

# The Top 100 Chemicals by Acres Treated 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 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 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
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1	1,818,978	209,253	8,296,943
dimethylpolysiloxane*	2	205,880	134,989	4,899,422
mineral oil	3	37,089,143	151,244	4,822,049
sulfur	4	40,158,469	120,534	4,732,431
methylated soybean oil*	5	2,355,756	128,475	4,171,030
glyphosate, potassium salt	6	5,609,918	80,825	2,783,021
lecithin*	7	710,402	81,839	2,617,080
lambda-cyhalothrin	8	173,094	70,450	2,473,490
alpha-undecyl-omega-hydroxypoly(oxyethylene)*	9	488,514	73,643	2,434,053
ammonium sulfate	10	1,015,194	70,360	2,423,024
abamectin	11	45,933	65,360	2,377,782
chlorantraniliprole	12	198,752	47,880	2,323,295
citric acid	13	191,635	62,948	2,185,354
n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	14	146,558	65,107	2,112,046
oxyfluorfen	15	869,732	62,998	2,028,785
methoxyfenozide	16	571,255	36,859	1,951,177
glufosinate-ammonium	17	1,952,176	68,909	1,920,076
glyphosate, isopropylamine salt	18	4,704,007	72,656	1,916,133
phosphoric acid	19	192,143	58,455	1,900,125

Chemical	Rank	Pounds Applied	Apps	Acre Treated
fatty acids, mixed*	20	163,055	41,048	1,807,121
tall oil fatty acids*	21	168,605	47,630	1,773,987
bifenthrin	22	425,966	33,547	1,450,253
diethylene glycol*	23	231,261	26,508	1,375,352
azoxystrobin	24	252,486	31,578	1,266,941
alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	25	145,850	42,877	1,213,613
polyacrylamide polymer*	26	12,949	24,816	1,154,184
4-nonylphenol, formaldehyde resin, propoxylated*	27	376,647	36,697	1,130,188
spinetoram	28	71,486	60,140	1,125,156
pendimethalin	29	2,437,026	30,922	1,114,304
propionic acid	30	184,964	37,986	1,091,157
alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	31	139,500	31,277	1,089,652
imidacloprid	32	330,638	48,480	1,070,291
clethodim	33	174,040	25,980	1,062,714
alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	34	163,697	29,481	1,030,472
polyalkene oxide modified heptamethyl trisiloxane*	35	31,544	34,422	1,002,945
copper hydroxide	36	2,044,752	31,739	997,734
propylene glycol	37	98,606	38,476	991,384
pyraclostrobin	38	120,891	32,885	975,417
saflufenacil	39	38,743	23,574	963,321
spirotetramat	40	104,151	53,535	959,612
polybutenes	41	78,265	32,412	952,202
fatty acids, c16-c18 and c18-unsaturated, methyl esters*	42	359,969	31,742	933,661
fluopyram	43	82,760	23,893	852,335
isopropyl alcohol	44	37,856	31,008	849,276
polyethylene glycol*	45	121,459	20,787	815,830
polyether modified polysiloxane*	46	88,717	35,099	808,492
polyoxyethylene polyoxypropylene*	47	146,283	28,324	796,603
rimsulfuron	48	37,475	27,477	795,864
tebuconazole	49	128,027	17,832	742,493
carfentrazone-ethyl	50	16,299	20,587	729,205
alkyl (c8,c10) polyglucoside*	51	114,713	22,063	691,503
indaziflam	52	38,436	26,065	676,847
oleic acid, methyl ester*	53	689,657	15,720	674,247
alpha-pinene beta-pinene copolymer*	54	189,361	25,546	669,646

Chemical	Rank	Pounds Applied	Apps	Acre Treated
heptamethyltrisiloxane-1,3-propanediol ether, ethoxylated propoxylated*	55	80,610	24,253	666,398
pyraflufen-ethyl	56	2,461	17,691	664,097
ammonium nitrate*	57	73,202	22,831	642,635
oleic acid*	58	66,060	19,555	622,262
difenoconazole	59	57,238	13,491	617,363
methyl silicone resins*	60	142,793	20,115	606,370
trifloxystrobin	61	61,541	18,609	594,381
oleic acid, ethyl ester*	62	284,148	27,653	577,747
polyethylene glycol stearate*	63	69,514	27,602	576,995
etoxazole	64	72,000	12,546	570,955
glycerol*	65	103,354	15,815	556,170
mancozeb	66	1,043,342	28,192	555,543
acetamiprid	67	61,069	23,483	552,326
dimethyl alkyl tertiary amines*	68	4,364	20,741	541,975
benzoic acid*	69	3,998	20,741	541,975
fluxapyroxad	70	55,391	12,736	537,985
heptamethyltrisiloxane ethoxylated*	71	60,450	12,665	537,689
alpha-tridecyl-omega-hydroxypoly(oxyethanol) phosphate*	72	33,658	13,865	518,741
alpha-alkyl (c9-c16)-omega-hydroxypoly(oxyethylene)*	73	117,316	12,162	507,284
permethrin	74	203,283	36,107	504,184
modified phthalic glycerol alkyd resin*	75	113,837	15,084	503,966
esfenvalerate	76	33,166	15,641	500,514
bifenazate	77	315,776	12,255	495,356
gibberellins	78	18,964	16,926	485,924
propiconazole	79	102,336	17,370	479,855
2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	80	109,955	21,875	475,267
cyprodinil	81	119,092	16,145	470,032
urea dihydrogen sulfate	82	185,288	11,645	469,740
thiamethoxam	83	38,856	24,115	461,472
boscalid	84	118,981	22,144	442,978
tall oil*	85	40,836	12,705	432,833
alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)*	86	21,689	19,468	429,991
hexythiazox	87	74,566	9,797	426,311
penthiopyrad	88	105,621	12,663	424,163
poly(oxyethylene) poly(oxypropylene) glycol monoallyl ether*	89	29,222	15,217	419,936
flumioxazin	90	99,993	16,817	418,881
potassium phosphite	91	1,259,728	21,829	418,409

<b>Chemical</b>	<b>Rank</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acre Treated</b>
<b>flupyradifurone</b>	92	60,953	18,811	417,725
<b>metconazole</b>	93	44,216	6,731	415,325
<b>propanil</b>	94	1,968,013	5,809	413,305
<b>cyflumetofen</b>	95	73,859	8,599	407,362
<b>butyl alcohol*</b>	96	28,524	8,607	407,042
<b>chlorothalonil</b>	97	913,164	14,323	406,933
<b>ammonium propionate*</b>	98	78,836	14,974	403,607
<b>beta-cyfluthrin</b>	99	28,320	17,269	402,040
<b>paraquat dichloride</b>	100	426,104	7,719	399,445