

The Top Five Chemicals by Acres Treated in each County in 2020

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 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	sulfur	26,720	517	6,107
Alameda	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,844	408	5,320
Alameda	dimethylpolysiloxane*	11	402	4,802
Alameda	diethylene glycol*	1,018	247	3,642
Alameda	tebuconazole	419	293	3,182
Alpine	canola oil	1	2	140
Alpine	imazethapyr, ammonium salt	14	2	140
Alpine	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	33	2	140
Alpine	fatty acids, methyl esters	120	2	140
Alpine	dodecylbenzene sulfonic acid, calcium salt*	0	2	140
Amador	sulfur	75,388	925	10,671
Amador	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,626	237	4,062
Amador	mineral oil	4,657	231	4,046
Amador	alpha-pinene beta-pinene copolymer*	399	164	3,236
Amador	tall oil fatty acids*	80	105	3,192
Butte	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	61,617	5,612	247,773
Butte	methylated soybean oil*	81,332	3,609	143,102
Butte	dimethylpolysiloxane*	1,906	2,882	132,491
Butte	mineral oil	272,443	1,853	114,373

County	Chemical	Pounds Applied	Apps	Acre Treated
Butte	azoxystrobin	20,311	1,363	108,495
Calaveras	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,925	316	7,552
Calaveras	methylated soybean oil*	11,025	211	6,548
Calaveras	dimethylpolysiloxane*	2	64	3,957
Calaveras	clopyralid, monoethanolamine salt	517	19	3,063
Calaveras	glyphosate, dimethylamine salt	9,681	170	2,678
Colusa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	29,527	3,428	183,412
Colusa	methylated soybean oil*	100,978	3,337	179,345
Colusa	ammonium sulfate	30,985	2,395	131,547
Colusa	phosphoric acid	5,582	2,259	131,016
Colusa	azoxystrobin	21,974	1,744	122,621
Contra Costa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,506	1,393	37,554
Contra Costa	polyethylene glycol*	1,555	1,142	26,429
Contra Costa	tall oil fatty acids*	752	1,076	25,144
Contra Costa	citric acid	1,505	933	22,653
Contra Costa	calcium chloride	514	908	21,052
Del Norte	copper hydroxide	10,681	865	7,147
Del Norte	chlorothalonil	3,208	461	4,090
Del Norte	iprodione	599	201	1,719
Del Norte	imidacloprid	121	194	1,267
Del Norte	copper oxychloride	431	135	1,146
El Dorado	glyphosate, dimethylamine salt	36,818	465	6,575
El Dorado	sulfur	21,456	677	5,809
El Dorado	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,425	558	5,796
El Dorado	clopyralid, monoethanolamine salt	5,221	417	5,506
El Dorado	methylated soybean oil*	32,732	331	5,311
Fresno	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	361,143	31,730	1,583,764
Fresno	sulfur	10,089,788	23,238	1,087,514
Fresno	mineral oil	10,025,972	23,611	1,051,379
Fresno	dimethylpolysiloxane*	28,485	18,069	926,979
Fresno	methylated soybean oil*	366,034	12,178	635,904

County	Chemical	Pounds Applied	Apps	Acre Treated
Glenn	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	51,539	3,781	194,388
Glenn	methylated soybean oil*	90,265	3,099	144,225
Glenn	dimethylpolysiloxane*	861	2,718	134,611
Glenn	azoxystrobin	19,658	1,563	103,951
Glenn	chlorantraniliprole	6,925	1,293	93,701
Humboldt	iprodione	333	365	26,594
Humboldt	captan	250	90	26,181
Humboldt	pyraclostrobin	65	77	26,167
Humboldt	captan, other related	4	73	24,213
Humboldt	methylated soybean oil*	10,274	201	4,694
Imperial	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	27,747	8,228	457,183
Imperial	lambda-cyhalothrin	8,058	5,238	282,581
Imperial	mineral oil	697,697	4,319	252,275
Imperial	methylated soybean oil*	72,226	4,752	240,629
Imperial	n,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	6,852	4,568	168,937
Inyo	diphacinone	0	2	1,110
Inyo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	658	19	973
Inyo	tall oil fatty acids*	3,345	14	780
Inyo	paraquat dichloride	370	13	720
Inyo	hexazinone	259	13	720
Kern	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	450,048	17,274	1,154,280
Kern	dimethylpolysiloxane*	41,553	13,625	850,494
Kern	sulfur	5,378,757	13,887	844,334
Kern	mineral oil	8,551,242	12,680	722,753
Kern	glyphosate, potassium salt	1,010,888	10,339	500,891
Kings	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	144,246	9,980	1,041,698
Kings	lecithin*	55,401	4,637	625,512
Kings	fatty acids, mixed*	13,805	3,731	559,326
Kings	polyacrylamide polymer*	5,068	4,137	547,923
Kings	propionic acid	19,905	2,400	456,289
Lake	sulfur	397,782	1,398	46,850
Lake	mineral oil	217,398	710	22,679

County	Chemical	Pounds Applied	Apps	Acre Treated
Lake	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,149	468	15,286
Lake	tall oil fatty acids*	1,574	383	12,022
Lake	polyethylene glycol*	1,414	328	11,357
Lassen	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,545	288	18,390
Lassen	methylated soybean oil*	4,803	152	8,914
Lassen	metribuzin	3,208	83	7,650
Lassen	paraquat dichloride	4,311	78	7,551
Lassen	mineral oil	979	67	6,658
Los Angeles	sulfur	27,081	140	5,516
Los Angeles	azoxystrobin	1,134	183	4,686
Los Angeles	imidacloprid	7,186	478	4,175
Los Angeles	mefenoxam	1,531	170	4,068
Los Angeles	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	12,481	458	2,140
Madera	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	123,747	10,277	615,669
Madera	dimethylpolysiloxane*	14,171	6,483	428,510
Madera	sulfur	3,311,411	6,584	398,426
Madera	mineral oil	3,370,357	6,435	357,340
Madera	methylated soybean oil*	196,647	4,874	300,660
Marin	sulfur	3,684	91	578
Marin	mineral oil	4,375	38	313
Marin	aminopyralid, triisopropanolamine salt	139	7	289
Marin	copper oxide (ous)	390	18	208
Marin	clopyralid, monoethanolamine salt	62	10	185
Mariposa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	512	47	1,062
Mariposa	methylated soybean oil*	4,133	40	1,057
Mariposa	triclopyr, triethylamine salt	1,154	39	799
Mariposa	glyphosate, isopropylamine salt	4,013	83	784
Mariposa	oxyfluorfen	596	35	559
Mendocino	sulfur	485,612	2,645	66,866
Mendocino	mineral oil	162,368	767	15,465
Mendocino	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	1,596	397	9,988
Mendocino	copper hydroxide	4,347	352	9,200
Mendocino	alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	885	446	7,798
Merced	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	114,756	14,301	712,314
Merced	methylated soybean oil*	194,919	6,440	350,079

County	Chemical	Pounds Applied	Apps	Acre Treated
Merced	mineral oil	1,580,136	5,403	279,151
Merced	dimethylpolysiloxane*	9,065	5,644	276,145
Merced	glyphosate, potassium salt	485,403	5,799	266,375
Modoc	methylated soybean oil*	24,100	1,208	70,806
Modoc	benzoic acid*	171	651	42,074
Modoc	dimethyl alkyl tertiary amines*	186	651	42,074
Modoc	butyl lactate*	689	615	40,405
Modoc	polyoxyethylene polyol fatty acid esters*	901	368	24,636
Mono	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	284	45	2,781
Mono	polyethylene glycol*	61	31	1,776
Mono	tall oil fatty acids*	61	31	1,776
Mono	lecithin*	268	21	1,508
Mono	dimethoate	691	12	1,355
Monterey	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	42,215	25,138	394,740
Monterey	methylated soybean oil*	83,477	22,358	279,253
Monterey	dimethylpolysiloxane*	39,188	14,140	267,242
Monterey	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	33,399	22,656	250,506
Monterey	lambda-cyhalothrin	7,681	24,944	250,058
Napa	sulfur	1,061,302	13,030	173,152
Napa	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	19,290	8,588	98,141
Napa	mineral oil	119,276	3,676	35,726
Napa	lavandulyl senecioate	323	1,674	25,038
Napa	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	4,609	1,432	22,497
Nevada	sulfur	16,340	95	1,705
Nevada	glyphosate, isopropylamine salt	5,513	33	1,301
Nevada	imazapyr, isopropylamine salt	498	34	1,239
Nevada	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	368	36	970
Nevada	methylated soybean oil*	1,836	18	705
Orange	trinexapac-ethyl	650	9	2,473
Orange	mefenoxam	185	137	2,210
Orange	mefenoxam, other related	2	112	2,025
Orange	mineral oil	54,259	140	1,597
Orange	glyphosate, isopropylamine salt	53,248	631	1,478

County	Chemical	Pounds Applied	Apps	Acre Treated
Placer	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,604	525	20,182
Placer	mineral oil	25,089	395	15,528
Placer	methylated soybean oil*	17,347	195	9,909
Placer	propanil	44,236	170	8,451
Placer	tall oil*	798	148	7,524
Plumas	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	983	84	3,387
Plumas	glyphosate, dimethylamine salt	4,140	70	2,502
Plumas	methylated soybean oil*	5,234	72	2,118
Plumas	imazapyr, isopropylamine salt	549	41	1,282
Plumas	dimethylpolysiloxane*	1	10	1,216
Riverside	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	11,138	4,292	150,110
Riverside	methylated soybean oil*	39,298	3,483	118,885
Riverside	citric acid	1,748	3,207	109,798
Riverside	mineral oil	408,916	3,743	103,520
Riverside	alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate*	4,009	2,171	92,086
Sacramento	sulfur	2,601,836	3,605	215,501
Sacramento	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	41,713	3,040	115,014
Sacramento	mineral oil	668,953	2,420	90,520
Sacramento	methylated soybean oil*	27,979	1,619	60,718
Sacramento	tall oil fatty acids*	1,758	1,214	47,407
San Benito	dimethyl silicone fluid emulsion*	386	6,338	31,801
San Benito	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,245	2,156	27,541
San Benito	dimethylpolysiloxane*	883	1,117	21,993
San Benito	alpha-alkyl (c9-c11)-omega-hydroxypoly(oxyethylene)*	975	2,577	17,532
San Benito	imidacloprid	1,822	2,217	15,542
San Bernardino	glyphosate, potassium salt	17,095	530	88,763
San Bernardino	prodiamine	580	<0.01	15,096
San Bernardino	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,970	237	5,574
San Bernardino	glyphosate, isopropylamine salt	108,441	294	4,133

County	Chemical	Pounds Applied	Apps	Acre Treated
San Bernardino	ammonium sulfate	4,445	130	3,080
San Diego	diphacinone	3	972	25,704
San Diego	strychnine	55	318	24,877
San Diego	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	5,486	2,777	21,786
San Diego	glyphosate, isopropylamine salt	126,758	5,353	18,948
San Diego	glyphosate, potassium salt	31,140	2,338	18,208
San Francisco	trinexapac-ethyl	152	<0.01	1,327
San Francisco	ethofumesate	1,623	<0.01	449
San Francisco	chlorothalonil	2,516	<0.01	411
San Francisco	carfentrazone-ethyl	13	<0.01	331
San Francisco	propiconazole	160	<0.01	323
San Joaquin	sulfur	6,834,290	12,652	534,008
San Joaquin	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	117,513	14,722	511,328
San Joaquin	dimethylpolysiloxane*	2,983	8,498	276,163
San Joaquin	methylated soybean oil*	197,352	8,050	261,865
San Joaquin	mineral oil	940,405	6,953	229,397
San Luis Obispo	sulfur	671,048	3,957	163,184
San Luis Obispo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	17,827	4,415	104,631
San Luis Obispo	dimethylpolysiloxane*	2,842	3,913	98,024
San Luis Obispo	mineral oil	278,463	2,588	60,662
San Luis Obispo	alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	4,284	1,328	45,890
San Mateo	lambda-cyhalothrin	70	125	1,531
San Mateo	lecithin*	475	116	1,322
San Mateo	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	224	86	1,156
San Mateo	methylated soybean oil*	399	84	1,149
San Mateo	spinetoram	65	89	1,016

County	Chemical	Pounds Applied	Apps	Acre Treated
Santa Barbara	dimethylpolysiloxane*	7,351	10,289	180,513
Santa Barbara	sulfur	983,871	4,632	177,270
Santa Barbara	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	25,215	7,354	131,745
Santa Barbara	propylene glycol	8,473	6,499	128,536
Santa Barbara	polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether*	16,262	5,159	118,370
Santa Clara	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,591	1,037	15,202
Santa Clara	methylated soybean oil*	4,265	1,040	10,298
Santa Clara	lecithin*	2,755	767	9,485
Santa Clara	lambda-cyhalothrin	419	706	9,283
Santa Clara	dimethylpolysiloxane*	532	548	8,349
Santa Cruz	dimethylpolysiloxane*	7,259	1,391	23,355
Santa Cruz	phosphoric acid	276	741	11,267
Santa Cruz	spinetoram	788	891	10,971
Santa Cruz	polyoxyethylene polyoxypropylene*	3,122	1,234	9,114
Santa Cruz	bacillus thuringiensis, subsp. kurstaki, strain abts-351, fermentation solids and solubles	5,596	1,271	8,912
Shasta	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	11,319	838	32,338
Shasta	methylated soybean oil*	58,892	591	25,514
Shasta	glyphosate, dimethylamine salt	35,822	454	21,967
Shasta	imazapyr, isopropylamine salt	8,815	391	16,353
Shasta	hexazinone	13,809	152	8,057
Sierra	methylated soybean oil*	2,027	55	1,606
Sierra	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	342	52	1,572
Sierra	imazapyr, isopropylamine salt	500	38	1,099
Sierra	glyphosate, dimethylamine salt	1,760	43	1,092
Sierra	polyalkene oxide modified heptamethyl trisiloxane*	4	5	366
Siskiyou	methylated soybean oil*	26,950	732	37,297
Siskiyou	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	6,719	711	30,088
Siskiyou	benzoic acid*	91	384	23,892
Siskiyou	dimethyl alkyl tertiary amines*	100	384	23,892
Siskiyou	butyl lactate*	416	316	19,493
Solano	methylated soybean oil*	41,220	2,364	110,109

County	Chemical	Pounds Applied	Apps	Acre Treated
Solano	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	20,057	2,073	99,395
Solano	dimethylpolysiloxane*	678	1,796	60,434
Solano	benzoic acid*	330	1,422	56,954
Solano	dimethyl alkyl tertiary amines*	361	1,422	56,954
Sonoma	sulfur	1,922,391	15,028	275,612
Sonoma	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	17,897	7,042	79,908
Sonoma	mineral oil	271,701	5,146	57,186
Sonoma	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	13,560	2,978	54,607
Sonoma	quinoxifen	4,177	2,424	45,463
Stanislaus	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	72,109	18,182	399,013
Stanislaus	mineral oil	2,094,598	5,073	247,149
Stanislaus	methylated soybean oil*	136,857	5,306	216,583
Stanislaus	abamectin	4,168	4,294	209,748
Stanislaus	dimethylpolysiloxane*	1,135	5,910	206,554
Sutter	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	45,019	4,018	180,239
Sutter	methylated soybean oil*	83,135	2,286	115,638
Sutter	mineral oil	402,632	2,445	115,566
Sutter	ammonium sulfate	36,770	2,408	108,537
Sutter	dimethylpolysiloxane*	732	2,829	95,952
Tehama	dimethylpolysiloxane*	1,374	3,459	86,426
Tehama	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	24,765	1,633	67,598
Tehama	copper hydroxide	235,943	1,869	56,715
Tehama	mancozeb	99,972	1,757	51,619
Tehama	dimethyl silicone fluid emulsion*	588	2,089	45,729
Trinity	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,695	184	7,977
Trinity	methylated soybean oil*	20,776	184	7,977
Trinity	glyphosate, dimethylamine salt	14,069	161	7,797
Trinity	imazapyr, isopropylamine salt	3,232	152	6,074
Trinity	clopyralid, monoethanolamine salt	1,032	37	4,314
Tulare	mineral oil	7,670,714	28,851	668,980
Tulare	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	139,560	18,647	628,679
Tulare	dimethylpolysiloxane*	36,361	15,465	458,325

County	Chemical	Pounds Applied	Apps	Acre Treated
Tulare	sulfur	2,255,816	10,340	407,901
Tulare	lecithin*	91,327	10,341	291,898
Tuolumne	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	2,993	380	6,387
Tuolumne	methylated soybean oil*	11,396	241	4,153
Tuolumne	glyphosate, isopropylamine salt	16,644	121	3,659
Tuolumne	glyphosate, dimethylamine salt	11,560	192	3,099
Tuolumne	fatty acids derived from tallow*	66	155	2,592
Ventura	polyoxyethylene polyoxypropylene*	22,314	6,538	113,348
Ventura	dimethylpolysiloxane*	8,348	6,161	113,338
Ventura	mineral oil	1,751,539	6,603	112,558
Ventura	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	15,796	4,689	82,066
Ventura	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	16,144	6,028	79,373
Yolo	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	35,184	3,631	184,432
Yolo	methylated soybean oil*	84,188	3,292	175,499
Yolo	sulfur	2,017,606	3,549	157,831
Yolo	ammonium sulfate	42,775	2,133	98,224
Yolo	dimethylpolysiloxane*	329	1,885	84,453
Yuba	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	17,658	1,225	49,317
Yuba	mineral oil	198,982	1,342	42,417
Yuba	lambda-cyhalothrin	1,109	727	34,688
Yuba	methylated soybean oil*	18,319	1,045	30,382
Yuba	dimethylpolysiloxane*	162	815	29,816