

The Top 100 Chemicals by Pounds in Total Statewide Pesticide Use in 2021

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 under Apps or Acre Treated therefore means that the pounds applied 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	40,158,469	120,534	4,732,431
mineral oil	2	37,089,143	151,244	4,822,049
1,3-dichloropropene	3	11,086,414	2,807	61,509
potassium n-methyldithiocarbamate	4	8,513,080	2,042	44,736
chloropicrin	5	8,506,588	2,205	45,991
glyphosate, potassium salt	6	5,609,918	80,825	2,783,021
glyphosate, isopropylamine salt	7	4,704,007	72,656	1,916,133
calcium hydroxide	8	4,331,909	9,202	206,339
metam-sodium	9	3,593,891	499	17,697
sulfuryl fluoride	10	3,065,098	47	42
kaolin	11	2,616,436	2,805	71,882
pendimethalin	12	2,437,026	30,922	1,114,304
methylated soybean oil*	13	2,355,756	128,475	4,171,030
copper hydroxide	14	2,044,752	31,739	997,734
propanil	15	1,968,013	5,809	413,305
glufosinate-ammonium	16	1,952,176	68,909	1,920,076
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	17	1,818,978	209,253	8,296,943
lime-sulfur	18	1,679,134	2,976	103,118
methyl bromide	19	1,603,060	381	5,785

Chemical	Rank	Pounds Applied	Apps	Acre Treated
copper sulfate (pentahydrate)	20	1,381,787	3,052	181,854
sodium hypochlorite	21	1,335,028	111	2,502
copper ethanolamine complexes, mixed	22	1,329,086	56	6,542
potassium phosphite	23	1,259,728	21,829	418,409
mancozeb	24	1,043,342	28,192	555,543
ammonium sulfate	25	1,015,194	70,360	2,423,024
chlorothalonil	26	913,164	14,323	406,933
copper sulfate (basic)	27	883,919	8,821	224,825
oxyfluorfen	28	869,732	62,998	2,028,785
boric acid	29	725,765	62	867
lecithin*	30	710,402	81,839	2,617,080
diatomaceous earth	31	695,186	4,909	42,287
oleic acid, methyl ester*	32	689,657	15,720	674,247
disodium octaborate tetrahydrate	33	615,180	44	4,717
methoxyfenozide	34	571,255	36,859	1,951,177
hydrogen peroxide	35	564,514	14,275	189,893
burkholderia sp strain a396 cells and fermentation media	36	527,545	7,899	88,667
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	37	488,514	73,643	2,434,053
ziram	38	487,948	4,855	88,762
hydrogen cyanamide	39	478,503	1,107	33,510
vegetable oil*	40	449,080	3,657	322,826
paraquat dichloride	41	426,104	7,719	399,445
bifenthrin	42	425,966	33,547	1,450,253
sodium bromide	43	417,695	<0.01	194
fatty acids, methyl esters	44	413,156	8,463	358,639
thiobencarb	45	394,055	1,377	116,407
4-nonylphenol, formaldehyde resin, propoxylated*	46	376,647	36,697	1,130,188
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	47	359,969	31,742	933,661
bensulide	48	340,608	9,736	93,386
captan	49	332,842	5,844	190,677
imidacloprid	50	330,638	48,480	1,070,291
2,4-d, dimethylamine salt	51	330,382	7,114	268,137
ethephon	52	317,821	8,984	381,836

Chemical	Rank	Pounds Applied	Apps	Acre Treated
bifenazate	53	315,776	12,255	495,356
copper oxychloride	54	310,974	9,132	271,077
trifluralin	55	304,787	6,685	261,165
sulfur dioxide	56	295,852	175	129
s-metolachlor	57	291,451	4,547	192,514
peroxyacetic acid	58	289,683	13,388	189,103
cryolite	59	288,310	1,343	34,714
oleic acid, ethyl ester*	60	284,148	27,653	577,747
caprylic acid	61	271,317	2,916	41,044
sodium carbonate peroxyhydrate	62	266,624	207	12,227
castor oil ethoxylate*	63	255,260	7,655	243,917
azoxystrobin	64	252,486	31,578	1,266,941
petroleum oil, unclassified	65	252,249	439	18,310
sodium chlorite	66	251,911	143	8,328
malathion	67	247,106	8,612	157,033
methylated fatty acids from canola oil*	68	245,001	3,964	156,757
borax	69	241,002	469	17,410
methomyl	70	235,742	22,687	368,623
diethylene glycol*	71	231,261	26,508	1,375,352
copper oxide (ous)	72	220,425	4,290	82,059
bacillus amyloliquefaciens strain d747	73	220,056	5,983	54,626
dimethylpolysiloxane*	74	205,880	134,989	4,899,422
permethrin	75	203,283	36,107	504,184
sodium chlorate	76	199,114	355	22,381
chlorantraniliprole	77	198,752	47,880	2,323,295
naled	78	194,516	4,044	136,832
buprofezin	79	194,087	5,047	207,259
chlorthal-dimethyl	80	193,533	6,193	47,207
capric acid	81	192,755	2,914	41,017
potassium bicarbonate	82	192,488	5,403	72,168
phosphoric acid	83	192,143	58,455	1,900,125
citric acid	84	191,635	62,948	2,185,354
glyphosate, dimethylamine salt	85	190,622	1,630	53,811
alpha-pinene beta-pinene copolymer*	86	189,361	25,546	669,646
triclopyr, triethylamine salt	87	185,789	4,189	294,920
urea dihydrogen sulfate	88	185,288	11,645	469,740
propionic acid	89	184,964	37,986	1,091,157
chlorine	90	180,763	<0.01	N/A

Chemical	Rank	Pounds Applied	Apps	Acre Treated
corn steep liquor*	91	175,174	1,200	45,126
clethodim	92	174,040	25,980	1,062,714
lambda-cyhalothrin	93	173,094	70,450	2,473,490
potash soap	94	169,318	8,699	34,820
tall oil fatty acids*	95	168,605	47,630	1,773,987
emulsifiable methylated vegetable oil*	96	168,160	18,885	333,952
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	97	163,697	29,481	1,030,472
propylene oxide	98	163,231	<0.01	N/A
fatty acids, mixed*	99	163,055	41,048	1,807,121
alkyl(42%^c12, 26%^c18, 15%^c14, 8%^c16, 5%^c10, 4%^c8)1,3-propylenediamine	100	161,578	<0.01	3