The Top Five Commodities by Pounds Applied in each County in 2024

Text files of data are available. The ranking of commodities (sites) is determined by total pounds of chemicals 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. 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. For more information, see Pesticide Use Annual Report Data Access, References, and Definitions Guide.

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Alameda	Structural pest control	1	119,100	6	0
Alameda	Water (industrial)	2	59,557	0	0
Alameda	Grape, wine	3	44,218	3,413	22,038
Alameda	Landscape maintenance	4	44,001	0	0
Alameda	Rights of way	5	24,451	0	0
Alpine	Landscape maintenance	1	312	0	0
Alpine	Rights of way	2	292	0	0
Alpine	Cannabis (all or unspecified)	3	224	1	17
Alpine	Structural pest control	4	116	0	0
Alpine	Regulatory pest control	5	6	0	0
Amador	Grape, wine	1	48,973	1,741	19,669
Amador	Rights of way	2	6,658	43	100
Amador	Structural pest control	3	3,975	0	0
Amador	Forest, timberland	4	3,791	153	4,090
Amador	Landscape maintenance	5	2,658	0	0
Butte	Rice	1	1,030,827	4,756	383,124
Butte	Walnut	2	471,533	11,165	445,338

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Butte	Almond	3	195,527	6,499	270,127
Butte	Prune	4	80,014	871	34,085
Butte	Rights of way	5	38,410	55	754
Calaveras	Forest, timberland	1	14,053	337	7,578
Calaveras	Rights of way	2	12,727	12	40
Calaveras	Grape, wine	3	10,313	590	5,253
Calaveras	Landscape maintenance	4	9,425	0	0
Calaveras	Animal premise	5	6,464	0	129
Colusa	Rice	1	912,005	9,263	630,454
Colusa	Almond	2	496,155	12,743	719,540
Colusa	Tomato, processing	3	258,161	3,323	181,525
Colusa	Walnut	4	147,877	2,422	139,523
Colusa	Uncultivated ag	5	82,511	779	54,719
Contra costa	Tomato, processing	1	104,418	757	27,802
Contra costa	Water area	2	96,498	0	5,841
Contra costa	Grape, wine	3	73,975	1,365	15,761
Contra costa	Landscape maintenance	4	52,242	10	14
Contra costa	Structural pest control	5	41,164	0	0
Del norte	Soil fumigation/preplant	1	68,658	52	214
Del norte	N-outdr flower	2	57,367	1,483	9,794
Del norte	Forest, timberland	3	4,845	308	5,199
Del norte	Landscape maintenance	4	621	0	0
Del norte	Structural pest control	5	361	0	0
El dorado	Forest, timberland	1	51,523	931	19,465
El dorado	Grape, wine	2	39,524	2,045	18,593
El dorado	Structural pest control	3	30,190	0	0
El dorado	Rights of way	4	18,273	20	170

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
El dorado	Landscape maintenance	5	17,169	6	12
Fresno	Tomato, processing	1	4,261,453	6,282	684,211
Fresno	Almond	2	3,957,242	56,623	2,999,877
Fresno	Grape	3	3,238,679	34,821	1,118,541
Fresno	Grape, wine	4	1,874,878	9,828	686,428
Fresno	Pistachio	5	1,372,844	18,672	1,586,380
Glenn	Almond	1	675,937	11,248	757,980
Glenn	Rice	2	667,364	6,620	387,884
Glenn	Walnut	3	295,799	7,665	218,291
Glenn	Olive	4	79,841	1,183	33,073
Glenn	Rights of way	5	42,931	0	0
Humboldt	Forest, timberland	1	15,559	1,003	21,566
Humboldt	Structural pest control	2	2,282	0	0
Humboldt	Rights of way	3	2,195	0	0
Humboldt	Cannabis (all or unspecified)	4	1,358	1,063	120
Humboldt	Water area	5	709	0	82
Imperial	Alfalfa	1	917,885	17,234	1,157,335
Imperial	Sugarbeet	2	457,857	4,293	307,189
Imperial	Bermudagrass	3	450,482	1,846	135,232
Imperial	Carrot	4	356,249	1,586	73,251
Imperial	Lemon	5	287,195	1,223	45,033
Inyo	Rights of way	1	3,695	0	0
Inyo	Alfalfa	2	1,302	19	1,244
Inyo	Structural pest control	3	377	0	0
Inyo	N-grnhs flower	4	361	0	640
Inyo	Forage hay/silage	5	255	2	160
Kern	Almond	1	5,665,832	42,027	2,787,135

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Kern	Grape	2	3,639,150	33,776	1,384,511
Kern	Orange	3	2,734,654	13,397	480,850
Kern	Tangerine	4	2,070,848	6,582	295,769
Kern	Pistachio	5	2,040,333	19,502	1,504,143
Kings	Tomato, processing	1	1,495,006	2,207	288,772
Kings	Cotton	2	931,184	9,288	1,790,825
Kings	Soil fumigation/preplant	3	673,884	1,988	362,797
Kings	Almond	4	650,424	9,406	498,070
Kings	Pistachio	5	606,899	8,775	608,751
Lake	Grape, wine	1	352,596	3,838	99,578
Lake	Pear	2	172,745	1,652	34,075
Lake	Landscape maintenance	3	26,625	4	57
Lake	Water area	4	8,010	1	257
Lake	Cannabis (all or unspecified)	5	6,189	500	1,942
Lassen	Strawberry	1	70,901	215	7,534
Lassen	Forest, timberland	2	39,937	290	22,218
Lassen	Soil fumigation/preplant	3	28,796	12	199
Lassen	Alfalfa	4	16,505	526	43,436
Lassen	Rights of way	5	10,683	12	69
Los angeles	Structural pest control	1	1,001,726	0	0
Los angeles	Carrot	2	428,637	286	22,914
Los angeles	Rights of way	3	168,637	17	780
Los angeles	Landscape maintenance	4	147,727	5	544
Los angeles	Water (industrial)	5	147,474	0	2
Madera	Almond	1	2,259,256	34,629	1,916,023
Madera	Grape, wine	2	1,580,328	6,990	444,547
Madera	Grape	3	1,218,329	7,325	325,281

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Madera	Pistachio	4	524,037	10,127	690,992
Madera	Tomato, processing	5	295,232	1,067	69,402
Marin	Structural pest control	1	26,762	0	0
Marin	Landscape maintenance	2	25,005	9	9
Marin	Water area	3	15,344	0	177
Marin	Grape, wine	4	4,326	386	1,698
Marin	Rights of way	5	3,861	0	0
Mariposa	Rights of way	1	2,689	0	0
Mariposa	Landscape maintenance	2	2,184	0	0
Mariposa	Structural pest control	3	857	0	0
Mariposa	Apple	4	302	20	77
Mariposa	Forest, timberland	5	82	21	79
Mendocino	Grape, wine	1	555,634	6,724	145,340
Mendocino	Lumber, treated	2	241,768	0	0
Mendocino	Pear	3	98,099	601	24,327
Mendocino	Forest, timberland	4	7,603	365	11,697
Mendocino	Structural pest control	5	6,181	0	0
Merced	Almond	1	1,818,364	34,429	1,894,214
Merced	Sweet potato	2	1,000,833	652	19,924
Merced	Tomato, processing	3	962,926	3,592	224,292
Merced	Grape, wine	4	750,919	2,775	233,393
Merced	Animal premise	5	389,175	12	24
Modoc	Potato	1	29,266	563	36,185
Modoc	Alfalfa	2	21,980	825	53,859
Modoc	Rights of way	3	13,415	0	0
Modoc	Onion, dry	4	12,664	276	15,690
Modoc	Forage hay/silage	5	7,562	184	11,331

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Mono	Alfalfa	1	5,928	74	3,945
Mono	Rights of way	2	258	0	0
Mono	Landscape maintenance	3	49	2	5
Mono	Structural pest control	4	27	0	0
Mono	Forage hay/silage	5	8	2	78
Monterey	Strawberry	1	3,669,101	18,662	452,852
Monterey	Grape, wine	2	2,035,041	27,523	1,013,520
Monterey	Lettuce, leaf	3	711,750	121,064	1,092,208
Monterey	Lettuce, head	4	367,868	63,467	675,122
Monterey	Broccoli	5	254,363	46,352	492,387
Napa	Grape, wine	1	1,157,419	34,179	475,398
Napa	Landscape maintenance	2	30,950	0	0
Napa	Vertebrate control	3	20,689	0	0
Napa	Fumigation, other	4	8,747	0	0
Napa	Structural pest control	5	6,334	0	0
Nevada	Rights of way	1	11,755	5	16
Nevada	Landscape maintenance	2	9,178	14	21
Nevada	Forest, timberland	3	5,753	156	2,193
Nevada	Grape, wine	4	4,102	169	3,036
Nevada	Structural pest control	5	2,489	0	0
Orange	Structural pest control	1	1,017,774	0	0
Orange	Landscape maintenance	2	126,426	5	6
Orange	Water (industrial)	3	68,493	0	0
Orange	Strawberry	4	49,786	237	4,639
Orange	Public health	5	45,717	0	0
Placer	Rice	1	67,944	427	27,984
Placer	Structural pest control	2	40,292	0	0

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Placer	Walnut	3	36,668	441	30,320
Placer	Forest, timberland	4	31,185	371	8,961
Placer	Landscape maintenance	5	29,920	11	28
Plumas	Forest, timberland	1	106,025	614	63,293
Plumas	Water (industrial)	2	4,808	0	0
Plumas	Rights of way	3	3,767	0	0
Plumas	Forage hay/silage	4	1,575	11	1,150
Plumas	Alfalfa	5	1,187	21	2,165
Riverside	Lemon	1	518,218	1,923	83,222
Riverside	Pepper, fruiting	2	328,775	2,666	70,398
Riverside	Alfalfa	3	318,417	8,697	358,090
Riverside	Grape	4	234,158	2,360	80,257
Riverside	Rights of way	5	178,324	12	84
Sacramento	Grape, wine	1	2,981,459	11,364	511,186
Sacramento	Pear	2	600,300	3,270	129,821
Sacramento	Cannabis (all or unspecified)	3	106,709	4,589	348
Sacramento	Structural pest control	4	98,681	0	0
Sacramento	Rice	5	91,674	478	41,199
San benito	Pepper, fruiting	1	117,292	1,233	20,098
San benito	Grape, wine	2	100,330	2,827	48,584
San benito	Lettuce, leaf	3	92,669	9,735	62,998
San benito	Broccoli	4	29,121	2,001	13,958
San benito	Spinach	5	25,609	3,586	26,969
San bernardino	Structural pest control	1	336,025	0	0
San bernardino	Landscape maintenance	2	84,701	37	648
San bernardino	Rights of way	3	66,218	42	1,608
San bernardino	Water area	4	47,835	3	3,786

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
San bernardino	Water (industrial)	5	19,247	0	0
San diego	Structural pest control	1	458,740	2	< 1
San diego	Landscape maintenance	2	139,562	8	15
San diego	Water (industrial)	3	130,958	0	1
San diego	Tomato	4	100,519	1,345	43,778
San diego	Avocado	5	68,742	1,953	27,741
San francisco	Water (industrial)	1	10,846	0	0
San francisco	Golf course turf	2	10,275	0	5,741
San francisco	Structural pest control	3	5,610	0	0
San francisco	Landscape maintenance	4	3,667	0	0
San francisco	Public health	5	746	0	0
San joaquin	Grape, wine	1	5,894,111	28,726	946,420
San joaquin	Almond	2	1,300,613	26,203	1,170,018
San joaquin	Walnut	3	482,414	12,879	415,730
San joaquin	Tomato, processing	4	449,302	3,777	205,653
San joaquin	Cherry	5	390,594	14,798	243,230
San luis obispo	Strawberry	1	1,277,741	5,116	169,843
San luis obispo	Grape, wine	2	832,297	15,635	458,244
San luis obispo	Carrot	3	139,895	467	32,026
San luis obispo	Avocado	4	105,901	793	21,955
San luis obispo	Lemon	5	90,423	829	23,707
San mateo	Structural pest control	1	59,722	0	0
San mateo	Brussels sprout	2	43,863	671	7,945
San mateo	Landscape maintenance	3	42,512	54	37
San mateo	Ditch bank	4	11,762	0	162
San mateo	Public health	5	7,955	0	0
Santa barbara	Strawberry	1	3,581,326	19,425	615,819

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Santa barbara	Grape, wine	2	798,933	11,432	339,201
Santa barbara	Carrot	3	185,055	629	29,750
Santa barbara	Avocado	4	108,328	1,904	21,815
Santa barbara	Lemon	5	91,751	1,103	12,931
Santa clara	Pepper, fruiting	1	245,309	1,439	29,905
Santa clara	Structural pest control	2	198,522	2	10
Santa clara	Tomato	3	72,390	805	21,981
Santa clara	Landscape maintenance	4	68,526	6	14
Santa clara	Water (industrial)	5	46,055	0	0
Santa cruz	Strawberry	1	823,722	4,477	82,780
Santa cruz	Raspberry	2	236,441	2,009	21,187
Santa cruz	Blackberry	3	138,175	2,564	29,096
Santa cruz	Apple	4	51,153	548	10,102
Santa cruz	Structural pest control	5	42,928	0	0
Shasta	Forest, timberland	1	68,239	1,555	49,362
Shasta	Soil fumigation/preplant	2	45,324	10	115
Shasta	Water (industrial)	3	19,976	0	0
Shasta	Rice, wild	4	18,537	26	1,416
Shasta	Rights of way	5	17,834	3	6
Sierra	Forest, timberland	1	6,841	142	3,185
Sierra	Rights of way	2	956	0	0
Sierra	Grain	3	276	2	200
Sierra	Alfalfa	4	116	11	480
Sierra	County ag comm	5	89	0	0
Siskiyou	Soil fumigation/preplant	1	1,138,100	176	3,385
Siskiyou	Strawberry	2	164,859	1,558	67,972
Siskiyou	Forest, timberland	3	60,770	786	40,293

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Siskiyou	Landscape maintenance	4	52,581	68	17
Siskiyou	Alfalfa	5	31,347	1,012	57,187
Solano	Grape, wine	1	263,672	2,916	70,447
Solano	Tomato, processing	2	256,132	2,513	143,274
Solano	Almond	3	200,143	3,453	255,068
Solano	Rights of way	4	67,510	45	108
Solano	Uncultivated ag	5	55,264	964	47,711
Sonoma	Grape, wine	1	2,091,401	52,043	744,956
Sonoma	Structural pest control	2	48,429	0	0
Sonoma	Apple	3	43,454	670	5,283
Sonoma	Landscape maintenance	4	38,529	2	3
Sonoma	Rights of way	5	11,855	0	0
Stanislaus	Almond	1	3,037,622	50,044	2,526,734
Stanislaus	Grape, wine	2	365,100	1,635	82,077
Stanislaus	Walnut	3	288,440	6,394	193,086
Stanislaus	Animal premise	4	285,085	55	1,234
Stanislaus	Tomato, processing	5	230,734	1,301	81,857
Sutter	Rice	1	1,128,865	5,053	478,709
Sutter	Walnut	2	244,978	5,488	166,166
Sutter	Peach	3	241,781	5,673	84,581
Sutter	Prune	4	179,280	1,635	62,601
Sutter	Tomato, processing	5	149,056	903	60,140
Tehama	Walnut	1	485,655	11,639	229,475
Tehama	Almond	2	185,199	4,696	218,819
Tehama	Soil fumigation/preplant	3	147,768	15	473
Tehama	Commodity fumigation	4	65,517	0	0
Tehama	Olive	5	53,036	894	24,827

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Trinity	Forest, timberland	1	18,293	680	18,985
Trinity	Rights of way	2	2,016	0	0
Trinity	Landscape maintenance	4	24	0	0
Trinity	Structural pest control	5	22	0	0
Tulare	Orange	1	5,236,767	60,531	1,115,175
Tulare	Grape	2	2,353,050	22,084	870,130
Tulare	Tangerine	3	2,056,795	20,533	428,286
Tulare	Almond	4	1,838,904	20,063	1,118,815
Tulare	Lemon	5	764,078	11,499	175,417
Tuolumne	Forest, timberland	1	28,335	462	11,599
Tuolumne	Rights of way	2	8,846	19	607
Tuolumne	Landscape maintenance	3	6,755	0	0
Tuolumne	Structural pest control	4	1,206	0	0
Tuolumne	Water area	5	267	0	41
Ventura	Strawberry	1	3,803,238	13,794	643,955
Ventura	Lemon	2	1,062,300	7,754	158,735
Ventura	Avocado	3	308,511	5,120	71,462
Ventura	Pepper, fruiting	4	222,319	2,836	68,760
Ventura	Blackberry	5	138,470	2,900	37,592
Yolo	Grape, wine	1	1,544,995	7,382	269,203
Yolo	Uncultivated ag	2	288,830	1,649	103,082
Yolo	Rice	3	272,154	1,078	115,478
Yolo	Almond	4	249,537	5,758	365,522
Yolo	Tomato, processing	5	248,212	3,539	203,371
Yuba	Rice	1	384,193	3,021	196,734
Yuba	Walnut	2	223,159	2,463	101,950
Yuba	Prune	3	74,490	960	32,194

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Yuba	Peach	4	61,131	2,098	23,105
Yuba	Almond	5	24,229	619	34,840