

The Top 100 Pesticides by Pounds 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 pesticides is determined by total pounds of active ingredient used. 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 totals 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
sulfur	1	49,038,554	170,396	5,734,234
mineral oil	2	30,165,318	112,948	3,497,565
1,3-dichloropropene	3	11,300,809	2,759	62,143
chloropicrin	4	8,056,246	2,189	46,357
petroleum oil, unclassified	5	6,958,986	12,484	518,197
potassium n-methyldithiocarbamate	6	6,629,298	2,872	32,751
glyphosate, isopropylamine salt	7	6,306,993	82,192	2,404,583
glyphosate, potassium salt	8	6,068,783	87,891	3,359,076
calcium hydroxide	9	4,801,423	10,527	250,592
metam-sodium	10	4,124,364	616	21,765
sulfuryl fluoride	11	3,019,149	50	42
copper hydroxide	12	2,780,178	42,896	1,451,342
kaolin	13	2,720,806	3,337	80,602
methylated soybean oil*	14	2,480,147	124,015	4,684,665
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	15	2,361,689	249,743	10,453,946
pendimethalin	16	2,319,035	28,787	1,094,200
glufosinate-ammonium	17	1,975,045	64,103	1,936,502
propanil	18	1,855,890	4,883	354,195

Chemical	Rank	Pounds Applied	Apps	Acre Treated
copper sulfate (pentahydrate)	19	1,798,201	3,145	252,523
petroleum distillates, refined	20	1,764,078	7,411	204,579
potassium phosphite	21	1,651,325	27,049	544,518
methyl bromide	22	1,637,709	364	5,605
mancozeb	23	1,540,119	34,430	854,058
sodium hypochlorite	24	1,525,624	99	85,866
copper ethanolamine complexes, mixed	25	1,454,459	76	4,397
lime-sulfur	26	1,448,877	2,594	73,834
paraquat dichloride	27	1,340,825	24,630	1,237,110
copper sulfate (basic)	28	1,209,040	10,726	316,021
chlorothalonil	29	1,160,779	16,668	540,743
petroleum oil, paraffin based	30	939,038	10,150	402,052
ammonium sulfate	31	883,187	71,096	2,579,049
oxyfluorfen	32	878,203	62,047	2,058,201
lecithin*	33	752,275	76,942	3,111,764
vegetable oil*	34	668,393	4,520	513,526
thiobencarb	35	654,018	2,341	190,275
oleic acid, methyl ester*	36	625,924	15,784	678,739
boric acid	37	590,725	69	453
ziram	38	585,681	5,111	106,710
hydrogen cyanamide	39	579,702	1,075	38,754
sodium chlorate	40	554,446	662	52,205
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	41	524,543	78,608	2,778,250
imidacloprid	42	523,770	55,584	1,372,843
triclopyr, triethylamine salt	43	513,895	4,652	335,354
methoxyfenozide	44	512,946	36,449	1,785,258
chlorine	45	509,510	0	0
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	46	488,423	39,505	1,222,718
potassium bicarbonate	47	468,514	10,720	155,643
hydrogen peroxide	48	460,682	15,963	298,012
ethephon	49	444,819	10,040	501,233
burkholderia sp strain a396 cells and fermentation media	50	412,529	6,269	82,875
diatomaceous earth	51	403,510	1,829	22,917
copper oxychloride	52	401,813	12,611	368,718

Chemical	Rank	Pounds Applied	Apps	Acre Treated
urea dihydrogen sulfate	53	399,045	11,281	595,647
captan	54	375,417	5,965	200,571
cryolite	55	361,997	1,670	47,594
copper oxide (ous)	56	349,805	8,247	138,961
malathion	57	323,905	9,539	200,129
trifluralin	58	320,050	6,904	279,393
2,4-d, dimethylamine salt	59	319,742	7,376	274,651
naled	60	317,861	5,194	218,393
hydrotreated paraffinic solvent	61	316,773	12,833	568,980
bifenthrin	62	312,115	33,376	1,673,562
bensulide	63	310,644	8,999	84,747
bifenazate	64	306,965	12,452	489,991
bacillus amyloliquefaciens strain d747	65	298,211	6,812	77,283
alpha-pinene beta-pinene copolymer*	66	293,633	28,015	833,914
azoxystrobin	67	287,449	37,019	1,519,776
sulfur dioxide	68	283,377	23	438
sodium carbonate peroxyhydrate	69	276,479	169	12,065
s-metolachlor	70	269,417	4,102	179,516
disodium octaborate tetrahydrate	71	262,165	40	2,866
oleic acid, ethyl ester*	72	251,326	27,959	635,434
fosetyl-al	73	250,338	10,096	83,657
oryzalin	74	245,060	3,918	73,362
diethylene glycol*	75	242,118	32,551	1,704,187
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	76	241,148	79,924	2,064,570
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	77	238,842	37,154	1,495,990
propylene oxide	78	229,979	0	None
cyprodinil	79	227,984	26,510	823,121
dimethylpolysiloxane*	80	227,667	153,628	5,823,744
propargite	81	227,357	2,081	101,617
petroleum distillates, aromatic	82	219,994	6,002	242,571
chlorthal-dimethyl	83	216,598	6,750	52,449
buprofezin	84	210,526	5,815	184,223

Chemical	Rank	Pounds Applied	Apps	Acre Treated
propionic acid	85	207,886	37,241	1,518,206
calcium carbonate*	86	205,800	0	0
methomyl	87	203,184	17,573	338,823
thiophanate-methyl	88	203,085	12,260	223,678
emulsifiable methylated vegetable oil*	89	202,137	22,757	390,613
propiconazole	90	199,462	25,631	958,737
borax	91	199,121	562	22,856
caprylic acid	92	193,393	1,594	31,314
chlorantraniliprole	93	188,791	55,221	2,454,493
fatty acids, methyl esters	94	188,364	4,129	159,934
tall oil fatty acids*	95	186,469	47,491	1,946,234
fatty acids, mixed*	96	185,639	49,104	2,528,066
sodium bromide	97	183,119	1	405
eptc	98	181,662	1,285	72,656
alkyl(42\%c12, 26\%c18, 15\%c14, 8\%c16, 5\%c10, 4\%c8)1,3-propylenediamine	99	181,444	0	8
methylated fatty acids from canola oil*	100	179,498	2,852	116,823