

# The Top 100 Chemicals by Acres Treated in Total Statewide Pesticide Use in 2023

[Text files](#) of data are available. The ranking of chemicals is determined by total cumulative acres treated. Acres treated totals are cumulative, meaning that if a one-acre field was treated three times in a year, the cumulative acres treated would equal three acres. Cumulative acres treated totals include pesticide use reports (PURs) with unit treated equal to acres (A) or square feet (S), the latter of which was converted to acres. PURs with volume (cubic feet, etc.), weight (tons, lbs, etc.), or miscellaneous units (bins, holes, etc.) are not included in the acres treated totals. Most nonagricultural PURs are not required to report acres treated, so the acres treated totals are predominantly agricultural pesticide uses. Application counts (Apps) include only agricultural pesticide uses. A zero value under Acres Treated or Apps indicates that the pounds applied were nonagricultural uses. Chemicals in adjuvant products are excluded from this table. Values are rounded. For more information, see Pesticide Use Annual Report Data Access, References, and Definitions [Guide](#).

Chemical	Rank	Pounds Applied	Apps	Acres Treated
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)	1	1,894,675	190,277	8,435,572
Dimethylpolysiloxane	2	198,281	132,365	5,175,836
Methylated soybean oil	3	2,485,559	130,189	4,802,498
Sulfur	4	39,751,726	121,285	4,755,654
Mineral oil	5	28,153,285	140,333	4,670,285
Lecithin	6	780,757	85,943	3,098,378
Lambda-cyhalothrin	7	126,803	76,128	2,846,462
Tall oil fatty acids	8	365,451	61,114	2,796,669
Alpha-undecyl-omega-hydroxypoly(oxyethylene)	9	589,189	79,483	2,695,906
Ammonium sulfate	10	1,100,100	71,756	2,610,990
Glyphosate, potassium salt	11	5,107,766	71,435	2,529,886
Citric acid	12	192,691	68,249	2,370,487
Glyphosate, isopropylamine salt	13	5,287,561	78,053	2,223,069
Chlorantraniliprole	14	170,364	45,940	2,216,082
N,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids	15	157,031	67,689	2,214,080
Glufosinate-ammonium	16	2,010,747	72,675	2,069,518
Abamectin	17	36,401	61,658	2,065,853
Methoxyfenozide	18	594,707	36,489	1,972,902
Oxyfluorfen	19	787,142	59,423	1,921,519
Alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)	20	241,919	53,735	1,842,849
Phosphoric acid	21	118,370	57,501	1,671,866
Azoxystrobin	22	320,528	38,016	1,601,606

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acres Treated</b>
Bifenthrin	23	333,491	31,779	1,587,154
Alcohols, c12-14-secondary, ethoxylated	24	163,126	37,188	1,538,539
Diethylene glycol	25	222,219	24,521	1,459,875
Polyalkeneoxide modified heptamethyltrisiloxane	26	78,880	39,874	1,353,258
Polyacrylamide	27	9,642	24,834	1,256,566
Clethodim	28	198,241	30,120	1,200,602
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester	29	131,440	27,080	1,153,096
Propionic acid	30	195,083	36,244	1,148,063
Pendimethalin	31	2,266,480	28,802	1,110,699
Difenoconazole	32	104,732	21,233	1,012,180
Pyraclostrobin	33	129,843	33,759	1,009,927
Propylene glycol	34	86,918	39,326	996,912
4-nonylphenol, formaldehyde resin, propoxylated	35	115,858	33,331	975,492
Imidacloprid	36	289,262	42,805	974,321
Spinetoram	37	62,328	51,688	951,767
Spirotetramat	38	98,101	51,896	913,493
Isopropyl alcohol	39	39,852	28,920	912,440
Rimsulfuron	40	41,315	29,585	877,055
Fatty acids, mixed	41	7,447	22,726	876,912
Polyethylene glycol	42	134,404	20,346	863,059
Saflufenacil	43	34,286	21,697	860,522
Copper hydroxide	44	1,525,241	28,681	849,710
Oleic acid, methyl ester	45	730,945	17,494	804,181
Alpha-pinene-beta-pinene copolymer	46	203,493	28,231	791,719
Polybutene	47	65,698	28,761	788,830
Carfentrazone-ethyl	48	17,683	20,876	777,113
Heptamethyltrisiloxane ethoxylated	49	69,740	15,713	773,900
Methylated silicones	50	94,172	34,405	772,063
Fluopyram	51	73,904	22,714	765,200
Fatty acids, c16-c18 and c18-unsaturated, methyl esters	52	299,506	27,863	752,681
Pyraflufen-ethyl	53	2,588	17,881	721,229
Heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated	54	76,257	22,090	694,010
Alpha-alkyl(c9-c16)-omega-hydroxypoly(oxyethylene)	55	142,489	15,099	692,588

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acres Treated</b>
Polyoxyethylene polyoxypropylene	56	119,132	22,883	684,165
Propiconazole	57	109,867	18,103	645,878
Alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate	58	55,289	18,092	644,177
Tebuconazole	59	118,033	15,837	636,285
Methyl silicone resins	60	127,568	20,516	635,739
Chlorothalonil	61	1,194,970	16,009	607,588
Indaziflam	62	39,991	23,859	607,513
Alkyl (c8,c10) polyglucoside	63	94,476	23,098	591,402
Etoxazole	64	75,831	12,612	590,370
Cyprodinil	65	152,156	18,757	584,026
Oleic acid	66	58,772	18,275	570,796
Fluxapyroxad	67	57,730	12,871	570,239
Ammonium nitrate	68	60,034	20,357	557,828
Castor oil ethoxylate	69	42,426	15,129	548,637
Propanil	70	2,489,585	7,124	547,178
Trifloxystrobin	71	57,647	17,951	546,095
Benzoic acid	72	4,243	19,831	544,803
Dimethyl alkyl tertiary amines	73	4,630	19,831	544,803
Urea dihydrogen sulfate	74	174,445	15,324	534,952
Glycerol	75	106,515	15,965	534,876
Alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)	76	10,797	20,373	513,379
Oleic acid, ethyl ester	77	219,383	26,720	504,114
Polyethylene glycol stearate	78	54,041	26,716	503,810
Flupyradifurone	79	72,902	21,137	493,268
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate	80	105,626	22,981	489,062
Potassium phosphite	81	1,305,483	21,183	485,579
Acetamiprid	82	57,792	19,046	483,517
Permethrin	83	211,254	34,456	472,570
Modified phthalic glycerol alkyd resin	84	96,737	15,134	470,894
Penthiopyrad	85	113,665	14,195	468,680
Ammonium propionate	86	72,303	14,665	466,777
Thiamethoxam	87	57,825	22,368	462,777
Tall oil	88	36,407	11,370	452,438
Flumioxazin	89	105,434	15,817	442,088

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acres Treated</b>
Mancozeb	90	773,398	25,073	436,425
Flonicamid	91	40,178	16,647	433,156
Gibberellins	92	15,734	15,641	425,563
Butyl alcohol	93	26,758	8,120	409,399
Boscalid	94	110,353	21,172	404,196
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxy ethylene), branched	95	130,726	11,030	402,160
Esfenvalerate	96	59,785	13,105	396,083
Ethephon	97	344,664	8,880	394,844
Mefentrifluconazole	98	48,425	7,180	382,549
Sodium polyacrylate	99	1,855	9,827	381,967
Emulsifiable methylated vegetable oil	100	198,236	22,850	381,033