The Top Five Chemicals by Acres Treated in each County in 2024

Text files of data are available. 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. Application counts (Apps) include only agricultural pesticide uses. A zero value under Acres Treated or Apps indicates that the pounds applied were nonagricultural uses. N-outdr = Outdoor nursery. N-grnhs = Greenhouse nursery. Values greater than one are rounded. Counties may have less than five rankings if there were not enough commodities or chemicals to rank (especially when ranked by acres treated where most nonagricultural uses are not required to be reported). For more information, see Pesticide Use Annual Report Data Access, References, and Definitions Guide.

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Alameda	Abamectin	1	107	27	5,801
Alameda	Hydrogen peroxide	2	9,308	671	3,353
Alameda	Azoxystrobin	3	710	17	3,077
Alameda	Sulfur	4	18,177	408	3,041
Alameda	Lambda-cyhalothrin	5	391	16	2,678
Alpine	Pyriproxyfen	1	224	1	17
Amador	Sulfur	1	37,549	543	6,583
Amador	Mineral oil	2	1,980	212	3,173
Amador	Glyphosate, isopropylamine salt	3	7,652	156	1,381
Amador	Potassium bicarbonate	4	327	57	1,229
Amador	Ammonium sulfate	5	611	95	1,213
Butte	Propanil	1	421,893	1,243	100,575
Butte	Mineral oil	2	174,239	1,361	86,764
Butte	Ammonium sulfate	3	19,011	2,041	83,296
Butte	Azoxystrobin	4	14,660	959	73,894
Butte	Chlorantraniliprole	5	4,849	1,115	58,604
Calaveras	Potassium bicarbonate	1	228	141	3,112
Calaveras	Alkyl (c10-16) dimethyl amine oxide	2	958	135	3,081

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Calaveras	Imazapyr, isopropylamine salt	3	1,652	110	2,597
Calaveras	Glyphosate, diammonium salt	4	7,356	123	2,363
Calaveras	Glyphosate, isopropylamine salt	5	6,608	80	1,636
Colusa	Azoxystrobin	1	26,090	1,937	141,672
Colusa	Propanil	2	525,801	1,580	121,219
Colusa	Citric acid	3	4,358	2,226	120,107
Colusa	Ammonium sulfate	4	34,766	2,110	119,325
Colusa	Benzobicyclon	5	18,455	1,424	104,589
Contra costa	Isopropyl alcohol	1	443	863	22,290
Contra costa	Citric acid	2	2,246	856	21,324
Contra costa	Calcium chloride	3	675	629	14,130
Contra costa	Lambda-cyhalothrin	4	690	404	11,889
Contra costa	Glyphosate, potassium salt	5	22,892	435	10,785
Del norte	Copper hydroxide	1	6,805	538	3,791
Del norte	Chlorothalonil	2	1,725	290	2,044
Del norte	Imazapyr, isopropylamine salt	3	977	102	1,754
Del norte	Iprodione	4	354	158	1,182
Del norte	Triclopyr, butoxyethyl ester	5	2,043	78	1,124
El dorado	Glyphosate, isopropylamine salt	1	48,404	628	9,441
El dorado	Potassium bicarbonate	2	440	485	7,944
El dorado	Alkyl (c10-16) dimethyl amine oxide	3	2,614	484	7,934
El dorado	Mineral oil	4	38,652	678	5,069
El dorado	Sulfur	5	14,794	518	4,652
Fresno	Sulfur	1	6,770,852	18,298	815,366
Fresno	Mineral oil	2	4,677,315	18,775	678,674
Fresno	Lambda-cyhalothrin	3	20,858	7,155	483,484
Fresno	Glyphosate, potassium salt	4	916,837	10,832	444,891

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Fresno	Chlorantraniliprole	5	34,040	7,302	444,511
Glenn	Ammonium sulfate	1	55,440	2,155	95,682
Glenn	Citric acid	2	14,463	2,057	90,665
Glenn	Azoxystrobin	3	15,948	1,277	82,397
Glenn	Propanil	4	368,069	1,393	81,288
Glenn	Chlorantraniliprole	5	5,429	1,205	78,240
Humboldt	Imazapyr, isopropylamine salt	1	6,375	439	9,454
Humboldt	Triclopyr, butoxyethyl ester	2	4,015	153	2,711
Humboldt	Clopyralid, monoethanolamine salt	3	379	114	2,356
Humboldt	Glyphosate, isopropylamine salt	4	2,061	84	1,750
Humboldt	Sulfometuron-methyl	5	92	76	1,732
Imperial	Mineral oil	1	513,332	4,164	245,685
Imperial	Lambda-cyhalothrin	2	6,714	4,216	230,467
Imperial	Pendimethalin	3	324,140	2,640	168,051
Imperial	Clethodim	4	30,569	2,139	124,466
Imperial	Polybutene	5	3,271	3,009	116,133
Inyo	Ammonium sulfate	1	298	7	410
Inyo	Saflufenacil	2	9	6	397
Inyo	Hexazinone	3	127	5	337
Inyo	Trinexapac-ethyl	4	7	0	324
Inyo	Glyphosate, isopropylamine salt	5	1,847	6	293
Kern	Mineral oil	1	7,661,060	13,967	801,016
Kern	Sulfur	2	3,985,873	12,216	666,543
Kern	Sodium hypochlorite	3	47,753	0	550,000
Kern	Glyphosate, potassium salt	4	931,929	9,046	459,460
Kern	Ammonium sulfate	5	266,007	6,933	361,532
Kings	Propionic acid	1	40,808	2,856	592,359

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Kings	Citric acid	2	11,278	3,043	344,504
Kings	Glyphosate, potassium salt	3	448,559	3,018	267,486
Kings	Pyraflufen-ethyl	4	654	1,870	220,150
Kings	Flonicamid	5	18,777	1,072	216,228
Lake	Sulfur	1	274,653	1,165	36,548
Lake	Mineral oil	2	186,770	639	13,300
Lake	Copper oxychloride	3	3,033	186	5,091
Lake	Streptomycin sulfate	4	699	204	4,801
Lake	Copper hydroxide	5	1,363	173	4,700
Lassen	Glyphosate, isopropylamine salt	1	31,510	180	13,184
Lassen	Imazethapyr, ammonium salt	2	812	86	8,269
Lassen	Beta-cyfluthrin	3	185	75	7,452
Lassen	Imazapyr, isopropylamine salt	4	3,609	67	7,058
Lassen	Metribuzin	5	2,420	71	6,094
Los angeles	Mefenoxam	1	1,502	170	5,917
Los angeles	Pendimethalin	2	3,877	192	4,522
Los angeles	Cyazofamid	3	733	51	3,780
Los angeles	Glyphosate, isopropylamine salt	4	66,056	846	3,569
Los angeles	Linuron	5	821	46	2,835
Madera	Sulfur	1	2,638,666	5,351	332,529
Madera	Glufosinate-ammonium	2	237,846	5,800	267,673
Madera	Mineral oil	3	1,398,757	4,242	209,632
Madera	Methoxyfenozide	4	64,178	2,829	190,922
Madera	Glyphosate, potassium salt	5	377,727	4,236	186,295
Marin	Aminopyralid, triisopropanolamine salt	1	231	13	796
Marin	Sulfur	2	3,018	103	665
Marin	Clopyralid, monoethanolamine salt	3	97	6	260

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Marin	Mineral oil	4	6,118	53	250
Marin	Diquat dibromide	5	1,387	0	181
Mariposa	Glyphosate, isopropylamine salt	1	2,432	20	50
Mariposa	Triclopyr, triethylamine salt	2	273	16	38
Mariposa	Mineral oil	3	42	8	34
Mariposa	Glyphosate, potassium salt	4	251	9	30
Mariposa	Triclopyr, butoxyethyl ester	5	19	7	21
Mendocino	Sulfur	1	399,856	2,358	54,912
Mendocino	Mineral oil	2	185,455	871	22,840
Mendocino	Copper oxychloride	3	6,322	245	7,602
Mendocino	Imazapyr, isopropylamine salt	4	4,638	208	7,267
Mendocino	Copper hydroxide	5	2,297	222	7,032
Merced	Glyphosate, potassium salt	1	442,389	5,063	246,105
Merced	Citric acid	2	10,253	5,209	243,507
Merced	Ammonium sulfate	3	48,366	4,727	212,800
Merced	Mineral oil	4	759,152	3,693	199,632
Merced	Glufosinate-ammonium	5	188,365	4,496	191,986
Modoc	Metribuzin	1	6,775	229	14,062
Modoc	Citric acid	2	183	179	12,850
Modoc	Ammonium sulfate	3	1,340	154	10,853
Modoc	2,4-d, dimethylamine salt	4	9,012	110	8,367
Modoc	Saflufenacil	5	216	121	7,433
Mono	Pendimethalin	1	2,658	22	1,380
Mono	Diuron	2	1,210	30	1,259
Mono	Glyphosate, isopropylamine salt	3	1,923	11	857
Mono	Propionic acid	4	102	11	857
Mono	Hexazinone	5	112	12	618

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Monterey	Spirotetramat	1	19,469	22,972	245,328
Monterey	Lambda-cyhalothrin	2	7,173	23,769	231,209
Monterey	Spinetoram	3	12,274	23,566	217,340
Monterey	Sulfur	4	939,473	9,886	214,055
Monterey	Permethrin	5	28,499	22,692	181,421
Napa	Sulfur	1	820,790	8,581	145,252
Napa	Mineral oil	2	210,895	2,949	40,953
Napa	Cyflufenamid	3	551	994	17,506
Napa	Lavandulyl senecioate	4	5,592	1,011	17,496
Napa	Fluopyram	5	1,672	1,072	15,701
Nevada	Glyphosate, isopropylamine salt	1	5,098	10	1,703
Nevada	Imazapyr, isopropylamine salt	2	650	67	960
Nevada	Glyphosate, diammonium salt	3	1,606	70	917
Nevada	Fatty acids, methyl esters	4	3,417	66	861
Nevada	Triclopyr, triethylamine salt	5	82	1	503
Orange	Acephate	1	804	102	11,068
Orange	Trinexapac-ethyl	2	747	0	3,125
Orange	Flurprimidol	3	356	0	1,765
Orange	Glyphosate, isopropylamine salt	4	47,378	570	1,449
Orange	Phosphoric acid	5	361	51	1,164
Placer	Ammonium sulfate	1	4,891	169	10,017
Placer	Mineral oil	2	17,615	180	9,034
Placer	Propanil	3	30,302	128	7,695
Placer	Citric acid	4	240	93	6,812
Placer	Glufosinate-ammonium	5	7,663	117	6,775
Plumas	Glyphosate, isopropylamine salt	1	56,095	170	16,340
Plumas	Hexazinone	2	22,659	83	14,279

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Plumas	Imazapyr, isopropylamine salt	3	4,785	133	12,824
Plumas	Potassium bicarbonate	4	358	157	10,514
Plumas	Alkyl (c10-16) dimethyl amine oxide	5	2,151	157	10,514
Riverside	Citric acid	1	1,201	3,267	95,978
Riverside	Glyphosate, potassium salt	2	191,179	2,718	86,522
Riverside	Urea dihydrogen sulfate	3	5,334	2,451	84,856
Riverside	Sulfur	4	530,886	2,645	80,640
Riverside	Mineral oil	5	377,018	2,819	76,238
Sacramento	Sulfur	1	2,878,637	4,089	234,284
Sacramento	Mineral oil	2	674,493	2,646	75,188
Sacramento	Ammonium sulfate	3	19,472	1,198	41,861
Sacramento	Glufosinate-ammonium	4	32,622	1,309	35,289
Sacramento	Abamectin	5	544	640	29,990
San benito	Propylene glycol	1	1,255	1,260	13,991
San benito	Phosphoric acid	2	367	1,916	12,740
San benito	Mineral oil	3	42,912	932	12,639
San benito	Lambda-cyhalothrin	4	401	1,247	12,256
San benito	Spinetoram	5	635	1,847	11,757
San bernardino	Glyphosate, isopropylamine salt	1	82,957	477	6,895
San bernardino	Copper sulfate (pentahydrate)	2	45,266	3	3,457
San bernardino	Glyphosate, potassium salt	3	23,897	246	3,394
San bernardino	Mineral oil	4	13,689	200	1,945
San bernardino	Strychnine	5	27	181	1,696
San diego	Mineral oil	1	194,858	3,656	17,765
San diego	Glyphosate, isopropylamine salt	2	71,334	4,186	17,210
San diego	Propionic acid	3	1,869	5,567	9,762
San diego	Abamectin	4	198	2,606	9,376

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
San diego	Glyphosate, potassium salt	5	17,795	1,094	8,486
San francisco	Trinexapac-ethyl	1	170	0	2,030
San francisco	Chlorothalonil	2	4,448	0	613
San francisco	Propiconazole	3	195	0	417
San francisco	Chlorantraniliprole	4	60	0	412
San francisco	Thiophanate-methyl	5	1,525	0	290
San joaquin	Sulfur	1	6,094,175	11,453	474,397
San joaquin	Abamectin	2	3,945	5,245	205,684
San joaquin	Mineral oil	3	684,351	5,497	195,283
San joaquin	Citric acid	4	19,570	6,544	187,173
San joaquin	Glyphosate, isopropylamine salt	5	369,616	6,056	180,180
San luis obispo	Sulfur	1	554,673	3,630	133,662
San luis obispo	Mineral oil	2	413,648	2,689	61,012
San luis obispo	Propylene glycol	3	3,646	3,002	60,049
San luis obispo	Imidacloprid	4	10,791	2,527	32,472
San luis obispo	Ammonium sulfate	5	11,287	1,766	26,854
San mateo	Lambda-cyhalothrin	1	151	131	1,556
San mateo	Spinetoram	2	45	84	917
San mateo	Imidacloprid	3	1,187	115	798
San mateo	Spirotetramat	4	62	99	790
San mateo	Emamectin benzoate	5	11	52	642
Santa barbara	Sulfur	1	829,322	4,604	155,829
Santa barbara	Propylene glycol	2	8,488	6,897	120,620
Santa barbara	Mineral oil	3	292,387	3,822	77,373
Santa barbara	Captan	4	124,364	1,981	68,772
Santa barbara	Citric acid	5	7,903	3,384	65,007
Santa clara	Paclobutrazol	1	380	1,282	62,535

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Santa clara	Daminozide	2	248	529	20,996
Santa clara	Phosphoric acid	3	147	986	20,635
Santa clara	Isopropyl alcohol	4	205	454	17,957
Santa clara	Propylene glycol	5	1,238	829	16,163
Santa cruz	Bacillus thuringiensis subsp. kurstaki strain: abts-351	1	6,254	1,170	9,693
Santa cruz	Pyraclostrobin	2	1,399	629	7,927
Santa cruz	Spinetoram	3	537	635	7,729
Santa cruz	Mineral oil	4	76,419	908	7,607
Santa cruz	Azadirachtin	5	233	1,204	6,845
Shasta	Glyphosate, isopropylamine salt	1	37,633	436	14,256
Shasta	Imazapyr, isopropylamine salt	2	4,953	413	11,320
Shasta	Glyphosate, diammonium salt	3	26,736	262	8,859
Shasta	Potassium bicarbonate	4	368	168	6,265
Shasta	Alkyl (c10-16) dimethyl amine oxide	5	2,209	168	6,265
Sierra	Sodium tetraborate decahydrate	1	432	8	1,213
Sierra	Glyphosate, diammonium salt	2	3,400	103	957
Sierra	Fatty acids, methyl esters	3	2,050	68	923
Sierra	Glyphosate, isopropylamine salt	4	1,721	10	718
Sierra	Imazethapyr, ammonium salt	5	36	7	356
Siskiyou	Citric acid	1	932	253	17,884
Siskiyou	Glyphosate, isopropylamine salt	2	39,409	401	16,407
Siskiyou	Ammonium sulfate	3	3,670	176	14,577
Siskiyou	Hydrogen peroxide	4	51,430	303	13,983
Siskiyou	Peroxyacetic acid	5	22,352	303	13,983
Solano	Ammonium sulfate	1	23,136	1,396	65,531
Solano	Glyphosate, potassium salt	2	122,664	1,293	61,560
Solano	Bifenthrin	3	5,555	706	38,750

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Solano	Clethodim	4	7,297	640	36,824
Solano	Sulfur	5	458,372	1,276	35,905
Sonoma	Sulfur	1	1,575,887	14,348	236,525
Sonoma	Mineral oil	2	348,901	4,273	65,547
Sonoma	Quinoxyfen	3	3,355	2,125	34,069
Sonoma	Fluopyram	4	3,018	1,545	27,844
Sonoma	Cyprodinil	5	5,852	1,995	27,498
Stanislaus	Mineral oil	1	1,158,523	4,145	200,285
Stanislaus	Abamectin	2	3,670	3,370	192,263
Stanislaus	Glyphosate, isopropylamine salt	3	393,847	5,003	186,207
Stanislaus	Lambda-cyhalothrin	4	7,115	3,677	184,868
Stanislaus	Glufosinate-ammonium	5	177,010	5,286	174,506
Sutter	Ammonium sulfate	1	70,311	2,401	132,750
Sutter	Propanil	2	504,303	1,291	120,783
Sutter	Mineral oil	3	367,849	1,764	93,761
Sutter	Lambda-cyhalothrin	4	2,147	1,243	63,582
Sutter	Azoxystrobin	5	12,013	1,050	60,540
Tehama	Citric acid	1	8,101	3,051	50,545
Tehama	Oxyfluorfen	2	10,893	2,492	37,865
Tehama	Copper hydroxide	3	135,927	1,087	34,631
Tehama	Ammonium sulfate	4	15,992	2,163	34,233
Tehama	Mancozeb	5	74,118	1,088	30,966
Trinity	Glyphosate, isopropylamine salt	1	7,473	201	4,655
Trinity	Imazapyr, isopropylamine salt	2	2,686	202	4,608
Trinity	Clopyralid, monoethanolamine salt	3	2,086	69	2,608
Trinity	Glyphosate, diammonium salt	4	5,532	94	2,436
Trinity	Indaziflam	5	165	50	2,013

County	Chemical	Rank	Pounds Applied	Apps	Acres Treated
Tulare	Mineral oil	1	6,442,415	26,888	597,174
Tulare	Sulfur	2	1,904,500	7,862	326,350
Tulare	Glufosinate-ammonium	3	254,968	10,610	284,016
Tulare	Glyphosate, isopropylamine salt	4	453,819	9,303	240,978
Tulare	Citric acid	5	17,497	6,967	240,241
Tuolumne	Glyphosate, isopropylamine salt	1	14,573	104	3,601
Tuolumne	Citric acid	2	59	170	3,495
Tuolumne	Phosphoric acid	3	307	169	3,486
Tuolumne	Ammonium sulfate	4	1,116	169	3,486
Tuolumne	Glyphosate, diammonium salt	5	12,564	166	3,211
Ventura	Mineral oil	1	1,286,589	5,962	121,640
Ventura	Captan	2	152,329	2,000	91,406
Ventura	Captan, other related	3	2,386	1,312	63,723
Ventura	Propionic acid	4	8,723	1,967	55,201
Ventura	Abamectin	5	1,034	2,888	53,372
Yolo	Ammonium sulfate	1	42,342	2,656	139,520
Yolo	Sulfur	2	1,627,834	2,944	133,782
Yolo	Citric acid	3	8,107	1,790	96,815
Yolo	Phosphoric acid	4	3,491	1,400	79,391
Yolo	Glyphosate, isopropylamine salt	5	139,702	1,564	71,041
Yuba	Propanil	1	187,202	718	45,401
Yuba	Lambda-cyhalothrin	2	895	698	30,637
Yuba	Ammonium sulfate	3	14,241	632	29,048
Yuba	Mineral oil	4	148,845	686	25,463
Yuba	Benzobicyclon	5	5,749	374	24,096