

# The Top Five Chemicals by Pounds 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 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	55,625	<0.01	<0.01
Alameda	sulfur	26,720	517	6,107
Alameda	glyphosate, isopropylamine salt	20,564	276	2,963
Alameda	sodium chlorate	17,050	<0.01	1
Alameda	mineral oil	11,048	299	1,760
Alpine	carbaryl	1,030	<0.01	<0.01
Alpine	mineral oil	392	<0.01	<0.01
Alpine	fatty acids, methyl esters	120	2	140
Alpine	lecithin*	67	<0.01	<0.01
Alpine	sodium dichloro-s-triazinetrione	45	<0.01	<0.01
Amador	sulfur	75,388	925	10,671
Amador	glyphosate, isopropylamine salt	5,382	174	1,189
Amador	mineral oil	4,657	231	4,046
Amador	methylated soybean oil*	3,088	50	935
Amador	glyphosate, potassium salt	2,408	87	1,196
Butte	copper sulfate (pentahydrate)	490,100	475	35,564
Butte	propanil	455,173	1,193	95,372
Butte	copper hydroxide	379,676	2,345	97,454
Butte	mineral oil	272,443	1,853	114,373

County	Chemical	Pounds Applied	Apps	Acre Treated
Butte	mancozeb	182,125	2,407	102,864
Calaveras	methylated soybean oil*	11,025	211	6,548
Calaveras	sulfur	10,584	190	2,061
Calaveras	glyphosate, dimethylamine salt	9,681	170	2,678
Calaveras	glyphosate, isopropylamine salt	7,376	73	1,197
Calaveras	boric acid	5,973	<0.01	8
Colusa	propanil	500,294	1,401	98,874
Colusa	copper sulfate (pentahydrate)	259,460	423	21,096
Colusa	glyphosate, potassium salt	217,451	1,851	91,187
Colusa	mineral oil	214,353	1,105	78,712
Colusa	thiobencarb	175,625	673	52,387
Contra Costa	sulfur	110,286	605	9,071
Contra Costa	mineral oil	37,998	596	7,032
Contra Costa	copper sulfate (pentahydrate)	34,528	1	180
Contra Costa	endothall, dipotassium salt	27,503	<0.01	16
Contra Costa	glyphosate, isopropylamine salt	24,283	117	4,726
Del Norte	1,3-dichloropropene	192,815	69	709
Del Norte	metam-sodium	72,758	53	248
Del Norte	copper hydroxide	10,681	865	7,147
Del Norte	chlorothalonil	3,208	461	4,090
Del Norte	diuron	1,438	111	994
El Dorado	mineral oil	37,324	685	4,969
El Dorado	glyphosate, dimethylamine salt	36,818	465	6,575
El Dorado	methylated soybean oil*	32,732	331	5,311
El Dorado	glyphosate, isopropylamine salt	25,516	461	3,895
El Dorado	oleic acid, methyl ester*	23,042	353	4,094
Fresno	sulfur	10,089,788	23,238	1,087,514
Fresno	mineral oil	10,025,972	23,611	1,051,379
Fresno	potassium n-methyldithiocarbamate	2,246,998	310	8,881
Fresno	1,3-dichloropropene	1,493,618	319	5,977
Fresno	glyphosate, potassium salt	1,186,734	11,954	561,181
Glenn	propanil	293,144	1,069	62,062
Glenn	copper hydroxide	182,908	1,406	51,695
Glenn	copper sulfate (pentahydrate)	181,322	204	13,737
Glenn	mineral oil	136,171	823	47,721

County	Chemical	Pounds Applied	Apps	Acre Treated
Glenn	mancozeb	131,000	1,574	60,249
Humboldt	borax	12,102	<0.01	<0.01
Humboldt	methylated soybean oil*	10,274	201	4,694
Humboldt	metam-sodium	4,758	<0.01	<0.01
Humboldt	imazapyr, isopropylamine salt	3,068	219	4,465
Humboldt	triclopyr, butoxyethyl ester	3,013	77	1,379
Imperial	sulfur	1,501,149	1,576	83,497
Imperial	mineral oil	697,697	4,319	252,275
Imperial	1,3-dichloropropene	402,816	78	4,299
Imperial	glyphosate, isopropylamine salt	385,377	674	39,523
Imperial	pendimethalin	303,303	2,529	166,608
Inyo	methylated soybean oil*	15,541	4	440
Inyo	triclopyr, butoxyethyl ester	5,770	2	4
Inyo	alpha-undecyl-omega-hydroxypoly(oxyethylene)*	3,692	<0.01	<0.01
Inyo	tall oil fatty acids*	3,345	14	780
Inyo	glyphosate, isopropylamine salt	2,124	15	623
Kern	mineral oil	8,551,242	12,680	722,753
Kern	sulfur	5,378,757	13,887	844,334
Kern	potassium n-methyldithiocarbamate	1,912,827	145	9,432
Kern	metam-sodium	1,906,394	174	10,009
Kern	1,3-dichloropropene	1,013,666	130	4,761
Kings	sulfur	2,196,066	1,837	138,985
Kings	mineral oil	1,148,494	3,930	205,011
Kings	glyphosate, potassium salt	435,838	2,943	238,140
Kings	potassium n-methyldithiocarbamate	433,325	39	3,754
Kings	vegetable oil*	383,136	1,307	257,709
Lake	sulfur	397,782	1,398	46,850
Lake	mineral oil	217,398	710	22,679
Lake	lime-sulfur	45,437	69	1,457
Lake	diuron	13,394	47	428
Lake	copper oxychloride	9,318	270	7,279
Lassen	methyl bromide	88,564	15	404
Lassen	chloropicrin	63,004	15	404
Lassen	sulfur	9,904	102	2,730
Lassen	glyphosate, dimethylamine salt	5,820	91	3,190
Lassen	methylated soybean oil*	4,803	152	8,914

County	Chemical	Pounds Applied	Apps	Acre Treated
Los Angeles	potassium n-methyldithiocarbamate	713,392	24	2,097
Los Angeles	sulfuryl fluoride	663,163	<0.01	<0.01
Los Angeles	sodium hypochlorite	182,756	45	935
Los Angeles	sodium bromide	171,089	<0.01	<0.01
Los Angeles	boric acid	123,537	<0.01	<0.01
Madera	mineral oil	3,370,357	6,435	357,340
Madera	sulfur	3,311,411	6,584	398,426
Madera	1,3-dichloropropene	642,326	49	1,938
Madera	glyphosate, potassium salt	448,389	5,142	213,755
Madera	glyphosate, isopropylamine salt	300,367	3,725	181,935
Marin	potassium phosphite	18,702	<0.01	<0.01
Marin	copper ethanolamine complexes, mixed	17,752	<0.01	6
Marin	sulfuryl fluoride	13,514	<0.01	<0.01
Marin	mineral oil	4,375	38	313
Marin	sulfur	3,684	91	578
Mariposa	borax	8,774	<0.01	<0.01
Mariposa	methylated soybean oil*	4,133	40	1,057
Mariposa	glyphosate, isopropylamine salt	4,013	83	784
Mariposa	metam-sodium	2,910	<0.01	<0.01
Mariposa	triclopyr, triethylamine salt	1,154	39	799
Mendocino	copper ethanolamine complexes, mixed	1,443,733	<0.01	<0.01
Mendocino	sulfur	485,612	2,645	66,866
Mendocino	mineral oil	162,368	767	15,465
Mendocino	octhilinone	43,662	<0.01	<0.01
Mendocino	propiconazole	11,684	<0.01	7
Merced	sulfur	1,967,662	2,260	134,788
Merced	mineral oil	1,580,136	5,403	279,151
Merced	1,3-dichloropropene	1,289,478	338	8,428
Merced	potassium n-methyldithiocarbamate	734,972	151	3,118
Merced	glyphosate, potassium salt	485,403	5,799	266,375
Modoc	methylated soybean oil*	24,100	1,208	70,806
Modoc	metam-sodium	22,553	4	209
Modoc	paraquat dichloride	9,210	223	14,382
Modoc	glyphosate, potassium salt	9,106	73	4,845
Modoc	metribuzin	8,962	290	17,849
Mono	pendimethalin	2,068	14	1,130
Mono	diuron	1,477	20	1,129

County	Chemical	Pounds Applied	Apps	Acre Treated
<b>Mono</b>	glyphosate, isopropylamine salt	1,368	8	550
<b>Mono</b>	oleic acid, methyl ester*	723	8	550
<b>Mono</b>	dimethoate	691	12	1,355
<b>Monterey</b>	chloropicrin	2,243,417	408	8,653
<b>Monterey</b>	sulfur	940,990	10,248	216,638
<b>Monterey</b>	mineral oil	923,960	12,377	236,865
<b>Monterey</b>	1,3-dichloropropene	738,210	380	9,182
<b>Monterey</b>	oleic acid, methyl ester*	326,482	939	9,551
<b>Napa</b>	sulfur	1,061,302	13,030	173,152
<b>Napa</b>	mineral oil	119,276	3,676	35,726
<b>Napa</b>	glyphosate, potassium salt	26,586	2,489	12,631
<b>Napa</b>	kaolin	23,075	317	3,264
<b>Napa</b>	2-(3-hydroxypropyl)-hepta-methyl trisiloxane, ethoxylated, acetate*	19,290	8,588	98,141
<b>Nevada</b>	sulfur	16,340	95	1,705
<b>Nevada</b>	glyphosate, isopropylamine salt	5,513	33	1,301
<b>Nevada</b>	copper ethanolamine complexes, mixed	4,721	10	14
<b>Nevada</b>	endothall, dipotassium salt	2,860	<0.01	<0.01
<b>Nevada</b>	copper triethanolamine complex	2,485	2	0
<b>Orange</b>	sulfuryl fluoride	362,595	<0.01	<0.01
<b>Orange</b>	mineral oil	54,259	140	1,597
<b>Orange</b>	glyphosate, isopropylamine salt	53,248	631	1,478
<b>Orange</b>	chloropicrin	49,620	12	237
<b>Orange</b>	boric acid	49,580	<0.01	<0.01
<b>Placer</b>	propanil	44,236	170	8,451
<b>Placer</b>	copper sulfate (pentahydrate)	38,267	54	2,998
<b>Placer</b>	sulfur	29,992	98	3,611
<b>Placer</b>	glyphosate, isopropylamine salt	27,139	83	1,780
<b>Placer</b>	copper hydroxide	25,301	164	4,694
<b>Plumas</b>	methylated soybean oil*	5,234	72	2,118
<b>Plumas</b>	glyphosate, dimethylamine salt	4,140	70	2,502
<b>Plumas</b>	glyphosate, isopropylamine salt	3,006	9	749
<b>Plumas</b>	paraquat dichloride	1,709	5	625

County	Chemical	Pounds Applied	Apps	Acre Treated
Plumas	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	983	84	3,387
Riverside	metam-sodium	773,864	155	3,727
Riverside	mineral oil	408,916	3,743	103,520
Riverside	sulfur	375,221	2,911	89,884
Riverside	1,3-dichloropropene	246,387	34	810
Riverside	kaolin	242,222	107	4,198
Sacramento	sulfur	2,601,836	3,605	215,501
Sacramento	mineral oil	668,953	2,420	90,520
Sacramento	glyphosate, potassium salt	94,465	1,221	38,744
Sacramento	glyphosate, isopropylamine salt	79,660	665	19,370
Sacramento	1,3-dichloropropene	56,617	3	177
San Benito	potassium n-methyldithiocarbamate	125,143	52	566
San Benito	sulfur	98,509	1,512	13,645
San Benito	diatomaceous earth	74,017	903	6,111
San Benito	mineral oil	38,905	894	12,036
San Benito	sodium hypochlorite	38,063	<0.01	<0.01
San Bernardino	glyphosate, isopropylamine salt	108,441	294	4,133
San Bernardino	disodium octaborate tetrahydrate	90,818	<0.01	<0.01
San Bernardino	sodium chlorate	67,958	<0.01	3
San Bernardino	sulfuryl fluoride	58,255	<0.01	<0.01
San Bernardino	boric acid	35,326	<0.01	<0.01
San Diego	sulfuryl fluoride	376,988	<0.01	<0.01
San Diego	mineral oil	216,629	1,865	15,839
San Diego	glyphosate, isopropylamine salt	126,758	5,353	18,948
San Diego	sodium chlorate	83,069	<0.01	<0.01
San Diego	chloropicrin	77,395	79	690
San Francisco	chlorothalonil	2,516	<0.01	411
San Francisco	ethofumesate	1,623	<0.01	449
San Francisco	potassium phosphite	1,565	61	42
San Francisco	disodium octaborate tetrahydrate	1,421	<0.01	29
San Francisco	boric acid	1,272	<0.01	<0.01
San Joaquin	sulfur	6,834,290	12,652	534,008

County	Chemical	Pounds Applied	Apps	Acre Treated
San Joaquin	1,3-dichloropropene	1,126,653	142	3,877
San Joaquin	mineral oil	940,405	6,953	229,397
San Joaquin	potassium n-methyldithiocarbamate	406,072	66	4,448
San Joaquin	glyphosate, isopropylamine salt	367,921	6,430	179,652
San Luis Obispo	sulfur	671,048	3,957	163,184
San Luis Obispo	chloropicrin	630,246	122	3,258
San Luis Obispo	1,3-dichloropropene	310,352	134	2,757
San Luis Obispo	mineral oil	278,463	2,588	60,662
San Luis Obispo	metam-sodium	117,889	34	590
San Mateo	potassium n-methyldithiocarbamate	39,878	35	442
San Mateo	sulfuryl fluoride	36,736	<0.01	<0.01
San Mateo	mineral oil	18,643	61	68
San Mateo	potassium phosphite	17,953	31	424
San Mateo	1,3-dichloropropene	5,955	7	52
Santa Barbara	chloropicrin	1,670,829	278	8,726
Santa Barbara	sulfur	983,871	4,632	177,270
Santa Barbara	potassium n-methyldithiocarbamate	720,078	55	2,803
Santa Barbara	1,3-dichloropropene	449,829	112	3,845
Santa Barbara	mineral oil	328,788	3,949	92,242
Santa Clara	sulfuryl fluoride	149,798	<0.01	<0.01
Santa Clara	potassium n-methyldithiocarbamate	142,865	38	576
Santa Clara	chloropicrin	48,667	19	361
Santa Clara	sulfur	41,084	449	6,138
Santa Clara	1,3-dichloropropene	31,876	19	361
Santa Cruz	chloropicrin	585,644	130	2,017
Santa Cruz	1,3-dichloropropene	265,315	126	2,677
Santa Cruz	mineral oil	55,349	777	7,669
Santa Cruz	sulfuryl fluoride	47,264	<0.01	<0.01
Santa Cruz	lime-sulfur	44,251	186	1,441
Shasta	methylated soybean oil*	58,892	591	25,514
Shasta	glyphosate, dimethylamine salt	35,822	454	21,967
Shasta	methyl bromide	25,028	12	120
Shasta	chloropicrin	23,960	14	147



County	Chemical	Pounds Applied	Apps	Acre Treated
Shasta	copper sulfate (pentahydrate)	22,997	29	1,708
Sierra	methylated soybean oil*	2,027	55	1,606
Sierra	glyphosate, dimethylamine salt	1,760	43	1,092
Sierra	imazapyr, isopropylamine salt	500	38	1,099
Sierra	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	342	52	1,572
Sierra	glyphosate, isopropylamine salt	230	1	135
Siskiyou	methyl bromide	663,032	172	2,983
Siskiyou	chloropicrin	376,081	171	2,969
Siskiyou	metam-sodium	76,063	17	514
Siskiyou	methylated soybean oil*	26,950	732	37,297
Siskiyou	sulfur	18,825	139	5,281
Solano	sulfur	528,422	1,264	42,667
Solano	mineral oil	375,306	313	21,272
Solano	glyphosate, potassium salt	98,008	1,287	44,867
Solano	glyphosate, isopropylamine salt	78,787	681	35,830
Solano	methylated soybean oil*	41,220	2,364	110,109
Sonoma	sulfur	1,922,391	15,028	275,612
Sonoma	mineral oil	271,701	5,146	57,186
Sonoma	glyphosate, potassium salt	34,565	2,089	21,597
Sonoma	sulfuryl fluoride	33,843	<0.01	<0.01
Sonoma	1,3-dichloropropene	31,318	3	94
Stanislaus	mineral oil	2,094,598	5,073	247,149
Stanislaus	1,3-dichloropropene	982,044	215	4,188
Stanislaus	potassium n-methyldithiocarbamate	659,914	2,452	5,587
Stanislaus	sulfur	625,820	1,276	62,667
Stanislaus	glyphosate, isopropylamine salt	361,309	5,145	170,268
Sutter	propanil	470,368	967	88,351
Sutter	mineral oil	402,632	2,445	115,566
Sutter	copper hydroxide	243,973	1,867	57,474
Sutter	1,3-dichloropropene	243,636	52	754
Sutter	copper sulfate (pentahydrate)	225,188	231	17,500
Tehama	1,3-dichloropropene	310,175	128	946
Tehama	copper hydroxide	235,943	1,869	56,715
Tehama	methyl bromide	105,800	9	129



County	Chemical	Pounds Applied	Apps	Acre Treated
Tehama	mancozeb	99,972	1,757	51,619
Tehama	propylene oxide	99,144	<0.01	<0.01
Trinity	methylated soybean oil*	20,776	184	7,977
Trinity	glyphosate, dimethylamine salt	14,069	161	7,797
Trinity	oxyfluorfen	5,643	28	3,937
Trinity	alpha-(para-nonylphenyl)-omega-hydroxypoly(oxyethylene)*	3,695	184	7,977
Trinity	imazapyr, isopropylamine salt	3,232	152	6,074
Tulare	mineral oil	7,670,714	28,851	668,980
Tulare	calcium hydroxide	2,905,596	6,636	125,978
Tulare	sulfur	2,255,816	10,340	407,901
Tulare	1,3-dichloropropene	776,607	144	2,386
Tulare	copper sulfate (basic)	489,860	5,610	109,811
Tuolumne	glyphosate, isopropylamine salt	16,644	121	3,659
Tuolumne	glyphosate, dimethylamine salt	11,560	192	3,099
Tuolumne	methylated soybean oil*	11,396	241	4,153
Tuolumne	boric acid	4,154	<0.01	<0.01
Tuolumne	glyphosate, potassium salt	3,566	1	1
Ventura	mineral oil	1,751,539	6,603	112,558
Ventura	chloropicrin	1,583,263	281	9,372
Ventura	potassium n-methyldithiocarbamate	425,620	38	1,702
Ventura	1,3-dichloropropene	302,094	81	2,286
Ventura	metam-sodium	207,289	40	1,118
Yolo	sulfur	2,017,606	3,549	157,831
Yolo	mineral oil	215,883	1,652	64,221
Yolo	glyphosate, isopropylamine salt	148,137	1,559	80,219
Yolo	glyphosate, potassium salt	144,778	1,715	70,392
Yolo	propanil	91,953	180	16,795
Yuba	mineral oil	198,982	1,342	42,417
Yuba	propanil	145,257	433	27,680
Yuba	1,3-dichloropropene	142,799	16	430
Yuba	copper hydroxide	112,676	762	29,350
Yuba	copper sulfate (pentahydrate)	79,953	130	5,681