



Non-Agricultural Pesticide Sales 2022

1/14/2026

For Additional Information

Fertilizer Management Unit

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Introduction

The Minnesota Department of Agriculture (MDA) is responsible for monitoring urban (non-agricultural) and rural (agricultural) pesticide use in Minnesota. 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. Pesticides can be herbicides, insecticides or fungicides.

Pesticide registrants provide the MDA the total pounds of non-agricultural active ingredients (a.i.) by product sold in Minnesota each year. Over 500 a.i. are reported through product sales and each product sold is assigned to one of 13 pesticide product type categories. These product type categories group pesticides according to their primary use as listed on the pesticide label. Since a product can only be assigned to one product type category, and many products can be used across multiple product type categories, the amount of pesticide sold by product type category may not reflect the actual use patterns of pesticides in Minnesota. This report details the non-agricultural pesticide products sold in 2022. Registrants reporting sales may include products that are distributed or offered for sale in Minnesota as well as sold in 2022. Registrants may not know exactly how much of their product was accurately sold at the retail level compared to being available for sale. Accordingly, crop pesticides, labeled for use on crops, and formulating pesticides, pesticides that are used in Minnesota in the manufacturing or formulating of end-use products, are not included in this report. The remaining 11 product type categories are shown in the following table.

2022 Non-Agricultural Pesticide Product Types

Table 1: Non-Agricultural pesticide product types and their corresponding definitions.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	DEFINITION
Animal Care	Products used for the care of livestock and household pets.
Disinfectants and Sanitizers	Include all professional use and homeowner use disinfectant and sanitizer products.
Garden and Lawn	Products generally used by homeowners on lawns and gardens.
Home	Products used in the home by the homeowner. Mosquito repellents are included here.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	DEFINITION
Industrial, Rights-of-Way, and Forestry	Products include pesticides used on highway and power line rights of ways, in industrial areas, and forest management products.
Miscellaneous	Products include cooling tower microbiocides and slimicides, industrial preservatives and microbiocides, aquatic use products, professional mosquito control products, anti-fouling paints and products that don't fit into any other category.
Pool, Spa, and Hot Tub	Products for use in swimming pools, spas, and hot tubs (except disinfectants and sanitizers).
Structural	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 rodenticides, avicides, piscicides, and animal repellents.
Wood Preservatives	Products that are designed to protect wood from decay by fungus and insects.

2022 Total Pounds Sold

Table 2 is a breakdown of non-agricultural pesticide by product type and the total pounds of a.i. sold in 2022. The information is accurate as of the date of publication as data may change with corrections and additions from non-reported products. Data is subject to change based on corrections made to the data or additions from non-reported products.

Table 2: Summary of total pounds of a.i. sold in each non-agricultural pesticide type. This data is accurate as of 1/9/2026.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	TOTAL POUNDS SOLD OF A.I. IN 2022
Animal Care	39,672
Disinfectants and Sanitizers	40,140,917
Garden and Lawn	151,981

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	TOTAL POUNDS SOLD OF A.I. IN 2022
Home	93,064
Industrial, Rights-of-Way, and Forestry	544,391
Miscellaneous	1,853,819
Pool, Spa, and Hot Tub	670,729
Structural	182,245
Turf and Ornamental	663,623
Vertebrate Control	3,788
Wood Preservatives	4,753,129
Total Non-Agricultural Pounds Sold	49,097,358

2022 Top 50 Non-Agricultural Pesticide Sales by A.I.

Out of the 13 pesticide product type categories, the remaining 11 product type categories of non-agricultural pesticides are broken down and listed by individual non-agricultural pesticide a.i. The top 50 non-agricultural pesticide a.i. are summarized in Table 3 by pounds of a.i. sold in 2022.

Table 3: Summary of total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2022.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (A.I.)	TOTAL POUNDS SOLD IN 2022
CHLORINE	20,349,306
SODIUM HYPOCHLORITE	12,994,555
ZINC BORATE	2,998,287
SODIUM DICHORO-S-TRIAZINETRIONE DIHYDRATE	1,168,568
TRICHLORO-S-TRIAZINETRIONE	1,030,834
ISOPROPYL ALCOHOL	1,016,102
PENTACHLOROPHENOL	872,691
HYDROGEN PEROXIDE	829,413
CALCIUM HYPOCHLORITE	651,286
ETHYL ALCOHOL (previously reported as Ethanol)	532,636
COPPER CARBONATE, BASIC	470,685
2,4-D	456,962
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	416,616
AMMONIUM SULFATE	263,583
HYDROGEN CHLORIDE	239,280
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	211,466

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (A.I.)	TOTAL POUNDS SOLD IN 2022
UREA	206,613
GLUTARALDEHYDE	197,360
SODIUM DICHORO-S-TRIAZINETRIONE	192,244
SODIUM BROMIDE	188,556
PEROXYACETIC ACID	183,090
SODIUM CHLORATE	179,649
COPPER OXIDE (OUS)	160,565
COPPER ETHANOLAMINE COMPLEXES, MIXED	147,077
GLYPHOSATE	145,344
PHOSPHORIC ACID	141,077
COPPER SULFATE	136,021
FORMALDEHYDE	132,395
ETHYLENE OXIDE	126,929
AMMONIUM BROMIDE	103,223
CHROMIC ACID	95,987
AMMONIUM CARBAMATE	94,667
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	88,968
TRICLOPYR	88,685
DIDECYL DIMETHYL AMMONIUM CHLORIDE	80,096
CHLOROTHALONIL	73,911
2,2-DIBROMO-3-NITRILOPROPIONAMIDE	73,590
NONANOIC ACID	69,882
MCP-P	69,019
DIDECYL DIMETHYL AMMONIUM BICARBONATE	66,453
ARSENIC PENTOXIDE	64,205
SODIUM CHLORITE	60,868
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	48,479
CITRIC ACID	44,811
SODIUM P-CHLORO-M-CRESOLATE	41,498
MCPA	35,879
AMMONIA	35,618
LACTIC ACID	34,792
DICAMBA	34,596
BORIC ACID	34,517

In 2022 MDA received reports of 141,423,779 total pounds of a.i. sold in all pesticide products. This includes 34,738,204 pounds of formulating products. Formulating products are excluded from the total because they are used to make other products. Thus, formulating products would be double counted with other product type categories. There were 106,685,575 total pounds of a.i. (agricultural and non-agricultural) sold in 2022. Excluding formulating a.i. non-agricultural pesticides, a.i. accounted for 49,097,358 pounds or 46% of the total.

- Trends of non-agricultural pesticide pounds of a.i. over time can be developed by data from the searchable database found on MDA's website at:
https://www2.mda.state.mn.us/webapp/lis/chemsold_default.jsp.
- Charts and graphs detailing pesticide sales by percent of product within each product type 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 651-261-1993.
- Report generated on 1/9/2026