

The Top Five Commodities by Pounds Applied in each County in 2021

Text files of data are available at <https://files.cdpr.ca.gov/pub/outgoing/pur/data/>. 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 under Apps or Acre Treated therefore means that the pounds applied were nonagricultural uses. Values are rounded. N-outdoor = Outdoor nursery. N-grnhs = Greenhouse nursery. See Pesticide Use Annual Report Data Access, References, and Definitions Guide for more information.

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Alameda	Structural pest control	100,323	<0.01	<0.01
Alameda	Grape, wine	43,604	5,741	41,420
Alameda	Landscape maintenance	36,918	<0.01	<0.01
Alameda	Rights of way	31,438	<0.01	<0.01
Alameda	Water (industrial)	9,435	<0.01	3
Alpine	Alfalfa	321	4	280
Alpine	Structural pest control	214	<0.01	<0.01
Alpine	Rangeland	84	6	63
Alpine	Uncultivated non-ag	16	<0.01	12
Alpine	Landscape maintenance	4	<0.01	<0.01
Amador	Grape, wine	83,676	3,553	41,465
Amador	Forest, timberland	12,100	172	4,910
Amador	Rights of way	5,906	3	15
Amador	Landscape maintenance	2,298	3	6
Amador	Alfalfa	2,102	53	2,697
Butte	Rice	1,060,258	7,057	573,925
Butte	Walnut	834,033	20,373	832,833
Butte	Almond	306,512	10,162	419,856
Butte	Uncultivated ag	137,118	201	7,977

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Butte	Forest, timberland	87,799	906	43,994
Calaveras	Forest, timberland	22,995	524	7,199
Calaveras	Grape, wine	10,447	748	6,779
Calaveras	Landscape maintenance	9,230	2	2
Calaveras	Rights of way	8,928	4	61
Calaveras	Walnut	2,705	83	2,445
Colusa	Rice	936,504	9,706	662,198
Colusa	Almond	538,827	13,765	780,246
Colusa	Walnut	229,012	4,257	225,887
Colusa	Tomato, processing	219,957	3,099	191,028
Colusa	Uncultivated ag	74,464	1,128	74,179
Contra Costa	Water area	55,955	<0.01	7,004
Contra Costa	Grape, wine	52,542	1,880	18,178
Contra Costa	Rights of way	49,007	4	4
Contra Costa	Structural pest control	45,304	<0.01	<0.01
Contra Costa	Landscape maintenance	43,351	<0.01	<0.01
Del Norte	Soil fumigation/preplant	193,859	90	677
Del Norte	N-outdr flower	26,199	1,651	12,330
Del Norte	Forest, timberland	6,220	131	3,286
Del Norte	Structural pest control	272	<0.01	<0.01
Del Norte	N-grnhs plants in containers	221	381	160
El Dorado	Forest, timberland	101,742	2,192	32,536
El Dorado	Grape, wine	49,922	3,487	28,090
El Dorado	Rights of way	26,482	16	169
El Dorado	Landscape maintenance	20,759	2	3
El Dorado	Structural pest control	15,388	<0.01	<0.01
Fresno	Almond	8,414,970	88,092	4,977,619
Fresno	Tomato, processing	4,399,246	7,745	874,208
Fresno	Grape	3,548,300	49,096	1,429,297
Fresno	Grape, wine	2,206,315	12,713	889,690
Fresno	Pistachio	1,721,816	24,812	2,118,094
Glenn	Rice	679,335	8,507	482,858
Glenn	Almond	619,540	14,050	803,526
Glenn	Walnut	450,219	11,891	399,162
Glenn	Olive	83,583	1,733	44,953
Glenn	Rights of way	66,845	<0.01	<0.01

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Humboldt	Water (industrial)	84,561	<0.01	3
Humboldt	Forest, timberland	24,960	1,140	23,219
Humboldt	Rights of way	10,601	<0.01	<0.01
Humboldt	Structural pest control	5,009	<0.01	<0.01
Humboldt	Cannabis (all or unspecified)	2,426	1,781	167
Imperial	Alfalfa	1,039,450	22,951	1,512,033
Imperial	Bermudagrass	686,661	2,341	176,822
Imperial	Sugarbeet	613,961	4,598	329,254
Imperial	Rights of way	575,765	<0.01	<0.01
Imperial	Carrot	566,888	1,869	96,503
Inyo	Rights of way	14,153	<0.01	<0.01
Inyo	Alfalfa	1,454	43	1,816
Inyo	N-grnhs flower	431	<0.01	491
Inyo	Structural pest control	173	<0.01	<0.01
Inyo	Landscape maintenance	70	<0.01	<0.01
Kern	Almond	6,706,262	57,271	3,618,660
Kern	Grape	4,108,427	41,582	1,824,552
Kern	Orange	2,689,356	15,958	610,098
Kern	Carrot	2,668,543	2,471	151,293
Kern	Pistachio	2,187,322	23,978	1,772,855
Kings	Tomato, processing	1,762,136	2,873	399,836
Kings	Almond	1,050,891	14,488	688,528
Kings	Cotton	679,466	9,493	1,628,250
Kings	Pistachio	662,833	12,763	747,848
Kings	Soil fumigation/preplant	662,657	1,305	263,591
Lake	Grape, wine	332,635	4,871	143,929
Lake	Pear	196,498	1,987	36,829
Lake	Landscape maintenance	19,134	61	237
Lake	Water area	6,806	7	304
Lake	Rights of way	6,105	100	835
Lassen	Strawberry	79,871	162	6,785
Lassen	Forest, timberland	40,326	430	25,709
Lassen	Rights of way	14,300	21	199
Lassen	Uncultivated ag	12,724	5	212
Lassen	Alfalfa	10,784	538	47,165
Los Angeles	Structural pest control	1,003,169	<0.01	<0.01
Los Angeles	Carrot	425,940	309	25,437

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Los Angeles	Water (industrial)	294,497	<0.01	<0.01
Los Angeles	Rights of way	253,573	<0.01	<0.01
Los Angeles	Landscape maintenance	128,385	241	1,558
Madera	Almond	4,356,117	51,115	2,825,628
Madera	Grape, wine	1,826,442	9,511	575,242
Madera	Grape	1,340,373	8,938	382,908
Madera	Pistachio	594,910	12,522	830,924
Madera	Tangerine	181,653	916	46,867
Marin	Landscape maintenance	29,569	7	20
Marin	Structural pest control	19,310	<0.01	<0.01
Marin	Water area	11,706	<0.01	6
Marin	Water (industrial)	7,328	<0.01	177
Marin	Grape, wine	4,388	182	1,282
Mariposa	Landscape maintenance	2,719	<0.01	<0.01
Mariposa	Rights of way	2,318	1	4
Mariposa	Olive	1,453	64	728
Mariposa	Water area	439	2	115
Mariposa	Structural pest control	170	<0.01	<0.01
Mendocino	Lumber, treated	1,473,468	<0.01	<0.01
Mendocino	Grape, wine	576,696	7,122	165,013
Mendocino	Pear	115,652	776	28,284
Mendocino	Forest, timberland	8,499	270	6,064
Mendocino	Structural pest control	7,237	<0.01	<0.01
Merced	Almond	2,804,491	48,613	2,462,394
Merced	Sweet potato	1,479,491	1,068	29,664
Merced	Tomato, processing	1,282,805	4,712	291,412
Merced	Grape, wine	576,802	3,257	220,492
Merced	N-outdr transplants	286,940	970	22,665
Modoc	Potato	35,710	558	34,495
Modoc	Alfalfa	31,896	1,696	109,674
Modoc	Rights of way	20,701	2	100
Modoc	Onion, dry	9,565	348	23,506
Modoc	Forest, timberland	8,093	24	5,501
Mono	Alfalfa	5,071	118	7,265
Mono	Landscape maintenance	432	4	10
Mono	Forage hay/silage	326	7	514
Mono	Rights of way	205	<0.01	<0.01

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Mono	Structural pest control	118	<0.01	<0.01
Monterey	Strawberry	3,351,910	21,431	558,560
Monterey	Grape, wine	2,018,151	43,170	1,353,668
Monterey	Lettuce, leaf	883,790	162,360	1,478,294
Monterey	Lettuce, head	452,284	87,142	946,059
Monterey	Broccoli	380,640	52,030	547,390
Napa	Grape, wine	1,031,812	49,772	638,122
Napa	Water area	18,814	6	486
Napa	Fumigation, other	15,471	<0.01	<0.01
Napa	Landscape maintenance	9,657	<0.01	<0.01
Napa	Rights of way	5,723	<0.01	<0.01
Nevada	Rights of way	23,767	11	32
Nevada	Grape, wine	19,241	299	5,430
Nevada	Landscape maintenance	10,334	9	7
Nevada	Forest, timberland	6,154	96	3,515
Nevada	Structural pest control	1,562	<0.01	<0.01
Orange	Structural pest control	523,366	<0.01	<0.01
Orange	Landscape maintenance	134,529	2	11
Orange	Water (industrial)	51,725	<0.01	<0.01
Orange	Rights of way	48,377	27	41
Orange	Strawberry	46,478	167	2,705
Placer	Rice	79,742	981	46,703
Placer	Rights of way	47,051	4	4
Placer	Walnut	42,738	944	38,230
Placer	Structural pest control	37,800	<0.01	<0.01
Placer	Almond	36,076	343	30,737
Plumas	Forest, timberland	45,910	433	25,591
Plumas	Structural pest control	17,275	<0.01	<0.01
Plumas	Rights of way	13,983	8	8
Plumas	Water (industrial)	5,154	<0.01	<0.01
Plumas	Regulatory pest control	4,422	<0.01	<0.01
Riverside	Pepper, fruiting	536,118	2,533	68,368
Riverside	Lemon	398,776	2,148	98,400
Riverside	Alfalfa	366,020	18,095	712,829
Riverside	Structural pest control	323,960	<0.01	<0.01

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Riverside	Grape	180,950	5,961	167,562
Sacramento	Grape, wine	2,892,443	15,878	659,450
Sacramento	Pear	673,575	3,451	137,058
Sacramento	Rice	111,944	927	71,528
Sacramento	Structural pest control	103,687	<0.01	<0.01
Sacramento	Rights of way	45,886	7	6
San Benito	Grape, wine	146,870	3,957	85,976
San Benito	Pepper, fruiting	122,792	1,504	33,877
San Benito	Lettuce, leaf	107,845	15,891	104,814
San Benito	Broccoli	55,247	3,251	29,512
San Benito	Uncultivated ag	28,007	1,930	15,059
San Bernardino	Landscape maintenance	209,468	65	894
San Bernardino	Structural pest control	123,929	1	1
San Bernardino	Rights of way	80,827	34	275
San Bernardino	Water (industrial)	47,305	<0.01	53
San Bernardino	Water area	20,412	2	2,394
San Diego	Structural pest control	573,126	3	3
San Diego	Tomato	181,919	1,623	66,276
San Diego	Landscape maintenance	126,860	<0.01	<0.01
San Diego	Avocado	102,634	3,258	40,938
San Diego	Rights of way	99,050	12	2
San Francisco	Water (industrial)	11,838	<0.01	<0.01
San Francisco	N-grnhs transplants	6,122	<0.01	3,582
San Francisco	Structural pest control	4,570	<0.01	<0.01
San Francisco	N-grnhs flower	4,181	<0.01	1,910
San Francisco	Landscape maintenance	3,667	<0.01	<0.01
San Joaquin	Grape, wine	5,725,963	42,274	1,331,545
San Joaquin	Almond	1,914,908	37,782	1,581,993
San Joaquin	Walnut	871,152	25,755	863,448
San Joaquin	Tomato, processing	764,824	4,840	240,921
San Joaquin	Cherry	569,332	21,124	353,075
San Luis Obispo	Strawberry	1,351,303	9,876	344,933
San Luis Obispo	Grape, wine	849,634	18,411	633,398
San Luis Obispo	Carrot	195,456	440	23,204
San Luis Obispo	Avocado	76,652	656	12,891
San Luis Obispo	Chinese cabbage (napa, won bok, celery cabbage)	69,865	3,142	19,033

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
San Mateo	Structural pest control	74,531	<0.01	<0.01
San Mateo	Landscape maintenance	56,243	4	4
San Mateo	Brussels sprout	43,093	625	7,448
San Mateo	Public health	12,280	<0.01	<0.01
San Mateo	Rights of way	8,167	<0.01	<0.01
Santa Barbara	Strawberry	3,435,786	24,569	785,445
Santa Barbara	Grape, wine	981,316	12,816	544,870
Santa Barbara	Carrot	459,470	771	36,746
Santa Barbara	Lemon	133,167	1,438	19,344
Santa Barbara	N-outdr flower	103,942	7,417	34,934
Santa Clara	Structural pest control	306,548	<0.01	<0.01
Santa Clara	Pepper, fruiting	153,078	1,966	50,477
Santa Clara	Water (industrial)	80,078	<0.01	48
Santa Clara	Landscape maintenance	67,001	46	55
Santa Clara	Uncultivated ag	61,122	550	6,394
Santa Cruz	Strawberry	705,129	4,698	108,819
Santa Cruz	Raspberry	244,046	2,049	29,365
Santa Cruz	Blackberry	84,506	3,258	28,755
Santa Cruz	Brussels sprout	68,157	766	13,214
Santa Cruz	Apple	63,345	729	12,881
Shasta	Rights of way	104,636	23	474
Shasta	Forest, timberland	89,524	1,449	56,978
Shasta	Soil fumigation/preplant	40,661	9	109
Shasta	Rice, wild	32,634	58	3,753
Shasta	Water (industrial)	19,475	<0.01	1
Sierra	Forest, timberland	1,396	26	806
Sierra	Alfalfa	334	10	648
Sierra	Landscape maintenance	102	<0.01	<0.01
Sierra	Rights of way	61	<0.01	<0.01
Sierra	Forage hay/silage	45	2	80
Siskiyou	Soil fumigation/preplant	1,053,550	175	2,938
Siskiyou	Forest, timberland	77,232	625	23,593
Siskiyou	Strawberry	55,414	1,447	49,211
Siskiyou	Potato	42,240	611	37,139
Siskiyou	Alfalfa	41,741	1,791	106,873
Solano	Water (industrial)	370,464	<0.01	91
Solano	Almond	329,441	3,961	270,600

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Solano	Grape, wine	286,456	3,749	90,048
Solano	Tomato, processing	209,104	3,015	122,152
Solano	Walnut	74,996	2,804	94,932
Sonoma	Grape, wine	2,519,616	54,435	995,567
Sonoma	Landscape maintenance	46,975	6	9
Sonoma	Apple	44,678	635	4,251
Sonoma	Structural pest control	44,493	<0.01	<0.01
Sonoma	Fumigation, other	13,042	6	5
Stanislaus	Almond	4,427,366	71,206	3,320,244
Stanislaus	Walnut	589,591	14,426	453,521
Stanislaus	Grape, wine	377,353	2,268	107,601
Stanislaus	Tomato, processing	236,675	1,185	68,834
Stanislaus	Structural pest control	221,952	<0.01	<0.01
Sutter	Rice	948,302	6,306	532,562
Sutter	Walnut	502,356	12,072	366,966
Sutter	Peach	237,790	6,327	101,652
Sutter	Tomato, processing	182,450	1,490	102,647
Sutter	Prune	174,955	2,567	77,224
Tehama	Walnut	393,048	16,365	423,436
Tehama	Almond	256,125	6,462	306,292
Tehama	Soil fumigation/preplant	129,930	18	370
Tehama	Uncultivated ag	99,189	1,013	8,854
Tehama	Commodity fumigation	54,911	<0.01	<0.01
Trinity	Forest, timberland	22,832	350	18,036
Trinity	Rights of way	8,880	<0.01	<0.01
Trinity	N-outdr transplants	193	2	74
Trinity	Landscape maintenance	49	<0.01	<0.01
Trinity	Structural pest control	16	<0.01	<0.01
Tulare	Orange	6,123,967	79,345	1,460,799
Tulare	Grape	2,271,900	26,826	1,059,200
Tulare	Almond	2,082,929	27,092	1,411,182
Tulare	Tangerine	1,609,988	23,928	499,220
Tulare	Pistachio	809,890	18,708	1,060,204
Tuolumne	Forest, timberland	37,208	593	18,926
Tuolumne	Rights of way	18,046	9	5
Tuolumne	Landscape maintenance	5,674	<0.01	<0.01

County	Commodity or Site	Pounds Applied	Apps	Acre Treated
Tuolumne	Structural pest control	1,234	<0.01	<0.01
Tuolumne	Water area	379	<0.01	152
Ventura	Strawberry	3,172,661	17,676	733,582
Ventura	Lemon	1,482,580	12,445	215,721
Ventura	Avocado	232,170	5,967	78,338
Ventura	Pepper, fruiting	204,931	3,200	59,379
Ventura	Celery	130,656	14,421	233,491
Yolo	Grape, wine	1,652,493	12,328	388,491
Yolo	Tomato, processing	523,878	3,787	232,465
Yolo	Almond	293,256	6,564	411,717
Yolo	Uncultivated ag	180,815	2,068	141,127
Yolo	Rice	126,408	907	88,864
Yuba	Rice	391,627	4,086	246,438
Yuba	Walnut	238,303	5,009	198,701
Yuba	Soil fumigation/preplant	146,783	18	522
Yuba	Prune	108,088	1,144	43,018
Yuba	Peach	78,863	2,416	29,159