

Non-Agricultural Pesticide Sales 2018

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.) 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 soldⁱⁱ in 2018. 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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2018 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^{iv}.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	TOTAL POUNDS SOLD IN 2018
Animal Care	35,619
Disinfectants and Sanitizers	29,933,492
Garden and Lawn	212,654
Home	143,714
Industrial, Right-of-Way, and Forestry	478,734
Miscellaneous	1,998,297
Pool, Spa, and Hot Tub	1,044,766
Structural	281,219
Turf and Ornamental	637,857
Vertebrate Control	18,262
Wood Preservatives	4,546,114
Total Non-Agricultural Pounds Sold	39,330,728

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2018.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2018
CHLORINE	14,901,713
SODIUM HYPOCHLORITE	8,945,084
ZINC BORATE	2,760,188
TRICHLORO-S-TRIAZINETRIONE	1,163,074
ISOPROPYL ALCOHOL	1,102,386
HYDROGEN PEROXIDE	969,369
CALCIUM HYPOCHLORITE	838,763
PENTACHLOROPHENOL	831,433
COPPER CARBONATE, BASIC	509,848

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2018
2,4-D	504,566
SODIUM DICHLORO-S-TRIAZINETRIONE	373,833
GLYPHOSATE	323,474
ETHYL ALCOHOL	289,996
COPPER OXIDE (OUS)	287,806
GLUTARALDEHYDE	276,949
SODIUM BROMIDE	271,805
PEROXYACETIC ACID	266,397
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	228,196
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	221,451
SODIUM CHLORATE	219,866
SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE	213,096
HYDROGEN CHLORIDE	206,910
UREA	202,725
SODIUM CHLORITE	184,006
AMMONIUM BROMIDE	179,910
AMMONIUM SULFATE	148,439
ETHYLENE OXIDE	136,303
PHOSPHORIC ACID	107,360
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	94,751
BORIC ACID	94,383
ALKYL (67%C12, 25%C14, 7%C16, 1%C8,C10,C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	92,264
COPPER ETHANOLAMINE COMPLEXES, MIXED	86,786
DIDECYL DIMETHYL AMMONIUM CHLORIDE	83,998
ETHANOL	82,548
CHLOROTHALONIL	81,593
CHROMIC ACID	81,406

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2018
TRICLOPYR	71,760
AMMONIUM CARBAMATE	69,770
MCPP-P	68,455
DIDECYL DIMETHYL AMMONIUM BICARBONATE	66,880
SODIUM P-CHLORO-M-CRESOLATE	65,652
NONANOIC ACID	64,662
DISODIUM OCTABORATE TETRAHYDRATE	58,269
ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	57,786
ARSENIC PENTOXIDE	55,366
POLY(OXYETHYLENE) (DIMETHYLIMINO) ETHYLENE (DIMETHYLIMINO) ETHYLENE DICHLORIDE	49,316
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	43,828
ALKYL (68%C12, 32%C14) DIMETHYLETHYLBENZYL AMMONIUM CHLORIDE	41,326
DICAMBA	38,803
COPPER SULFATE	38,080

In 2018 MDA received reports of 120,021,187 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 33% 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

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 2018. 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.