



California Grape Acreage Report, 2016 Summary



California Department of Food and Agriculture

Cooperating with the USDA, National Agricultural Statistics Service, Pacific Regional Office

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RESULTS

California's 2016 grape acreage totaled 897,000 acres. Of the total grape acreage, 841,000 were bearing while 56,000 were non-bearing. The wine-type grape acreage is estimated at 602,000 acres, with 560,000 bearing and 42,000 non-bearing. Table-type grape acreage totaled 123,000 acres, with 111,000 bearing and 12,000 non-bearing. Acreage of raisin-type grapes totaled 172,000 acres, with 170,000 bearing and 2,000 non-bearing.

The leading wine-type varieties continued to be Chardonnay and Cabernet Sauvignon. Flame Seedless was the leading table-type grape variety. Thompson Seedless continued to be the leading raisin-type variety and utilized for raisins, fresh market, concentrate, and wine.

ESTIMATED GRAPE ACREAGE 1/

Type	2014	2015	2016	Percent Change
Raisin	192,000	186,000	172,000	-7.5
Bearing	190,000	184,000	170,000	-7.6
Non-Bearing	2,000	2,000	2,000	(NC)
Table	121,000	124,000	123,000	-0.8
Bearing	110,000	112,000	111,000	-0.9
Non-Bearing	11,000	12,000	12,000	(NC)
Wine	615,000	608,000	602,000	-1.0
Bearing	565,000	560,000	560,000	(NC)
Non-Bearing	50,000	48,000	42,000	-12.5
All Grapes	928,000	918,000	897,000	-2.3
Bearing	865,000	856,000	841,000	-1.8
Non-Bearing	63,000	62,000	56,000	-9.7

1/ Reported data with an allowance for incompleteness.
(NC) No Change

OBJECTIVES

The California Department of Food and Agriculture partners with the Pacific Regional Office of the USDA's National Agricultural Statistics Service (NASS) to conduct an annual acreage survey of California grape growers. The purpose of this survey is to provide annual grape acreage with information on new plantings and removals. It is a continuation of a long series of industry-funded grape acreage surveys.

This report consists of two parts:

- Estimated grape acreage -- bearing, non-bearing, and total.

- Detailed data by variety, and year planted -- as voluntarily reported by grape growers and maintained in our database.

With perfect information, the estimated grape acreage and the detailed data would be the same. However, this will never be the case for the following reasons:

- A voluntary survey of approximately 9,100 grape growers is unlikely to attain 100 percent completeness.
- It is difficult to detect growers who are planting grapes for the first time.
- The detailed data reflects vine removals from about 36,000 acres during the past twelve months. Of this number, significant acreage was harvested in 2016 prior to being pulled out. As a result, harvested acreage removed in 2016 is included in the estimated acreage, but excluded from the detailed data.

PROCEDURES

The major source of the grape detailed data was a questionnaire mailed to all grape growers from our database. The mailing was sent in late October 2016 to approximately 9,100 grape growers. The questionnaire contained previously reported crop, variety, and acreage information preprinted. Producers were asked to update the information with new plantings, removals, and any other corrections; new growers were mailed a blank questionnaire. Growers were given six weeks to respond by mail. A telephone follow-up was then undertaken. Field personnel personally visited large growers who did not respond by mail.

To arrive at the estimated grape acreage, the grape acreage data base was compared with data provided from the pesticide application data maintained by County Agricultural Commissioners and the Department of Pesticide Regulation.

ACKNOWLEDGMENTS

We sincerely thank the many farm operators, owners, and management firms providing the information. Funding was provided by an assessment on wine grapes plus funding from the California Table Grape Commission and the Raisin Administrative Committee.

TABLE 1 - ALL GRAPES: ACREAGE STANDING BY TYPE, BY YEAR PLANTED, CALIFORNIA 1/

Type	2008 and Earlier	2009	2010	2011	2012	2013	2014	2015	2016	2016			2015 Total
										Bearing	Non-Bearing 2/	Total	
Acres													
Raisin	151,633	1,133	597	945	1,374	385	730	503	111	156,067	1,343	157,410	170,148
Table	60,703	3,245	5,315	3,985	4,980	2,734	4,536	3,962	2,200	81,389	10,271	91,661	92,870
Wine	404,132	8,930	10,446	8,455	13,641	14,025	11,690	6,591	4,731	459,629	23,012	482,641	492,701
White	148,809	3,516	4,676	4,117	5,515	4,395	4,390	1,962	1,391	171,027	7,744	178,771	183,968
Red	255,323	5,414	5,771	4,338	8,125	9,630	7,300	4,629	3,339	288,602	15,269	303,871	308,733
Grapes													
Excluding Rootstock	616,468	13,308	16,358	13,385	19,995	17,144	16,956	11,056	7,041	697,085	34,627	731,712	755,718
Rootstock	419	125	63	87	12	84	121	32	52	-	-	994	958
All Grapes	616,887	13,433	16,421	13,471	20,007	17,228	17,077	11,088	7,093	697,085	34,627	732,706	756,677

1/ Totals may not add due to rounding.

2/ Non-bearing years are 2014, 2015 and 2016. Thompson Seedless and all table grapes begin bearing after one non-bearing year in Riverside and Imperial counties.

TABLE 2 - RAISIN TYPE GRAPES: ACREAGE STANDING BY VARIETY, BY YEAR PLANTED, CALIFORNIA 1/

Variety	2008 and Earlier	2009	2010	2011	2012	2013	2014	2015	2016	2016			2015 Total
										Bearing	Non-Bearing 2/	Total	
Acres													
Black Corinth *	1,451	4	14	7	42	0	0	0	6	1,517	6	1,523	1,601
Dovine	544	0	0	0	18	0	0	0	0	562	0	562	562
Fiesta	11,141	196	62	24	648	12	168	111	22	12,081	300	12,381	12,566
Selma Pete	2,790	328	364	540	328	259	230	175	49	4,609	455	5,063	4,977
Sultana	123	0	0	0	0	0	0	0	0	123	0	123	127
Thompson Seedless	135,112	406	157	375	333	84	170	217	20	136,466	407	136,873	149,379
Other Raisin	472	200	0	0	6	31	161	0	14	709	175	884	936
Total Raisin	151,633	1,133	597	945	1,374	385	730	503	111	156,067	1,343	157,410	170,148

* Synonyms for variety names are shown on Page 5.

1/ Totals may not add due to rounding.

2/ Non-bearing years are 2014, 2015 and 2016. Thompson Seedless and all table grapes begin bearing after one non-bearing year in Riverside and Imperial counties.

TABLE 3 - TABLE TYPE GRAPES: ACREAGE STANDING BY VARIETY, BY YEAR PLANTED, CALIFORNIA 1/

Variety	2008 and Earlier	2009	2010	2011	2012	2013	2014	2015	2016	2016			2015 Total
										Bearing	Non-Bearing 2/	Total	
Acres													
Allison	51	0	0	184	72	0	35	566	344	307	945	1,251	864
Arra	340	0	0	0	10	54	48	0	22	404	70	474	452
Autumn King	1,520	605	1,092	783	889	154	671	217	181	5,043	1,069	6,111	5,386
Autumn Royal	3,416	51	73	98	209	127	299	92	89	3,974	479	4,453	4,548
Autumn Seedless	89	0	0	0	0	0	0	0	0	89	0	89	145
Beauty Seedless *	174	0	0	0	0	2	0	0	0	176	0	176	196
Big Green	0	0	0	0	0	75	0	0	0	75	0	75	75
Black Morocco	271	0	0	0	0	0	0	0	0	271	0	271	271
Blanc Seedless	308	0	0	0	0	0	15	80	0	308	95	403	403
Calmeria	428	0	0	0	0	0	0	0	0	428	0	428	482
Castlerock Red	182	0	0	0	0	0	0	0	0	182	0	182	182
Christmas Rose	100	0	0	0	0	0	0	0	0	100	0	100	100
Concord	113	0	0	2	1	2	0	0	0	118	0	118	120
Cotton Candy	0	0	0	0	105	267	0	34	0	372	34	406	54
Crimson Seedless *	8,486	263	61	0	232	109	75	140	20	9,152	235	9,387	10,564
Early Muscat	79	0	0	0	0	0	0	0	0	79	0	79	79
Early Sweet	84	0	0	0	0	0	0	0	0	84	0	84	84
Emerald Seedless *	241	33	25	0	60	0	15	0	0	359	15	374	418
Emperatriz	80	0	0	0	0	0	0	0	0	80	0	80	80
Emperor	451	0	0	0	0	0	0	0	0	451	0	451	458
Esteem	160	0	0	0	0	0	0	0	0	160	0	160	0
Fantasy Seedless	561	0	6	0	111	0	0	0	25	677	25	702	636
Flame Seedless *	13,824	405	126	226	227	195	268	109	121	15,062	438	15,499	16,530
Flame Tokay	166	0	0	0	0	0	0	0	0	166	0	166	176
Flaming Red	39	0	0	0	0	0	0	0	20	39	20	59	52
Golden Globe	306	0	0	0	0	0	0	0	0	306	0	306	306
Grape King	43	0	0	0	0	0	16	0	0	43	16	59	59
Great Green	103	0	0	0	0	0	77	69	6	103	152	255	242
Jacks Salute	0	0	0	207	0	10	0	64	0	217	64	281	207
Jade Seedless	76	0	0	0	0	0	0	0	0	76	0	76	76
Jubilee	0	0	0	0	0	13	90	72	0	13	162	175	175
Krissy	23	0	0	0	0	94	0	93	190	117	283	400	122
Luisco	132	20	178	93	147	38	13	0	0	608	13	621	556
Morning Red	31	0	0	0	0	0	0	22	0	31	22	53	53
Muscat Flame	91	37	0	0	0	25	0	0	0	153	0	153	155
Niabell	95	2	0	0	0	0	0	0	0	97	0	97	63
Nicolo	0	19	0	0	41	20	0	20	0	80	20	100	100
Olivette Blanche *	6	0	15	0	36	0	0	0	0	57	0	57	59
Perlette	911	0	0	0	0	0	18	0	0	929	0	929	948
Prima Black Seedless	77	0	0	0	0	0	0	0	0	77	0	77	77
Princess *	2,615	44	43	21	32	48	0	61	0	2,804	61	2,865	2,872
Pristine	295	67	12	0	39	0	39	0	0	413	39	451	451
Raspberry Lemonade	0	0	0	0	0	0	0	79	0	0	79	79	60
Red Globe *	6,652	187	194	248	117	63	423	40	0	7,460	463	7,923	9,644
Red Rocket	0	0	0	0	0	0	0	120	0	0	120	120	120
Ribier	176	0	0	0	0	0	8	0	0	176	8	184	184
Rouge	240	0	0	0	0	0	0	0	0	240	0	240	240
Royal Black Seedless	54	0	3	0	0	0	0	0	0	57	0	57	57
Ruby Seedless *	1,791	0	2	142	0	0	85	18	0	1,935	103	2,038	2,033
Scarlet	613	20	2	0	0	67	0	52	8	737	23	760	791
Scarlet Royal	2,847	451	923	812	528	397	714	371	212	6,000	1,253	7,254	6,706
Sheegene 21	31	0	0	0	0	54	191	192	115	113	470	583	632
Sugar Crunch	0	0	0	0	0	0	80	0	0	0	80	80	40
Sugranineteen	647	0	0	0	0	0	0	0	0	647	0	647	647
Sugraone *	3,918	172	356	75	108	114	59	181	86	4,862	208	5,069	5,108
Sugrasixteen	67	0	0	0	0	0	0	75	0	142	0	142	67
Sugrathirteen	480	0	0	0	0	0	0	7	0	487	0	487	437
Sugrathirtyeight	0	0	0	0	0	0	0	32	50	32	50	82	0
Summer Crunch	0	0	0	0	0	0	0	74	119	0	193	193	74
Summer Royal	873	22	15	13	57	43	10	67	0	1,023	77	1,100	1,054
Sweet Celebration	10	77	293	13	514	76	37	0	0	984	37	1,021	929
Sweet Globe	0	0	0	0	0	0	0	180	65	0	245	245	78
Sweet Jubilee	0	0	0	0	0	0	83	0	0	0	83	83	83
Sweet Sapphire	0	0	0	0	0	34	183	195	0	34	379	413	226
Sweet Scarlet	157	164	176	93	0	35	68	35	0	624	103	728	755
Sweet Sunshine	0	98	0	0	0	0	0	0	0	98	0	98	98
Thomcord	23	0	1	12	5	25	5	4	12	66	21	87	93
Timco	35	19	13	175	106	96	87	64	188	443	338	781	588
Tudor	11	0	0	0	0	40	0	0	0	51	0	51	51
Vintage Red	382	135	119	72	97	246	101	72	29	1,050	201	1,252	1,475
90-3618	183	72	0	0	0	0	0	0	0	255	0	255	255
Other Table	5,550	282	1,586	716	1,240	212	725	465	301	9,595	1,481	11,076	11,472
Total Table	60,703	3,245	5,315	3,985	4,980	2,734	4,536	3,962	2,200	81,389	10,271	91,661	92,870

1/ Totals may not add due to rounding.

2/ Non-bearing years are 2014, 2015 and 2016. Thompson Seedless and all table grapes begin bearing after one non-bearing year in Riverside and Imperial counties.

TABLE 4 - WHITE WINE TYPE GRAPES: ACREAGE STANDING BY VARIETY, BY YEAR PLANTED, CALIFORNIA 1/

Variety	2008 and Earlier	2009	2010	2011	2012	2013	2014	2015	2016	2016			2015 Total
										Bearing	Non-Bearing 2/	Total	
Acres													
Albarino	148	64	14	20	2	3	17	10	31	250	57	307	280
Arneis	39	0	11	0	2	0	1	0	0	52	1	53	40
Burger *	857	0	0	0	0	0	0	0	0	857	0	857	978
Catarratto	124	0	0	0	0	0	0	0	0	124	0	124	126
Chardonnay *	83,752	1,970	1,540	987	1,103	1,981	1,845	777	577	91,333	3,198	94,532	96,819
Chenin Blanc	4,295	12	25	81	68	27	319	7	44	4,509	370	4,879	5,144
Emerald Riesling	51	0	0	0	0	0	0	0	0	51	0	51	51
French Colombard	14,969	23	496	605	1,898	617	315	5	35	18,607	354	18,961	20,683
Gewurztraminer	1,099	100	7	139	232	24	8	4	3	1,600	14	1,614	1,632
Grenache Blanc	205	11	12	13	15	64	9	5	1	320	14	334	333
Gruner Veltliner	122	2	26	9	3	1	0	0	6	163	7	170	151
Malvasia Bianca	1,045	2	2	84	1	2	0	0	3	1,136	3	1,139	1,191
Marsanne	101	3	5	0	3	4	4	1	0	116	4	121	131
Moscato Gaillo *	1	0	0	0	150	0	0	0	0	151	0	151	151
Muscat Blanc *	1,574	38	236	257	535	305	48	1	0	2,945	49	2,994	3,183
Muscat of Alexandria	2,043	103	947	1,028	560	219	0	0	1	4,900	1	4,901	5,137
Muscat Orange	227	0	0	49	79	8	3	0	11	362	14	376	385
Palomino *	169	0	0	0	0	0	0	0	0	169	0	169	173
Pinot Blanc	270	21	0	7	3	0	0	0	0	301	0	301	408
Pinot Gris *	11,737	867	186	45	188	687	1,586	944	480	13,710	3,009	16,718	15,777
Roussanne	284	5	18	8	5	4	9	3	4	324	15	339	347
Sauvignon Blanc	13,391	134	194	224	265	173	75	161	136	14,381	371	14,752	15,203
Sauvignon Musque	238	14	7	73	1	0	0	4	3	332	6	339	324
Sauvignon Vert *	13	0	0	40	0	0	0	0	0	53	0	53	56
Semillon	641	7	3	15	1	2	7	1	2	668	11	679	755
St. Emilion *	198	0	0	0	2	0	0	0	0	200	0	200	200
Symphony	775	0	565	232	0	0	0	0	8	1,571	8	1,579	1,598
Tocai Friulano	47	0	0	4	0	0	0	0	0	51	0	51	53
Triplett Blanc	1,016	0	0	0	0	4	0	0	0	1,020	0	1,020	1,020
Verdelho	89	0	0	5	16	9	35	0	2	119	37	156	157
Vermentino *	23	1	8	5	15	7	22	6	3	58	31	89	77
Viognier	2,571	74	25	13	18	19	38	4	11	2,721	53	2,774	2,969
White Riesling *	3,110	54	265	57	342	158	20	2	1	3,986	23	4,009	4,336
Other White Wine	3,587	10	85	118	10	77	31	30	33	3,886	94	3,980	4,100
Total White Wine	148,809	3,516	4,676	4,117	5,515	4,395	4,390	1,962	1,391	171,027	7,744	178,771	183,968

* Synonyms for variety names are shown on Page 5.

1/ Totals may not add due to rounding.

2/ Non-bearing years are 2014, 2015 and 2016. Thompson Seedless and all table grapes begin bearing after one non-bearing year in Riverside and Imperial counties.

TABLE 5 - RED WINE TYPE GRAPES: ACREAGE STANDING BY VARIETY, BY YEAR PLANTED, CALIFORNIA 1/

Variety	2008 and Earlier	2009	2010	2011	2012	2013	2014	2015	2016	2016			2015 Total
										Bearing	Non-Bearing 2/	Total	
Acres													
Aglianico	43	2	7	4	-	5	1	9	-	61	9	70	62
Alicante Bouschet *	754	31	-	1	139	1	14	4	-	926	18	944	960
Barbera	4,827	12	24	12	40	92	73	11	53	5,006	137	5,142	5,416
Cabernet Franc	2,950	50	73	26	55	69	216	46	16	3,222	278	3,500	3,655
Cabernet Sauvignon	71,673	1,891	1,582	1,333	3,688	4,416	2,572	2,076	1,550	84,584	6,198	90,782	89,698
Carignane	2,169	7	4	4	301	8	7	-	-	2,493	7	2,500	2,693
Carmenere	58	-	1	-	-	15	1	2	1	74	3	77	74
Carnelian	262	-	-	-	-	-	-	-	-	262	-	262	305
Centurian	80	-	-	-	-	-	-	-	-	80	-	80	82
Charbono	72	2	-	1	-	-	-	-	-	75	-	75	75
Cinsaut *	61	1	4	-	2	2	1	1	1	70	3	73	73
Counoise	41	1	3	4	-	-	-	1	1	49	1	50	53
Dolcetto	85	3	4	-	-	-	-	-	-	92	-	92	106
Dornfelder	48	-	-	19	-	-	-	-	-	67	-	68	68
Gamay (Napa) *	224	-	-	-	36	-	-	-	-	259	-	260	304
Grenache *	3,832	90	38	92	203	79	52	41	48	4,334	140	4,474	5,435
Malbec	1,612	71	505	418	630	198	202	45	21	3,433	268	3,701	3,678
Mataro *	859	40	30	39	24	22	28	9	17	1,015	53	1,068	1,033
Merlot	38,722	441	345	438	229	414	414	102	26	40,589	541	41,131	43,239
Meunier *	148	13	-	8	21	1	-	1	-	191	2	193	192
Mission	366	3	41	-	-	1	-	1	-	410	1	410	495
Montepulciano	53	-	8	-	2	13	15	1	1	76	18	94	108
Muscat Hamburg *	210	20	17	-	57	-	-	-	-	304	-	304	281
Nebbiolo	118	12	3	2	-	2	-	1	-	136	1	138	163
Petit Verdot	1,993	58	187	160	94	222	53	262	199	2,713	515	3,228	2,803
Petite Sirah	7,467	183	368	466	426	546	526	522	401	9,456	1,449	10,905	10,238
Pinot Noir	36,190	1,246	795	653	920	1,548	1,894	870	463	41,351	3,227	44,578	44,027
Pinotage	51	-	-	-	-	-	-	-	-	51	-	51	51
Primitivo	360	26	31	8	168	520	54	8	22	1,112	85	1,197	1,174
Royalty	152	78	-	-	-	-	-	-	-	230	-	230	230
Rubired *	9,059	540	1,021	362	188	127	281	159	100	11,298	540	11,838	12,453
Ruby Cabernet	4,613	-	80	-	121	-	64	77	-	4,814	141	4,955	5,318
Sangiovese *	1,425	67	31	33	14	6	12	5	1	1,576	18	1,594	1,797
Souzao	79	-	-	-	7	2	-	-	-	88	-	89	89
Syrah *	16,439	58	80	43	91	135	211	26	80	16,844	317	17,161	18,063
Tannat	250	5	72	6	154	36	21	3	32	523	56	579	550
Tempranillo *	750	41	35	5	15	37	18	16	15	882	49	932	951
Teroldego	80	1	2	5	-	91	232	53	200	179	486	665	306
Touriga Nacional *	249	1	2	-	-	1	2	-	-	253	3	255	256
Zinfandel	41,845	391	226	125	457	944	298	77	83	43,988	458	44,446	46,411
Other Red Wine	5,055	33	153	73	42	78	36	201	10	5,434	246	5,679	5,771
Total Red Wine	255,323	5,414	5,771	4,338	8,125	9,630	7,300	4,629	3,339	288,602	15,269	303,871	308,733

* Synonyms for variety names are shown on Page 5.

1/ Totals may not add due to rounding.

2/ Non-bearing years are 2014, 2015 and 2016. Thompson Seedless and all table grapes begin bearing after one non-bearing year in Riverside and Imperial counties.

Grape Variety Synonyms

Alicante Bouschet *-Alicante	Italia *-Muscat Italia	Refosco *-Mondeuse
Beauty Seedless *-Black Beauty	Malaga *-White Malaga	Ribolla Gialla *-Rebolla
Black Corinth *-Zante Currant	Marechal Foch *-Foch	Rubired *-Tintoria
Black Prince *-Rose of Peru	Mataro *-Mourvedre	Ruby Seedless *-King Ruby
Blaufraenkisch *-Lemberger	Meunier *-Pinot Meunier	Sangiovese *-Sangioveseto, Brunello
Burger *-Monbadon	Moscato Gaillo *-Muscat Yellow	Sauvignon Vert *-Muscadelle
Chardonnay *-Pinot	Muscat Blanc *-Muscat Canelli,	St. Emilion *-Ugni Blanc, Trebbiano
Chardonnay, Chardonnay	Muscat Blanc A Petits	Syrah *-French Syrah, Shiraz, Syrah
Musque	Grains	Noir
Cinsaut *-Black Malvoisie,	Muscat Hamburg *-Black Muscat	Tempranillo *-Tinta Roriz,
Black Malvasia	Negrette *-Pinot St. George	Valdepenas
Crimson Seedless *-Red	Nero D'Avola *-Calabrese	Touriga Nacional *-Touriga
Crimson	Olivette Blanche *-Lady Finger	Trousseau *-Bastardo
Emerald Seedless *-Black	Palomino *-Golden Chasselas	Vermentino *-Vennentino
Seedless	Pinot Gris *-Pinot Grigio	White Riesling *- Riesling,
Flame Seedless *-Red Flame	Portugieser Blauer *-Blue	Johannisberg Riesling
Gamay (Napa) *-Gamay,	Portugues	
Valdiguie	Princess *-Melissa	
Gray Riesling *-Trousseau Gris	Red Globe *-Rose Ito	
Grenache *-Grenache Noir		

* indicates the published name includes more than one variety name

The detailed *CALIFORNIA GRAPE ACREAGE REPORT, 2016 CROP* entire bulletin,
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