

2003 California Pistachio Acreage Report

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CALIFORNIA AGRICULTURAL
STATISTICS SERVICE

Results

California's 2003 pistachio acreage is estimated at 111,000 acres, according to the California Agricultural Statistics Service (CASS). Bearing acreage is 88,000 acres and non-bearing is 23,000 acres.

Kern County accounts for 44 percent of the total acreage. It is followed by Madera (20%), Tulare (9%), Fresno (9%), Kings (8%), Merced (5%), and all others (5%).

During the early 1970's, many of the original orchards planted with Atlantica rootstock were dying because they were not resistant to verticillium wilt. This was evident for Kern County orchards planted in acreage previously cultivated with cotton. To remedy the problem, verticillium wilt resistant rootstock, such as Pioneer Gold I and II, were developed. As of July 2003, Atlantica rootstock represented only 28 percent of the total pistachio acreage. This is in contrast to Pioneer Gold I rootstock which accounts for 60 percent.

Objectives

The purpose of this survey is to provide the pistachio industry with acreage information on new plantings and removals. CASS conducts the pistachio acreage survey every third year by variety/rootstock and year of plantings.

Procedures

The major source of the pistachio detailed data was a questionnaire mailed to all pistachio growers included in CASS's data base. The mailing was made in early March to approximately 600 pistachio growers. The questionnaires contained previously reported crop, variety, rootstock, and acreage information. Producers were asked to update the information with new plantings, removals, and any other corrections; new growers were mailed a blank questionnaire.

Individuals who did not respond to the mail survey were contacted by telephone and those who still could not be contacted were visited by field personnel.

In order to capture all California pistachio growers, CASS's grower list was updated using data from the California Pistachio Commission (CPC) and Agricultural Commissioner Pesticide Permits.

Past experience has shown that producers tend not to always report their new planting or pullouts. It is also extremely difficult for a small staff in Sacramento to detect growers that are planting pistachios for the first time. Since the acreage

report is voluntary, it is unlikely that we will ever obtain 100 percent completeness. For these reasons, we are making an allowance for incompleteness. The detailed data in Tables 1-7 reflects data voluntarily reported to us by pistachio growers and maintained in CASS's data base.

Estimate for Incompleteness

Most of the incompleteness is in the new plantings. To measure the incompleteness in the non-bearing acres, we compared the 2003 planting by year with the 2000 acreage report. We can then determine how many acres, reported as non-bearing in the 2000 report, actually ended up being reported for those same years in the 2003 report. For example, in 2000 the growers reported 21,730 non-bearing acres. (1995-2000 plantings). The 2003 report shows 26,545 acres (1995-2000 plantings), or 4,815 greater than reported in 2000. It appears that the incompleteness is normally between 25-30 percent. The table below shows the reported bearing, non-bearing and total acreage and the estimate for incompleteness for 2003.

2003 Estimated Pistachio Acreage

	Bearing (1997- Earlier)	Non-Bearing (1998-2003)	Total
Reported	87,309	17,884	105,193
Incompleteness (Estimated)	691	5,116	5,807
Total (Reported + Estimated)	88,000	23,000	111,000

Acknowledgements

CASS would like to thank the pistachio farm operators and/or owners who provided information for their operations. The response was excellent. Likewise, thanks to the CPC for their continued funding and support for the acreage update survey.

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TABLE 1: CALIFORNIA PISTACHIOS: ACRES PLANTED BY VARIETY/ROOTSTOCK, YEAR, AND STANDING IN 2003 a/

Variety/ Rootstock	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 b/			
																						Bearing	Non- Bearing	Total	
Aria II	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	109
Kerman/Atlantica	25,752	269	994	172	145	166	114	99	83	44	126	92	174	43	82	298	45	100	280	21	87	28,653	532	29,186	
Kerman/Integririma	0	0	0	0	18	0	0	0	14	8	234	7	7	1	77	14	161	0	0	0	0	365	175	540	
Kerman/KN I	0	0	0	0	0	27	24	0	18	0	212	0	0	71	0	44	90	69	0	0	0	396	158	554	
Kerman/Pioneer GD I	9,319	1,758	3,524	2,073	946	1,000	2,725	2,546	3,686	2,081	2,095	2,975	3,237	3,442	3,890	3,035	5,081	3,828	4,578	1,443	364	48,332	15,294	63,626	
Kerman/Pioneer GD II	400	233	264	243	81	199	50	61	127	49	0	0	0	0	0	0	0	0	0	0	0	1,706	0	1,706	
Kerman/Terebinthus	954	1	0	10	0	12	0	7	2	0	2	0	2	4	0	0	11	6	0	0	0	993	17	1,010	
Kerman/UCB I	0	0	0	0	0	38	139	0	0	0	0	27	29	328	331	87	260	105	76	79	167	980	687	1,667	
PGII (Integririma-Rtsk)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	27	0	0	0	0	142	142	
Pollenizer Peters	3,089	112	205	93	54	77	155	160	153	76	111	137	168	175	197	161	249	182	181	49	15	5,122	674	5,796	
Red Allepc/PG I	40	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	0	63	
All Others	286	2	0	11	8	40	6	14	19	2	12	17	41	39	90	2	0	141	38	1	25	590	205	795	
STATE TOTAL	39,948	2,375	4,987	2,601	1,252	1,558	3,238	2,886	4,088	2,265	2,568	3,481	3,658	4,110	4,591	3,704	5,864	4,618	5,151	1,593	658	87,309	17,884	105,193	

a/ Totals may not add due to rounding.
b/ Bold area represents non-bearing years, 1998-2003.

TABLE 2: CALIFORNIA PISTACHIOS: KERMAN/TEREBINTHUS ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 a/

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 b/			
																						Bearing	Non- Bearing	Total	
Butte	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Fresno	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
Kern	772	0	0	10	0	12	0	7	2	0	2	0	2	4	0	0	11	6	0	0	0	809	17	826	
Madera	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	79	
Placer	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	
San Luis Obispo	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	
Solano	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	
Tehama	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20	
Tulare	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	59	
VARIETY TOTAL	954	1	0	10	0	12	0	7	2	0	2	0	2	4	0	0	11	6	0	0	0	993	17	1,010	

a/ Totals may not add due to rounding.
b/ Bold area represents non-bearing years, 1998-2003.

TABLE 3: CALIFORNIA PISTACHIOS: KERMAN/ATLANTICA ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 ^{a/}

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 ^{b/}			
																						Bearing	Non-Bearing	Total	
Butte	258	20	0	1	1	0	0	14	0	0	51	4	0	0	2	0	0	0	0	0	0	0	350	0	350
Calaveras	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19
Colusa	267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267	0	267
Contra Costa	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19
El Dorado	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Fresno	231	25	39	17	39	12	0	3	5	14	14	0	0	0	0	0	18	0	280	0	0	400	298	697	
Glenn	254	57	1	3	2	55	0	1	0	0	0	40	0	0	0	0	0	0	0	0	0	412	0	412	
Kern	5,657	4	131	25	17	0	0	1	5	8	14	7	15	0	5	19	17	2	0	0	0	5,907	19	5,926	
Kings	1,349	1	0	0	0	1	0	0	0	0	0	0	0	0	0	279	0	0	0	0	0	1,630	0	1,630	
Los Angeles	12	23	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	36	0	36	
Madera	12,175	54	351	9	7	67	26	18	3	3	36	24	67	10	12	0	0	35	0	21	85	12,864	141	13,005	
Mendocino	9	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	
Merced	3,280	37	367	33	1	0	1	22	0	8	2	7	0	0	3	0	0	0	0	0	0	3,761	0	3,761	
Orange	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15	0	15	
Placer	45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	46	
Riverside	31	0	2	2	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	37	0	37	
Sacramento	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	
San Bernardino	112	16	46	56	54	18	0	20	4	9	0	5	10	0	24	0	0	0	0	0	0	373	0	373	
San Diego	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
San Joaquin	30	5	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	52	
San Luis Obispo	172	2	0	0	15	2	2	1	1	0	6	0	1	1	0	0	0	0	0	0	0	203	0	203	
Santa Barbara	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188	0	188	
Shasta	8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9	
Stanislaus	33	5	0	0	0	0	70	1	0	0	0	0	0	0	0	0	10	0	0	0	0	108	10	118	
Sutter	4	0	0	21	2	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	35	0	35	
Tehama	76	9	0	1	1	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	0	94	
Tulare	1,317	11	55	2	1	1	7	2	63	0	1	5	64	32	37	0	0	63	0	0	2	1,595	65	1,660	
Yolo	195	2	1	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	203	0	203	
Yuba	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	5	
VARIETY TOTAL	25,752	269	994	172	145	166	114	99	83	44	126	92	174	43	82	298	45	100	280	21	87	28,653	532	29,186	

^{a/} Totals may not add due to rounding.

^{b/} Bold area represents non-bearing years, 1998-2003.

TABLE 4: CALIFORNIA PISTACHIOS: KERMAN/PIONEER GOLD I ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 a/

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 b/			
																						Bearing	Non-Bearing	Total	
Butte	42	7	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	53
Colusa	275	0	0	89	0	0	0	0	0	0	0	0	0	228	250	0	0	0	0	0	0	0	841	0	841
Contra Costa	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14
Fresno	1,246	42	348	0	333	287	460	85	168	46	208	152	502	1,168	1,436	0	378	414	637	231	0	0	6,483	1,660	8,142
Glenn	0	0	0	0	0	1	0	1	0	0	0	84	50	36	24	0	1	0	0	0	0	0	196	1	197
Kern	3,406	1,221	1,555	1,724	133	256	1,448	2,023	2,606	1,169	1,190	1,360	1,491	870	1,221	2,269	3,651	3,243	3,543	998	229	0	23,943	11,665	35,607
Kings	1,467	164	777	172	184	220	285	82	70	116	12	124	39	568	649	627	539	26	179	41	1	0	5,554	786	6,340
Los Angeles	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Madera	693	189	655	37	30	42	109	293	432	458	231	640	573	211	146	40	247	3	1	0	1	0	4,780	252	5,032
Mendocino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Merced	7	5	0	10	1	42	6	7	77	30	21	3	6	8	1	40	27	53	0	0	53	264	133	397	
Placer	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
San Bernardino	6	2	0	1	4	0	0	5	0	0	0	0	0	0	0	0	0	0	5	5	5	0	18	14	32
San Joaquin	0	0	4	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	14	0	14
San Luis Obispo	1	0	0	15	0	20	6	0	22	1	1	1	20	3	14	0	0	0	0	0	0	0	105	1	106
Santa Barbara	0	0	0	0	2	6	0	1	43	57	111	22	0	18	0	0	0	38	22	0	38	259	98	357	
Shasta	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Stanislaus	4	0	2	7	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	48	
Tehama	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	
Tulare	2,164	114	183	18	243	122	394	44	266	202	315	589	545	333	148	59	238	46	191	168	42	5,739	686	6,425	
Yolo	2	0	0	0	0	5	0	0	1	0	6	0	1	0	0	0	0	0	0	0	0	14	0	14	
Yuba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VARIETY TOTAL	9,319	1,758	3,524	2,073	946	1,000	2,725	2,546	3,686	2,081	2,095	2,975	3,237	3,442	3,890	3,035	5,081	3,828	4,578	1,443	364	48,332	15,294	63,626	

a/ Totals may not add due to rounding.
b/ Bold area represents non-bearing years, 1998-2003.

TABLE 5: CALIFORNIA PISTACHIOS: KERMAN/PIONEER GOLD II ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 a/

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 b/			
																						Bearing	Non-Bearing	Total	
Colusa	18	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	0	107
Fresno	2	0	20	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	23	
Glenn	11	66	0	85	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	165	0	165	
Kern	210	104	29	0	62	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	443	0	443	
Kings	135	51	0	0	4	0	0	11	11	0	0	0	0	0	0	0	0	0	0	0	0	213	0	213	
Madera	0	0	151	0	1	121	28	4	116	38	0	0	0	0	0	0	0	0	0	0	0	458	0	458	
Merced	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Placer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
San Bernardino	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
San Luis Obispo	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	
Stanislaus	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12	
Tehama	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	0	57	
Tulare	23	12	58	0	14	39	23	45	0	3	0	0	0	0	0	0	0	0	0	0	0	216	0	216	
Yolo	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5	0	5	
VARIETY TOTAL	400	233	264	243	81	199	50	61	127	49	0	0	0	0	0	0	0	0	0	0	0	1,706	0	1,706	

a/ Totals may not add due to rounding.
b/ Bold area represents non-bearing years, 1998-2003.

TABLE 6: CALIFORNIA PISTACHIOS: POLLENIZER PETERS ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 a/

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 b/			
																						Bearing	Non-Bearing	Total	
Butte	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	32
Calaveras	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Colusa	15	0	0	5	0	0	0	0	0	0	0	0	0	6	7	0	0	0	0	0	0	0	34	0	34
Contra Costa	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
El Dorado	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Fresno	100	9	21	1	18	14	20	4	8	3	10	6	15	52	57	0	17	15	39	0	0	336	71	407	
Glenn	34	6	0	3	0	4	0	0	0	0	0	16	4	4	1	4	4	0	0	1	0	74	5	79	
Kern	871	53	18	54	10	13	91	133	88	23	70	50	87	29	70	103	154	137	130	38	9	1,761	469	2,230	
Kings	238	8	30	12	0	4	9	1	0	0	0	2	1	31	30	47	22	0	8	0	0	413	30	442	
Los Angeles	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
Madera	1,156	19	75	2	1	20	11	11	28	24	9	28	25	18	18	5	20	3	0	1	0	1,449	24	1,473	
Mendocino	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
Merced	279	3	27	2	0	2	0	0	4	2	0	1	0	0	0	0	16	14	0	0	2	320	32	352	
Orange	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	3	
Placer	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	
Riverside	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	
Sacramento	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
San Benito	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Bernardino	11	2	4	6	5	2	0	2	0	1	0	0	4	0	2	0	0	0	0	0	0	40	0	41	
San Diego	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	5	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	
San Luis Obispo	12	0	8	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	26	0	26	
Santa Barbara	14	0	0	0	0	1	0	0	2	5	5	0	0	1	0	0	1	2	0	0	2	28	5	33	
Shasta	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Solano	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Stanislaus	4	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	
Sutter	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
Tehama	10	1	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	
Tulare	268	7	20	1	17	16	23	7	23	19	17	30	32	31	12	2	14	10	4	8	1	525	38	563	
Yolo	19	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	22	0	22	
Yuba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
VARIETY TOTAL	3,089	112	205	93	54	77	155	160	153	76	111	137	168	175	197	161	249	182	181	49	15	5,122	674	5,796	

a/ Totals may not add due to rounding.
b/ Bold area represents non-bearing years, 1998-2003.

TABLE 7: CALIFORNIA PISTACHIOS: ALL VARIETIES ACRES PLANTED BY COUNTY, YEAR, AND STANDING IN 2003 ^{a/}

County	1983 and Earlier	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Acres Standing in 2003 ^{b/}			
																						Bearing	Non-Bearing	Total	
Butte	379	27	0	1	1	0	0	18	11	0	51	4	0	0	2	0	0	0	0	0	0	0	495	0	495
Calaveras	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20
Colusa	589	0	0	188	0	0	0	0	0	0	0	0	0	240	264	0	0	0	0	0	0	0	1,282	0	1,282
Contra Costa	21	16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	37
El Dorado	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Fresno	1,586	76	427	18	396	314	480	92	182	63	239	160	517	1,221	1,501	0	413	429	1,027	231	0	7,273	2,100	9,373	
Glenn	366	130	1	93	2	60	0	2	0	3	0	141	54	40	25	40	41	0	0	39	0	957	80	1,037	
Kern	10,969	1,381	1,733	1,812	241	384	1,724	2,177	2,700	1,213	1,488	1,664	1,595	981	1,495	2,512	3,925	3,469	3,673	1,076	399	34,071	12,542	46,613	
Kings	3,191	224	807	184	188	224	294	94	81	116	12	126	39	784	722	953	560	27	187	41	1	8,039	815	8,854	
Los Angeles	13	25	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	40	0	40	
Madera	14,130	262	1,232	48	38	250	174	327	596	523	277	702	686	403	310	95	350	61	7	25	92	20,053	535	20,588	
Mendocino	13	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	
Merced	3,566	44	394	45	2	44	6	29	82	42	26	22	7	10	4	40	182	225	0	0	55	4,363	462	4,826	
Orange	0	0	0	0	0	0	0	0	0	0	0	3	15	0	0	0	0	0	0	0	0	18	0	18	
Placer	54	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	56	
Riverside	37	1	2	2	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	45	0	45	
Sacramento	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	
San Benito	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
San Bernardino	130	20	50	64	63	20	5	27	4	10	0	5	18	0	26	0	0	5	5	5	0	441	14	455	
San Diego	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
San Joaquin	39	5	4	0	0	0	0	18	0	0	0	0	11	0	0	0	0	0	34	0	0	77	34	111	
San Luis Obispo	189	3	14	17	15	23	9	2	23	2	8	1	21	4	14	0	0	0	0	0	0	345	1	346	
Santa Barbara	202	0	0	0	2	6	0	1	45	61	116	22	7	26	0	0	15	40	22	0	40	489	117	606	
Shasta	9	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	
Solano	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12	
Stanislaus	41	5	2	19	18	0	89	1	0	0	0	0	0	0	0	0	10	0	0	0	0	176	10	186	
Sutter	4	0	0	22	3	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	38	8	46	
Tehama	112	11	1	65	1	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197	0	197	
Tulare	4,046	144	316	21	275	216	445	97	358	224	341	624	686	396	227	64	367	362	197	177	64	8,481	1,166	9,647	
Yolo	217	2	1	0	1	5	0	0	4	5	9	6	1	4	0	0	0	0	0	0	0	255	0	255	
Yuba	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	5	
STATE TOTAL	39,948	2,375	4,987	2,601	1,252	1,558	3,238	2,886	4,088	2,265	2,568	3,481	3,658	4,110	4,591	3,704	5,864	4,618	5,151	1,593	658	87,309	17,884	105,193	

^{a/} Totals may not add due to rounding.

^{b/} Bold area represents non-bearing years, 1998-2003.

FIGURE 1.

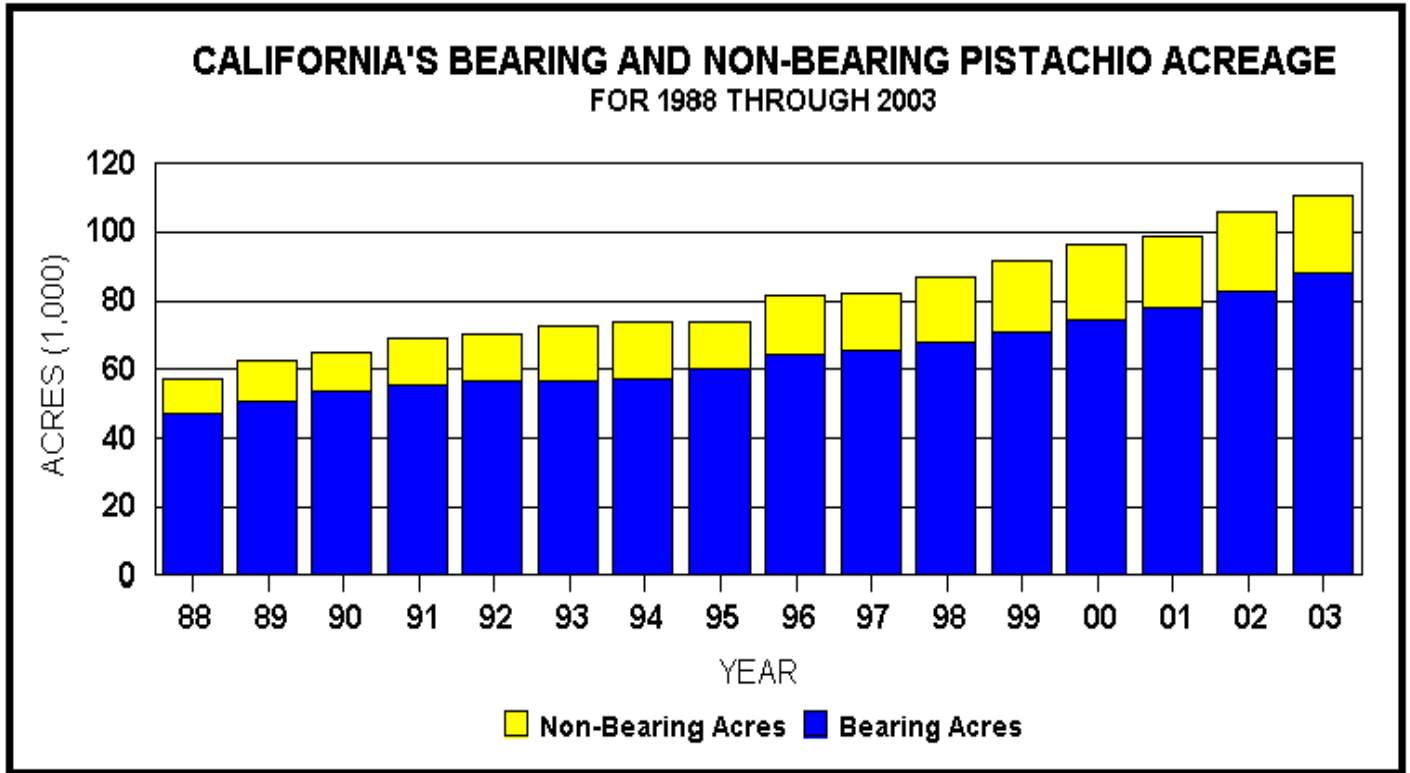


FIGURE 2.

