

# The Top 100 Chemicals by Acres Treated in Total Statewide Pesticide Use in 2018

[Text files](https://files.cdpr.ca.gov/pub/outgoing/pur/data/) 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 value in Acre Treated or Apps indicates all applications 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	2,529,936	250,118	10,374,177
sulfur	2	48,571,279	157,172	5,659,439
dimethylpolysiloxane*	3	254,731	143,700	5,581,795
methylated soybean oil*	4	2,177,919	120,782	4,509,004
mineral oil	5	29,611,582	105,540	3,367,201
glyphosate, potassium salt	6	6,109,802	87,939	3,218,657
lecithin*	7	728,946	76,319	2,795,838
abamectin	8	52,990	73,595	2,717,337
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	9	445,576	76,183	2,550,869
ammonium sulfate	10	980,294	66,343	2,510,108
lambda-cyhalothrin	11	95,361	70,605	2,486,885
glyphosate, isopropylamine salt	12	5,766,081	81,008	2,378,762

Chemical	Rank	Pounds Applied	Apps	Acre Treated
n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	13	170,895	67,341	2,375,716
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	14	269,983	77,447	2,226,656
methoxyfenozide	15	614,165	42,367	2,214,653
phosphoric acid	16	264,882	64,503	2,210,806
chlorantraniliprole	17	195,286	51,223	2,203,118
citric acid	18	152,231	52,146	2,186,430
fatty acids, mixed*	19	140,120	47,148	2,176,463
oxyfluorfen	20	852,992	62,878	2,079,597
bifenthrin	21	330,518	32,586	1,705,194
glufosinate-ammonium	22	1,595,020	56,657	1,697,284
diethylene glycol*	23	230,690	31,211	1,632,077
tall oil fatty acids*	24	147,480	41,485	1,610,361
4-nonylphenol, formaldehyde resin, propoxylated*	25	177,908	47,094	1,574,059
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	26	232,443	39,927	1,472,015
imidacloprid	27	466,269	60,754	1,467,169
polyalkene oxide modified heptamethyl trisiloxane*	28	69,835	36,904	1,362,377
azoxystrobin	29	246,479	33,434	1,318,694
propionic acid	30	190,707	37,018	1,300,375
copper hydroxide	31	2,346,020	39,578	1,290,680
spinetoram	32	82,001	61,273	1,268,959
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	33	502,437	39,968	1,247,958
paraquat dichloride	34	1,301,935	28,084	1,240,012
polybutenes	35	95,865	37,462	1,210,970

Chemical	Rank	Pounds Applied	Apps	Acre Treated
polyacrylamide polymer*	36	11,217	21,460	1,195,296
fluopyram	37	112,852	28,798	1,172,149
propylene glycol	38	107,437	36,475	1,171,518
isopropyl alcohol	39	55,713	45,803	1,092,822
pendimethalin	40	2,244,649	27,980	1,077,303
pyraclostrobin	41	136,596	37,449	1,069,297
spirotetramat	42	109,711	56,268	1,012,153
butyl alcohol*	43	77,331	18,598	931,904
trifloxystrobin	44	89,571	23,797	899,181
saflufenacil	45	33,616	19,709	829,033
propiconazole	46	168,546	23,466	808,975
polyethylene glycol*	47	141,828	20,971	784,481
tebuconazole	48	106,817	19,732	765,719
polyether modified polysiloxane*	49	71,297	36,190	752,953
ammonium nitrate*	50	78,171	26,079	742,539
pyraflufen-ethyl	51	2,552	16,273	721,345
mancozeb	52	1,315,141	33,787	715,654
(s)-cypermethrin	53	32,476	30,762	697,304
dimethyl alkyl tertiary amines*	54	6,330	21,446	690,761
benzoic acid*	55	5,800	21,446	690,761
cyprodinil	56	176,936	21,617	676,628
rimsulfuron	57	32,303	23,126	676,235
difenoconazole	58	59,130	15,958	675,950
esfenvalerate	59	44,283	18,371	672,439
modified phthalic glycerol alkyd resin*	60	176,767	17,384	633,532
ammonium propionate*	61	106,669	16,272	633,045
oleic acid, ethyl ester*	62	249,648	27,327	630,381
indaziflam	63	39,888	24,539	630,368

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acre Treated</b>
polyethylene glycol stearate*	64	60,931	27,319	629,920
alkyl (c8,c10) polyglucoside*	65	110,254	17,044	629,492
alpha-pinene beta-pinene copolymer*	66	191,177	23,151	600,635
hydrotreated paraffinic solvent	67	363,825	14,439	599,730
acetamiprid	68	63,542	21,498	599,439
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	69	124,157	33,363	593,062
etoxazole	70	69,101	11,783	591,183
vegetable oil*	71	824,829	4,991	584,304
oleic acid, methyl ester*	72	520,203	14,281	583,911
tall oil*	73	53,064	23,486	583,461
thiamethoxam	74	61,506	29,301	575,983
alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate*	75	35,942	12,504	572,010
flonicamid	76	49,079	15,146	569,735
sodium polyacrylate*	77	5,886	13,144	564,425
urea dihydrogen sulfate	78	378,206	10,900	564,181
boscalid	79	141,437	24,819	557,952
petroleum oil, unclassified	80	7,734,445	11,802	555,113
carfentrazone-ethyl	81	12,967	14,926	550,399
polyoxyethylene polyoxypropylene*	82	95,720	16,575	549,961
chlorothalonil	83	1,171,126	16,026	548,568
quinoxifen	84	49,807	19,313	526,102
oleic acid*	85	58,605	17,596	513,096
gibberellins	86	28,619	16,493	505,422
permethrin	87	130,433	35,114	499,836
ethephon	88	433,459	10,366	495,261
hexythiazox	89	85,209	11,032	492,646

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acre Treated</b>
<b>flupyradifurone</b>	90	66,291	21,812	483,880
<b>fluxapyroxad</b>	91	48,918	10,902	468,592
<b>pyriproxyfen</b>	92	26,946	10,040	454,368
<b>clethodim</b>	93	89,623	9,313	449,810
<b>indoxacarb</b>	94	38,004	14,408	449,270
<b>petroleum oil, paraffin based</b>	95	589,747	10,643	442,144
<b>dimethoate</b>	96	164,880	8,404	436,002
<b>alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)*</b>	97	19,799	17,363	432,875
<b>chlorpyrifos</b>	98	601,173	6,827	431,218
<b>bifenazate</b>	99	262,543	11,731	428,178
<b>myclobutanil</b>	100	49,186	17,189	420,638