

The Top Five Commodities by Acres Treated in each County in 2023

[Text files](#) of data are available. The ranking of commodities (sites) 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	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Alameda	Grape, wine	1	46,142	3,715	26,975
Alameda	Almond	2	9,866	103	18,474
Alameda	Pistachio	3	826	57	1,787
Alameda	Olive	4	622	21	1,076
Alameda	Bean, unspecified	5	537	18	750
Alpine	Uncultivated non-ag	1	< 1	0	10
Amador	Grape, wine	1	83,184	3,051	30,104
Amador	Forest, timberland	2	5,626	95	2,057
Amador	Alfalfa	3	1,629	29	1,290
Amador	Wheat (forage - fodder)	4	335	17	997
Amador	Uncultivated non-ag	5	203	6	417
Butte	Rice	1	1,448,740	6,302	528,843
Butte	Walnut	2	520,097	9,838	386,529
Butte	Almond	3	260,425	6,540	271,719
Butte	Prune	4	64,229	1,045	41,962
Butte	Forest, timberland	5	49,705	597	32,125

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Calaveras	Grape, wine	1	12,523	858	7,085
Calaveras	Forest, timberland	2	10,524	187	3,685
Calaveras	Walnut	3	1,261	21	1,318
Calaveras	Rangeland	4	114	22	692
Calaveras	Cherry	5	366	16	463
Colusa	Almond	1	416,950	10,696	624,768
Colusa	Rice	2	1,063,462	8,257	560,915
Colusa	Tomato, processing	3	314,523	3,566	195,238
Colusa	Walnut	4	156,529	1,890	114,942
Colusa	Uncultivated ag	5	87,115	860	64,677
Contra costa	Corn, human consumption	1	11,203	1,814	43,838
Contra costa	Tomato, processing	2	151,281	1,044	41,422
Contra costa	Almond	3	27,982	272	26,095
Contra costa	Grape, wine	4	85,510	1,628	18,163
Contra costa	Cherry	5	13,282	1,203	15,081
Del norte	N-outdr flower	1	69,976	1,237	9,255
Del norte	Forest, timberland	2	2,137	184	3,016
Del norte	Soil fumigation/preplant	3	65,907	34	243
Del norte	N-grnhs plants in containers	4	186	331	152
Del norte	N-outdr plants in containers	5	40	42	22
El dorado	Forest, timberland	1	78,770	1,749	56,271
El dorado	Grape, wine	2	52,771	2,536	22,919
El dorado	Apple	3	15,670	406	2,660
El dorado	Pear	4	3,481	79	469
El dorado	Water area	5	700	0	207
Fresno	Almond	1	3,869,180	54,462	2,917,375
Fresno	Pistachio	2	1,649,485	19,833	1,724,673

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Fresno	Grape	3	3,383,893	34,929	1,016,639
Fresno	Tomato, processing	4	4,922,350	8,094	901,282
Fresno	Cotton	5	423,471	8,471	708,939
Glenn	Almond	1	426,666	10,532	620,804
Glenn	Rice	2	782,035	7,184	421,727
Glenn	Walnut	3	287,512	5,704	193,623
Glenn	Alfalfa	4	15,611	671	34,622
Glenn	Olive	5	77,555	1,152	33,109
Humboldt	Forest, timberland	1	9,573	737	15,110
Humboldt	N-grnhs flower	2	1,472	979	2,529
Humboldt	N-outdr flower	3	47	69	206
Humboldt	Cannabis (all or unspecified)	4	6,672	1,064	96
Humboldt	Apple	5	297	17	54
Imperial	Alfalfa	1	885,233	18,882	1,210,614
Imperial	Lettuce, leaf	2	177,029	11,345	256,126
Imperial	Sugarbeet	3	410,349	3,404	235,830
Imperial	Corn, human consumption	4	103,105	3,105	185,431
Imperial	Onion, dry	5	193,346	2,727	168,561
Inyo	Alfalfa	1	1,416	35	1,537
Inyo	N-grnhs flower	2	321	0	412
Inyo	Forage hay/silage	3	353	7	342
Kern	Almond	1	4,728,148	39,360	2,619,910
Kern	Pistachio	2	2,086,191	20,124	1,566,949
Kern	Grape	3	4,056,226	35,351	1,504,058
Kern	Orange	4	2,409,732	13,522	523,457
Kern	Tangerine	5	1,653,496	8,031	316,605
Kings	Cotton	1	450,349	5,075	867,577

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Kings	Pistachio	2	654,190	9,069	577,543
Kings	Almond	3	631,364	9,529	502,060
Kings	Soil fumigation/preplant	4	925,251	2,194	410,784
Kings	Tomato, processing	5	1,038,253	2,208	247,330
Lake	Grape, wine	1	363,624	3,759	114,312
Lake	Pear	2	146,923	1,559	32,297
Lake	Cannabis (all or unspecified)	3	6,168	678	16,183
Lake	Walnut	4	702	76	988
Lake	Landscape maintenance	5	7,059	46	324
Lassen	Alfalfa	1	16,080	444	37,871
Lassen	Forest, timberland	2	24,687	205	12,578
Lassen	Strawberry	3	109,872	172	6,575
Lassen	Forage hay/silage	4	1,522	38	2,414
Lassen	Pastureland	5	1,278	26	1,412
Los angeles	N-grnhs flower	1	17,934	227	110,702
Los angeles	Carrot	2	496,826	476	34,230
Los angeles	N-outdr plants in containers	3	10,121	5,472	14,104
Los angeles	Onion, dry	4	4,469	218	6,270
Los angeles	Uncultivated ag	5	294	277	1,369
Madera	Almond	1	1,771,313	32,534	1,706,617
Madera	Pistachio	2	463,907	9,440	646,391
Madera	Grape, wine	3	1,654,482	7,077	426,026
Madera	Grape	4	1,193,845	6,610	293,228
Madera	Orange	5	140,214	1,590	54,618
Marin	Grape, wine	1	4,728	208	1,551
Marin	Pastureland	2	338	27	1,246
Marin	Olive	3	2,637	59	285

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Marin	Water area	4	10,025	0	170
Marin	Water (industrial)	5	2,664	0	102
Mariposa	Forest, timberland	1	53	33	148
Mariposa	Water area	2	327	0	129
Mariposa	Apple	3	55	12	40
Mariposa	Grape, wine	4	23	5	16
Mariposa	Uncultivated ag	5	4	6	15
Mendocino	Grape, wine	1	616,441	5,905	147,197
Mendocino	Pear	2	97,102	549	24,351
Mendocino	Forest, timberland	3	7,090	324	8,421
Mendocino	Rights of way	4	6,474	7	111
Mendocino	Uncultivated non-ag	5	11	0	86
Merced	Almond	1	1,730,094	30,454	1,624,166
Merced	Cotton	2	180,850	8,509	386,562
Merced	Tomato, processing	3	1,067,111	4,456	283,134
Merced	Grape, wine	4	707,924	2,803	238,837
Merced	Pistachio	5	131,251	3,483	206,145
Modoc	Alfalfa	1	22,662	869	54,642
Modoc	Potato	2	83,210	650	42,517
Modoc	Onion, dry	3	12,131	319	20,474
Modoc	Wheat	4	4,131	117	8,364
Modoc	Forage hay/silage	5	4,219	117	8,248
Mono	Alfalfa	1	1,488	37	2,298
Mono	Forage hay/silage	2	633	16	642
Mono	Landscape maintenance	3	71	3	8
Monterey	Grape, wine	1	2,165,097	28,900	1,124,639
Monterey	Lettuce, leaf	2	651,274	119,295	1,092,636

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Monterey	Lettuce, head	3	325,681	61,588	661,086
Monterey	Strawberry	4	3,679,368	17,506	421,657
Monterey	Broccoli	5	205,400	33,313	362,212
Napa	Grape, wine	1	1,226,215	34,080	498,170
Napa	Olive	2	517	337	648
Napa	Water area	3	2,031	1	594
Napa	Uncultivated non-ag	4	334	0	392
Napa	Pastureland	5	981	3	341
Nevada	Grape, wine	1	17,330	197	3,415
Nevada	Uncultivated non-ag	2	18	2	1,031
Nevada	Landscape maintenance	3	17,484	43	627
Nevada	Water area	4	227	15	152
Nevada	N-grnhs flower	5	27	0	39
Orange	Turf/sod	1	61	4	104,100
Orange	Golf course turf	2	56,174	0	78,021
Orange	N-outdr plants in containers	3	4,863	2,535	2,979
Orange	Pepper, fruiting	4	13,428	129	2,510
Orange	Lemon	5	8,777	90	2,268
Placer	Rice	1	82,751	605	37,712
Placer	Almond	2	39,098	239	22,986
Placer	Walnut	3	37,154	468	21,700
Placer	Forest, timberland	4	21,677	599	13,471
Placer	Grape, wine	5	2,563	297	1,938
Plumas	Forest, timberland	1	79,002	614	60,511
Plumas	Rangeland	2	80	5	3,201
Plumas	Pastureland	3	75	6	1,906
Plumas	Alfalfa	4	414	10	884

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Plumas	N-grnhs flower	5	960	0	248
Riverside	Alfalfa	1	223,487	8,417	334,051
Riverside	Grape	2	247,280	3,093	91,356
Riverside	Lemon	3	408,631	1,978	78,717
Riverside	Pepper, fruiting	4	358,274	2,794	71,876
Riverside	Cotton	5	38,130	1,505	54,030
Sacramento	Grape, wine	1	3,348,049	11,477	569,283
Sacramento	Pear	2	619,217	3,157	113,788
Sacramento	Tomato, processing	3	135,392	1,636	71,979
Sacramento	Almond	4	35,556	1,016	47,133
Sacramento	Rice	5	98,021	555	45,590
San benito	Lettuce, leaf	1	102,895	11,865	88,675
San benito	Grape, wine	2	124,269	2,724	64,989
San benito	Spinach	3	22,646	4,197	31,421
San benito	Pepper, fruiting	4	113,597	1,225	23,289
San benito	Lettuce, head	5	12,073	2,130	18,013
San bernardino	Orange	1	14,543	1,316	11,718
San bernardino	Alfalfa	2	3,799	70	4,767
San bernardino	Corn (forage - fodder)	3	3,151	75	2,418
San bernardino	Golf course turf	4	6,439	0	2,390
San bernardino	Uncultivated ag	5	548	176	2,283
San diego	Tomato	1	147,553	1,165	46,649
San diego	N-outdr plants in containers	2	54,415	23,889	45,671
San diego	Avocado	3	119,761	2,374	30,768
San diego	N-grnhs plants in containers	4	15,276	20,678	16,484
San diego	Lemon	5	50,541	1,622	13,139
San francisco	Golf course turf	1	7,277	0	4,677

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
San francisco	Uncultivated non-ag	2	9	0	40
San francisco	Turf/sod	3	43	0	22
San francisco	Commercial, institutional or industrial areas	4	< 1	0	10
San francisco	Cannabis (all or unspecified)	5	69	441	10
San joaquin	Almond	1	1,257,163	25,177	1,159,517
San joaquin	Grape, wine	2	5,844,118	31,905	1,054,617
San joaquin	Walnut	3	444,505	11,221	382,656
San joaquin	Tomato, processing	4	509,247	4,987	269,766
San joaquin	Cherry	5	383,611	13,224	221,307
San luis obispo	Grape, wine	1	833,060	15,703	503,615
San luis obispo	Strawberry	2	1,007,704	6,042	196,677
San luis obispo	Lettuce, head	3	30,440	5,555	46,223
San luis obispo	Lettuce, leaf	4	19,497	5,708	33,793
San luis obispo	Broccoli	5	13,515	2,856	28,168
San mateo	Brussels sprout	1	42,028	540	6,373
San mateo	N-grnhs plants in containers	2	376	897	1,041
San mateo	Uncultivated non-ag	3	102	0	812
San mateo	Water (industrial)	4	6,990	0	627
San mateo	Grape, wine	5	1,294	226	555
Santa barbara	Strawberry	1	3,440,480	17,769	566,941
Santa barbara	Grape, wine	2	960,410	8,802	379,143
Santa barbara	Lettuce, head	3	52,350	11,350	129,939
Santa barbara	Broccoli	4	40,501	9,914	94,405
Santa barbara	Lettuce, leaf	5	43,901	11,231	93,396
Santa clara	N-grnhs transplants	1	1,748	4,990	253,590
Santa clara	Tomato	2	58,749	1,106	32,929
Santa clara	Pepper, fruiting	3	187,147	1,411	32,741

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Santa clara	Lettuce, leaf	4	19,716	3,898	32,251
Santa clara	Cherry	5	8,749	550	16,462
Santa cruz	Strawberry	1	681,909	3,305	70,677
Santa cruz	Blackberry	2	117,241	2,535	28,348
Santa cruz	Lettuce, head	3	15,228	2,526	22,359
Santa cruz	Raspberry	4	233,702	1,580	22,168
Santa cruz	Lettuce, leaf	5	15,058	2,598	20,737
Shasta	Forest, timberland	1	42,163	1,238	31,488
Shasta	Walnut	2	10,909	637	14,777
Shasta	Forage hay/silage	3	3,106	86	4,292
Shasta	Timothy	4	2,612	78	4,011
Shasta	Rice, wild	5	33,035	41	3,012
Sierra	Alfalfa	1	299	9	685
Sierra	Forest, timberland	2	16	1	542
Sierra	Wheat (forage - fodder)	3	61	1	60
Sierra	Uncultivated non-ag	4	3	0	5
Siskiyou	Alfalfa	1	29,991	1,060	60,795
Siskiyou	Strawberry	2	75,318	1,362	53,341
Siskiyou	Potato	3	29,063	583	27,611
Siskiyou	Forest, timberland	4	20,386	471	17,250
Siskiyou	Forage hay/silage	5	7,932	109	10,134
Solano	Almond	1	296,609	3,408	258,588
Solano	Tomato, processing	2	349,019	3,293	171,359
Solano	Grape, wine	3	306,446	2,891	70,104
Solano	Alfalfa	4	45,875	1,312	61,817
Solano	Walnut	5	29,572	1,010	43,722
Sonoma	Grape, wine	1	2,158,377	46,060	837,273

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Sonoma	Apple	2	51,567	700	5,724
Sonoma	Oat	3	1,266	12	1,844
Sonoma	Uncultivated ag	4	1,605	31	1,554
Sonoma	N-outdr plants in containers	5	463	588	1,516
Stanislaus	Almond	1	2,754,403	48,322	2,362,814
Stanislaus	Walnut	2	268,565	5,607	162,735
Stanislaus	Corn (forage - fodder)	3	100,437	3,337	131,137
Stanislaus	Tomato, processing	4	231,564	1,815	97,596
Stanislaus	Grape, wine	5	338,573	1,794	83,431
Sutter	Rice	1	1,147,784	5,647	528,248
Sutter	Walnut	2	256,501	5,921	171,406
Sutter	Almond	3	94,061	2,827	128,128
Sutter	Tomato, processing	4	172,499	1,209	77,641
Sutter	Peach	5	192,892	5,082	71,553
Tehama	Almond	1	186,782	4,517	218,599
Tehama	Walnut	2	271,622	8,206	186,661
Tehama	Prune	3	40,388	880	24,343
Tehama	Olive	4	40,189	696	19,418
Tehama	Forest, timberland	5	20,192	484	13,311
Trinity	Forest, timberland	1	12,612	251	11,481
Tulare	Orange	1	5,150,432	62,239	1,147,881
Tulare	Almond	2	1,414,708	19,293	1,016,548
Tulare	Grape	3	2,316,324	20,970	858,493
Tulare	Pistachio	4	700,564	14,210	783,758
Tulare	Corn (forage - fodder)	5	284,648	7,105	387,623
Tuolumne	Forest, timberland	1	16,800	253	6,137
Tuolumne	Water area	2	1,127	0	358

County	Commodity or Site	Rank	Pounds Applied	Apps	Acres Treated
Tuolumne	Golf course turf	3	184	0	179
Tuolumne	Rights of way	4	8,170	3	150
Tuolumne	Animal premise	5	< 1	7	145
Ventura	Strawberry	1	3,551,029	12,650	592,278
Ventura	Celery	2	83,231	9,170	171,384
Ventura	Lemon	3	1,003,348	9,308	160,636
Ventura	Pepper, fruiting	4	280,282	3,346	80,264
Ventura	Avocado	5	228,623	5,691	56,562
Yolo	Almond	1	285,104	5,369	335,905
Yolo	Grape, wine	2	1,546,587	8,086	278,024
Yolo	Tomato, processing	3	399,939	4,180	247,356
Yolo	Rice	4	385,773	1,179	129,314
Yolo	Uncultivated ag	5	264,713	1,196	83,304
Yuba	Rice	1	358,415	2,990	193,416
Yuba	Walnut	2	145,900	2,359	96,830
Yuba	Prune	3	88,519	1,010	40,969
Yuba	Almond	4	19,270	481	23,530
Yuba	Peach	5	60,311	1,925	22,390