

## Non-Agricultural Pesticide Sales 2021

### Introduction

The Minnesota Department of Agriculture (MDA) is responsible for monitoring urban (non-agricultural) and rural (agricultural) pesticide<sup>i</sup> use in Minnesota. 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.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. Since a product can only be assigned one category, and many products can be used across categories, the amount of pesticide sold by category does not reflect the actual use patterns of pesticides in Minnesota. This fact sheet details the non-agricultural pesticide products sold<sup>ii</sup> in 2021. Accordingly, crop chemicals and formulating<sup>iii</sup> 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](http://www.mda.state.mn.us/pesticide-fertilizer/pesticide-use-sales-data)

**For Additional Information:** Denton Bruening

Phone 651-201-6399 • [denton.bruening@state.mn.us](mailto:denton.bruening@state.mn.us) • 625 Robert Street North, Saint Paul, MN 55155-2538

## 2021 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 8/22/2022<sup>iv</sup>.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	TOTAL POUNDS SOLD IN 2021
Animal Care	27,194
Disinfectants and Sanitizers	38,643,006
Garden and Lawn	245,218
Home	126,450
Industrial, Right-of-Way, and Forestry	449,263
Miscellaneous	1,944,698
Pool, Spa, and Hot Tub	813,584
Structural	210,242
Turf and Ornamental	687,533
Vertebrate Control	3,151
Wood Preservatives	4,625,001
<b>Total Non-Agricultural Pounds Sold</b>	<b>47,775,340</b>

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2021.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2021
CHLORINE	21,420,515
SODIUM HYPOCHLORITE	11,503,411
ZINC BORATE	2,812,547
HYDROGEN PEROXIDE	1,196,452
CALCIUM HYPOCHLORITE	987,166
PENTACHLOROPHENOL	946,000
TRICHLORO-S-TRIAZINETRIONE	938,341
COPPER CARBONATE, BASIC	521,506
2,4-D	503,184
ETHYL ALCOHOL	475,779
ISOPROPYL ALCOHOL	473,009
SODIUM CHLORATE	306,365

<b>NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)</b>	<b>TOTAL POUNDS SOLD IN 2021</b>
SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE	257,956
PEROXYACETIC ACID	255,016
UREA	230,901
HYDROGEN CHLORIDE	221,403
COPPER OXIDE (OUS)	213,842
AMMONIUM SULFATE	205,927
ETHANOL	201,929
SODIUM BROMIDE	201,461
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	198,966
GLUTARALDEHYDE	159,117
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	151,832
SODIUM DICHLORO-S-TRIAZINETRIONE	146,238
ETHYLENE OXIDE	134,220
GLYPHOSATE	129,591
PHOSPHORIC ACID	124,190
AMMONIUM BROMIDE	123,591
ALKYL (67%C12, 25%C14, 7%C16, 1%C8,C10,C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	116,904
AMMONIUM CARBAMATE	113,035
BROMOCHLORO-5,5-DIMETHYLHYDANTOIN	99,397
CHROMIC ACID	95,657
COPPER ETHANOLAMINE COMPLEXES, MIXED	94,616
CHLOROTHALONIL	81,702
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	79,704
DIDECYL DIMETHYL AMMONIUM CHLORIDE	72,967
SODIUM CHLORITE	69,117
MCPP-P	68,628
ARSENIC PENTOXIDE	63,985
FORMALDEHYDE	63,138
SODIUM P-CHLORO-M-CRESOLATE	60,067

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2021
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	55,079
DIDECYL DIMETHYL AMMONIUM BICARBONATE	51,239
POLY(OXYETHYLENE) (DIMETHYLIMINO) ETHYLENE (DIMETHYLIMINO) ETHYLENE DICHLORIDE	47,267
NONANOIC ACID	47,172
2,2-DIBROMO-3-NITRILOPROPIONAMIDE	46,863
ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	46,125
TRICLOPYR	42,981
1,3-DICHLORO-5,5-DIMETHYLHYDANTOIN	40,274
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	38,889

In 2021 MDA received reports of 115,336,100 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 41% 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.
- Report generated on 10/01/2022

<sup>i</sup> 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.

<sup>ii</sup> Registrants reporting sales may include products that are distributed or offered for sale in Minnesota as well as actually sold in 2021. Registrants may not know exactly how much of their product was accurately sold at the retail level compared to being available for sale.

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

<sup>iv</sup> Data is subject to change based on corrections made to the data or additions from non-reported products.