

## Non-Agricultural Pesticide Sales 2019

### 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 2019. 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

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## 2019 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 2019
Animal Care	45,622
Disinfectants and Sanitizers	31,522,053
Garden and Lawn	199,413
Home	97,276
Industrial, Right-of-Way, and Forestry	302,290
Miscellaneous	2,458,182
Pool, Spa, and Hot Tub	510,365
Structural	165,806
Turf and Ornamental	810,886
Vertebrate Control	16,307
Wood Preservatives	4,342,434
<b>Total Non-Agricultural Pounds Sold</b>	<b>40,470,640</b>

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2019.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2019
CHLORINE	13,980,705
SODIUM HYPOCHLORITE	13,642,795
ZINC BORATE	2,548,544
PENTACHLOROPHENOL	870,692
TRICHLORO-S-TRIAZINETRIONE	675,775
CALCIUM HYPOCHLORITE	658,429
GLUTARALDEHYDE	629,588
HYDROGEN PEROXIDE	456,103
2,4-D	417,863
COPPER CARBONATE, BASIC	381,668
SODIUM CHLORATE	297,701

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2019
SODIUM DICHLORO-S-TRIAZINETRIONE	246,208
MINERAL OIL	239,123
SODIUM BROMIDE	232,427
UREA	225,165
FORMALDEHYDE	195,428
COPPER OXIDE (OUS)	177,156
AMMONIUM SULFATE	177,080
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	176,986
SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE	172,164
ETHYLENE OXIDE	169,838
ETHYL ALCOHOL	163,287
GLYPHOSATE	162,391
CHROMIC ACID	155,359
SODIUM CHLORITE	153,912
AMMONIUM BROMIDE	139,395
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	139,125
PEROXYACETIC ACID	128,235
HYDROGEN CHLORIDE	123,425
AMMONIUM CARBAMATE	111,696
ARSENIC PENTOXIDE	107,188
PHOSPHORIC ACID	97,142
COPPER SULFATE	93,414
ALKYL (67%C12, 25%C14, 7%C16, 1%C8,C10,C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	92,559
POTASSIUM DIMETHYL DITHIO CARBAMATE	91,750
ISOPROPYL ALCOHOL	91,451
ETHANOL	88,318
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	83,293
BORIC ACID	81,049
CHLOROTHALONIL	78,415

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2019
DIDECYL DIMETHYL AMMONIUM CHLORIDE	72,287
COPPER ETHANOLAMINE COMPLEXES, MIXED	72,118
MCPP-P	58,481
BROMOCHLORO-5,5-DIMETHYLHYDANTOIN	48,679
ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	44,186
HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S-TRIAZINE	41,977
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	41,854
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	41,429
TRICLOPYR	40,582
MCPA	39,594

In 2019 MDA received reports of 113,208,123 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 36% 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 2019. 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.