

Non-Agricultural Pesticide Sales 2013

Introduction

The Minnesota Department of Agriculture (MDA) is responsible for monitoring urban (non-agricultural) and rural (agricultural) pesticideⁱ use in Minnesota. Pesticide registrants provide the MDA the total pounds of non-agricultural active ingredients (a.i.) sold in Minnesota each year. Over 500 a.i.s are reported through product sales and each product sold is assigned to one of 13 pesticide product type categories. These categories group pesticides according to their primary use as listed on the pesticide label. This factsheet details the non-agricultural pesticide products soldⁱⁱ in 2013. Accordingly, crop chemicals and formulatingⁱⁱⁱ pesticides are not included in this report. The remaining 11 categories are shown in the following table.

| NON-AGRICULTURAL PESTICIDE PRODUCT TYPE | DEFINITION |
|---|--|
| Animal Care | Products used for the care of livestock and household pets. |
| Disinfectants and Sanitizers | All professional and homeowner use of disinfectant and sanitizer products. |
| Garden and Lawn | Products generally used by homeowners on lawns and gardens. |
| Home | Products used in the home by homeowner: includes mosquito repellents. |
| Industrial, Right-of-Way, and Forestry | Products used along highways and power lines rights-of-way, in industrial areas and forest management products. |
| Miscellaneous | Products that don't fit into any other category. Examples include certain antimicrobial products used in industrial settings, aquatic use products, professional mosquito control products, and anti-fouling paints applied to boats. Examples of antimicrobial uses include water treatment in sewage and wastewater systems, pulp and paper mill systems, and commercial and industrial water cooling systems. |
| Pool, Spa, and Hot Tub | Products used in swimming pools, spas, and hot tubs (except disinfectants and sanitizers). |
| Structural | Products include pesticides used in and around structures by professionals. |
| Turf and Ornamental | Professional use turf and ornamental products and products used on golf course. |
| Vertebrate Control | Products include avicides, rodenticides, piscicides and animal repellents |
| Wood Preservatives | Products that protect wood from decay by fungus and insects. |

Additional detailed information can be found in a searchable database at:

www.mda.state.mn.us/pesticide-fertilizer/pesticide-use-sales-data.

For Additional Information: Denton Bruening

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2013 Reported Sales

The following table details the total pounds of a.i. sold in each non-agricultural pesticide category. This data is accurate as of 5/28/2019^{iv}.

| NON-AGRICULTURAL PESTICIDE PRODUCT TYPE | TOTAL POUNDS SOLD IN 2013 |
|---|---------------------------|
| Animal Care | 32,608 |
| Disinfectants and Sanitizers | 32,419,852 |
| Garden and Lawn | 337,834 |
| Home | 56,399 |
| Industrial, Right-of-Way, and Forestry | 662,955 |
| Miscellaneous | 2,224,809 |
| Pool, Spa, and Hot Tub | 907,533 |
| Structural | 18,841 |
| Turf and Ornamental | 744,223 |
| Vertebrate Control | 5,756 |
| Wood Preservatives | 3,832,463 |
| Total Non-Agricultural Pounds Sold | 41,243,274 |

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2013.

| NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.) | TOTAL POUNDS SOLD IN 2013 |
|---|---------------------------|
| CHLORINE | 15,976,980 |
| SODIUM HYPOCHLORITE | 11,542,674 |
| ZINC BORATE | 2,246,400 |
| PENTACHLOROPHENOL | 1,156,018 |
| TRICHLORO-S-TRIAZINETRIONE | 867,072 |
| CALCIUM HYPOCHLORITE | 733,172 |
| HYDROGEN PEROXIDE | 615,850 |
| ISOPROPYL ALCOHOL | 509,552 |
| GLYPHOSATE | 493,872 |
| 2,4-D | 450,763 |
| 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN | 450,445 |

| NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.) | TOTAL POUNDS SOLD IN 2013 |
|---|---------------------------|
| HYDROGEN CHLORIDE | 384,166 |
| SODIUM BROMIDE | 340,924 |
| COPPER OXIDE (OUS) | 337,367 |
| SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE | 307,470 |
| ETHYL ALCOHOL | 287,010 |
| SODIUM DICHLORO-S-TRIAZINETRIONE | 215,658 |
| AMMONIUM SULFATE | 187,653 |
| UREA | 178,203 |
| SODIUM CHLORITE | 172,524 |
| ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE | 171,726 |
| PEROXYACETIC ACID | 170,812 |
| ETHYLENE OXIDE | 164,250 |
| AMMONIUM BROMIDE | 152,533 |
| MINERAL OIL | 108,955 |
| PHOSPHORIC ACID | 108,178 |
| COPPER SULFATE | 99,162 |
| COPPER CARBONATE, BASIC | 96,500 |
| SODIUM CHLORATE | 95,484 |
| DAZOMET | 95,011 |
| CHLOROTHALONIL | 94,328 |
| GLUTARALDEHYDE | 91,466 |
| MCP-P | 87,798 |
| DIDECYL DIMETHYL AMMONIUM CHLORIDE | 79,382 |
| OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE | 76,298 |
| CHROMIC ACID | 75,563 |
| POTASSIUM DIMETHYL DITHIO CARBAMATE | 74,466 |
| DIDECYL DIMETHYL AMMONIUM BICARBONATE | 72,949 |
| BORIC ACID | 72,940 |
| TRICLOPYR | 71,984 |
| ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE | 71,464 |

| NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.) | TOTAL POUNDS SOLD IN 2013 |
|--|---------------------------|
| MCPA | 70,200 |
| ARSENIC PENTOXIDE | 57,610 |
| ENDOTHALL | 55,876 |
| ALKYL (67%C12, 25%C14, 7%C16, 1%C8,C10,C18) DIMETHYLBENZYL AMMONIUM CHLORIDE | 48,874 |
| NONANOIC ACID | 46,872 |
| ALKYL (68%C12, 32%C14) DIMETHYLETHYLBENZYL AMMONIUM CHLORIDE | 45,087 |
| AMMONIA | 37,256 |
| DIOCTYL DIMETHYL AMMONIUM CHLORIDE | 36,938 |
| POLY(OXYETHYLENE) (DIMETHYLIMINO) ETHYLENE (DIMETHYLIMINO) ETHYLENE DICHLORIDE | 36,900 |
| | |

In 2013 MDA received reports of 111,932,896 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 37% of the total.

- Trends of non-agricultural pesticide sales over time can be developed by data from the searchable database listed above.
- Charts and graphs detailing pesticide sales by percent of product within each category can also be developed by using data from the searchable database.
- Additional questions or comments can be directed to the Minnesota Department of Agriculture, Denton Bruening 651-201-6399.

ⁱ A pesticide is any substance or mixture of substances intended for preventing, destroying, repelling or lessening the damage of any pest and may be a chemical substance or a biological agent.

ⁱⁱ Registrants reporting sales may include products that are distributed or offered for sale in Minnesota as well as actually sold in 2013. Registrants may not know exactly how much of their product was accurately sold at the retail level compared to being available for sale.

ⁱⁱⁱ Formulating chemicals are chemicals that are used in Minnesota in the manufacturing or formulating of end-use products.

^{iv} Data is subject to change based on corrections made to the data or additions from non-reported products.