

# The Top Five Chemicals by Acres Treated in each County in 2022

[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 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	18,415	635	5,225
Alameda	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,278	350	3,247
Alameda	Dimethylpolysiloxane*	4	187	2,588
Alameda	Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	226	142	2,523
Alameda	Diethylene glycol*	754	166	2,514
Alpine	Strychnine	1	7	247
Alpine	Aminopyralid, triisopropanolamine salt	1	2	62
Alpine	Methylated soybean oil*	22	4	50
Alpine	Glyphosate, dimethylamine salt	33	4	48
Alpine	Imazapyr, isopropylamine salt	10	1	40
Amador	Sulfur	73,178	782	10,779
Amador	Mineral oil	8,168	426	5,268

County	Chemical	Pounds Applied	Apps	Acre Treated
Amador	Alpha-pinene beta-pinene copolymer*	660	262	3,621
Amador	Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	346	208	3,037
Amador	Alpha-(para-dodecylphenyl)-omega-hydroxypoly(oxyethylene)*	25	209	2,448
Butte	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	55,316	5,459	280,635
Butte	Methylated soybean oil*	143,900	3,654	183,071
Butte	Dimethylpolysiloxane*	940	2,618	131,852
Butte	Propanil	507,508	1,453	119,716
Butte	Mineral oil	271,004	1,694	112,705
Calaveras	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,379	236	7,191
Calaveras	Methylated soybean oil*	18,459	208	6,558
Calaveras	Glyphosate, dimethylamine salt	13,912	187	3,738
Calaveras	Citric acid	112	146	2,640
Calaveras	Phosphoric acid	83	150	2,416
Colusa	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	24,419	2,713	156,777
Colusa	Methylated soybean oil*	45,895	1,620	89,412
Colusa	Phosphoric acid	4,814	1,365	85,156
Colusa	Ammonium sulfate	24,227	1,555	81,242
Colusa	Citric acid	2,520	1,513	75,621
Contra Costa	Dimethylpolysiloxane*	41	1,566	39,652
Contra Costa	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,563	1,352	36,891
Contra Costa	Polyethylene glycol*	3,157	1,175	29,938
Contra Costa	Isopropyl alcohol	495	851	22,033
Contra Costa	N,n-bis-(2-omega-hydroxypoly(oxyethylene)ethyl)alkylamine, alkyl derived from tallow fatty acids*	429	735	18,371
Del Norte	Copper hydroxide	9,071	695	5,409

County	Chemical	Pounds Applied	Apps	Acre Treated
Del Norte	Chlorothalonil	3,071	354	2,888
Del Norte	Methylated soybean oil*	5,813	92	1,941
Del Norte	Imazapyr, isopropylamine salt	1,487	85	1,784
Del Norte	Iprodione	238	142	1,175
El Dorado	Methylated soybean oil*	23,178	698	12,559
El Dorado	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched*	40,678	380	7,258
El Dorado	Glyphosate, isopropylamine salt	34,350	422	5,899
El Dorado	Sulfur	19,556	652	5,642
El Dorado	Glyphosate, dimethylamine salt	26,519	269	5,549
Fresno	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	283,260	23,785	1,147,868
Fresno	Sulfur	6,859,086	17,824	777,242
Fresno	Mineral oil	6,350,722	19,230	718,361
Fresno	Dimethylpolysiloxane*	22,216	13,437	651,816
Fresno	Methylated soybean oil*	319,112	10,807	507,237
Glenn	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	32,637	2,395	122,214
Glenn	Dimethylpolysiloxane*	807	1,982	86,045
Glenn	Methylated soybean oil*	64,394	1,782	78,950
Glenn	Ammonium sulfate	30,725	1,705	61,304
Glenn	Chlorantranilprole	3,886	869	55,762
Humboldt	Imazapyr, isopropylamine salt	11,046	467	9,191
Humboldt	Methylated soybean oil*	7,651	369	7,119
Humboldt	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	826	205	4,490
Humboldt	Polyalkene oxide modified heptamethyl trisiloxane*	125	132	2,793
Humboldt	Triclopyr, butoxyethyl ester	5,404	151	2,623
Imperial	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	22,677	6,803	353,422
Imperial	Mineral oil	408,654	4,912	251,986

County	Chemical	Pounds Applied	Apps	Acre Treated
Imperial	Lambda-cyhalothrin	6,910	4,703	241,454
Imperial	Methylated soybean oil*	54,783	4,315	211,071
Imperial	Pendimethalin	320,457	2,758	173,372
Inyo	Saflufenacil	13	5	297
Inyo	Trinexapac-ethyl	61	<0.01	296
Inyo	Hexazinone	6	4	237
Inyo	2,4-d, dimethylamine salt	176	2	160
Inyo	Pendimethalin	227	2	120
Kern	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	390,692	14,586	901,294
Kern	Dimethylpolysiloxane*	22,247	12,955	756,778
Kern	Sulfur	4,115,030	12,869	715,226
Kern	Mineral oil	7,608,380	13,200	646,846
Kern	Lecithin*	121,084	6,874	404,116
Kings	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	101,651	8,128	816,335
Kings	Fatty acids, mixed*	17,714	3,319	491,335
Kings	Lecithin*	51,921	3,610	476,659
Kings	Polyacrylamide polymer*	3,368	2,830	347,223
Kings	Propionic acid	20,519	1,918	336,549
Lake	Sulfur	305,125	1,129	38,957
Lake	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,130	583	18,345
Lake	Mineral oil	153,942	499	15,474
Lake	Tall oil fatty acids*	1,666	445	12,833
Lake	Polyethylene glycol*	1,500	403	12,089
Lassen	Ammonium sulfate	1,419	124	11,033
Lassen	Lambda-cyhalothrin	419	107	10,244
Lassen	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,623	146	8,975
Lassen	Glyphosate, isopropylamine salt	12,003	94	7,979

County	Chemical	Pounds Applied	Apps	Acre Treated
Lassen	Dimethylpolysiloxane*	2	82	7,508
Los Angeles	Sulfur	22,979	140	8,030
Los Angeles	Mefenoxam	4,540	212	4,761
Los Angeles	Imidacloprid	9,492	672	4,443
Los Angeles	Pendimethalin	4,561	138	3,411
Los Angeles	Beta-cyfluthrin	1,887	47	2,761
Madera	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	80,678	7,892	481,442
Madera	Sulfur	2,803,419	5,214	341,038
Madera	Dimethylpolysiloxane*	5,138	4,690	292,361
Madera	Mineral oil	2,319,574	5,029	277,591
Madera	Methylated soybean oil*	164,750	4,844	252,678
Marin	Methylated soybean oil*	181	14	498
Marin	Oleic acid, ethyl ester*	248	15	483
Marin	Polyethylene glycol stearate*	42	15	483
Marin	Benzoic acid*	3	14	483
Marin	Dimethyl alkyl tertiary amines*	3	14	483
Mariposa	Diphacinone	0	8	3,676
Mariposa	Triclopyr, triethylamine salt	589	38	282
Mariposa	Dimethylpolysiloxane*	10	21	186
Mariposa	Polyoxyethylene polyoxypropylene*	38	6	173
Mariposa	Aminopyralid, triisopropanolamine salt	106	6	173
Mendocino	Sulfur	452,556	2,148	61,507
Mendocino	Mineral oil	148,119	643	17,991
Mendocino	Imazapyr, isopropylamine salt	9,902	226	10,115
Mendocino	Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	1,258	418	9,542
Mendocino	Copper hydroxide	2,858	312	8,583
Merced	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	85,789	12,345	612,425
Merced	Methylated soybean oil*	159,226	5,099	246,554

County	Chemical	Pounds Applied	Apps	Acre Treated
Merced	Mineral oil	1,223,762	4,594	236,069
Merced	Dimethylpolysiloxane*	6,510	4,867	222,544
Merced	Glyphosate, potassium salt	354,229	4,772	197,297
Modoc	Methylated soybean oil*	7,880	587	41,339
Modoc	Butyl lactate*	733	482	35,603
Modoc	Benzoic acid*	143	466	33,749
Modoc	Dimethyl alkyl tertiary amines*	156	466	33,749
Modoc	Polyoxyethylene sorbitan monolaurate*	3,987	409	29,416
Mono	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	150	26	1,492
Mono	Polyethylene glycol*	27	21	1,160
Mono	Tall oil fatty acids*	30	21	1,160
Mono	Diuron	1,176	19	957
Mono	Hexazinone	426	16	772
Monterey	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	41,920	22,883	343,610
Monterey	Dimethylpolysiloxane*	41,244	14,963	287,015
Monterey	Methylated soybean oil*	96,124	23,855	279,707
Monterey	Spirotetramat	20,243	21,767	250,746
Monterey	Spinetoram	12,967	24,536	231,272
Napa	Sulfur	734,983	7,378	130,569
Napa	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	21,120	6,745	111,098
Napa	Mineral oil	180,374	2,626	39,964
Napa	Lavandulyl senecioate	418	1,423	26,356
Napa	Cyflufenamid	595	1,301	21,333
Nevada	Sulfur	26,485	108	3,328
Nevada	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	256	61	1,765
Nevada	Dimethylpolysiloxane*	64	9	1,030
Nevada	Aminopyralid, triisopropanolamine salt	103	<0.01	946

County	Chemical	Pounds Applied	Apps	Acre Treated
Nevada	Chlorsulfuron	1	<0.01	930
Orange	Trinexapac-ethyl	1,437	<0.01	2,279
Orange	Glyphosate, isopropylamine salt	40,089	522	1,255
Orange	Flurprimidol	279	<0.01	1,106
Orange	Mineral oil	66,482	87	1,012
Orange	Copper sulfate (pentahydrate)	4,858	8	715
Placer	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	8,257	743	28,036
Placer	Mineral oil	31,421	307	13,676
Placer	Dimethylpolysiloxane*	158	295	11,685
Placer	Propanil	48,038	171	10,292
Placer	Methylated soybean oil*	10,255	180	10,279
Plumas	Hexazinone	18,681	80	9,502
Plumas	Methylated soybean oil*	21,859	132	8,220
Plumas	Glyphosate, dimethylamine salt	19,463	121	7,788
Plumas	Imazapyr, isopropylamine salt	3,331	103	7,379
Plumas	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,630	106	6,760
Riverside	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	12,725	5,217	197,235
Riverside	Methylated soybean oil*	44,771	4,438	151,493
Riverside	Polyalkene oxide modified heptamethyl trisiloxane*	1,287	2,646	110,045
Riverside	Citric acid	803	3,770	95,719
Riverside	Alpha-(para-tert-butylphenyl)-omega-hydroxypoly(oxyethylene) phosphate*	3,179	1,832	80,777
Sacramento	Sulfur	2,828,946	3,846	227,652
Sacramento	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	19,629	2,437	86,840
Sacramento	Mineral oil	636,534	3,253	69,188
Sacramento	Methylated soybean oil*	23,536	2,224	68,546
Sacramento	Dimethylpolysiloxane*	176	1,499	46,788

County	Chemical	Pounds Applied	Apps	Acre Treated
San Benito	Dimethyl silicone fluid emulsion*	126	5,567	29,535
San Benito	Dimethylpolysiloxane*	446	1,851	29,290
San Benito	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	8,656	1,859	22,523
San Benito	Propylene glycol	936	1,212	18,110
San Benito	Mineral oil	71,304	1,363	17,617
San Bernardino	Glyphosate, isopropylamine salt	66,947	394	4,213
San Bernardino	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,336	193	4,006
San Bernardino	Glyphosate, potassium salt	19,630	269	3,804
San Bernardino	Mineral oil	30,872	253	3,568
San Bernardino	Ammonium sulfate	1,621	80	2,120
San Diego	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	5,437	3,698	20,324
San Diego	Diphacinone	12	609	19,734
San Diego	Mineral oil	292,014	2,058	18,735
San Diego	Strychnine	308	251	16,946
San Diego	Glyphosate, isopropylamine salt	94,399	5,065	15,762
San Francisco	Trinexapac-ethyl	218	<0.01	2,293
San Francisco	Chlorothalonil	4,011	<0.01	621
San Francisco	Paclobutrazol	68	<0.01	491
San Francisco	Propiconazole	389	<0.01	321
San Francisco	Chlorantraniliprole	42	<0.01	248
San Joaquin	Sulfur	6,303,522	11,616	502,540
San Joaquin	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	113,957	12,304	429,591
San Joaquin	Dimethylpolysiloxane*	4,484	8,365	267,394
San Joaquin	Methylated soybean oil*	109,039	7,655	249,299
San Joaquin	Abamectin	4,343	5,719	233,465
San Luis Obispo	Sulfur	542,740	3,086	130,254
San Luis Obispo	Dimethylpolysiloxane*	2,899	3,968	98,121



County	Chemical	Pounds Applied	Apps	Acre Treated
San Luis Obispo	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	14,815	2,355	71,978
San Luis Obispo	Glyphosate, isopropylamine salt	36,972	712	57,717
San Luis Obispo	Propylene glycol	2,984	2,785	56,774
San Mateo	Methylated soybean oil*	554	105	1,583
San Mateo	Lambda-cyhalothrin	89	122	1,401
San Mateo	Lecithin*	751	107	1,245
San Mateo	Alpha-undecyl-omega-hydroxypoly(oxyethylene)*	259	86	1,182
San Mateo	Spinetoram	50	101	1,020
Santa Barbara	Dimethylpolysiloxane*	12,259	9,556	183,629
Santa Barbara	Sulfur	897,543	3,860	167,068
Santa Barbara	Propylene glycol	8,878	6,309	131,251
Santa Barbara	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	20,215	7,273	122,279
Santa Barbara	Alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)*	29,127	4,730	118,876
Santa Clara	Dimethylpolysiloxane*	148	1,293	22,639
Santa Clara	Polyether modified polysiloxane*	179	827	20,781
Santa Clara	Propylene glycol	778	1,176	16,291
Santa Clara	Alpha-2,6,8-trimethyl-4-nonyloxy-omega-hydroxypoly(oxyethylene)*	2,270	941	15,639
Santa Clara	Polyethylene glycol mono(3-(tetramethyl-1-(trimethylsiloxy)disiloxanyl)propyl)ether*	1,175	879	14,667
Santa Cruz	Dimethylpolysiloxane*	6,910	1,503	20,969
Santa Cruz	Polyoxyethylene polyoxypropylene*	3,996	695	12,144
Santa Cruz	Azadirachtin	285	1,436	9,396
Santa Cruz	Spinetoram	636	687	8,689
Santa Cruz	Lambda-cyhalothrin	249	828	8,315
Shasta	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	7,952	551	18,274
Shasta	Glyphosate, dimethylamine salt	32,434	466	16,033
Shasta	Methylated soybean oil*	40,050	511	15,089

County	Chemical	Pounds Applied	Apps	Acre Treated
Shasta	Imazapyr, isopropylamine salt	4,092	233	6,921
Shasta	Oxyfluorfen	8,475	130	5,508
Sierra	Imazethapyr, ammonium salt	54	9	543
Sierra	Pyraclostrobin	53	9	543
Sierra	Clethodim	142	9	543
Sierra	Cyfluthrin	27	9	543
Sierra	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	35	21	308
Siskiyou	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,679	470	23,300
Siskiyou	Methylated soybean oil*	7,070	415	19,742
Siskiyou	Butyl lactate*	567	277	17,525
Siskiyou	Tall oil fatty acids*	959	307	15,434
Siskiyou	Polyoxyethylene sorbitan monolaurate*	3,723	245	14,960
Solano	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	12,324	1,897	79,153
Solano	Methylated soybean oil*	33,245	1,688	72,845
Solano	Dimethylpolysiloxane*	1,800	1,405	48,960
Solano	Ammonium sulfate	12,337	1,040	42,782
Solano	Sulfur	468,827	1,038	37,081
Sonoma	Sulfur	1,539,517	11,458	230,510
Sonoma	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	22,191	4,576	92,738
Sonoma	Mineral oil	291,790	3,325	60,298
Sonoma	Alpha-alkyl (secondary c12-c14)-omega-hydroxypoly(oxyethylene)*	4,994	2,909	43,314
Sonoma	Quinoxifen	3,984	1,768	39,460
Stanislaus	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	73,012	8,412	327,434
Stanislaus	Mineral oil	1,576,456	4,225	211,495
Stanislaus	Dimethylpolysiloxane*	3,842	4,755	203,343
Stanislaus	Oxyfluorfen	64,210	5,123	196,999

County	Chemical	Pounds Applied	Apps	Acre Treated
Stanislaus	Abamectin	3,822	3,655	194,303
Sutter	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	34,977	3,294	127,891
Sutter	Mineral oil	373,966	2,001	85,882
Sutter	Methylated soybean oil*	56,435	1,759	77,311
Sutter	Dimethylpolysiloxane*	1,775	2,349	69,989
Sutter	Ammonium sulfate	36,939	1,749	65,660
Tehama	Dimethylpolysiloxane*	1,746	3,188	68,150
Tehama	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	17,911	1,421	50,347
Tehama	Copper hydroxide	191,775	1,441	46,253
Tehama	Mancozeb	69,003	1,307	38,214
Tehama	Ammonium sulfate	10,721	2,198	34,614
Trinity	Methylated soybean oil*	7,856	138	5,352
Trinity	Glyphosate, dimethylamine salt	9,668	95	3,820
Trinity	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene), branched*	9,047	71	2,730
Trinity	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,218	67	2,622
Trinity	Imazapyr, isopropylamine salt	1,170	61	2,270
Tulare	Mineral oil	6,604,721	28,584	612,961
Tulare	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	136,378	15,208	563,248
Tulare	Dimethylpolysiloxane*	25,537	12,717	389,077
Tulare	Sulfur	2,008,944	8,877	353,534
Tulare	Lecithin*	78,903	10,700	284,085
Tuolumne	Aminopyralid, triisopropanolamine salt	234	52	3,273
Tuolumne	Glyphosate, isopropylamine salt	11,274	58	2,330
Tuolumne	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	1,361	122	2,035
Tuolumne	Methylated soybean oil*	7,661	121	1,930
Tuolumne	Phosphoric acid	209	105	1,695

<b>County</b>	<b>Chemical</b>	<b>Pounds Applied</b>	<b>Apps</b>	<b>Acre Treated</b>
Ventura	Mineral oil	1,401,031	6,668	119,315
Ventura	Dimethylpolysiloxane*	12,272	5,786	112,035
Ventura	Polyoxyethylene polyoxypropylene*	25,786	5,853	111,489
Ventura	Alpha-undecyl-omega-hydroxypoly(oxyethylene)*	14,571	3,774	74,666
Ventura	Captan	114,156	1,750	69,765
Yolo	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	30,616	3,846	193,289
Yolo	Sulfur	2,065,644	3,566	159,360
Yolo	Methylated soybean oil*	63,093	2,441	117,169
Yolo	Ammonium sulfate	40,180	2,035	89,472
Yolo	Glyphosate, isopropylamine salt	143,708	1,690	78,257
Yuba	Alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	14,199	1,229	52,313
Yuba	Mineral oil	166,329	1,157	40,272
Yuba	Dimethylpolysiloxane*	163	908	36,243
Yuba	Methylated soybean oil*	25,562	867	35,029
Yuba	Propanil	155,299	579	34,487