-73220	QUALI-PRO CHLOROTHALONIL 720 SFT	19.62	0.00	5	Chlorothalonil	2	NO	NO	NO
101563-112	BAYLETON FLO TURF AND ORNAMENTAL FUNGICIDE	13.13	0.00	5	Triadimefon	3	YES	YES	NO
228-630-10404	LESCO TWOSOME FUNGICIDE	11.39	0.00	5	Iprodione; Thiophanate-methyl	3	YES	YES	NO
73806-1	K-PHITE 7LP Fungicide	5.88	0.00	5	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
7969-196	EMERALD FUNGICIDE	0.00	42.08	5	Nicobifen	2	YES	NO	NO
72112-2	TRANSOM 4.5 F	20.60	0.00	4	Thiophanate-methyl	3	YES	YES	NO
50534-209-100	MANICURE 6 FLOWABLE	20.00	0.00	4	Chlorothalonil	3	NO	NO	NO
100-1433	BRISKWAY	17.82	0.00	4	Azoxystrobin; Difenoconazole	3	YES	NO	NO
53883-477	CSI 19-349 Fludioxonil	5.27	0.00	4	Fludioxonil	3	NO	NO	NO
100-1550	HERITAGE ACTION	0.00	57.75	4	Acibenzolar-S-methyl; Azoxystrobin	3	NO	NO	NO
62388-1-93445	NOGALL	0.00	3.30	4	Agrobacterium radiobacter strain K1026	3	NO	NO	NO
89442-46	FluazTeb Select	23.43	0.00	3	Fluazinam; Tebuconazole	3	YES	NO	NO
86064-9	ArmorTech TM 462 F	12.50	0.00	3	Thiophanate-methyl	3	YES	YES	NO
67702-2-59807	Grotto	10.98	0.00	3	Copper octanoate	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
83100-1-83979	OFFSET 3.6F FUNGICIDE	8.78	0.00	3	Tebuconazole	3	YES	NO	NO
53883-309	QUALI-PRO ENCLAVE 5.3F	7.50	20.00	3	Chlorothalonil; Thiophanate-methyl; Iprodione; Tebuconazole	3	YES	YES	YES
70051-107-59807	TRIATHLON BA	5.25	0.00	3	Bacillus subtilis var. amyloliquefaciens strain D747	0	NO	NO	NO
264-1155-68539	CEASE	4.50	0.00	3	QST 713 strain of dried Bacillus subtilis	3	NO	NO	NO
7969-403	NAVICON INTRINSIC BRAND FUNGICIDE	3.39	0.00	3	Pyraclostrobin; Mefentrifluconazole	3	NO	NO	NO
100-1600	A19649 200SC Turf	3.24	0.00	3	Pydiflumetofen	3	NO	NO	NO
7969-184	Insignia Fungicide	2.91	0.00	3	Pyraclostrobin	3	NO	NO	NO
89442-21	AZOXY 2SC SELECT	2.35	0.00	3	Azoxystrobin	3	NO	NO	NO
93051-4	Rightline Azox 2 SC	2.16	0.00	3	Azoxystrobin	3	NO	NO	NO
7969-350	LEXICON INTRINSIC BRAND FUNGICIDE	1.79	4.00	3	Fluxapyroxad; Pyraclostrobin	3	NO	NO	NO
42750-261-53883	STROBE 2L	0.66	0.00	3	Azoxystrobin	3	NO	NO	NO
70506-187	MICROTHIOL DISPERS	0.00	47.50	3	Sulfur	3	NO	NO	NO
89442-17	PROPICONAZOLE 14.3 SELECT	7.97	0.00	2	Propiconazole	3	YES	NO	NO
100-1326	BANNER MAXX II	4.69	0.00	2	Propiconazole	3	YES	NO	NO
62719-396-10404	LESCO 4 FLOWABLE MANCOZEB	4.50	0.00	2	Mancozeb	0	YES	NO	NO
70506-571-59807	TERRAZOLE 4EC	2.00	0.00	2	Terrazole	1	YES	NO	NO
84059-3	REGALIA BIOPROTECTANT CONCENTRATE	1.25	0.00	2	Reynoutria sachalinensis	3	NO	NO	NO
1001-70	3336 G	0.01	0.00	2	Thiophanate-methyl	3	YES	YES	NO
100-796	SUBDUE MAXX	0.01	0.00	2	Mefenoxam	3	NO	NO	NO
9198-115	THE ANDERSONS TURF FUNGICIDE WITH 5.0% DICONIL	0.00	960.00	2	Chlorothalonil	1	YES	NO	YES
50534-202-100	MANICURE ULTREX TURF & ORNAMENTAL	0.00	107.12	2	Chlorothalonil	1	NO	NO	NO
62719-402-10404	LESCO MANCOZEB DG TURF AND ORNAMENTAL FUNGICIDE	0.00	96.00	2	Mancozeb	3	YES	NO	NO
66222-161	LEGION 80 WDG	0.00	87.50	2	Fosetyl-Al	3	NO	NO	NO
53883-483	Quali-Pro TM 4.5	0.00	40.00	2	Thiophanate-methyl	3	YES	YES	NO
53883-418	CSI 15-128B Azoxy + Propiconazole	0.00	32.00	2	Azoxystrobin; Propiconazole	3	YES	NO	NO
53883-363	BUMPER 14.3 EC (PROPICONAZOLE) FUNGICIDE	0.00	31.25	2	Propiconazole	3	YES	NO	NO
432-1223	PROSTAR 70 WP	0.00	2.92	2	Flutolanil	3	NO	NO	NO
464-693-63288	CHEMICAR 15	66.00	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
61842-30-90930	LIME-SULFUR SOLUTION AGRICULTURAL FUNGICIDE	18.75	0.00	1	Lime-sulfur	1	NO	NO	NO
66222-134	THIOPHANATE METHYL 4.5 F	12.00	0.00	1	Thiophanate-methyl	3	YES	YES	NO
2217-1049	EF-716 FUNGICIDE	11.00	0.00	1	Azoxystrobin; Cyazofamid	3	NO	NO	NO
89442-41	AzProp Select	6.50	0.00	1	Propiconazole; Azoxystrobin	3	YES	NO	NO
50534-211-100	DACONIL ZN FLOWABLE FUNGICIDE	5.00	0.00	1	Chlorothalonil	2	NO	NO	NO
100-1642	Appear II Fungicide	4.81	0.00	1	Mono- and di-potassium salts of phosphorous acid	3	NO	NO	NO
70506-114	TEBUCONAZOLE 3.6 F FUNGICIDE	4.20	0.00	1	Tebuconazole	3	YES	NO	NO
71512-13-279	SEGWAY FUNGICIDE	3.36	0.00	1	Cyazofamid	3	NO	NO	NO
228-623	NUFARM PROPICONAZOLE SPC 14.3 MEC FUNGICIDE	2.73	0.00	1	Propiconazole	2	YES	NO	NO
100-1448	MEDALLION SC	1.33	0.00	1	Fludioxonil	3	NO	NO	NO
42750-211	PROPICONAZOLE 41.8% EC	1.33	0.00	1	Propiconazole	2	YES	NO	NO
89442-54	Azoxy D Select	1.31	0.00	1	Azoxystrobin; Difeconazole	3	YES	NO	NO
42750-252	PROPICONAZOLE 1.3 ME	1.17	0.00	1	Propiconazole	2	YES	NO	NO
67702-2-67690	CAMELOT O FUNGICIDE/BACTERICIDE	1.13	0.00	1	Copper octanoate	3	NO	NO	NO
89442-16	METALAXYL 4L SELECT	0.30	0.00	1	Metalaxyl	3	NO	NO	NO
42750-292	AZOXY 11% + TEB 26% FL	0.13	0.00	1	Azoxystrobin; Tebuconazole	3	YES	NO	NO
400-422-59807	TERRAZOLE L	0.13	0.00	1	Terrazole	1	NO	NO	NO
60063-59-52287	Azoxystrobin 250 SC	0.06	0.00	1	Azoxystrobin	2	NO	NO	NO
961-277	LEBANON TURF FUNGICIDE CONTAINS DACONIL	0.00	360.00	1	Chlorothalonil	3	YES	NO	YES
66222-149-73220	ARMOR TECH CLT 825	0.00	140.00	1	Chlorothalonil	2	NO	NO	NO
100-1694	DACONIL SDG	0.00	20.00	1	Chlorothalonil	1	YES	NO	YES
53883-380	QUALI-PRO IPRO 2	0.00	20.00	1	Iprodione	3	YES	NO	NO
100-1191	HERITAGE MAXX	0.00	8.00	1	Azoxystrobin	3	NO	NO	NO
91234-199-53883	Gateway Fungicide SC	0.00	5.63	1	Cyazofamid	3	NO	NO	NO
4-62	BONIDE SULPHUR PLANT FUNGICIDE MICRONIZED SPRAY OR DUST	0.00	3.88	1	Sulfur	3	NO	NO	NO
68539-13	PB133	0.00	0.05	1	Potassium bicarbonate	3	NO	NO	NO
Other (Repellents, Biochemical Pesticides, Etc.)									
59807-4	HORMODIN 1	0.00	0.28	40	IBA	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
60061-142	PETTIT NEPTUNE 5 HARD HYBRID ABLATIVE ANTIFOULING PAINT	14.00	0.00	14	Copper oxide (ous)	2	NO	NO	NO
73049-15	PROGIBB 4% PLANT GROWTH REGULATOR SOLUTION	0.00	0.00	4	Gibberellins	2	NO	NO	NO
63838-5	BROMMAX 7.1	70.00	0.00	1	Sodium bromide; Sodium hypochlorite	1	NO	NO	NO

APPENDIX 3: Complete Listing of “Best Management Practices” Insecticides Used Citywide in 2023

EPA Reg. #	EPA Prod Name	Volume in Gallons	Weight in Pounds	Total Applications	Active Ingredient Data
100-1484	DUPONT ADVION COCKROACH GEL BAIT	5.05	1161.42	46,192	Indoxacarb
73049-429	VECTOMAX FG	0.00	4219.81	31,318	Bacillus sphaericus; Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
64405-2	REDZONE BAIT	1.00	2072.02	12,800	Boric acid
1021-2593	VENDETTA PLUS COCKROACH GEL BAIT	0.05	175.73	8,179	Avermectin; Pyriproxyfen
1021-2796	MGK Formula 3113	0.00	247.66	4,090	Clothianidin; Pyriproxyfen
100-1290	OPTIGARD COCKROACH GEL BAIT	0.00	45.98	1,957	Emamectin, benzoate
73766-1	GOURMET ANT BAIT GEL	0.62	28.22	1,854	Disodium octaborate tetrahydrate
100-1498	DUPONT ADVION ANT GEL	0.00	213.19	1,377	Indoxacarb
101563-47	MAXFORCE ROACH BAIT F.05	0.00	30.50	840	Fipronil
53883-438	CSI 16-107G Indoxacarb Powder	0.00	14.80	819	Indoxacarb
101563-122	MAXFORCE FC ROACH KILLER BAIT GEL F.05	0.00	10.80	658	Fipronil
100-1486	DUPONT ADVION COCKROACH BAIT ARENA	0.00	361.19	656	Indoxacarb
101563-49	PRODUCT: RBF5	0.00	18.45	533	Fipronil
89459-59	ENVI ACU CONTACT Insecticide	34.87	0.00	463	Phenylethyl propionate
101563-119	BES 0026 FLY SPOT BAIT	64.12	254.14	407	Imidacloprid; (Z)-9-Tricosene
73079-4	BORACTIN INSECTICIDE POWDER	0.00	154.89	393	Boric acid
73079-14	IMIDACLOPRID GRANULAR BAIT	0.00	67.58	306	Imidacloprid
73049-10	VECTOBAC G BIOLOGICAL LARVICIDE GRANULES	0.00	28400.50	151	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
7173-305	ROZOL GROUND SQUIRREL BAIT	0.00	220.25	149	Chlorophacinone
64405-37	Nibor-D Insecticide Foam + IGR	0.00	47.54	144	Disodium octaborate tetrahydrate; Pyriproxyfen
6218-47	SUMMIT B.T.I. BRIQUETS	0.00	22.67	110	Bacillus thuringiensis subspecies Israelensis strain BMP 144
101563-94	PRE-EMPT FLY BAIT	0.00	19.10	65	Imidacloprid; (Z)-9-Tricosene
100-1501	DUPONT ARILON INSECTICIDE	27.95	0.00	59	Indoxacarb
73049-501	VBC-60394 FG BIOLOGICAL LARVICIDE FINE GRANULE	0.00	10990.00	54	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
64405-8	NIBOR BORATE INSECTICIDE AND FUNGICIDE	1.00	16.78	52	Disodium octaborate tetrahydrate
1021-1603	NYLAR 10EC	5.55	0.00	46	Pyriproxyfen
499-370	PT 370 ASCEND FIRE ANT STOPPER BAIT	0.00	6.93	40	Avermectin
2724-352	ZOECON RF-291 EMULSIFIABLE CONCENTRATE WITH PRECOR	0.21	0.00	38	S-Methoprene
101563-140	MAXFORCE QUANTUM ANT BAIT	0.00	0.70	33	Imidacloprid
64405-2	ECOLOGICAL ANT & INSECT BAIT	0.00	4.13	22	Boric acid
73049-20	VECTOLEX CG BIOLOGICAL LARVICIDE	0.00	26.38	18	Bacillus sphaericus
70051-2	TRIACT 70	1.15	0.00	14	Neem oil

48813-1	SUFFOIL-X	0.77	21.75	13	Petroleum distillates
92028-3	SureKill Roach Gel Bait	0.00	0.12	13	Imidacloprid
62719-291	CONSERVE SC TURF AND ORNAMENTAL	0.14	0.00	12	Spinosad
73079-6	GREEN ZONE GRANULAR BAIT	0.00	1.81	10	Boric acid
62719-523	BLACKHAWK	0.50	25.34	9	Spinosad
73049-39	DIPEL DF DRY FLOWABLE BIOLOGICAL INSECTICIDE	0.00	1.07	9	Bacillus thuringiensis, subsp. Kurstaki, strain ABTS-351, fermentation solids and solubles
59639-96	DISTANCE INSECT GROWTH REGULATOR	0.18	0.00	8	Pyriproxyfen
499-568	PT ALPINE PRESSURIZED FLY BAIT	0.00	2.16	8	Dinotefuran
100-1485	DUPONT ADVION ANT BAIT ARENA	0.00	1.10	8	Indoxacarb
100-1679	Advion Trio	0.00	0.15	8	Indoxacarb; Pyriproxyfen; Novaluron
10163-324	M-PEDE INSECTICIDE/FUNGICIDE	0.47	0.00	6	Potassium laurate
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.22	5	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.75	5	Dinotefuran; Diatomaceous earth
1021-1828	MGK ROACH BAIT 2822	0.00	0.05	5	Avermectin
53883-335	N + P Regulator	0.05	0.00	4	Pyriproxyfen; Novaluron
100-1636	Provaunt WDG	0.00	14.25	4	Indoxacarb
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.60	4	Fipronil
73079-2	INTICE GRANULAR BAIT	0.00	0.04	3	Boric acid
85306-1	SELECT TCS	0.00	3.54	2	Fipronil
100-1483	ADVION INSECT GRANULE	0.00	2.20	2	Indoxacarb
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb
67702-24	BUG-N-SLUGGO INSECT, SLUG AND SNAIL BAIT	0.00	0.29	1	Iron phosphate; Spinosad
2724-451	ZOECON 9010 GR	0.00	0.21	1	S-Methoprene
53883-466	CSI 18-264A INDOX ANT GEL	0.00	0.07	1	Indoxacarb
73079-12	SILICIDE(TM)	0.00	0.06	1	Diatomaceous earth
73049-56	VECTOBAC WDG BIOLOGICAL LARVICIDE	0.00	1.22	5	Bacillus thuringiensis, subsp. Israelensis, strain AM 65-52
499-527	PRESCRIPTION TREATMENT BRAND ALPINE DUST INSECTICIDE	0.00	0.75	5	Dinotefuran; Diatomaceous earth
1021-1828	MGK ROACH BAIT 2822	0.00	0.05	5	Avermectin
53883-335	N + P Regulator	0.05	0.00	4	Pyriproxyfen; Novaluron
100-1636	Provaunt WDG	0.00	14.25	4	Indoxacarb
101563-52	MAXFORCE FC ANT KILLER BAIT GEL	0.00	0.60	4	Fipronil
73079-2	INTICE GRANULAR BAIT	0.00	0.04	3	Boric acid
85306-1	SELECT TCS	0.00	3.54	2	Fipronil
100-1483	ADVION INSECT GRANULE	0.00	2.20	2	Indoxacarb
100-1487	PROVAUNT	0.56	0.00	1	Indoxacarb
67702-24	BUG-N-SLUGGO INSECT, SLUG AND SNAIL BAIT	0.00	0.29	1	Iron phosphate; Spinosad
2724-451	ZOECON 9010 GR	0.00	0.21	1	S-Methoprene
53883-466	CSI 18-264A INDOX ANT GEL	0.00	0.07	1	Indoxacarb
73079-12	SILICIDE(TM)	0.00	0.06	1	Diatomaceous earth