

The Top 100 Chemicals by Pounds 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 pounds of chemical 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	48,571,279	157,172	5,659,439
mineral oil	2	29,611,582	105,540	3,367,201
1,3-dichloropropene	3	12,569,270	2,763	65,635
potassium n-methyldithiocarbamate	4	8,527,736	3,853	45,459
petroleum oil, unclassified	5	7,734,445	11,802	555,113
chloropicrin	6	7,436,425	2,034	41,974
glyphosate, potassium salt	7	6,109,802	87,939	3,218,657
glyphosate, isopropylamine salt	8	5,766,081	81,008	2,378,762
calcium hydroxide	9	5,016,453	10,385	248,702
metam-sodium	10	3,765,705	573	20,139
kaolin	11	3,268,360	3,531	98,959
sulfuryl fluoride	12	2,991,914	22	1

Chemical	Rank	Pounds Applied	Apps	Acre Treated
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	13	2,529,936	250,118	10,374,177
copper hydroxide	14	2,346,020	39,578	1,290,680
pendimethalin	15	2,244,649	27,980	1,077,303
methylated soybean oil*	16	2,177,919	120,782	4,509,004
propanil	17	1,829,002	4,768	344,239
copper sulfate (pentahydrate)	18	1,801,464	3,016	258,455
lime-sulfur	19	1,701,224	2,889	77,534
methyl bromide	20	1,682,989	380	5,602
glufosinate-ammonium	21	1,595,020	56,657	1,697,284
copper ethanolamine complexes, mixed	22	1,510,703	86	5,425
petroleum distillates, refined	23	1,395,969	6,411	184,100
mancozeb	24	1,315,141	33,787	715,654
paraquat dichloride	25	1,301,935	28,084	1,240,012
potassium phosphite	26	1,203,727	28,002	411,056
copper sulfate (basic)	27	1,202,539	10,993	326,460
chlorothalonil	28	1,171,126	16,026	548,568
sodium hypochlorite	29	1,074,744	217	5,441
ammonium sulfate	30	980,294	66,343	2,510,108
oxyfluorfen	31	852,992	62,878	2,079,597
vegetable oil*	32	824,829	4,991	584,304
lecithin*	33	728,946	76,319	2,795,838
hydrogen cyanamide	34	684,190	1,162	45,555
boric acid	35	677,104	109	425
ziram	36	665,996	5,667	124,648
methoxyfenozide	37	614,165	42,367	2,214,653
chlorpyrifos	38	601,173	6,827	431,218

Chemical	Rank	Pounds Applied	Apps	Acre Treated
thiobencarb	39	592,804	2,142	172,814
petroleum oil, paraffin based	40	589,747	10,643	442,144
sodium bromide	41	539,356	0	392
oleic acid, methyl ester*	42	520,203	14,281	583,911
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	43	502,437	39,968	1,247,958
sodium chlorate	44	470,862	613	47,581
imidacloprid	45	466,269	60,754	1,467,169
chlorine	46	457,774	0	323
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	47	445,576	76,183	2,550,869
ethephon	48	433,459	10,366	495,261
copper oxchloride	49	427,763	12,807	359,134
captan	50	413,622	6,005	218,301
copper oxide (ous)	51	400,539	7,665	157,264
urea dihydrogen sulfate	52	378,206	10,900	564,181
hydrotreated paraffinic solvent	53	363,825	14,439	599,730
malathion	54	360,906	10,304	216,638
trifluralin	55	352,310	7,251	339,373
potassium bicarbonate	56	349,173	7,231	124,850
hydrogen peroxide	57	345,059	6,539	103,587
cryolite	58	338,066	1,495	44,627
s-metolachlor	59	335,599	4,427	221,221
naled	60	330,719	4,904	190,102
bifenthrin	61	330,518	32,586	1,705,194
sodium carbonate peroxyhydrate	62	329,252	187	12,824
2,4-d, dimethylamine salt	63	326,899	8,556	290,467
bensulide	64	311,544	8,855	85,689

Chemical	Rank	Pounds Applied	Apps	Acre Treated
buprofezin	65	297,983	7,111	300,031
oryzalin	66	297,679	4,584	92,190
sulfur dioxide	67	277,821	23	546
bacillus amyloliquefaciens strain d747	68	272,675	5,215	68,085
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	69	269,983	77,447	2,226,656
phosphoric acid	70	264,882	64,503	2,210,806
bifenazate	71	262,543	11,731	428,178
dimethylpolysiloxane*	72	254,731	143,700	5,581,795
corn steep liquor*	73	253,022	1,508	53,890
oleic acid, ethyl ester*	74	249,648	27,327	630,381
disodium octaborate tetrahydrate	75	248,410	43	4,355
azoxystrobin	76	246,479	33,434	1,318,694
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	77	232,443	39,927	1,472,015
diethylene glycol*	78	230,690	31,211	1,632,077
propargite	79	226,091	2,059	97,880
methomyl	80	224,535	18,106	375,018
eptc	81	218,451	1,593	91,178
burkholderia sp strain a396 cells and fermentation media	82	216,044	3,550	35,064
propylene oxide	83	213,681	0	None
petroleum distillates, aromatic	84	203,100	6,663	234,373
caprylic acid	85	198,131	1,834	32,921
chlorantranilprole	86	195,286	51,223	2,203,118
emulsifiable methylated vegetable oil*	87	192,737	23,188	364,141

Chemical	Rank	Pounds Applied	Apps	Acre Treated
methylated fatty acids from canola oil*	88	192,306	3,328	123,495
alpha-pinene beta-pinene copolymer*	89	191,177	23,151	600,635
propionic acid	90	190,707	37,018	1,300,375
diuron	91	188,274	6,073	352,394
chlorthal-dimethyl	92	184,414	5,881	44,254
diatomaceous earth	93	181,395	423	9,710
4-nonylphenol, formaldehyde resin, propoxylated*	94	177,908	47,094	1,574,059
potash soap	95	177,243	6,980	32,745
cyprodinil	96	176,936	21,617	676,628
calcium hypochlorite	97	176,871	1,999	681
modified phthalic glycerol alkyd resin*	98	176,767	17,384	633,532
fosetyl-al	99	176,486	8,648	61,423
thiophanate-methyl	100	175,723	12,175	201,666