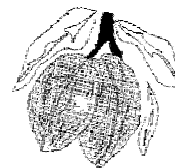


1998 California Walnut Acreage Report



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RESULTS

California's 1998 walnut acreage is estimated by the California Agricultural Statistics Service at 221,000 acres, of which 193,000 was bearing and 28,000 was non-bearing.

This estimate is based on a statistical sample initiated to provide an unbiased indication of State acreage and to measure the incompleteness in the walnut data base maintained by this office. It is not comparable with past walnut acreage surveys.

Past acreage survey results were the sum of grower acreage reported to this office without adjustment for any incompleteness. Incompleteness is bound to exist with (1) a universe of approximately 6,200 walnut growers, and (2) data dependent upon voluntary cooperation.

Pages 2-3 are comparable with previous years' survey data. Of the walnut acreage in our data base, the Hartley variety accounted for 26 percent of the total acreage, followed by Chandler with 23 percent. Survey results show an increase in Chandler variety plantings, which accounted for 10 percent of the non-bearing acreage. San Joaquin County shows the largest acreage planted at 15 percent of the total, followed by Tulare County with 13 percent, and Stanislaus County with 11 percent. Data users are cautioned that varietal data for the sample incompleteness may be substantially different from that above.

OBJECTIVES

This is a continuation of a long series of annual surveys to provide walnut acreage by variety and year planted. Again, data on pages 2-3 are comparable with previous years'. However, for the first time, a probability survey was designed to estimate total bearing and non-bearing walnut acreage.

PROCEDURES

For the information on pages 2-3, 5,651 walnut growers in the fruit data base maintained by CASS were mailed a questionnaire with previously reported crop, variety, and acreage information preprinted. Recipients were asked to update the information for removals and new plantings.

Existing grower names were also compared with pesticide permit and application data maintained by County Agricultural Commissioners and the Department of Pesticide Regulation (DPR). Additional growers were mailed blank questionnaires and asked to provide the specified information.

Questionnaires were mailed on December 26, 1998. Respondents were given six weeks to respond by mail. CASS personnel then conducted a telephone follow-up. Field personnel personally visited large growers who did not respond by mail or telephone.

For the sample used to measure the incompleteness in the above activity, 226 growers were selected from the 1998 DPR application file. The sample was selected based on indicated size of operation; i.e., larger growers had a much greater chance of selection than those with small acreages. Growers were contacted in early May. The sample was expanded to the State level to give acreage incompleteness for bearing and non-bearing acreage.

ACKNOWLEDGMENTS

We sincerely thank the many farm operators, owners, and management firms providing the information. Likewise, thanks to the Walnut Marketing Board for providing funding and support of this special acreage update survey.

A special thanks is due the following office staff for the hundreds of hours spent on this project: Mitch Graham (Mathematical Statistician), Cindy Claypoole, Jean Freed, Peggy Gibson, Regina Lozano, Janell McAllister, Christy McFarland, Sarah Otter, April Sanders, and Sheryl Zazzi.

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1998 WALNUT ACREAGE BY COUNTY, BY YEAR PLANTED

County	1986 & Earlier	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Acres Standing in 1998		
														Bearing	Non-Bearing	Total
ALAMEDA	78	0	0	0	0	0	0	1	0	0	0	0	0	79	0	79
AMADOR	503	0	0	0	27	9	1	9	1	15	12	2	0	546	32	578
BUTTE	13,149	399	425	590	407	406	511	726	1,148	351	530	589	97	17,653	1,675	19,328
CALAVERAS	687	4	0	7	21	0	0	11	7	0	4	0	0	738	4	742
COLUSA	3,961	36	141	30	81	19	51	135	44	66	38	11	0	4,484	128	4,612
CONTRA COSTA	766	76	87	37	7	7	25	15	2	3	8	39	24	1,021	76	1,096
EL DORADO	248	0	0	0	0	0	0	0	0	0	1	0	30	248	31	279
FRESNO	2,520	28	93	168	114	72	122	57	67	128	153	169	186	3,208	668	3,876
GLENN	4,858	55	15	148	163	104	132	436	673	443	549	525	259	6,485	1,873	8,358
KERN	1,338	0	36	0	14	16	12	0	0	0	17	0	0	1,417	18	1,434
KINGS	4,483	86	63	140	179	102	192	277	584	275	437	146	267	5,818	1,413	7,231
LAKE	5,380	31	10	116	12	12	24	4	33	37	8	8	18	5,598	94	5,692
MADERA	837	8	10	0	50	0	17	88	4	7	33	20	0	1,012	62	1,074
MARIN	13	0	0	0	0	0	0	0	0	0	0	0	0	13	0	13
MENDOCINO	80	0	0	0	0	0	0	2	0	0	0	3	0	82	3	85
MERCED	3,877	31	71	67	75	177	218	267	164	297	140	238	96	4,893	824	5,716
MONTEREY	174	38	62	33	0	20	0	0	0	0	0	0	0	327	0	327
NAPA	175	0	3	1	0	0	0	20	1	0	29	0	4	198	34	232
PLACER	1,033	0	0	0	0	0	0	15	0	0	0	0	0	1,048	0	1,048
RIVERSIDE	36	0	0	0	0	0	0	0	0	0	0	0	0	36	0	36
SACRAMENTO	119	0	0	0	0	0	0	0	2	0	0	0	0	119	2	121
SAN BENITO	2,045	46	9	104	57	41	8	59	15	36	39	25	8	2,366	127	2,493
SAN BERNARDINO	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
SAN DIEGO	21	0	0	0	0	0	0	0	0	0	0	0	0	21	0	21
SAN JOAQUIN	22,351	659	478	429	708	734	726	790	1,112	894	765	649	419	27,693	3,020	30,714
SAN LUIS OBISPO	2,510	77	101	21	43	84	89	20	6	7	71	0	12	2,930	111	3,041
SAN MATEO	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
SATNA BARBARA	706	21	0	0	25	0	0	0	0	5	3	6	0	752	13	765
SANTA CLARA	505	13	16	8	29	5	12	1	17	22	2	2	0	591	41	632
SANTA CRUZ	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
SHASTA	574	0	5	0	0	0	0	1	0	10	0	35	0	580	45	625
SOLANO	2,883	448	146	519	106	102	170	129	117	160	164	172	85	4,547	654	5,200
SONOMA	190	0	0	0	0	0	0	0	0	0	19	0	0	190	20	209
STANISLAUS	14,154	641	780	433	728	275	618	733	849	1,081	692	501	597	18,879	3,203	22,082
SUTTER	11,021	325	476	243	468	582	446	783	510	516	619	344	411	14,652	2,090	16,742
TEHAMA	9,826	347	172	123	228	329	122	289	255	394	771	805	469	11,630	2,500	14,130
TULARE	18,153	207	487	195	452	473	736	680	806	960	1,004	698	500	22,005	3,345	25,350
TUOLUMNE	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
VENTURA	233	0	0	0	0	0	0	0	0	0	0	0	0	233	0	233
YOLO	6,049	104	441	484	335	331	166	144	527	450	344	340	600	8,496	1,818	10,313
YUBA	6,062	233	160	175	173	243	144	208	55	95	139	256	55	7,390	608	7,998
STATE TOTAL	141,607	3,913	4,286	4,070	4,502	4,142	4,541	5,899	6,998	6,252	6,590	5,580	4,136	177,983	24,532	202,515

**WALNUT ACREAGE AS OF 1998 -- VARIETIES AND AGE GROUPS -- STATE SUMMARY
ACREAGE PLANTED DURING YEARS SHOWN AND STANDING IN 1998**

Variety	1986 & Earlier	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	Acres Standing in 1998 a/		
														Bearing	Non-Bearing	Total
AMIGO	284	0	1	0	0	0	0	0	0	0	0	0	0	286	0	286
ASHLEY	8,149	88	1	17	5	55	56	16	1	1	36	6	35	8,385	80	8,464
BLACKMER/ MAUTNER/ VAUGHN	1,178	4	3	0	0	0	2	0	0	4	71	0	0	1,186	75	1,261
CHANDLER	8,461	1,460	1,891	1,857	2,367	2,424	2,946	4,364	5,387	4,463	4,196	3,591	2,401	31,156	14,650	45,806
CHICO	3,047	15	125	26	32	215	13	108	23	47	1	1	0	3,603	48	3,651
CISCO	0	0	0	2	9	8	4	20	18	6	63	7	1	43	95	138
CONCORD	60	0	0	0	1	0	0	0	0	0	0	0	0	61	0	61
EUREKA	5,575	41	28	6	43	51	25	49	17	25	42	35	12	5,770	181	5,950
FRANQUETTE	12,367	66	93	97	112	75	27	66	87	65	42	36	31	12,810	355	13,164
FRANQUETTE SCHARSCH	43	6	20	19	2	0	4	12	3	1	19	1	8	90	49	138
GROVE	111	0	0	0	0	0	0	0	0	0	0	7	0	111	7	119
GUSTINE	370	0	0	0	0	0	2	0	0	0	0	0	0	372	0	372
HARTLEY	44,887	1,425	1,208	1,167	920	644	810	398	295	374	290	508	314	51,060	2,181	53,241
HOWARD	271	28	0	176	26	10	44	47	25	140	381	422	425	627	1,368	1,995
LOMPOC	46	0	0	0	20	0	0	5	0	0	0	0	0	71	0	71
MARCHETTI	506	9	0	0	2	0	0	0	0	13	0	0	13	517	27	544
MAYETTE	853	0	0	0	6	1	1	3	0	0	0	0	0	860	4	864
MIDLAND	263	0	0	0	0	0	0	0	0	1	6	0	0	263	7	270
NUGGETT	624	2	0	0	1	0	0	0	0	40	1	4	0	627	45	672
PAYNE	12,848	124	35	145	150	116	58	77	175	112	40	94	49	13,553	469	14,023
PEDRO	511	0	0	0	0	0	0	0	0	0	0	0	0	511	0	511
PIONEER	27	0	0	1	0	0	0	0	0	36	0	0	0	28	36	64
PLACENTIA	32	0	0	0	0	0	0	0	0	0	0	0	0	32	0	32
POE	555	0	0	0	0	0	0	0	0	0	0	0	0	555	0	555
ROOTSTOCK/ SEEDLINGS	35	4	16	7	0	1	0	1	67	18	21	40	65	63	212	275
SERR	20,594	108	145	64	128	116	83	105	334	267	642	156	92	21,342	1,490	22,833
SUNLAND	1,093	18	152	39	127	126	16	39	5	10	7	4	0	1,609	26	1,635
TEHAMA	5,447	0	14	2	55	10	0	2	1	9	30	7	0	5,529	47	5,577
TRINTA	1,005	0	0	0	0	0	0	0	0	0	0	0	0	1,005	0	1,005
TULARE	0	0	10	27	13	6	52	195	164	373	374	414	524	467	1,685	2,152
VINA	10,993	338	444	390	478	262	336	380	352	222	301	228	91	13,621	1,193	14,815
WATERLOO	749	18	14	0	0	22	0	3	0	16	0	0	0	803	19	821
WESTSIDE	93	0	0	0	0	0	0	0	0	0	0	0	0	93	0	93
WOODLAND	82	0	0	0	1	0	0	3	0	0	0	0	9	83	11	94
4946	53	0	0	0	0	0	0	0	0	0	0	0	0	53	0	53
59-124	5	0	0	20	0	0	0	0	0	0	0	0	0	25	0	25
ALL OTHERS	390	161	87	9	5	0	61	7	46	9	29	17	66	713	173	886
STATE TOTAL	141,607	3,913	4,286	4,070	4,502	4,142	4,541	5,899	6,998	6,252	6,590	5,580	4,136	177,983	24,532	202,515

a/ Shaded area represents non-bearing years and includes plantings of the following: Chandler, Chico, Howard, Tulare (1995-98); 50-55, 59-124, 4946, Amigo, Ashley, Bardoni, Cisco, Earhorn, Grove, Gustine, Honeycutt, Houston, Jensen, Lompoc, Marchetti, Nuggett, Payne, Pedro, Serr, Sunland, Tehama, Trinta, UCD 67-13, Vina, Westside (1994-98); Franquette, Franquette Scharsch, Mayette, Placentia, Poe, Willsons/Willsons Wonder, Woodland (1992-98); all other varieties not specified (1993-98).

California Walnut Bearing Acreage 1986-1998

