

The Top 100 Chemicals by Pounds in Total Statewide Pesticide Use in 2020

Text files 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	47,313,370	145,209	5,481,278
mineral oil	2	43,640,090	156,859	5,435,013
1,3-dichloropropene	3	11,678,006	2,769	63,497
potassium n-methyldithiocarbamate	4	9,000,088	3,483	45,567
chloropicrin	5	8,370,636	2,154	47,302
glyphosate, potassium salt	6	6,464,485	92,015	3,260,162
glyphosate, isopropylamine salt	7	5,705,955	80,449	2,248,551
calcium hydroxide	8	4,926,694	10,369	243,859
metam-sodium	9	4,326,370	601	21,752
copper hydroxide	10	3,115,937	42,333	1,375,603
kaolin	11	2,957,863	3,313	79,887
sulfuryl fluoride	12	2,817,782	13	36
methylated soybean oil*	13	2,745,701	134,025	4,800,115
glufosinate-ammonium	14	2,457,481	80,724	2,335,289
pendimethalin	15	2,440,989	31,111	1,144,074
copper sulfate (pentahydrate)	16	2,180,990	4,456	222,193
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	17	2,117,714	238,167	9,664,737
propanil	18	2,065,019	5,595	408,790
methyl bromide	19	1,685,379	391	5,932
mancozeb	20	1,557,453	34,559	810,416
copper ethanolamine complexes, mixed	21	1,525,813	80	3,543
potassium phosphite	22	1,408,631	23,426	467,634

Chemical	Rank	Pounds Applied	Apps	Acre Treated
lime-sulfur	23	1,399,158	2,978	86,341
sodium hypochlorite	24	1,178,846	137	30,926
copper sulfate (basic)	25	1,157,047	10,305	286,122
chlorothalonil	26	1,149,169	16,222	524,266
oleic acid, methyl ester*	27	1,114,418	17,845	792,043
ammonium sulfate	28	967,267	75,940	2,594,883
oxyfluorfen	29	952,744	67,906	2,231,517
lecithin*	30	895,723	83,671	3,080,241
paraquat dichloride	31	854,429	15,384	808,407
boric acid	32	737,092	36	63
hydrogen cyanamide	33	639,731	1,387	46,053
methoxyfenozide	34	599,667	39,352	2,086,056
thiobencarb	35	595,147	2,053	177,064
vegetable oil*	36	581,767	3,728	396,440
hydrogen peroxide	37	564,035	13,277	201,048
burkholderia sp strain a396 cells and fermentation media	38	552,149	8,375	98,695
ziram	39	542,925	4,812	101,730
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	40	542,432	80,293	2,693,599
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	41	459,224	36,205	1,121,530
sodium chlorate	42	434,516	456	30,721
copper oxychloride	43	409,480	11,626	349,932
diatomaceous earth	44	395,703	2,772	28,084
imidacloprid	45	378,619	53,324	1,362,750
captan	46	376,057	6,442	235,283
sulfur dioxide	47	361,466	11	117
2,4-d, dimethylamine salt	48	356,570	8,358	299,506
malathion	49	355,406	10,006	217,773
cryolite	50	354,772	1,646	45,587
ethephon	51	348,493	8,783	417,833
copper oxide (ous)	52	346,520	6,986	128,134
bensulide	53	336,449	9,254	90,307
oleic acid, ethyl ester*	54	329,975	30,904	708,546
potassium bicarbonate	55	313,835	6,378	106,562
bifenthrin	56	307,581	33,391	1,540,282
s-metolachlor	57	302,316	4,739	196,018
bifenazate	58	301,708	12,513	489,912
trifluralin	59	300,630	6,925	276,590
sodium bromide	60	298,269	<0.01	384
azoxystrobin	61	290,372	34,973	1,486,588
buprofezin	62	287,223	5,638	241,394

Chemical	Rank	Pounds Applied	Apps	Acre Treated
urea dihydrogen sulfate	63	281,545	12,233	549,115
disodium octaborate tetrahydrate	64	280,137	57	5,073
petroleum oil, unclassified	65	279,393	433	17,610
sodium carbonate peroxyhydrate	66	277,896	208	13,308
propylene oxide	67	271,228	<0.01	N/A
sodium chlorite	68	267,636	64	5,912
fatty acids, methyl esters	69	258,118	6,008	217,400
methomyl	70	258,100	23,604	410,702
triclopyr, triethylamine salt	71	252,794	5,005	363,148
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	72	249,135	33,601	1,344,639
alpha-pinene beta-pinene copolymer*	73	246,961	28,178	806,766
chlorine	74	246,961	<0.01	767
peroxyacetic acid	75	244,978	12,170	195,053
methylated fatty acids from canola oil*	76	240,647	3,217	133,618
diethylene glycol*	77	236,482	30,838	1,577,072
bacillus amyloliquefaciens strain d747	78	230,216	6,199	62,673
glyphosate, dimethylamine salt	79	229,370	2,200	64,526
dimethylpolysiloxane*	80	228,384	146,786	5,414,579
propargite	81	225,197	2,010	93,650
borax	82	211,119	360	16,141
chlorthal-dimethyl	83	210,653	6,455	50,390
alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)*	84	208,325	14,017	625,498
naled	85	203,316	4,974	143,396
clarified hydrophobic extract of neem oil	86	199,294	6,846	52,375
petroleum oil, paraffin based	87	193,027	501	21,687
potash soap	88	189,936	8,366	35,622
emulsifiable methylated vegetable oil*	89	189,603	22,007	400,633
chlorantraniliprole	90	187,443	49,885	2,323,460
tall oil fatty acids*	91	183,353	50,530	2,064,965
fatty acids, mixed*	92	181,937	44,077	2,126,282
phosphoric acid	93	181,667	64,696	2,178,447
n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	94	180,175	69,595	2,446,978
alkyl(42% ^c 12, 26% ^c 18, 15% ^c 14, 8% ^c 16, 5% ^c 10, 4% ^c 8)1,3-propylenediamine	95	179,859	<0.01	13
citric acid	96	178,100	63,436	2,324,513
caprylic acid	97	175,363	1,856	30,170
eptc	98	173,257	1,272	69,548
propionic acid	99	173,242	38,078	1,313,246

Chemical	Rank	Pounds Applied	Apps	Acre Treated
4-nonylphenol, formaldehyde resin, propoxylated*	100	167,398	42,946	1,386,670