

The Top Five Chemicals by Pounds in each County 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.

County	Chemical	Pounds Applied	Apps	Acre Treated
Alameda	sulfuryl fluoride	68,156	0	0
Alameda	hydrogen peroxide	33,427	377	2,475
Alameda	glyphosate, isopropylamine salt	24,562	406	2,494
Alameda	petroleum distillates, refined	14,212	264	1,864
Alameda	disodium octaborate tetrahydrate	11,627	0	0
Alpine	glyphosate, isopropylamine salt	311	7	63
Alpine	deltamethrin	189	0	0
Alpine	oleic acid, methyl ester*	82	0	0
Alpine	fatty acids, methyl esters	60	1	70
Alpine	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	28	8	112
Amador	sulfur	55,666	643	9,410
Amador	glyphosate, isopropylamine salt	9,445	147	2,122
Amador	methylated soybean oil*	6,623	68	1,073
Amador	potassium bicarbonate	3,291	23	808
Amador	glyphosate, potassium salt	2,997	120	1,459

County	Chemical	Pounds Applied	Apps	Acre Treated
Butte	propanil	312,074	771	60,037
Butte	copper hydroxide	285,164	1,865	79,151
Butte	1,3-dichloropropene	274,528	16	828
Butte	mineral oil	185,096	1,037	53,571
Butte	copper sulfate (pentahydrate)	156,373	167	11,723
Calaveras	glyphosate, isopropylamine salt	29,004	98	887
Calaveras	sulfur	7,980	184	1,586
Calaveras	methylated soybean oil*	7,440	87	1,843
Calaveras	glyphosate, dimethylamine salt	3,947	60	1,012
Calaveras	glyphosate, potassium salt	2,629	74	487
Colusa	propanil	505,033	1,235	90,872
Colusa	thiobencarb	221,741	856	65,128
Colusa	mineral oil	206,066	510	32,775
Colusa	glyphosate, potassium salt	188,468	1,644	95,711
Colusa	sulfur	181,739	183	16,038
Contra Costa	sulfur	187,960	724	14,400
Contra Costa	glyphosate, isopropylamine salt	32,051	121	4,924
Contra Costa	glyphosate, potassium salt	31,021	406	15,409
Contra Costa	endothall, dipotassium salt	21,205	0	12
Contra Costa	mineral oil	17,166	504	6,538
Del Norte	1,3-dichloropropene	92,456	36	357
Del Norte	metam-sodium	83,688	50	267
Del Norte	copper hydroxide	6,484	679	5,145
Del Norte	chlorothalonil	3,870	615	4,797
Del Norte	triclopyr, butoxyethyl ester	2,178	69	759
El Dorado	mineral oil	36,615	573	4,315
El Dorado	sulfur	25,603	691	6,133
El Dorado	glyphosate, isopropylamine salt	17,756	348	2,857

County	Chemical	Pounds Applied	Apps	Acre Treated
El Dorado	glyphosate, dimethylamine salt	13,507	191	2,259
El Dorado	methylated soybean oil*	11,860	113	1,847
Fresno	sulfur	10,210,883	24,471	1,127,289
Fresno	mineral oil	6,029,039	13,695	586,596
Fresno	petroleum oil, unclassified	2,880,788	4,205	226,777
Fresno	potassium n-methyldithiocarbamate	2,192,883	282	10,248
Fresno	1,3-dichloropropene	1,783,127	374	6,504
Glenn	propanil	308,846	1,055	61,346
Glenn	copper sulfate (pentahydrate)	194,679	234	15,066
Glenn	copper hydroxide	144,017	1,036	41,469
Glenn	glyphosate, isopropylamine salt	131,275	1,661	62,134
Glenn	methylated soybean oil*	117,123	3,290	170,793
Humboldt	methylated soybean oil*	10,427	220	5,435
Humboldt	triclopyr, butoxyethyl ester	6,288	134	2,373
Humboldt	imazapyr, isopropylamine salt	5,183	341	11,680
Humboldt	metam-sodium	4,554	0	0
Humboldt	borax	3,621	0	0
Imperial	sulfur	1,618,408	1,905	98,050
Imperial	1,3-dichloropropene	523,040	100	5,498
Imperial	pendimethalin	293,547	2,574	163,457
Imperial	glyphosate, isopropylamine salt	287,215	842	45,934
Imperial	kaolin	211,834	145	4,415
Inyo	oleic acid, methyl ester*	5,983	1	130
Inyo	triclopyr, butoxyethyl ester	2,571	1	5
Inyo	glyphosate, isopropylamine salt	1,454	4	243
Inyo	tall oil fatty acids*	1,358	1	165
Inyo	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	1,330	7	162
Kern	mineral oil	5,356,288	8,156	506,131

County	Chemical	Pounds Applied	Apps	Acre Treated
Kern	sulfur	4,599,018	12,328	785,163
Kern	potassium n-methyldithiocarbamate	2,261,932	185	11,154
Kern	petroleum oil, unclassified	2,180,148	1,625	140,320
Kern	1,3-dichloropropene	1,899,941	243	7,891
Kings	sulfur	2,222,924	1,715	131,732
Kings	mineral oil	698,705	1,871	103,747
Kings	potassium n-methyldithiocarbamate	538,856	53	3,975
Kings	vegetable oil*	405,940	1,645	336,616
Kings	glyphosate, potassium salt	365,882	2,508	223,395
Lake	sulfur	302,884	1,730	38,510
Lake	mineral oil	222,035	806	13,257
Lake	lime-sulfur	79,152	140	2,729
Lake	glyphosate, isopropylamine salt	13,859	498	4,617
Lake	petroleum distillates, refined	11,102	63	1,090
Lassen	methyl bromide	31,202	6	144
Lassen	chloropicrin	22,146	6	144
Lassen	hexazinone	6,372	51	2,841
Lassen	glyphosate, isopropylamine salt	5,151	61	2,907
Lassen	glyphosate, dimethylamine salt	3,688	42	1,457
Los Angeles	sulfuryl fluoride	757,733	0	0
Los Angeles	potassium n-methyldithiocarbamate	494,700	16	1,401
Los Angeles	glyphosate, isopropylamine salt	131,746	738	2,025
Los Angeles	methyl bromide	129,789	0	0
Los Angeles	sodium bromide	69,845	0	0
Madera	sulfur	3,263,090	6,436	405,218
Madera	mineral oil	2,064,957	3,627	210,068
Madera	1,3-dichloropropene	655,448	53	1,982
Madera	petroleum oil, unclassified	596,122	940	53,741

County	Chemical	Pounds Applied	Apps	Acre Treated
Madera	glyphosate, potassium salt	447,648	5,203	230,425
Marin	potassium phosphite	19,088	0	0
Marin	sulfuryl fluoride	11,503	0	0
Marin	kaolin	4,119	41	206
Marin	copper citrate chelate	3,269	0	0
Marin	copper gluconate chelate	3,167	0	0
Mariposa	glyphosate, isopropylamine salt	1,684	50	334
Mariposa	borax	1,018	0	0
Mariposa	metam-sodium	824	0	0
Mariposa	methylated soybean oil*	648	4	205
Mariposa	triclopyr, triethylamine salt	428	7	266
Mendocino	copper ethanolamine complexes, mixed	1,392,925	1	55
Mendocino	sulfur	457,000	3,436	65,063
Mendocino	mineral oil	111,878	356	8,127
Mendocino	petroleum distillates, refined	36,136	229	4,027
Mendocino	octhilineone	29,189	0	0
Merced	sulfur	2,121,091	2,294	143,222
Merced	mineral oil	1,113,024	3,117	170,003
Merced	1,3-dichloropropene	1,044,732	371	8,512
Merced	potassium n-methyldithiocarbamate	852,750	152	4,048
Merced	glyphosate, potassium salt	446,919	5,263	240,775
Modoc	1,3-dichloropropene	29,552	5	173
Modoc	metam-sodium	23,546	3	150
Modoc	methylated soybean oil*	19,599	892	56,209
Modoc	glyphosate, potassium salt	10,085	104	6,821
Modoc	metribuzin	7,563	203	13,321
Mono	diuron	2,664	25	2,209
Mono	pendimethalin	1,674	13	1,001

County	Chemical	Pounds Applied	Apps	Acre Treated
Mono	paraquat dichloride	1,307	29	2,564
Mono	oleic acid, methyl ester*	1,235	10	939
Mono	glyphosate, isopropylamine salt	1,166	7	600
Monterey	chloropicrin	1,571,206	290	6,057
Monterey	sulfur	1,167,477	11,086	245,788
Monterey	petroleum distillates, refined	568,254	2,181	96,108
Monterey	1,3-dichloropropene	488,919	268	6,271
Monterey	potassium phosphite	343,745	10,260	118,777
Napa	sulfur	1,008,569	18,350	179,494
Napa	mineral oil	132,824	5,032	39,171
Napa	kaolin	43,763	492	6,287
Napa	sodium carbonate peroxyhydrate	43,667	0	40
Napa	glyphosate, potassium salt	33,769	3,046	19,407
Nevada	sulfur	17,420	145	2,019
Nevada	glyphosate, isopropylamine salt	7,330	46	424
Nevada	copper ethanolamine complexes, mixed	4,289	4	43
Nevada	endothall, dipotassium salt	3,900	0	7
Nevada	copper triethanolamine complex	2,904	5	1
Orange	sulfuryl fluoride	353,699	0	0
Orange	glyphosate, isopropylamine salt	200,320	889	3,705
Orange	petroleum oil, paraffin based	132,913	0	0
Orange	mineral oil	97,979	255	1,726
Orange	ammonium sulfate	97,226	3	80
Placer	copper sulfate (pentahydrate)	63,355	77	4,545
Placer	1,3-dichloropropene	56,661	1	171
Placer	propanil	38,405	130	7,128
Placer	naled	24,849	0	0
Placer	chlorantraniliprole	23,096	10	587

County	Chemical	Pounds Applied	Apps	Acre Treated
Plumas	methylated soybean oil*	8,581	92	4,094
Plumas	glyphosate, dimethylamine salt	6,785	68	3,251
Plumas	glyphosate, isopropylamine salt	2,783	18	501
Plumas	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,551	97	5,479
Plumas	pendimethalin	1,373	0	0
Riverside	metam-sodium	490,101	109	2,303
Riverside	sulfur	384,817	2,770	78,244
Riverside	glyphosate, isopropylamine salt	232,914	5,051	105,941
Riverside	mineral oil	209,785	2,409	57,338
Riverside	kaolin	160,341	116	4,051
Sacramento	sulfur	3,398,350	4,094	265,141
Sacramento	mineral oil	643,943	1,020	44,634
Sacramento	1,3-dichloropropene	95,495	4	288
Sacramento	glyphosate, isopropylamine salt	94,125	950	29,702
Sacramento	glyphosate, potassium salt	81,208	1,182	37,403
San Benito	potassium n-methyldithiocarbamate	152,799	43	647
San Benito	sulfur	79,656	1,382	14,273
San Benito	1,3-dichloropropene	32,402	7	104
San Benito	potassium phosphite	29,350	1,363	10,172
San Benito	petroleum distillates, refined	28,511	173	5,373
San Bernardino	sodium chlorate	118,915	0	0
San Bernardino	sulfuryl fluoride	66,302	0	0
San Bernardino	glyphosate, isopropylamine salt	62,997	570	6,664
San Bernardino	glyphosate, potassium salt	18,993	551	74,406
San Bernardino	boric acid	16,248	0	0
San Diego	sulfuryl fluoride	419,907	0	0
San Diego	mineral oil	230,951	1,756	15,640
San Diego	glyphosate, isopropylamine salt	121,011	5,484	20,156

County	Chemical	Pounds Applied	Apps	Acre Treated
San Diego	chloropicrin	84,312	91	800
San Diego	dimethylpolysiloxane*	38,866	1,007	6,534
San Francisco	1-bromo-3-chloro-5,5-dimethyl hydantoin	2,089	0	0
San Francisco	chlorothalonil	1,612	0	301
San Francisco	glutaraldehyde	1,469	0	0
San Francisco	ethofumesate	1,214	0	231
San Francisco	potassium phosphite	1,132	0	41
San Joaquin	copper	None	1	22
San Joaquin	sulfur	7,088,105	13,351	557,180
San Joaquin	mineral oil	852,038	5,693	171,664
San Joaquin	1,3-dichloropropene	717,571	103	2,413
San Joaquin	glyphosate, isopropylamine salt	328,223	5,517	150,921
San Luis Obispo	sulfur	648,831	3,993	172,638
San Luis Obispo	chloropicrin	643,308	109	3,421
San Luis Obispo	sodium bromide	302,121	0	1
San Luis Obispo	1,3-dichloropropene	242,792	101	2,166
San Luis Obispo	mineral oil	192,282	1,516	47,791
San Mateo	sulfuryl fluoride	47,964	0	0
San Mateo	potassium n-methyldithiocarbamate	41,698	36	456
San Mateo	potassium phosphite	15,885	51	579
San Mateo	1,3-dichloropropene	12,663	11	117
San Mateo	pcnb	10,000	25	346
Santa Barbara	chloropicrin	1,287,488	206	6,701
Santa Barbara	sulfur	977,748	5,653	192,752
Santa Barbara	1,3-dichloropropene	572,342	151	4,404
Santa Barbara	potassium n-methyldithiocarbamate	308,712	31	1,293
Santa Barbara	mineral oil	279,643	2,260	37,962
Santa Clara	sulfuryl fluoride	189,883	0	0

County	Chemical	Pounds Applied	Apps	Acre Treated
Santa Clara	potassium n-methyldithiocarbamate	169,683	41	780
Santa Clara	chloropicrin	65,722	40	482
Santa Clara	1,3-dichloropropene	65,427	39	544
Santa Clara	sulfur	35,204	484	6,114
Santa Cruz	chloropicrin	536,744	157	1,980
Santa Cruz	1,3-dichloropropene	209,614	142	2,535
Santa Cruz	sulfur	55,244	968	12,460
Santa Cruz	lime-sulfur	52,666	214	2,025
Santa Cruz	mineral oil	49,032	516	4,765
Shasta	copper sulfate (pentahydrate)	46,714	41	3,450
Shasta	methylated soybean oil*	37,813	344	12,859
Shasta	methyl bromide	31,978	18	154
Shasta	chloropicrin	29,891	17	187
Shasta	glyphosate, isopropylamine salt	25,678	236	8,606
Sierra	glyphosate, dimethylamine salt	933	10	334
Sierra	borax	859	13	107
Sierra	methylated soybean oil*	411	14	423
Sierra	dazomet	318	0	0
Sierra	disodium octaborate tetrahydrate	260	24	593
Siskiyou	methyl bromide	637,813	165	2,785
Siskiyou	chloropicrin	356,621	165	2,785
Siskiyou	metam-sodium	128,250	20	772
Siskiyou	1,3-dichloropropene	45,102	5	365
Siskiyou	methylated soybean oil*	33,701	645	35,202
Solano	sulfur	538,075	1,549	41,416
Solano	glyphosate, potassium salt	127,296	1,615	74,205
Solano	mineral oil	126,314	392	20,707
Solano	glyphosate, isopropylamine salt	69,901	675	25,384

County	Chemical	Pounds Applied	Apps	Acre Treated
Solano	1,3-dichloropropene	50,294	5	155
Sonoma	sulfur	1,764,756	16,289	258,123
Sonoma	mineral oil	188,163	3,748	43,413
Sonoma	petroleum distillates, refined	88,269	820	15,518
Sonoma	glyphosate, potassium salt	49,855	2,921	33,297
Sonoma	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	34,767	5,994	88,086
Stanislaus	mineral oil	1,934,856	4,386	223,608
Stanislaus	1,3-dichloropropene	1,341,921	260	5,229
Stanislaus	potassium n-methyldithiocarbamate	703,830	2,892	5,777
Stanislaus	sulfur	671,841	1,512	69,901
Stanislaus	glyphosate, isopropylamine salt	344,631	5,423	181,154
Sutter	propanil	384,641	844	72,648
Sutter	mineral oil	366,645	1,534	77,451
Sutter	1,3-dichloropropene	284,536	53	868
Sutter	sulfur	250,471	269	11,954
Sutter	copper sulfate (pentahydrate)	236,749	212	17,602
Tehama	1,3-dichloropropene	214,427	12	646
Tehama	copper hydroxide	191,727	1,460	45,236
Tehama	kaolin	93,778	63	2,759
Tehama	mancozeb	65,520	1,307	37,227
Tehama	methyl bromide	62,283	12	138
Trinity	methylated soybean oil*	6,656	137	3,835
Trinity	glyphosate, dimethylamine salt	5,423	124	3,644
Trinity	oxyfluorfen	3,693	90	2,564
Trinity	imazapyr, isopropylamine salt	1,512	93	3,470
Trinity	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,184	137	3,835
Tulare	mineral oil	5,679,084	19,966	424,955
Tulare	calcium hydroxide	2,890,156	6,785	130,588

County	Chemical	Pounds Applied	Apps	Acre Treated
Tulare	sulfur	2,274,981	10,199	421,496
Tulare	petroleum oil, unclassified	1,368,374	3,564	76,481
Tulare	1,3-dichloropropene	948,243	209	2,947
Tuolumne	glyphosate, dimethylamine salt	8,973	115	2,534
Tuolumne	glyphosate, isopropylamine salt	7,111	72	2,387
Tuolumne	methylated soybean oil*	6,318	157	3,397
Tuolumne	pendimethalin	2,832	0	0
Tuolumne	glyphosate, potassium salt	1,517	0	0
Ventura	chloropicrin	1,662,368	317	9,713
Ventura	mineral oil	1,660,391	5,644	103,934
Ventura	metam-sodium	469,745	59	2,356
Ventura	1,3-dichloropropene	294,863	101	2,493
Ventura	sulfur	164,397	1,924	55,146
Yolo	sulfur	2,517,103	4,279	187,925
Yolo	glyphosate, isopropylamine salt	162,797	1,793	96,120
Yolo	mineral oil	149,807	849	34,437
Yolo	glyphosate, potassium salt	132,339	1,522	68,535
Yolo	kaolin	116,608	85	3,586
Yuba	mineral oil	172,217	729	26,182
Yuba	propanil	131,226	404	25,315
Yuba	1,3-dichloropropene	118,767	12	358
Yuba	copper sulfate (pentahydrate)	81,581	137	5,984
Yuba	copper hydroxide	65,174	470	19,409