

2022 STANDING ACREAGE - FINAL ESTIMATE

In cooperation with the Almond Board of California

Released: November 15, 2022



RESULTS

Each year Land IQ produces an in-year, statewide almond acreage estimate. This estimate is the result of extensive ground truthing and advanced remote sensing analytics, allowing Land IQ to differentiate almond orchards from other tree and annual crops.

The result is a highly accurate mapping of almonds that are a minimum of three years old. Almond orchards that are less than 3 years old cannot be consistently differentiated from other similarly aged tree crops using remotely sensed methods. The ground truthing data, proportionality of almonds to other tree crops, and other lines of evidence are used to numerically estimate acreage for orchards that are one and two years old. Both the remotely sensed and numerical estimates are combined for a total statewide acreage estimate. The 2022 estimate is 98.8% accurate.

As a result, the 2022 acreage estimate is:

- **294,289 non-bearing acres**
(defined as those orchards planted in 2020, 2021, and 2022)
- **1,342,920 bearing acres**
(defined as those orchards planted in 2019 and earlier)
- **1,637,209 total acres**
(defined as total standing acres during the growing season of 2022)

Each mapping year, Land IQ not only maps all almond orchards within the state, but also applies a separate algorithm to quantify the age of each individual orchard. The accuracy of this estimate is greater than 95% at +/- 1 year. Based on that analysis, Land IQ determined that :

- 18 percent of California's almond orchards were 1-3 years old,
- 42 percent were between 4 and 10 years old,
- 30 percent were between 11 and 20 years old,
- 5 percent were between 21 and 25 years old, and
- 5 percent were over 25 years old.

INTRODUCTION

Beginning in 2019, the Almond Board of California (ABC) began an annual mapping process with two acreage summaries, one delivered in April and one delivered in November, of the same production year. Land IQ's April delivery aligns with the United States Department of Agriculture (USDA) – National Agricultural Statistics Service (NASS) California Almond Forecast, which is an initial subjective forecast for acreage and production.

APPROACH

Land IQ draws upon multiple lines of evidence including agronomic and remote sensing knowledge, unique field boundaries, robust on-the-ground verification, customized image analysis, artificial intelligence and machine learning algorithms to classify almond orchards.

For each mapped year, the following steps are taken as the basis for determination of bearing acreage and the numerical estimate of non-bearing acreage.

Imagery Acquisition

Evaluate and acquire imagery from various sources based upon cost and spectral, spatial and temporal resolution suitability. New imagery sources allow for annual mapping of almonds.

Field Boundary Delineation

Utilize imagery and other resources to delineate individual fields defined as a homogenous crop. These boundaries are not legal boundaries of the property and do not include roads, homes or farmsteads. Irrigated field boundary positional accuracies are +/- 6 feet at a 95% confidence interval.

Ground Truthing

Identify and geo-reference crops through thousands of miles of actual verified orchards from Tehama to Kern County. These data provide necessary training data for algorithms as well as validation data for the classification.

Remote Sensing Analysis

Utilize custom image analysis, artificial intelligence, and machine learning algorithms to determine crop type. This allows for the differentiation of almond orchards from other tree and annual crops. Accuracy assessments are performed using statistical probability and validated against ground truth information.

Change Analysis and Update

Determine which orchards have been removed or added using a change analysis as part of the overall remote sensing efforts.

Non-Bearing Estimate

During the second mapping event, an estimate of non-bearing acreage is conducted, taking into account the data collected with ground truthing in the summer months.

2022 Standing Almond Acreage by County, Year Planted

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Alameda	0	0	0	0	0	0	0	0	0	0	0
Butte	5,750	52	202	242	143	177	347	178	409	506	182
Calaveras	12	0	0	0	0	0	0	0	0	5	0
Colusa	639	10	50	24	16	47	333	78	100	285	516
Contra Costa	3	0	0	0	0	0	0	0	0	0	0
Fresno	205	74	0	1	85	105	571	163	389	250	209
Glenn	959	47	58	77	6	286	161	159	252	449	432
Kern	271	35	0	0	36	172	57	46	58	118	293
Kings	0	0	0	0	0	0	0	0	2	0	0
Lake	0	0	0	0	0	0	12	0	0	25	0
Madera	1,773	9	139	65	12	118	100	105	112	711	801
Merced	7,260	216	142	342	423	569	943	542	802	1,338	905
Placer	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0
Sacramento	8	0	0	0	0	0	0	0	0	0	0
San Joaquin	4,422	219	83	142	261	245	316	122	224	441	180
San Luis Obispo	89	19	21	24	9	31	63	6	45	12	1,723
Shasta	0	0	0	0	0	0	0	0	0	2	0
Solano	190	0	36	0	49	8	43	0	53	112	31
Stanislaus	9,650	279	312	478	540	278	754	653	698	1,255	1,668
Sutter	421	36	2	51	11	36	139	56	73	43	125
Tehama	376	7	23	0	0	11	21	26	0	0	5
Tulare	187	0	0	0	0	0	3	78	75	208	152
Yolo	121	0	1	5	37	19	175	0	3	352	132
Yuba	0	0	0	0	0	0	0	0	0	36	2
Grand Total	32,337	1,004	1,069	1,451	1,626	2,102	4,036	2,212	3,294	6,145	7,356

Source: Land IQ. California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

*The county level, non-bearing acreages for 2020 are approximately 75% spatially mapped and age-verified orchards. The remaining 2020 acreages are numerically estimated according to the spatially mapped acreage and ground truthing during 2022. While bearing acreage mapping has been validated with an accuracy of 98.8%, non-bearing numerical acreage estimates should be understood to have an estimated +/-10% potential variability.

**The estimated non-bearing acreages for 2021 and 2022 are numeric estimates only and are based on extensive ground truthing, image analysis, and other lines of evidence. While bearing acreage mapping has been validated with an accuracy of 98.8%, non-bearing numerical acreage estimates should be understood to have an estimated +/-10% potential variability.

2022 Standing Almond Acreage by County, Year Planted

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Alameda	0	0	0	0	0	0	0	0	0	0	0
Butte	330	103	399	902	464	573	364	612	507	1,292	1,111
Calaveras	0	0	0	0	0	0	0	0	0	0	0
Colusa	221	345	1,332	635	1,958	1,276	1,574	1,142	2,068	5,252	3,699
Contra Costa	0	0	0	25	0	0	2	0	0	0	0
Fresno	38	298	1,781	2,015	2,204	4,134	3,717	5,398	5,194	10,485	14,990
Glenn	266	436	606	184	278	391	465	536	1,551	1,811	2,456
Kern	178	1,049	1,005	3,090	2,417	1,525	1,228	2,549	5,660	12,604	16,803
Kings	0	0	105	570	393	288	238	1,051	136	851	1,223
Lake	0	0	0	0	0	0	0	0	0	0	0
Madera	580	774	1,554	1,163	981	1,747	1,395	2,178	3,644	5,738	6,312
Merced	951	1,915	2,330	1,432	1,884	2,109	2,222	1,988	3,020	6,492	6,553
Placer	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	2	0	0	0	0	0	0	0
San Joaquin	362	1,054	775	866	1,332	1,082	1,274	1,102	1,349	2,608	2,236
San Luis Obispo	138	3	0	0	0	0	0	0	9	0	0
Shasta	0	0	0	3	0	0	0	0	0	0	0
Solano	117	0	5	159	87	114	146	34	148	153	508
Stanislaus	1,293	1,532	2,025	3,190	2,553	2,850	1,618	3,188	3,044	10,465	7,436
Sutter	1	47	603	172	153	74	114	0	126	744	201
Tehama	59	137	264	108	146	346	301	221	239	590	269
Tulare	106	148	176	253	614	122	120	534	1,046	2,199	2,266
Yolo	173	243	446	200	459	194	285	175	609	1,311	1,480
Yuba	0	0	0	0	48	47	0	0	0	86	47
Grand Total	4,814	8,084	13,405	14,970	15,972	16,873	15,064	20,707	28,350	62,681	67,590

Source: Land IQ. California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

*The county level, non-bearing acreages for 2020 are approximately 75% spatially mapped and age-verified orchards. The remaining 2020 acreages are numerically estimated according to the spatially mapped acreage and ground truthing during 2022. While bearing acreage mapping has been validated with an accuracy of 98.8%, non-bearing numerical acreage estimates should be understood to have an estimated +/-10% potential variability.

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2022 Standing Almond Acreage by County, Year Planted

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Alameda	0	0	0	0	0	0	0	0	146	377	165
Butte	598	724	3,530	1,288	1,205	633	385	601	655	938	2,098
Calaveras	0	0	0	0	33	0	0	0	0	100	102
Colusa	3,559	2,084	3,037	2,505	2,071	2,058	1,219	1,884	1,446	2,226	5,539
Contra Costa	0	50	0	0	0	0	0	0	0	0	55
Fresno	15,561	10,991	6,201	5,514	5,622	8,467	9,271	12,277	17,076	20,100	25,844
Glenn	1,757	1,737	4,347	1,137	610	2,215	1,596	1,960	2,434	464	5,580
Kern	14,711	6,813	5,354	5,594	4,416	8,685	6,432	8,800	9,557	11,424	19,241
Kings	1,220	1,000	756	823	768	404	1,425	2,209	2,495	3,722	6,936
Lake	0	0	0	0	0	0	0	0	0	0	0
Madera	8,079	7,481	11,542	5,747	2,943	9,043	4,391	7,729	12,093	7,720	11,331
Merced	6,160	7,957	2,648	3,145	2,599	3,383	3,487	4,925	10,468	7,287	10,911
Placer	0	0	0	0	0	0	0	0	21	0	1,032
Riverside	6	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	14	0	0	0	0	0	68	185	932
San Joaquin	1,903	2,109	1,748	1,178	1,307	2,998	3,123	4,048	7,118	4,427	7,686
San Luis Obispo	0	5	0	0	0	0	0	0	31	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0
Solano	361	112	86	121	38	128	13	181	2,664	4,863	4,540
Stanislaus	6,341	6,841	5,899	4,887	3,523	8,462	6,656	9,811	12,493	9,153	12,498
Sutter	611	622	212	414	172	372	60	366	380	438	2,566
Tehama	510	1,110	1,265	341	109	298	510	1,211	1,438	594	3,517
Tulare	2,431	2,306	1,670	2,348	2,361	3,073	1,964	1,081	7,895	7,609	11,666
Yolo	1,703	1,177	1,227	1,962	475	1,805	537	2,657	3,990	4,202	5,451
Yuba	214	14	9	0	7	31	0	224	164	216	345
Grand Total	65,725	53,132	49,547	37,004	28,257	52,057	41,069	59,964	92,632	86,045	138,036

Source: Land IQ. California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

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2022 Standing Almond Acreage by County, Year Planted

	2017	2018	2019	2020*	2021-2022**	Bearing Grand Total	Non-Bearing Estimate	Grand Total
Alameda	0	0	722	0		1,410		1,410
Butte	1,596	1,816	1,388	1,091		32,298		33,388
Calaveras	0	0	0	0		252		252
Colusa	3,416	3,765	4,126	2,939		60,535		63,474
Contra Costa	234	18	218	1,480		607		825
Fresno	24,175	22,052	14,517	16,292		249,975		266,267
Glenn	4,688	4,513	2,373	5,261		47,276		49,649
Kern	12,247	18,733	12,587	10,053		193,788		203,841
Kings	2,454	3,209	2,416	2,354		34,696		37,112
Lake	0	0	0	0		36		36
Madera	11,610	7,182	7,844	5,180		144,748		152,592
Merced	8,334	13,721	12,449	7,965		141,851		149,816
Placer	0	885	325	1,164		2,262		2,587
Riverside	0	0	0	0		6		6
Sacramento	172	1,360	294	597		3,034		3,329
San Joaquin	7,125	9,274	7,662	9,745		82,403		92,148
San Luis Obispo	3	0	0	0		2,231		2,231
Shasta	0	0	0	0		5		5
Solano	2,532	1,886	2,019	1,121		21,537		23,556
Stanislaus	9,257	12,970	11,720	9,180		176,267		185,448
Sutter	401	2,085	2,192	2,522		14,118		16,310
Tehama	833	1,996	1,130	2,172		18,011		20,184
Tulare	5,425	10,389	3,415	8,605		71,919		75,334
Yolo	3,915	3,253	2,177	2,820		40,950		43,770
Yuba	55	389	771	443		2,704		3,475
Grand Total	98,471	119,495	90,344	90,986		1,342,920	294,289	1,637,209

Source: Land IQ. California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

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**The estimated non-bearing acreages for 2021 and 2022 are numeric estimates only and are based on extensive ground truthing, image analysis, and other lines of evidence. While bearing acreage mapping has been validated with an accuracy of 98.8%, non-bearing numerical acreage estimates should be understood to have an estimated +/-10% potential variability.

2022 REMOVALS UPDATE

In cooperation with the Almond Board of California

Released: November 15, 2022



RESULTS

Each year Land IQ produces an initial bearing acreage estimate in April, which includes a removals analysis as of March 31, 2022. In addition to the spatial analysis, a numerical estimate of orchards to be removed between April 1, 2022 and August 31, 2022 was provided based on actual ground truthing, historical analyses, and current conditions.

Beginning in 2021, due to extreme drought and significant water supply issues, Land IQ began performing an additional analysis to determine how many acres were removed during the crop year or in various degrees of abandonment.

As a result, the 2022 removals estimate was updated:

- 41,832 - Acres removed: September 1, 2021 - March 31, 2022
- 18,589 - Acres removed: April 1, 2022 - August 31, 2022
- 60,421 - Total Acres removed in 2022 crop year

Considering abandoned orchards may have the ability to recover dependent on conditions, the number of acres in various degrees of abandonment was also analyzed. These orchards are included in the standing acreage numbers provided, as they have not been removed.

- 17,545 acres - Stressed in Crop Year (CY) 2022
- 5,964 acres - Abandoned in CY 2022 or 2021
- 6,309 acres - Long Term Abandoned

DEFINITIONS

The spatial analyses of removed and abandoned orchards resulted in varied conditions among orchards. As a result, Land IQ has defined the following conditions:

Removed Orchards

Orchards that were removed between September 1, 2021 and August 31, 2022.

Abandoned Orchards

Orchards that were in various levels of abandonment:

- **Stressed - CY 2022** - These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in Normalized Difference Vegetative Index (NDVI) in the late summer or early fall, but have likely been irrigated for some of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment. Although not always true, it is assumed that most of these orchards will produce in future years. Condition of these orchards will continue to be monitored.
- **Abandoned - CY 2022** - These orchards are clearly abandoned within the 2021 or 2022 crop year and appear not to have been irrigated for most or all of the year.
- **Long Term Abandoned** - These orchards have been abandoned prior to the 2021 or 2022 crop year, but have not yet been removed.

Table 1. Removed and Abandoned Acreage by County

County	Removed Acreage	Abandoned Acreage	County	Removed Acreage	Abandoned Acreage
Alameda	0	0	Placer	0	0
Butte	1,575	283	Riverside	0	6
Calaveras	0	17	Sacramento	1	1
Colusa	2,473	940	San Joaquin	1,567	2,162
Contra Costa	0	5	San Luis Obispo	0	2,223
Fresno	14,023	6,531	Shasta	0	2
Glenn	4,660	857	Solano	75	353
Kern	13,078	6,467	Stanislaus	6,355	1,608
Kings	1,810	2,534	Sutter	305	63
Lake	1	36	Tehama	464	53
Madera	4,655	2,258	Tulare	2,876	731
Mariposa	4	0	Yolo	804	1,305
Merced	5,530	1,270	Yuba	165	112

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1984				1985				1986			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	602	9	67	45	0	0	0	0	0	0	0	0
Calaveras	0	0	0	12	0	0	0	0	0	0	0	0
Colusa	102	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	0	0	0	3	0	0	0	0	0	0	0	0
Fresno	20	0	10	52	0	0	0	0	0	0	0	0
Glenn	165	21	0	10	0	0	0	0	0	0	0	0
Kern	76	0	0	0	0	0	0	0	0	0	0	0
Kings	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	0	0	0	19	0	0	0	0	51	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	482	139	0	39	63	0	0	0	0	0	0	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	1	0	0	0	0	0	0	0	0
San Joaquin	408	85	36	7	0	0	0	0	0	0	0	0
San Luis Obispo	0	0	0	84	0	0	0	19	0	0	0	21
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	5	0	18	0	0	0	0	0	0	0	0
Stanislaus	743	56	122	64	1	0	2	0	23	28	10	6
Sutter	3	0	0	0	0	0	0	0	0	0	0	0
Tehama	39	3	0	0	0	0	0	0	0	0	0	0
Tulare	0	0	0	0	0	0	0	0	0	0	0	0
Yolo	0	0	0	74	0	0	0	0	0	0	0	1
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	2,640	317	235	427	64	0	2	19	74	28	10	28

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1987				1988				1989			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	0	0	0	0	0	0	0	4	0	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	30	0	0	0	38	0	0	0	0	0	0	5
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	0	0	0	0	0	5	0	67	52	0	0	0
Glenn	0	0	0	0	78	0	0	6	0	0	0	0
Kern	0	0	0	0	89	0	0	0	77	0	0	0
Kings	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	43	0	0	0	114	0	0	0	138	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	44	0	6	0	62	15	0	0	47	0	0	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	0	19	0	0	0	0	0	0	47	0	0	0
San Luis Obispo	0	0	0	24	0	0	0	9	0	0	0	31
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	11	0	0	0	0
Stanislaus	44	0	0	2	149	96	7	38	10	67	0	74
Sutter	0	0	0	0	32	0	0	0	0	0	0	0
Tehama	0	0	0	0	0	0	0	0	0	0	0	0
Tulare	0	0	0	0	0	0	0	0	0	0	0	0
Yolo	0	0	0	0	1	0	0	3	0	0	0	0
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	161	19	6	26	562	116	7	137	371	67	0	109

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1990				1991				1992			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	0	0	0	5	0	0	0	0	81	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	70	0	0	12	26	0	0	0	1	69	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	13	0	0	20	0	0	0	0	114	243	0	4
Glenn	1	0	0	4	19	0	0	0	13	0	0	0
Kern	0	0	0	0	241	0	0	0	114	0	0	2
Kings	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	12	0	0	0	0	0	0	0	0
Madera	151	0	4	0	0	0	0	0	9	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	90	15	3	0	115	4	3	0	178	110	0	18
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	11	38	20	0	18	0	2	0	44	18	0	0
San Luis Obispo	0	0	0	63	0	0	0	6	0	0	0	45
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	42	0	0	0	0	0	0	0	0
Stanislaus	56	2	0	2	169	0	0	4	70	45	5	0
Sutter	0	0	0	13	0	0	0	0	0	0	0	0
Tehama	0	0	0	0	0	0	0	0	0	0	0	0
Tulare	0	0	0	0	0	0	0	0	0	0	0	0
Yolo	117	0	0	11	1	0	0	0	74	0	0	0
Yuba	0	0	0	0	4	0	0	0	0	0	0	0
Grand Total	508	55	27	184	594	4	5	10	697	486	5	68

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1993				1994				1995			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	84	0	0	3	20	0	0	0	244	0	0	0
Calaveras	0	0	0	5	0	0	0	0	0	0	0	0
Colusa	36	35	0	0	78	0	0	0	410	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	91	164	0	0	239	0	0	0	299	0	0	0
Glenn	97	0	0	0	48	12	0	0	102	0	115	0
Kern	136	0	0	0	0	2	0	3	39	35	0	0
Kings	0	0	0	0	0	0	0	0	0	0	0	0
Lake	1	0	0	25	0	0	0	0	0	0	0	0
Madera	75	53	0	0	227	0	0	0	0	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	554	40	0	0	178	40	9	0	253	17	76	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	1	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	71	0	0	1	29	63	0	0	37	0	2	0
San Luis Obispo	0	0	0	12	0	0	0	1,723	0	0	0	138
Shasta	0	0	0	2	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	222	230	28	0	440	9	0	0	264	1	0	43
Sutter	0	0	0	0	0	0	0	0	0	0	0	0
Tehama	0	0	0	0	43	0	0	0	0	23	0	0
Tulare	0	0	0	0	0	0	0	0	110	0	0	0
Yolo	0	0	1	255	52	0	0	0	0	72	0	1
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	1,366	523	29	303	1,353	127	9	1,727	1,757	149	193	182

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1996				1997				1998			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	31	0	0	0	42	0	0	2	83	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	142	0	0	0	518	32	0	0	356	35	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	635	0	9	33	1,061	29	21	2	800	218	161	0
Glenn	39	0	114	0	686	96	0	0	580	0	0	0
Kern	160	0	0	0	505	0	0	0	468	0	157	65
Kings	0	0	0	0	138	0	18	0	157	30	0	529
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	353	37	4	20	382	539	17	0	196	75	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	605	8	14	0	132	64	0	0	318	37	0	1
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	98	0	8	0	38	0	0	0	110	0	0	0
San Luis Obispo	0	0	0	3	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	70	0	0	0
Stanislaus	404	0	0	1	493	200	0	9	878	40	0	0
Sutter	33	0	0	0	0	0	0	0	0	0	0	20
Tehama	43	0	4	3	123	0	0	0	0	0	0	0
Tulare	53	0	0	0	178	0	0	0	250	0	0	0
Yolo	0	11	0	0	13	174	60	0	7	0	24	0
Yuba	0	0	0	0	138	0	0	0	0	0	0	0
Grand Total	2,595	56	153	60	4,448	1,135	117	13	4,272	435	342	616

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	1999				2000				2001			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	26	0	0	0	0	0	0	0	0	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	280	100	0	0	67	266	0	0	21	1	64	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	2
Fresno	1,598	60	0	0	1,188	310	0	121	416	78	0	128
Glenn	1,026	0	0	0	125	0	0	0	606	0	0	0
Kern	1,163	412	0	0	445	309	58	0	674	38	0	0
Kings	0	0	75	293	0	123	0	0	60	143	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	84	0	18	0	505	0	0	3	0	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	633	0	0	0	64	78	0	0	104	0	0	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	76	0	0	15	29	0	0	0	53	0	0	0
San Luis Obispo	0	0	0	0	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	709	2	14	3	198	9	36	0	97	0	0	0
Sutter	33	0	1	0	0	0	0	0	0	0	0	0
Tehama	0	0	0	0	0	0	0	0	0	0	0	0
Tulare	144	0	0	0	262	37	0	0	74	0	0	0
Yolo	116	0	46	0	0	0	0	12	0	39	0	0
Yuba	0	48	0	0	0	0	0	0	0	0	0	0
Grand Total	5,888	623	153	311	2,884	1,133	94	135	2,103	299	64	131

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2002				2003				2004			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	9	0	0	0	53	0	0	0	0	8	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	0	0	9	0	87	0	0	0	102	0	84	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	1,155	158	320	17	1,171	353	148	0	1,711	2	212	0
Glenn	26	0	0	0	46	0	0	0	134	12	0	0
Kern	697	35	160	23	701	247	235	0	1,373	211	157	0
Kings	221	751	158	0	0	73	0	0	77	18	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	93	0	0	0	264	0	0	0	616	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	131	0	0	0	29	0	0	0	457	59	38	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	94	0	0	0	70	0	0	0	5	0	0	5
San Luis Obispo	0	0	0	0	0	0	0	9	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	167	0	0	0	73	47	0	0	183	3	0	0
Sutter	0	0	0	0	145	0	0	0	0	0	0	0
Tehama	78	0	0	0	0	0	0	8	0	0	0	0
Tulare	34	0	0	0	109	0	0	0	13	74	0	0
Yolo	0	26	0	23	140	0	0	0	125	0	0	25
Yuba	0	0	0	0	0	0	0	0	0	64	0	0
Grand Total	2,706	971	646	63	2,887	721	383	18	4,797	450	490	31

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2005				2006				2007			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	31	0	0	0	82	72	0	0	141	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	897	390	147	0	973	739	49	0	571	775	0	1
Glenn	34	0	0	0	0	0	0	0	0	0	0	0
Kern	2,291	797	149	456	2,003	601	32	0	869	156	0	393
Kings	343	0	19	0	265	17	111	43	122	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	331	587	0	0	448	277	0	4	196	116	39	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	169	32	0	0	212	32	36	0	325	19	0	16
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	6	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	7	0	0	0	7	0	0	6	13	0	37	0
San Luis Obispo	0	0	0	0	0	0	0	0	0	5	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	159	53	0	0	77	133	0	0	192	0	0	0
Sutter	0	0	0	0	0	0	0	0	0	0	0	0
Tehama	0	0	0	0	0	0	0	0	0	0	0	4
Tulare	60	0	98	0	936	62	0	0	413	40	0	0
Yolo	0	0	0	4	106	0	0	0	45	2	11	2
Yuba	0	0	0	0	0	0	0	0	23	0	0	0
Grand Total	4,322	1,859	413	460	5,109	1,938	227	52	2,908	1,112	87	417

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2008				2009				2010			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	44	0	0	63	0	0	0	0	0	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	103	61	0	8	0	0	0	7	5	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	347	106	8	1	29	61	6	0	107	10	13	0
Glenn	792	246	0	0	0	0	0	0	0	0	0	1
Kern	82	37	0	4	197	19	0	0	189	0	0	0
Kings	35	0	101	0	0	0	11	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	155	0	39	0	31	0	0	0	0	0	0	0
Mariposa	0	0	0	0	0	0	0	0	4	0	0	0
Merced	38	77	0	0	0	49	0	0	3	0	11	1
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	17	0	20	0	16	3	0	0	15	0	0	0
San Luis Obispo	0	0	0	0	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	3	0	0	0
Stanislaus	4	0	6	0	181	6	4	0	8	0	1	18
Sutter	1	0	0	0	21	0	0	9	5	0	0	0
Tehama	137	0	0	7	0	0	0	0	0	0	0	0
Tulare	0	0	0	0	0	128	0	0	0	0	0	0
Yolo	0	7	20	254	0	0	0	3	0	0	0	18
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	1,754	535	194	338	476	265	22	20	339	10	25	37

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2011				2012				2013			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	2	0	0	0	0	0	0	0	3	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	5	0	21	0	23	37	0	0	0	179	0	3
Glenn	0	0	0	0	0	0	0	0	0	0	0	0
Kern	154	0	296	0	1	0	0	0	54	675	0	0
Kings	0	0	0	0	23	0	0	0	0	22	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	35	242	0	35	141	0	0	0	0	37	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	1	11	0	4	0	13	0	0	10	0	0	0
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	0	0	0	0	7	231	0	4	0	66	0	0
San Luis Obispo	0	0	0	0	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	62	20	0	0	91	0	0	2	46	1	0	18
Sutter	0	0	0	0	0	0	0	0	0	0	0	20
Tehama	0	0	0	0	0	0	0	0	0	0	0	0
Tulare	1	66	0	0	0	74	0	0	0	0	0	0
Yolo	2	4	0	51	0	0	0	0	0	0	0	0
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	262	343	318	90	287	355	0	6	113	980	0	41

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2014				2015				2016			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	0	0	0	1	0	0	0	0	0	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	0	71	0	70	0	0	0	0	0	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	24	357	0	0	245	382	2	2	61	271	0	14
Glenn	0	0	0	0	3	0	0	0	1	0	0	0
Kern	7	0	0	0	76	491	0	0	118	96	0	0
Kings	45	0	0	0	299	0	0	0	22	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	0	73	0	0	0	0	0	0	2	0	0	1
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	34	0	0	0	25	4	29	29	145	71	0	1
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	199	50	7	0	0	85	7	7	40	60	0	0
San Luis Obispo	0	0	14	17	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	2	277	0	0
Stanislaus	61	2	17	0	35	1	0	0	11	5	0	0
Sutter	0	0	0	0	0	0	0	0	19	0	0	0
Tehama	0	0	0	0	0	0	0	0	0	0	0	0
Tulare	96	64	0	0	73	20	12	12	57	6	11	0
Yolo	0	0	0	0	1	0	0	0	0	0	68	0
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	466	617	38	87	758	983	50	50	478	786	80	16

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

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Abandoned Crop Year (CY) 2022: These orchards are clearly abandoned and not appear to have been watered for most of the 2022 and 2021 crop year.

Abandoned Long Term: These orchards look to have been abandoned prior to the 2021 and 2022 crop years but have not yet been removed.

2022 Removed and Abandoned Acreage Estimates by Year Planted

	2017				2018				2019			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	0	0	0	2	0	0	0	0	0	0	0	0
Calaveras	0	0	0	0	0	0	0	0	0	0	0	0
Colusa	0	11	0	0	1	0	0	0	0	0	0	0
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	13	0	0	0	157	0	0	0	0	0	11	0
Glenn	36	0	0	17	3	0	0	0	0	0	0	0
Kern	0	0	0	0	78	0	117	0	0	0	0	0
Kings	0	0	0	0	4	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0
Madera	14	0	19	0	1	0	0	0	0	0	0	0
Mariposa	0	0	0	0	0	0	0	0	0	0	0	0
Merced	15	0	0	0	3	0	0	0	10	0	0	3
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	0	0	0
Sacramento	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	1	0	0	0	0	0	0	70	9	0	781	0
San Luis Obispo	0	0	0	0	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0	0	0	0	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0
Stanislaus	1	10	0	0	18	0	0	7	1	0	0	0
Sutter	0	0	0	0	0	0	0	0	7	0	0	0
Tehama	0	0	0	0	1	0	0	0	0	0	0	0
Tulare	0	27	0	0	13	0	0	0	0	0	0	0
Yolo	5	0	0	0	0	0	0	0	0	0	0	0
Yuba	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	85	48	19	19	280	0	117	76	26	0	792	3

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

Stressed Crop Year (CY) 2022: These orchards show visual stress, but do not appear fully abandoned. Many orchards have shown a drop in NDVI in the late summer or early fall, but have been watered for most of the year. This also includes relatively young orchards that have shown a drop in vigor, but do not have high enough canopy coverage to clearly identify abandonment.

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2022 Removed and Abandoned Acreage Estimates by Year Planted

	2020				2021				Total			
	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term	Removed	Stressed CY 2022	Abandoned CY 2022	Abandoned Long Term
Alameda	0	0	0	0	0	0	0	0	0	0	0	0
Butte	0	0	1	0	0	0	0	0	1,575	89	68	126
Calaveras	0	0	0	0	0	0	0	0	0	0	0	17
Colusa	0	0	0	0	0	0	0	0	2,473	682	156	102
Contra Costa	0	0	0	0	0	0	0	0	0	0	0	5
Fresno	8	0	0	0	0	0	0	0	14,023	4,928	1,140	464
Glenn	0	0	0	0	0	0	202	0	4,660	387	432	38
Kern	0	0	0	0	0	0	0	0	13,078	4,160	1,360	946
Kings	0	0	0	0	0	0	0	0	1,810	1,176	492	865
Lake	0	0	0	0	0	0	0	0	1	0	0	36
Madera	0	0	0	0	0	0	0	0	4,655	2,037	140	81
Mariposa	0	0	0	0	0	0	0	0	4	0	0	0
Merced	0	0	0	0	0	0	0	0	5,530	935	224	112
Placer	0	0	0	0	0	0	0	0	0	0	0	0
Riverside	0	0	0	0	0	0	0	0	0	6	0	0
Sacramento	0	0	0	0	0	0	0	0	1	0	0	1
San Joaquin	0	0	409	0	0	0	0	0	1,567	717	1,330	115
San Luis Obispo	0	0	0	0	0	0	0	0	0	5	14	2,204
Shasta	0	0	0	0	0	0	0	0	0	0	0	2
Solano	0	0	0	0	0	0	0	0	75	282	0	70
Stanislaus	14	3	0	0	0	0	0	0	6,355	1,069	251	287
Sutter	7	0	0	0	0	0	0	0	305	0	1	62
Tehama	0	0	0	0	0	0	0	0	464	26	4	23
Tulare	0	0	0	0	0	0	0	0	2,876	597	122	12
Yolo	0	0	0	0	0	0	0	0	804	337	230	738
Yuba	0	0	0	0	0	0	0	0	165	112	0	0
Grand Total	29	3	411	0	0	0	202	0	60,421	17,545	5,964	6,309

Source: Land IQ, California Statewide Almond Mapping - 2022. Based on data from USDA National Agricultural Imaging Program (NAIP), USGS Landsat, and other private imagery resources.

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