

The Top 100 Pesticides by Acres Treated in Total Statewide Pesticide Use in 2019

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 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	2,361,689	249,743	10,453,946
dimethylpolysiloxane*	2	227,667	153,628	5,823,744
sulfur	3	49,038,554	170,396	5,734,234
methylated soybean oil*	4	2,480,147	124,015	4,684,665
mineral oil	5	30,165,318	112,948	3,497,565
glyphosate, potassium salt	6	6,068,783	87,891	3,359,076
lecithin*	7	752,275	76,942	3,111,764
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	8	524,543	78,608	2,778,250
abamectin	9	51,277	69,659	2,621,006
lambda-cyhalothrin	10	96,149	73,508	2,597,131
ammonium sulfate	11	883,187	71,096	2,579,049
n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	12	178,680	67,748	2,531,659
fatty acids, mixed*	13	185,639	49,104	2,528,066
chlorantraniliprole	14	188,791	55,221	2,454,493
glyphosate, isopropylamine salt	15	6,306,993	82,192	2,404,583
citric acid	16	165,577	55,387	2,344,169
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	17	241,148	79,924	2,064,570
phosphoric acid	18	161,745	65,023	2,060,726

Chemical	Rank	Pounds Applied	Apps	Acre Treated
oxyfluorfen	19	878,203	62,047	2,058,201
tall oil fatty acids*	20	186,469	47,491	1,946,234
glufosinate-ammonium	21	1,975,045	64,103	1,936,502
methoxyfenozide	22	512,946	36,449	1,785,258
diethylene glycol*	23	242,118	32,551	1,704,187
bifenthrin	24	312,115	33,376	1,673,562
azoxystrobin	25	287,449	37,019	1,519,776
propionic acid	26	207,886	37,241	1,518,206
4-nonylphenol, formaldehyde resin, propoxylated*	27	166,817	46,823	1,506,281
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	28	238,842	37,154	1,495,990
copper hydroxide	29	2,780,178	42,896	1,451,342
polyacrylamide polymer*	30	10,837	24,125	1,409,112
imidacloprid	31	523,770	55,584	1,372,843
fluopyram	32	126,848	33,764	1,304,338
propylene glycol	33	122,111	40,675	1,274,555
polyalkene oxide modified heptamethyl trisiloxane*	34	53,456	36,333	1,243,618
paraquat dichloride	35	1,340,825	24,630	1,237,110
polybutenes	36	97,291	38,257	1,225,928
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	37	488,423	39,505	1,222,718
isopropyl alcohol	38	56,944	45,551	1,193,043
spinetoram	39	76,395	58,912	1,173,240
pendimethalin	40	2,319,035	28,787	1,094,200
pyraclostrobin	41	132,890	37,349	1,062,909
spirotetramat	42	107,948	55,949	1,001,482
trifloxystrobin	43	99,376	25,627	971,288
propiconazole	44	199,462	25,631	958,737
polyethylene glycol*	45	159,790	24,009	942,402
saflufenacil	46	34,746	20,435	877,725
polyether modified polysiloxane*	47	78,152	36,703	860,707
mancozeb	48	1,540,119	34,430	854,058
alpha-pinene beta-pinene copolymer*	49	293,633	28,015	833,914
cyprodinil	50	227,984	26,510	823,121
tebuconazole	51	116,657	22,563	803,372
carfentrazone-ethyl	52	17,698	20,514	779,963
pyraflufen-ethyl	53	2,774	17,368	774,532
rimsulfuron	54	34,416	25,699	746,872
difenoconazole	55	65,626	18,665	726,814
benzoic acid*	56	5,705	22,029	715,272

Chemical	Rank	Pounds Applied	Apps	Acre Treated
dimethyl alkyl tertiary amines*	57	6,223	22,025	715,151
butyl alcohol*	58	47,857	17,452	713,321
oleic acid*	59	80,020	21,900	705,633
oleic acid, methyl ester*	60	625,924	15,784	678,739
ammonium nitrate*	61	84,496	25,695	674,254
esfenvalerate	62	45,421	17,577	657,798
flonicamid	63	56,716	17,166	654,043
alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate*	64	45,515	13,522	645,450
indaziflam	65	41,214	25,816	642,827
alkyl (c8,c10) polyglucoside*	66	107,654	17,863	637,830
oleic acid, ethyl ester*	67	251,326	27,959	635,434
polyethylene glycol stearate*	68	60,461	27,953	633,526
modified phthalic glycerol alkyd resin*	69	148,083	16,848	629,286
copper	70	5,406	99	628,166
acetamiprid	71	63,221	21,922	606,106
ammonium propionate*	72	105,159	15,519	595,664
urea dihydrogen sulfate	73	399,045	11,281	595,647
polyoxyethylene polyoxypropylene*	74	110,193	21,358	592,353
hydrotreated paraffinic solvent	75	316,773	12,833	568,980
penthiopyrad	76	132,930	15,469	564,736
etoxazole	77	66,557	11,609	559,366
metconazole	78	58,876	8,691	545,180
potassium phosphite	79	1,651,325	27,049	544,518
chlorothalonil	80	1,160,779	16,668	540,743
fluxapyroxad	81	54,606	11,457	536,981
sodium polyacrylate*	82	6,320	12,654	536,637
alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)*	83	116,176	11,677	530,830
thiamethoxam	84	52,167	27,845	530,630
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	85	117,582	33,157	528,852
gibberellins	86	25,378	17,756	528,782
alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)*	87	24,998	20,541	523,355
petroleum oil, unclassified	88	6,958,986	12,484	518,197
vegetable oil*	89	668,393	4,520	513,526
permethrin	90	138,561	36,217	510,838
boscalid	91	133,502	24,542	504,458
tall oil*	92	45,637	20,238	502,420
ethephon	93	444,819	10,040	501,233
heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated*	94	54,602	17,087	492,580

Chemical	Rank	Pounds Applied	Apps	Acre Treated
bifenazate	95	306,965	12,452	489,991
indoxacarb	96	39,591	14,470	481,823
quinoxifen	97	45,486	20,177	467,413
flupyradifurone	98	63,682	20,712	465,491
dimethoate	99	160,874	8,212	463,896
zeta-cypermethrin	100	21,291	25,370	455,165