

Non-Agricultural Pesticide Sales 2020

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 2020. 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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2020 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 2020
Animal Care	49,243
Disinfectants and Sanitizers	39,021,090
Garden and Lawn	163,159
Home	112,517
Industrial, Right-of-Way, and Forestry	361,686
Miscellaneous	1,835,983
Pool, Spa, and Hot Tub	681,268
Structural	125,495
Turf and Ornamental	645,770
Vertebrate Control	33,765
Wood Preservatives	6,008,952
Total Non-Agricultural Pounds Sold	49,038,928

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2020.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2020
CHLORINE	21,418,707
SODIUM HYPOCHLORITE	11,499,591
ZINC BORATE	2,670,047
PENTACHLOROPHENOL	2,308,313
ISOPROPYL ALCOHOL	1,000,004
TRICHLORO-S-TRIAZINETRIONE	970,609
CALCIUM HYPOCHLORITE	627,783
HYDROGEN PEROXIDE	622,732
COPPER CARBONATE, BASIC	594,558
ETHYL ALCOHOL	548,339
SODIUM DICHLORO-S-TRIAZINETRIONE	463,070
2,4-D	423,234

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2020
ETHANOL	315,315
SODIUM BROMIDE	302,112
SODIUM CHLORATE	262,138
UREA	217,897
SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE	207,715
AMMONIUM SULFATE	196,643
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	195,864
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	172,914
GLUTARALDEHYDE	172,072
COPPER OXIDE (OUS)	142,515
PEROXYACETIC ACID	139,645
ETHYLENE OXIDE	128,142
AMMONIUM CARBAMATE	114,516
HYDROGEN CHLORIDE	113,443
PHOSPHORIC ACID	113,159
GLYPHOSATE	108,525
ALKYL (67%C12, 25%C14, 7%C16, 1%C8,C10,C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	106,564
COPPER SULFATE	103,936
AMMONIUM BROMIDE	103,252
CHROMIC ACID	102,527
FORMALDEHYDE	94,887
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	92,120
DIDECYL DIMETHYL AMMONIUM CHLORIDE	91,554
DIDECYL DIMETHYL AMMONIUM BICARBONATE	86,987
SODIUM CHLORITE	83,081
BORIC ACID	81,248
CHLOROTHALONIL	73,180
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	71,885
ARSENIC PENTOXIDE	68,580

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2020
COPPER ETHANOLAMINE COMPLEXES, MIXED	67,420
HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S-TRIAZINE	67,190
SODIUM P-CHLORO-M-CRESOLATE	66,386
MCPP-P	61,565
CITRIC ACID	57,742
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	57,159
ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	54,115
BROMOCHLORO-5,5-DIMETHYLHYDANTOIN	53,308
ENDOTHALL	52,677

In 2020 MDA received reports of 114,334,957 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 43% 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 2020. 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.