

The Top 100 Chemicals by Acres Treated in Total Statewide Pesticide Use in 2022

Text files of data are available at <<https://files.cdpr.ca.gov/pub/outgoing/pur/data/>>. 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. Chemical names that end with an " * " are adjuvants. Application counts (Apps) include only agricultural pesticide uses. A zero under Apps or Acre Treated therefore means that the pounds applied were nonagricultural uses. See Pesticide Use Annual Report Data Access, References, and Definitions Guide for more information.

Chemical	Rank	Pounds Applied	Apps	Acre Treated
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1	1,738,683	191,273	7,864,604
Dimethylpolysiloxane*	2	183,125	130,759	4,633,143
Sulfur	3	38,982,187	118,329	4,587,375
Mineral oil	4	34,390,365	144,554	4,529,760
Methylated soybean oil*	5	2,392,443	125,592	4,120,044
Lecithin*	6	736,337	82,311	2,767,161
Lambda-cyhalothrin	7	108,017	67,896	2,394,279
Alpha-undecyl-omega-hydroxypoly(oxyethylene)*	8	461,807	70,854	2,302,234
Citric acid	9	212,843	65,631	2,284,031
Ammonium sulfate	10	965,947	66,913	2,241,803
Glyphosate, potassium salt	11	4,399,453	67,019	2,236,401
Glyphosate, isopropylamine salt	12	5,141,183	75,976	2,200,148
Abamectin	13	42,140	62,971	2,176,168
Chlorantraniliprole	14	170,760	44,156	2,140,108
N,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	15	142,567	62,870	2,041,541
Oxyfluorfen	16	806,714	58,356	1,863,502
Methoxyfenozide	17	541,449	34,614	1,842,633

Chemical	Rank	Pounds Applied	Apps	Acre Treated
Glufosinate-ammonium	18	1,781,692	63,983	1,799,657
Fatty acids, mixed*	19	153,791	36,819	1,734,898
Tall oil fatty acids*	20	150,008	44,821	1,623,607
Phosphoric acid	21	177,458	54,202	1,597,775
Alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	22	212,429	46,021	1,512,249
Bifenthrin	23	304,990	30,841	1,357,673
Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	24	152,167	33,189	1,224,505
Diethylene glycol*	25	174,626	22,899	1,200,673
Clethodim	26	182,855	28,712	1,142,468
Propionic acid	27	186,099	38,155	1,119,156
Azoxystrobin	28	220,352	28,897	1,118,743
Polyacrylamide polymer*	29	10,150	22,690	1,099,218
Saflufenacil	30	41,071	26,731	1,044,936
Pendimethalin	31	2,184,221	26,887	1,036,278
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	32	149,102	26,499	1,033,007
Spinetoram	33	66,451	57,388	1,021,717
Copper hydroxide	34	2,100,733	32,393	992,379
Propylene glycol	35	84,745	40,169	989,513
Imidacloprid	36	318,996	44,444	980,062
Polyalkene oxide modified heptamethyl trisiloxane*	37	35,535	31,431	976,222
4-nonylphenol, formaldehyde resin, propoxylated*	38	103,692	31,964	910,751
Spirotetramat	39	98,064	50,884	910,391
Pyraclostrobin	40	107,901	28,603	863,344
Rimsulfuron	41	40,406	27,029	841,255
Isopropyl alcohol	42	38,206	28,667	824,582
Oleic acid, methyl ester*	43	795,687	17,339	818,239
Polyethylene glycol*	44	133,011	19,806	806,057
Pyraflufen-ethyl	45	2,833	18,625	770,234
Polyoxyethylene polyoxypropylene*	46	139,887	26,797	769,795
Polybutenes	47	63,507	28,495	762,124
Polyether modified polysiloxane*	48	90,616	32,739	754,863
Fatty acids, c16-c18 and c18-unsaturated, methyl esters*	49	293,559	27,726	748,205
Alpha-pinene beta-pinene copolymer*	50	207,248	26,509	738,866
Fluopyram	51	69,791	21,532	723,000
Alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)*	52	152,688	14,780	695,284

Chemical	Rank	Pounds Applied	Apps	Acre Treated
Methyl silicone resins*	53	222,518	24,564	675,120
Indaziflam	54	39,235	24,650	664,744
Tebuconazole	55	111,325	15,360	625,590
Difenoconazole	56	67,923	13,561	601,921
Alkyl (c8,c10) polyglucoside*	57	102,426	22,823	601,243
Oleic acid*	58	55,888	18,996	576,694
Alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate*	59	39,944	14,674	575,640
Heptamethyltrisiloxane ethoxylated*	60	60,826	12,496	571,140
Carfentrazone-ethyl	61	12,237	18,640	568,185
Heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated*	62	81,049	22,405	566,871
Acetamiprid	63	61,849	22,730	561,174
Mancozeb	64	996,511	28,621	555,198
Modified phthalic glycerol alkyd resin*	65	169,194	15,460	549,308
Ammonium nitrate*	66	64,287	19,516	538,073
Glycerol*	67	114,311	15,177	532,467
Urea dihydrogen sulfate	68	229,421	12,526	515,972
Fluxapyroxad	69	51,548	11,102	511,647
Etoazole	70	63,900	11,321	505,975
Trifloxystrobin	71	53,126	17,376	493,955
Thiamethoxam	72	57,961	23,099	492,488
Oleic acid, ethyl ester*	73	233,584	27,045	490,973
Polyethylene glycol stearate*	74	55,731	27,006	487,858
Esfenvalerate	75	36,762	15,344	484,094
Bifenazate	76	303,869	12,661	481,744
Tall oil*	77	41,400	11,987	479,786
Dimethyl alkyl tertiary amines*	78	3,949	20,214	477,820
Benzoic acid*	79	3,619	20,214	477,820
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	80	107,436	22,461	473,431
Gibberellins	81	17,359	16,245	466,836
Flupyradifurone	82	67,254	18,902	460,758
Permethrin	83	172,726	36,521	458,938
Alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)*	84	20,348	19,104	450,641
Ammonium propionate*	85	83,226	15,213	447,676
Propiconazole	86	92,296	16,238	437,973
Cyflumetofen	87	77,465	9,364	426,462
Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched*	88	160,293	11,862	424,186
Potassium phosphite	89	1,177,730	21,939	419,155

Chemical	Rank	Pounds Applied	Apps	Acre Treated
Poly(oxyethylene) poly(oxypropylene) glycol monoallyl ether*	90	42,496	13,240	417,430
Flumioxazin	91	107,299	13,994	404,208
Hexythiazox	92	69,769	9,089	400,429
Penthiopyrad	93	99,286	12,425	394,971
Cyprodinil	94	114,062	14,249	390,043
Methomyl	95	251,949	26,971	384,233
Ethephon	96	333,362	8,628	381,928
Cyantraniliprole	97	57,708	26,656	381,701
Alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)*	98	70,320	13,549	381,013
Pyriproxyfen	99	22,830	9,330	379,563
Sodium polyacrylate*	100	2,335	9,774	376,981