

The Top Five Chemicals by Acres Treated in each County 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.

County	Chemical	Pounds Applied	Apps	Acre Treated
Alameda	sulfur	14,849	554	5,491
Alameda	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,433	517	5,024
Alameda	dimethylpolysiloxane*	18	441	4,157
Alameda	mineral oil	19,112	1,617	4,067
Alameda	diethylene glycol*	1,140	203	2,827
Alpine	fatty acids, methyl esters	80	1	70
Alpine	corn syrup*	44	1	70
Alpine	saflufenacil	3	1	70
Alpine	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	19	1	70
Alpine	alkyl (c8,c10) polyglucoside*	16	1	70
Amador	sulfur	64,358	698	9,256

County	Chemical	Pounds Applied	Apps	Acre Treated
Amador	alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	382	258	4,020
Amador	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,811	174	3,980
Amador	mineral oil	8,667	274	3,387
Amador	glyphosate, isopropylamine salt	7,779	198	2,052
Butte	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	62,359	5,150	244,440
Butte	methylated soybean oil*	111,429	3,373	137,078
Butte	dimethylpolysiloxane*	1,257	2,772	124,035
Butte	azoxystrobin	20,961	1,410	106,589
Butte	propanil	420,307	1,174	94,356
Calaveras	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,426	289	4,371
Calaveras	methylated soybean oil*	12,278	234	3,793
Calaveras	glyphosate, isopropylamine salt	9,340	129	1,681
Calaveras	sulfur	8,138	138	1,659
Calaveras	glyphosate, dimethylamine salt	5,219	128	1,528
Colusa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	33,708	3,738	240,809
Colusa	ammonium sulfate	39,538	2,624	153,735
Colusa	phosphoric acid	6,275	2,220	142,047
Colusa	methylated soybean oil*	87,275	2,288	131,761
Colusa	citric acid	3,368	2,182	128,174
Contra Costa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,401	1,220	35,594
Contra Costa	polyethylene glycol*	1,761	988	25,879
Contra Costa	tall oil fatty acids*	719	843	24,015
Contra Costa	citric acid	2,121	860	21,249

County	Chemical	Pounds Applied	Apps	Acre Treated
Contra Costa	dimethylpolysiloxane*	39	832	20,659
Del Norte	copper hydroxide	7,854	574	4,798
Del Norte	chlorothalonil	2,080	265	2,499
Del Norte	imazapyr, isopropylamine salt	708	48	1,283
Del Norte	methylated soybean oil*	1,148	41	1,158
Del Norte	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched*	2,830	33	900
El Dorado	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	8,810	842	9,324
El Dorado	methylated soybean oil*	43,949	658	7,833
El Dorado	clopyralid, monoethanolamine salt	3,077	434	7,475
El Dorado	sulfur	18,466	606	5,087
El Dorado	glyphosate, dimethylamine salt	25,358	359	4,566
Fresno	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	316,171	25,856	1,264,548
Fresno	sulfur	7,711,513	18,840	874,237
Fresno	mineral oil	7,554,959	19,764	815,632
Fresno	dimethylpolysiloxane*	36,990	16,226	803,739
Fresno	methylated soybean oil*	301,211	11,088	543,317
Glenn	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	55,944	3,429	176,507
Glenn	methylated soybean oil*	94,103	2,922	132,224
Glenn	dimethylpolysiloxane*	1,033	2,485	121,554
Glenn	chlorantraniliprole	6,441	1,334	88,117
Glenn	ammonium sulfate	36,247	2,224	83,178
Humboldt	methylated soybean oil*	12,536	319	6,997
Humboldt	imazapyr, isopropylamine salt	4,203	361	6,883
Humboldt	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,187	128	2,869

County	Chemical	Pounds Applied	Apps	Acre Treated
Humboldt	pyraclostrobin	53	71	2,676
Humboldt	iprodione	436	320	2,574
Imperial	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	23,884	7,209	391,611
Imperial	mineral oil	581,483	5,497	296,509
Imperial	lambda-cyhalothrin	7,182	5,137	253,722
Imperial	methylated soybean oil*	56,048	4,391	224,423
Imperial	pendimethalin	336,274	2,715	178,465
Inyo	hexazinone	167	10	471
Inyo	glyphosate, isopropylamine salt	2,377	10	434
Inyo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	232	13	403
Inyo	tall oil fatty acids*	1,410	11	401
Inyo	trinexapac-ethyl	50	<0.01	313
Kern	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	355,123	15,761	964,369
Kern	dimethylpolysiloxane*	26,197	12,646	751,873
Kern	sulfur	4,168,823	11,929	719,433
Kern	mineral oil	7,436,228	12,624	639,568
Kern	glyphosate, potassium salt	773,833	8,097	372,621
Kings	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	120,806	8,308	762,231
Kings	fatty acids, mixed*	13,887	2,849	399,378
Kings	lecithin*	44,539	3,538	392,669
Kings	propionic acid	15,609	1,703	282,791
Kings	polyacrylamide polymer*	5,517	2,783	274,211
Lake	sulfur	244,101	1,034	33,049
Lake	mineral oil	191,874	547	16,779

County	Chemical	Pounds Applied	Apps	Acre Treated
Lake	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,000	382	14,235
Lake	tall oil fatty acids*	1,518	302	11,283
Lake	polyethylene glycol*	1,399	273	10,732
Lassen	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,983	301	20,516
Lassen	ammonium sulfate	1,669	130	11,486
Lassen	citric acid	101	111	10,762
Lassen	phosphoric acid	330	105	10,487
Lassen	polyacrylic polymer*	30	105	10,487
Los Angeles	sulfur	14,697	121	4,651
Los Angeles	mefenoxam	1,204	169	4,009
Los Angeles	imidacloprid	22,546	507	3,691
Los Angeles	azoxystrobin	1,125	164	3,481
Los Angeles	cyazofamid	660	47	3,411
Madera	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	86,265	8,403	479,814
Madera	mineral oil	2,771,659	5,852	348,239
Madera	sulfur	2,862,517	5,312	336,475
Madera	dimethylpolysiloxane*	8,022	5,282	321,002
Madera	methylated soybean oil*	154,659	4,578	242,473
Marin	sulfur	2,878	59	458
Marin	clopyralid, monoethanolamine salt	64	6	435
Marin	mineral oil	2,757	49	220
Marin	2,4-d, dimethylamine salt	88	5	155
Marin	copper hydroxide	137	34	137
Mariposa	diphacinone	0	7	1,217
Mariposa	glyphosate, isopropylamine salt	2,422	45	185

County	Chemical	Pounds Applied	Apps	Acre Treated
Mariposa	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	16	14	148
Mariposa	oxyfluorfen	489	18	147
Mariposa	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	26	12	138
Mendocino	sulfur	386,701	2,280	58,215
Mendocino	mineral oil	122,474	476	12,529
Mendocino	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	2,386	431	10,740
Mendocino	copper hydroxide	3,512	284	7,695
Mendocino	alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	988	317	7,427
Merced	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	83,645	13,213	627,342
Merced	methylated soybean oil*	174,674	5,794	281,646
Merced	glyphosate, potassium salt	460,413	5,495	248,089
Merced	mineral oil	1,319,278	4,769	247,489
Merced	dimethylpolysiloxane*	8,617	4,846	233,299
Modoc	methylated soybean oil*	14,880	637	43,730
Modoc	benzoic acid*	119	465	32,259
Modoc	dimethyl alkyl tertiary amines*	130	465	32,259
Modoc	butyl lactate*	622	367	25,733
Modoc	polyoxyethylene sorbitan monolaurate*	3,000	288	19,694
Mono	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	201	35	2,154
Mono	polyethylene glycol*	42	27	1,771
Mono	tall oil fatty acids*	42	27	1,771
Mono	diuron	1,793	20	1,211
Mono	paraquat dichloride	531	17	1,021

County	Chemical	Pounds Applied	Apps	Acre Treated
Monterey	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	45,680	24,781	383,217
Monterey	methylated soybean oil*	85,976	23,471	289,888
Monterey	spinetoram	14,077	25,782	255,944
Monterey	spirotetramat	20,003	21,632	246,042
Monterey	lecithin*	85,019	20,177	243,323
Napa	sulfur	715,586	8,611	134,015
Napa	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	19,256	6,784	93,894
Napa	mineral oil	150,545	2,352	39,280
Napa	lavandulyl senecioate	350	1,372	26,135
Napa	quinoxifen	1,977	1,237	20,133
Nevada	sulfur	16,902	76	1,576
Nevada	methylated soybean oil*	2,749	33	1,192
Nevada	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	699	42	1,072
Nevada	imazapyr, isopropylamine salt	461	30	869
Nevada	glyphosate, isopropylamine salt	5,747	33	803
Orange	acephate	1,758	95	2,680
Orange	tau-fluvalinate	34	55	2,637
Orange	bifenazate	87	45	2,119
Orange	citric acid	304	43	2,107
Orange	polyoxyethylene polyol fatty acid esters*	31	38	1,977
Placer	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	5,421	588	18,082
Placer	mineral oil	24,600	303	10,959
Placer	methylated soybean oil*	14,174	238	10,393
Placer	propanil	39,854	160	8,061
Placer	ammonium sulfate	1,356	123	7,791

County	Chemical	Pounds Applied	Apps	Acre Treated
Plumas	glyphosate, dimethylamine salt	20,001	124	5,932
Plumas	imazapyr, isopropylamine salt	5,071	112	5,837
Plumas	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,259	42	4,998
Plumas	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	2,838	91	4,000
Plumas	oleic acid, methyl ester*	13,202	91	4,000
Riverside	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	11,496	4,424	150,923
Riverside	citric acid	1,015	3,442	112,315
Riverside	methylated soybean oil*	36,650	3,256	110,691
Riverside	polyalkene oxide modified heptamethyl trisiloxane*	1,228	2,623	88,134
Riverside	glyphosate, potassium salt	144,461	3,057	84,608
Sacramento	sulfur	2,631,392	3,638	212,804
Sacramento	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	15,809	2,355	88,095
Sacramento	mineral oil	649,961	3,723	70,595
Sacramento	methylated soybean oil*	20,780	2,068	68,102
Sacramento	ammonium sulfate	18,084	1,641	46,230
San Benito	dimethyl silicone fluid emulsion*	123	5,327	27,283
San Benito	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,496	2,256	26,464
San Benito	dimethylpolysiloxane*	969	1,404	21,680
San Benito	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	1,081	2,168	17,226
San Benito	mineral oil	54,421	1,382	16,599
San Bernardino	glyphosate, potassium salt	14,063	303	66,058
San Bernardino	glyphosate, isopropylamine salt	71,905	410	4,817

County	Chemical	Pounds Applied	Apps	Acre Treated
San Bernardino	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,558	156	3,198
San Bernardino	flurprimidol	44	<0.01	2,750
San Bernardino	ammonium sulfate	839	89	1,845
San Diego	diphacinone	17	1,058	37,079
San Diego	strychnine	55	305	20,834
San Diego	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	4,933	3,084	19,953
San Diego	mineral oil	251,689	1,832	17,534
San Diego	glyphosate, isopropylamine salt	120,933	5,102	16,156
San Francisco	trinexapac-ethyl	156	<0.01	1,967
San Francisco	chlorothalonil	3,322	<0.01	552
San Francisco	paclobutrazol	64	<0.01	357
San Francisco	thiophanate-methyl	633	<0.01	354
San Francisco	propiconazole	158	<0.01	316
San Joaquin	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	118,364	13,684	487,136
San Joaquin	sulfur	5,957,230	11,417	476,557
San Joaquin	dimethylpolysiloxane*	3,479	8,873	294,541
San Joaquin	methylated soybean oil*	128,916	8,693	276,434
San Joaquin	abamectin	4,853	6,606	250,303
San Luis Obispo	sulfur	648,515	3,567	142,572
San Luis Obispo	dimethylpolysiloxane*	2,218	3,640	95,836
San Luis Obispo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	13,670	4,245	91,244
San Luis Obispo	mineral oil	320,887	2,108	60,027
San Luis Obispo	propylene glycol	2,837	2,555	49,912
San Mateo	methylated soybean oil*	467	83	1,404
San Mateo	lecithin*	426	102	1,157

County	Chemical	Pounds Applied	Apps	Acre Treated
San Mateo	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	211	79	1,108
San Mateo	lambda-cyhalothrin	48	105	1,056
San Mateo	spinetoram	45	95	929
Santa Barbara	dimethylpolysiloxane*	10,151	10,290	199,666
Santa Barbara	sulfur	1,084,203	4,313	186,512
Santa Barbara	propylene glycol	10,017	6,465	148,045
Santa Barbara	polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether*	18,846	5,070	136,726
Santa Barbara	alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)*	34,270	5,008	135,834
Santa Clara	dimethylpolysiloxane*	763	1,233	21,018
Santa Clara	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,936	1,017	18,053
Santa Clara	lambda-cyhalothrin	826	854	11,142
Santa Clara	propylene glycol	685	874	9,601
Santa Clara	methylated soybean oil*	3,898	871	9,578
Santa Cruz	dimethylpolysiloxane*	6,211	1,600	24,694
Santa Cruz	polyoxyethylene polyoxypropylene*	3,195	795	10,292
Santa Cruz	azadirachtin	308	1,187	8,735
Santa Cruz	spinetoram	621	650	8,690
Santa Cruz	phosphoric acid	155	578	8,560
Shasta	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,100	644	17,581
Shasta	methylated soybean oil*	36,062	470	14,113
Shasta	glyphosate, dimethylamine salt	25,481	383	13,483
Shasta	oxyfluorfen	9,116	172	7,434
Shasta	clopyralid, monoethanolamine salt	1,410	114	6,464
Sierra	hexazinone	228	6	493
Sierra	methylated soybean oil*	608	10	297

County	Chemical	Pounds Applied	Apps	Acre Treated
Sierra	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	117	10	297
Sierra	glyphosate, isopropylamine salt	508	10	286
Sierra	imazapyr, isopropylamine salt	120	5	189
Siskiyou	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,041	595	28,240
Siskiyou	methylated soybean oil*	16,056	455	20,676
Siskiyou	benzoic acid*	42	195	12,933
Siskiyou	dimethyl alkyl tertiary amines*	46	195	12,933
Siskiyou	butyl lactate*	473	208	12,884
Solano	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	13,361	2,011	81,668
Solano	methylated soybean oil*	27,744	1,948	78,520
Solano	ammonium sulfate	14,857	1,380	57,024
Solano	dimethylpolysiloxane*	881	1,678	50,511
Solano	glyphosate, potassium salt	92,325	1,254	49,914
Sonoma	sulfur	1,575,336	10,662	232,786
Sonoma	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	22,430	4,248	88,863
Sonoma	mineral oil	278,595	2,894	52,840
Sonoma	alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	4,416	2,193	38,603
Sonoma	dimethylpolysiloxane*	708	2,062	37,610
Stanislaus	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	59,585	11,255	334,384
Stanislaus	methylated soybean oil*	140,419	6,682	223,350
Stanislaus	mineral oil	1,616,956	4,513	223,331
Stanislaus	abamectin	4,089	4,207	210,451
Stanislaus	oxyfluorfen	69,272	5,890	205,229

County	Chemical	Pounds Applied	Apps	Acre Treated
Sutter	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	35,329	3,481	153,420
Sutter	mineral oil	392,995	2,239	105,500
Sutter	ammonium sulfate	31,644	2,164	90,958
Sutter	methylated soybean oil*	53,100	1,839	82,980
Sutter	propanil	403,665	931	80,491
Tehama	dimethylpolysiloxane*	1,517	3,671	92,327
Tehama	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	24,608	1,576	60,316
Tehama	ammonium sulfate	11,199	2,298	44,576
Tehama	dimethyl silicone fluid emulsion*	525	1,696	40,671
Tehama	copper hydroxide	153,295	1,162	39,210
Trinity	glyphosate, dimethylamine salt	4,944	71	4,272
Trinity	clopyralid, monoethanolamine salt	830	47	3,489
Trinity	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,146	88	3,138
Trinity	methylated soybean oil*	12,069	88	3,138
Trinity	oxyfluorfen	4,418	31	3,055
Tulare	mineral oil	6,926,969	30,146	667,202
Tulare	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	128,851	16,809	581,736
Tulare	dimethylpolysiloxane*	28,622	14,497	458,715
Tulare	sulfur	1,937,348	8,946	356,526
Tulare	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	53,170	8,518	283,857
Tuolumne	glyphosate, isopropylamine salt	26,885	81	8,113
Tuolumne	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,930	112	3,843
Tuolumne	aminopyralid, triisopropanolamine salt	480	85	3,435
Tuolumne	triclopyr, triethylamine salt	1,515	13	2,446

County	Chemical	Pounds Applied	Apps	Acre Treated
Tuolumne	fatty acids, methyl esters	1,690	<0.01	2,330
Ventura	mineral oil	1,657,976	7,382	124,550
Ventura	dimethylpolysiloxane*	11,234	6,134	121,887
Ventura	polyoxyethylene polyoxypropylene*	29,343	6,963	121,632
Ventura	captan	118,686	1,805	72,782
Ventura	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	14,278	4,950	70,972
Yolo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	33,934	3,607	187,916
Yolo	sulfur	1,948,715	3,494	144,536
Yolo	methylated soybean oil*	55,906	2,352	121,157
Yolo	ammonium sulfate	37,073	2,198	105,494
Yolo	citric acid	4,946	1,379	70,132
Yuba	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	22,928	1,113	47,325
Yuba	mineral oil	166,952	1,125	39,063
Yuba	lambda-cyhalothrin	1,037	752	32,107
Yuba	dimethylpolysiloxane*	108	747	31,617
Yuba	propanil	156,964	484	30,433