

Non-Agricultural Pesticide Sales 2008

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.) 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. This factsheet details the non-agricultural pesticide products soldⁱⁱ in 2008. 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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2008 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 4/30/2019^{iv}.

NON-AGRICULTURAL PESTICIDE PRODUCT TYPE	TOTAL POUNDS SOLD IN 2008
Animal Care	37,629
Disinfectants and Sanitizers	22,557,608
Garden and Lawn	434,091
Home	70,918
Industrial, Right-of-Way, and Forestry	1,006,666
Miscellaneous	3,150,630
Pool, Spa, and Hot Tub	1,203,558
Structural	95,192
Turf and Ornamental	780,933
Vertebrate Control	7,994
Wood Preservatives	3,680,479
Total Non-Agricultural Pounds Sold	33,025,698

The following table details the total pounds of a.i. sold of the top 50 pesticide a.i. sold in 2008.

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2008
CHLORINE	9,845,861
SODIUM HYPOCHLORITE	7,230,170
ZINC BORATE	2,124,656
SODIUM DICHLORO-S-TRIAZINETRIONE	1,892,561
PENTACHLOROPHENOL	1,017,126
CALCIUM HYPOCHLORITE	905,970
TRICHLORO-S-TRIAZINETRIONE	859,827
DIURON	646,003
COPPER OXIDE (OUS)	638,886
COPPER SULFATE	534,172
2,4-D	464,126
AMMONIUM BROMIDE	436,115

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2008
HYDROGEN PEROXIDE	412,417
GLYPHOSATE	410,060
SODIUM BROMIDE	359,089
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	322,561
HYDROGEN CHLORIDE	290,560
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	229,079
ISOPROPYL ALCOHOL	204,414
GLUTARALDEHYDE	199,253
SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE	186,036
ETHYLENE OXIDE	173,513
ETHYL ALCOHOL	167,409
SODIUM CHLORITE	160,916
ALKYL (60%C14, 30%C16, 5%C12, 5%C18) DIMETHYLBENZYL AMMONIUM CHLORIDE	160,802
MCPA	129,450
PHOSPHORIC ACID	128,620
PEROXYACETIC ACID	115,513
CHLOROTHALONIL	114,158
MCPP-P	111,040
POTASSIUM DIMETHYL DITHIO CARBAMATE	106,513
ALKYL (68%C12, 32%C14) DIMETHYLETHYLBENZYL AMMONIUM CHLORIDE	96,614
CHROMIC ACID	85,866
DAZOMET	83,770
1,4-BIS (BROMOACETOXY)-2-BUTENE	80,040
BORIC ACID	76,575
PINE OIL	76,490
DIDECYL DIMETHYL AMMONIUM CHLORIDE	67,378
TRICLOPYR	65,839
COPPER CARBONATE, BASIC	63,336
DIDECYL DIMETHYL AMMONIUM BICARBONATE	63,230
ARSENIC PENTOXIDE	58,639

NON-AGRICULTURAL PESTICIDE ACTIVE INGREDIENT (a.i.)	TOTAL POUNDS SOLD IN 2008
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	56,651
TCMTB	56,323
ENDOTHALL	52,407
CITRIC ACID	44,371
NONANOIC ACID	42,230
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	39,261
METHYL BROMIDE	35,849
PERMETHRIN	35,609

In 2008 MDA received reports of 102,119,893 total pounds of a.i. sold (agricultural and non-agricultural combined) and non-agricultural pesticide a.i. accounted for 32% 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.

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 2008. 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.