

The Top Five Chemicals by Acres Treated 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 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 value in Acre Treated or Apps 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	dimethylpolysiloxane*	25	725	9,091
Alameda	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,834	578	7,940
Alameda	tebuconazole	565	550	5,025
Alameda	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), phosphate ester*	793	585	4,790
Alameda	quinoxifen	424	560	4,451
Alpine	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	28	8	112
Alpine	fatty acids, methyl esters	60	1	70
Alpine	dodecylbenzene sulfonic acid, calcium salt*	0	1	70
Alpine	clethodim	18	1	70
Alpine	imazethapyr, ammonium salt	7	1	70
Amador	sulfur	55,666	643	9,410
Amador	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,357	209	4,228

County	Chemical	Pounds Applied	Apps	Acre Treated
Amador	mineral oil	762	253	3,500
Amador	alpha-pinene beta-pinene copolymer*	844	228	3,262
Amador	dimethylpolysiloxane*	30	189	2,784
Butte	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	67,905	5,600	238,984
Butte	methyated soybean oil*	97,948	3,795	157,383
Butte	dimethylpolysiloxane*	879	2,263	98,722
Butte	azoxystrobin	16,669	1,218	91,258
Butte	mancozeb	142,304	1,905	80,793
Calaveras	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,176	134	2,788
Calaveras	methyated soybean oil*	7,440	87	1,843
Calaveras	sulfur	7,980	184	1,586
Calaveras	mineral oil	1,142	104	1,519
Calaveras	glyphosate, dimethylamine salt	3,947	60	1,012
Colusa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	90,196	4,831	307,644
Colusa	methyated soybean oil*	72,574	3,386	216,312
Colusa	ammonium sulfate	21,901	1,886	107,690
Colusa	azoxystrobin	18,628	1,472	106,767
Colusa	phosphoric acid	4,349	1,524	104,496
Contra Costa	fluridone	5,533	0	39,179
Contra Costa	dimethylpolysiloxane*	32	767	23,299
Contra Costa	polyoxyethylene soybean oil fatty acid ester*	8,992	798	22,543
Contra Costa	tall oil*	1,250	796	22,490
Contra Costa	castor oil ethoxylate*	1,199	796	22,490
Del Norte	copper hydroxide	6,484	679	5,145
Del Norte	chlorothalonil	3,870	615	4,797
Del Norte	copper diammonium diacetate complex	1,529	219	2,023
Del Norte	diuron	1,325	149	1,151

County	Chemical	Pounds Applied	Apps	Acre Treated
Del Norte	iprodione	334	169	1,065
El Dorado	sulfur	25,603	691	6,133
El Dorado	mineral oil	36,615	573	4,315
El Dorado	glyphosate, isopropylamine salt	17,756	348	2,857
El Dorado	oleic acid, methyl ester*	9,826	186	2,399
El Dorado	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,501	200	2,281
Fresno	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	498,723	36,312	2,012,380
Fresno	sulfur	10,210,883	24,471	1,127,289
Fresno	dimethylpolysiloxane*	25,996	18,097	1,001,583
Fresno	abamectin	12,659	10,428	586,871
Fresno	mineral oil	6,029,039	13,695	586,596
Glenn	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	77,128	4,652	258,108
Glenn	methylated soybean oil*	117,123	3,290	170,793
Glenn	dimethylpolysiloxane*	322	1,887	101,110
Glenn	chlorantraniliprole	5,315	1,084	77,612
Glenn	azoxystrobin	12,954	1,138	72,578
Humboldt	imazapyr, isopropylamine salt	5,183	341	11,680
Humboldt	methylated soybean oil*	10,427	220	5,435
Humboldt	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,821	208	4,365
Humboldt	triclopyr, butoxyethyl ester	6,288	134	2,373
Humboldt	clopyralid, monoethanolamine salt	246	49	991
Imperial	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	37,371	8,757	503,478
Imperial	methylated soybean oil*	72,828	5,007	263,615
Imperial	lambda-cyhalothrin	6,613	4,572	233,662
Imperial	n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	8,070	5,221	180,239
Imperial	dimethylpolysiloxane*	579	2,691	167,149

County	Chemical	Pounds Applied	Apps	Acre Treated
Inyo	paraquat dichloride	399	13	783
Inyo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	793	10	587
Inyo	fatty acids, mixed*	57	9	422
Inyo	lecithin*	91	3	390
Inyo	pendimethalin	364	8	385
Kern	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	498,965	14,974	1,105,943
Kern	dimethylpolysiloxane*	30,000	11,726	864,545
Kern	sulfur	4,599,018	12,328	785,163
Kern	glyphosate, potassium salt	954,660	9,509	511,515
Kern	mineral oil	5,356,288	8,156	506,131
Kings	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	142,154	10,134	1,022,822
Kings	lecithin*	62,447	4,715	587,433
Kings	fatty acids, mixed*	11,473	3,787	491,914
Kings	dimethylpolysiloxane*	9,339	5,138	375,285
Kings	propionic acid	22,356	2,446	365,917
Lake	sulfur	302,884	1,730	38,510
Lake	oxytetracycline hydrochloride	1,553	642	14,140
Lake	oxytetracycline hydrochloride, other related	14	642	14,140
Lake	mineral oil	222,035	806	13,257
Lake	streptomycin sulfate	711	516	11,714
Lassen	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	900	138	6,155
Lassen	methyated soybean oil*	3,563	121	5,787
Lassen	glyphosate, isopropylamine salt	5,151	61	2,907
Lassen	2,4-d, dimethylamine salt	3,258	51	2,901
Lassen	hexazinone	6,372	51	2,841
Los Angeles	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	18,500	369	6,694
Los Angeles	azoxystrobin	1,134	223	5,349

County	Chemical	Pounds Applied	Apps	Acre Treated
Los Angeles	tall oil fatty acids*	584	62	4,938
Los Angeles	imidacloprid	12,644	479	4,851
Los Angeles	mefenoxam	1,699	249	4,838
Madera	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	195,571	9,749	613,562
Madera	sulfur	3,263,090	6,436	405,218
Madera	dimethylpolysiloxane*	8,313	5,241	359,335
Madera	methylated soybean oil*	147,401	4,053	257,746
Madera	glyphosate, potassium salt	447,648	5,203	230,425
Marin	sulfur	2,888	70	504
Marin	mineral oil	2,823	67	384
Marin	copper oxychloride	253	49	262
Marin	copper hydroxide	276	49	262
Marin	clopyralid, monoethanolamine salt	80	4	220
Mariposa	glyphosate, isopropylamine salt	1,684	50	334
Mariposa	triclopyr, triethylamine salt	428	7	266
Mariposa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	107	7	212
Mariposa	methylated soybean oil*	648	4	205
Mariposa	diphacinone	0	14	126
Mendocino	sulfur	457,000	3,436	65,063
Mendocino	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,286	498	12,964
Mendocino	polyether modified polysiloxane*	4,549	434	11,686
Mendocino	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	1,447	541	10,333
Mendocino	imazapyr, isopropylamine salt	5,740	239	8,454
Merced	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	107,311	15,383	797,382
Merced	methylated soybean oil*	197,603	6,137	369,511
Merced	dimethylpolysiloxane*	9,870	5,826	280,937
Merced	glyphosate, potassium salt	446,919	5,263	240,775

County	Chemical	Pounds Applied	Apps	Acre Treated
Merced	citric acid	6,917	4,212	222,009
Modoc	methylated soybean oil*	19,599	892	56,209
Modoc	benzoic acid*	224	799	48,577
Modoc	dimethyl alkyl tertiary amines*	245	799	48,577
Modoc	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,274	373	28,722
Modoc	citric acid	256	344	24,010
Mono	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	317	64	4,824
Mono	lecithin*	841	47	4,305
Mono	fatty acids, mixed*	36	41	3,738
Mono	propionic acid	576	37	3,366
Mono	paraquat dichloride	1,307	29	2,564
Monterey	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	51,090	24,278	381,215
Monterey	methylated soybean oil*	90,801	21,712	282,833
Monterey	dimethylpolysiloxane*	67,993	13,249	261,096
Monterey	sulfur	1,167,477	11,086	245,788
Monterey	lecithin*	83,269	19,072	243,062
Napa	sulfur	1,008,569	18,350	179,494
Napa	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	24,062	12,917	99,110
Napa	mineral oil	132,824	5,032	39,171
Napa	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	4,177	5,974	37,425
Napa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,625	2,536	33,403
Nevada	sulfur	17,420	145	2,019
Nevada	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	566	59	1,661
Nevada	dimethylpolysiloxane*	1	28	871
Nevada	methylated soybean oil*	2,773	25	769
Nevada	butyl alcohol*	10	23	745
Orange	glyphosate, isopropylamine salt	200,320	889	3,705

County	Chemical	Pounds Applied	Apps	Acre Treated
Orange	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	8,593	362	1,975
Orange	mineral oil	97,979	255	1,726
Orange	lecithin*	444	230	1,592
Orange	polyoxyethylene polyoxypropylene*	384	79	1,591
Placer	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,795	415	9,627
Placer	triclopyr, triethylamine salt	2,191	137	7,951
Placer	dimethylpolysiloxane*	58	344	7,699
Placer	propanil	38,405	130	7,128
Placer	ammonium sulfate	12,349	116	7,108
Plumas	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,551	97	5,479
Plumas	methylated soybean oil*	8,581	92	4,094
Plumas	glyphosate, dimethylamine salt	6,785	68	3,251
Plumas	dodecylbenzene sulfonic acid, calcium salt*	4	12	1,445
Plumas	canola oil	8	12	1,445
Riverside	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	13,568	4,211	163,787
Riverside	citric acid	2,957	3,180	113,970
Riverside	glyphosate, isopropylamine salt	232,914	5,051	105,941
Riverside	methylated soybean oil*	29,139	2,448	87,067
Riverside	alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate*	3,164	1,787	84,040
Sacramento	sulfur	3,398,350	4,094	265,141
Sacramento	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	18,724	2,619	94,921
Sacramento	mineral oil	643,943	1,020	44,634
Sacramento	tall oil fatty acids*	1,260	971	37,907
Sacramento	ammonium sulfate	10,022	1,082	37,798
San Benito	dimethyl silicone fluid emulsion*	580	6,585	33,988
San Benito	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,073	2,355	27,702
San Benito	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	1,475	3,795	22,274

County	Chemical	Pounds Applied	Apps	Acre Treated
San Benito	dimethylpolysiloxane*	1,401	1,433	21,529
San Benito	imidacloprid	2,049	2,369	18,896
San Bernardino	glyphosate, potassium salt	18,993	551	74,406
San Bernardino	glyphosate, isopropylamine salt	62,997	570	6,664
San Bernardino	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,422	305	4,261
San Bernardino	spirotetramat	278	647	2,285
San Bernardino	dimethoate	1,096	22	2,192
San Diego	glyphosate, potassium salt	32,830	2,285	30,080
San Diego	glyphosate, isopropylamine salt	121,011	5,484	20,156
San Diego	strychnine	56	347	17,050
San Diego	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	4,633	2,675	16,138
San Diego	mineral oil	230,951	1,756	15,640
San Francisco	trinexapac-ethyl	125	0	1,420
San Francisco	carfentrazone-ethyl	10	0	336
San Francisco	mecoprop-p	44	0	324
San Francisco	dicamba	11	0	324
San Francisco	2,4-d, 2-ethylhexyl ester	183	0	324
San Joaquin	sulfur	7,088,105	13,351	557,180
San Joaquin	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	92,887	13,702	459,013
San Joaquin	dimethylpolysiloxane*	2,672	7,661	278,518
San Joaquin	abamectin	4,810	6,231	239,757
San Joaquin	methylated soybean oil*	97,842	6,307	202,396

County	Chemical	Pounds Applied	Apps	Acre Treated
San Luis Obispo	sulfur	648,831	3,993	172,638
San Luis Obispo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	25,971	3,858	123,614
San Luis Obispo	dimethylpolysiloxane*	4,333	5,126	117,852
San Luis Obispo	diethylene glycol*	8,755	1,178	51,501
San Luis Obispo	n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	3,511	4,755	49,906
San Mateo	lecithin*	678	223	2,269
San Mateo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,908	212	1,465
San Mateo	spirotetramat	108	157	1,379
San Mateo	lambda-cyhalothrin	67	134	1,333
San Mateo	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	320	190	1,228
Santa Barbara	dimethylpolysiloxane*	5,892	10,682	203,544
Santa Barbara	sulfur	977,748	5,653	192,752
Santa Barbara	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	32,679	7,262	141,490
Santa Barbara	propylene glycol	8,576	6,384	138,642
Santa Barbara	alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)*	27,930	6,281	134,843
Santa Clara	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	12,775	1,405	18,902
Santa Clara	dimethylpolysiloxane*	1,070	850	13,545
Santa Clara	spinetoram	480	783	9,740
Santa Clara	methylated soybean oil*	2,598	820	9,568
Santa Clara	lambda-cyhalothrin	612	926	9,413
Santa Cruz	dimethylpolysiloxane*	6,230	2,240	21,152
Santa Cruz	sulfur	55,244	968	12,460
Santa Cruz	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	1,979	1,204	11,479

County	Chemical	Pounds Applied	Apps	Acre Treated
Santa Cruz	lecithin*	4,494	686	11,474
Santa Cruz	methylated soybean oil*	3,028	627	11,370
Shasta	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,642	507	17,344
Shasta	methylated soybean oil*	37,813	344	12,859
Shasta	glyphosate, isopropylamine salt	25,678	236	8,606
Shasta	glyphosate, dimethylamine salt	20,224	248	8,194
Shasta	imazapyr, isopropylamine salt	3,306	185	5,575
Sierra	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	77	14	923
Sierra	disodium octaborate tetrahydrate	260	24	593
Sierra	triclopyr, triethylamine salt	36	4	589
Sierra	aminopyralid, triisopropanolamine salt	26	2	579
Sierra	fatty acids derived from tallow*	0	0	500
Siskiyou	methylated soybean oil*	33,701	645	35,202
Siskiyou	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,973	710	31,106
Siskiyou	benzoic acid*	109	398	23,349
Siskiyou	dimethyl alkyl tertiary amines*	119	398	23,349
Siskiyou	butyl lactate*	313	205	14,450
Solano	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	19,519	2,469	105,740
Solano	methylated soybean oil*	39,051	2,098	99,877
Solano	glyphosate, potassium salt	127,296	1,615	74,205
Solano	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	4,625	1,573	72,045
Solano	ammonium sulfate	14,535	1,591	71,679
Sonoma	sulfur	1,764,756	16,289	258,123
Sonoma	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	25,273	8,579	88,521
Sonoma	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	34,767	5,994	88,086
Sonoma	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	8,796	5,627	74,178
Sonoma	dimethylpolysiloxane*	164	4,185	62,572

County	Chemical	Pounds Applied	Apps	Acre Treated
Stanislaus	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	115,590	20,032	389,787
Stanislaus	methylated soybean oil*	143,233	5,852	234,549
Stanislaus	mineral oil	1,934,856	4,386	223,608
Stanislaus	abamectin	5,213	4,445	220,479
Stanislaus	dimethylpolysiloxane*	6,473	5,874	218,582
Sutter	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	67,223	3,919	172,650
Sutter	dimethylpolysiloxane*	364	2,582	115,851
Sutter	ammonium sulfate	30,667	2,011	97,485
Sutter	mineral oil	366,645	1,534	77,451
Sutter	triclopyr, triethylamine salt	18,215	827	76,774
Tehama	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	22,041	1,954	73,997
Tehama	methylated soybean oil*	43,251	1,278	46,956
Tehama	dimethylpolysiloxane*	310	1,766	45,430
Tehama	copper hydroxide	191,727	1,460	45,236
Tehama	mancozeb	65,520	1,307	37,227
Trinity	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,184	137	3,835
Trinity	methylated soybean oil*	6,656	137	3,835
Trinity	glyphosate, dimethylamine salt	5,423	124	3,644
Trinity	imazapyr, isopropylamine salt	1,512	93	3,470
Trinity	clopyralid, monoethanolamine salt	662	98	2,712
Tulare	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	136,985	23,227	714,798
Tulare	dimethylpolysiloxane*	19,056	14,018	447,815
Tulare	mineral oil	5,679,084	19,966	424,955
Tulare	sulfur	2,274,981	10,199	421,496
Tulare	glyphosate, potassium salt	516,046	11,262	314,133
Tuolumne	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,434	152	3,490
Tuolumne	methylated soybean oil*	6,318	157	3,397

County	Chemical	Pounds Applied	Apps	Acre Treated
Tuolumne	glyphosate, dimethylamine salt	8,973	115	2,534
Tuolumne	glyphosate, isopropylamine salt	7,111	72	2,387
Tuolumne	ammonium sulfate	199	94	1,845
Ventura	mineral oil	1,660,391	5,644	103,934
Ventura	dimethylpolysiloxane*	8,184	5,014	96,840
Ventura	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	18,478	5,837	86,846
Ventura	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	18,798	5,207	81,042
Ventura	captan	135,751	1,631	74,144
Yolo	sulfur	2,517,103	4,279	187,925
Yolo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	34,098	3,502	187,583
Yolo	methylated soybean oil*	58,883	2,428	143,801
Yolo	ammonium sulfate	30,043	2,457	122,688
Yolo	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	8,993	2,424	112,439
Yuba	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	15,686	1,090	38,126
Yuba	lambda-cyhalothrin	932	689	29,464
Yuba	mineral oil	172,217	729	26,182
Yuba	propanil	131,226	404	25,315
Yuba	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	2,807	525	22,972