

# California Fruit & Nut Review



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## SEPTEMBER CROP COMMENTS

Harvest of many fruit crops was active during August. Picking gained momentum in the San Joaquin Valley of Red Globe, Flame Seedless, Thompson Seedless, and Fantasy variety table grapes for fresh use. Wine grape harvest began in August and gathered momentum by the end of the month. Cooler nights have enhanced color in red varieties. Grapes for raisins were laid down on trays. Grape growers were also busy treating their vineyards for mildew and leafhoppers, while the grassy-winged sharpshooter remains a concern. Gala and Granny

Smith variety apple harvests were active. Harvest of Freestone peaches, nectarines, and plums was also active with good condition reported. Prune harvest began. Bartlett pear harvest was active in the Lake and Mendocino areas and virtually completed by September 1. Asian pear harvest was active in the San Joaquin Valley. Thinning of olives continued with harvest beginning in late August. Picking of Clingstone peaches continued during August with good quality, but small sizes reported. Almonds were treated for mites and Navel orange worms with the harvest gaining momentum by late August. Walnuts were treated for blight and codling moths as harvest began. Strawberry harvest remained active on the central coast. The Valencia orange harvest was slowed due to normal summertime competition from other fruit in the marketplace. Lemon picking was also active in the south coast area with good quality reported. Grapefruit harvest continued with growers concerned about small sizes. New crop Navel oranges continued to mature with large individual fruit sizes.

## FRUIT AND NUT STATISTICS AT A GLANCE

Crop	Bearing Acreage		Yield Per Acre		Estimated Production		Production Percent Change	Next Crop Update
	1999	2000	1999	2000	1999	2000		
<b>NUT CROPS</b>	Acres		Pounds		1,000 Pounds			
Almonds (Shelled)	480,000	500,000	1,730	1,350	830,000	640,000	-23	January 2001
Pecans	2,600	---	923	---	2,400	---		Oct. 12, 2000
Pistachio (In-Shell)								
Marketable In-Shell	---	---	---	---	105,000	---		
Shelling Stock	---	---	---	---	18,000	---		
Total	71,000	74,600	1,730	2,750	123,000	205,000	66	January 2001
Walnuts (In-Shell)	191,000	---	Tons		1,000 Tons			
			1.48		283.0	245.0	-13	January 2001
<b>FRUIT CROPS</b>								
Apples	35,000	31,000	11.80	11.80	412.5	365.0	-12	January 2001
Apricots	19,000	19,000	4.47	5.00	85.0	95.0	12	January 2001
Cherries	18,500	19,000	4.30	2.37	79.5	45.0	-38	January 2001
Grapes, Raisin	279,000	281,000	7.59	9.61	2,117.0	2,700.0	28	Oct. 12, 2000
Grapes, Table	87,000	91,000	8.70	8.79	757.0	800.0	6	Oct. 12, 2000
Grapes, Wine	424,000	465,000	6.28	6.88	2,662.0	3,200.0	20	Oct. 12, 2000
Grapes, All	790,000	837,000	7.01	8.00	5,536.0	6,700.0	21	Oct. 12, 2000
Olives	35,300	36,000	4.11	2.22	145.0	75.0	-48	January 2001
Peaches, Clingstone	29,800	29,400	17.80	19.10	529.5	560.0	6	January 2001
Peaches, Freestone	38,000	39,000	10.04	10.77	381.5	420.0	10	January 2001
Pears, Bartlett	15,000	15,000	20.70	18.70	311.0	280.0	-10	January 2001
Pears, Other	4,300	4,300	6.98	6.98	30.0	30.0		January 2001
Prunes (Dried Weight)	83,000	86,000	2.14	2.33	178.0	200.0	12	January 2001
<b>BERRIES</b>	1999	2000	1999	2000	1999	2000		
			Cwt.		1,000 Cwt.			
Strawberries	24,600	27,600	615	590	15,155	16,284	7	Dec. 12, 2000
<b>CITRUS CROP <sup>1/</sup></b>	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01		
			Cartons		1,000 Cartons			
Grapefruit	16,600	---	964	---	16,000	---		Sept. 21, 2000
Lemons	48,500	---	825	---	40,000	---		Sept. 21, 2000
Oranges, Navel	130,000	127,000	615	535	80,000	68,000	-15	Sept. 21, 2000
Oranges, Valencia	73,500	---	735	---	54,000	---		Sept. 21, 2000
Tangerines <sup>2/</sup>	8,600	---	488	---	4,200	---		Sept. 21, 2000

<sup>1/</sup> Grapefruit - 33.5 lbs. per carton, Lemons - 38.0 lbs. per carton, Oranges - 37.5 lbs. per carton, Tangerines - 37.5 lbs. per carton.

<sup>2/</sup> Includes tangelos, tangerines, and tangors.

**2000-01 CALIFORNIA NAVEL ORANGE FORECAST**

The initial 2000-01 Navel orange forecast is 68.0 million (37.5-pound) cartons, 15 percent below last season's crop of 80.0 million cartons. Of the total forecast, 65.0 million cartons are estimated to be in the Central

Valley. The crop has been maturing well with large sizes, but fruit set is down significantly.

**CALIFORNIA NAVEL ORANGE OBJECTIVE MEASUREMENT SURVEY DATA -- CENTRAL VALLEY TOTALS 1/**

Crop Year 2/	Final Utilized Production 3/ (37.5-Lb. Cartons)	Bearing Acres	Average Trees Per Acre	Average Set Per Tree	Average September 1 Diameter 4/ (Inches)	Average March 1 Diameter 4/ 5/ (Inches)
1984-85	43,386,000	93,039	128	354	2.224	2.910
1985-86	57,612,000	94,074	128	457	2.198	3.064
1986-87	58,566,000	94,997	128	544	2.169	2.847
1987-88	53,588,000	96,110	126	361	2.343	3.195
1988-89	58,326,000	98,766	126	570	2.195	2.761
1989-90	79,242,000	101,525	125	541	2.250	2.820
1990-91	25,514,000	104,560	124	498	2.213	---
1991-92	60,406,000	102,000	124	---	---	---
1992-93	81,034,000	102,612	121	572	2.296	3.021
1993-94	63,800,000	106,381	121	452	2.365	3.090
1994-95	66,358,000	107,049	121	457	2.232	3.063
1995-96	69,750,000	113,000	121	460	2.258	2.994
1996-97	71,700,000	115,000	121	359	2.470	3.208
1997-98	81,000,000	116,500	121	407	2.481	3.195
1998-99	37,000,000	118,000	121	380	2.184	---
1999-00	76,000,000	119,000	122	458	2.224	3.049
2000-01	65,000,000	121,000	122	347	2.311	3.114

- 1/ Data for final utilized production and bearing acres are from the orange industry. Acreage data are the number of acres with trees of bearing Age (more than four years old). Some fruit could have been picked from trees younger than four years old, but not enough to consider the tree full-bearing.
- 2/ Data for 1990-91 and 1998-99 (freeze years) were not used in forecasting the 1999-00 crop. An Objective Measurement Survey was not conducted for the 1991-92 season due to lack of funding.
- 3/ California Agricultural Statistics Service preliminary forecast for 2000-01.
- 4/ Size data for 1984-85 through 1993-94 are from the Navel Orange Administrative Committee, while the data since 1993-94 are from the orange industry.
- 5/ Data for 2000-01 was derived from using the five-year average growth size from the orange industry.

**2000 PISTACHIO PRODUCTION FORECAST**

California pistachio production for 2000 is forecast at 205 million pounds. The 80 percent confidence interval is from 180 to 230 million pounds. This means that the results of our sampling procedures will encompass the true mean 80 percent of the time. This forecast is based on an objective measurement survey conducted by the California Agricultural Statistics Service under the sponsorship of the California Pistachio

Commission. The survey collects data such as clusters per tree, nuts per cluster, percent of bearing trees, as well as weight and size information. In recent years, production has remained relatively stable as Pioneer Gold rootstock (verticillium wilt resistant) has increasingly replaced the older Atlantica rootstock.

**CALIFORNIA PISTACHIO OBJECTIVE MEASUREMENT SURVEY DATA -- STATE TOTALS 1/**

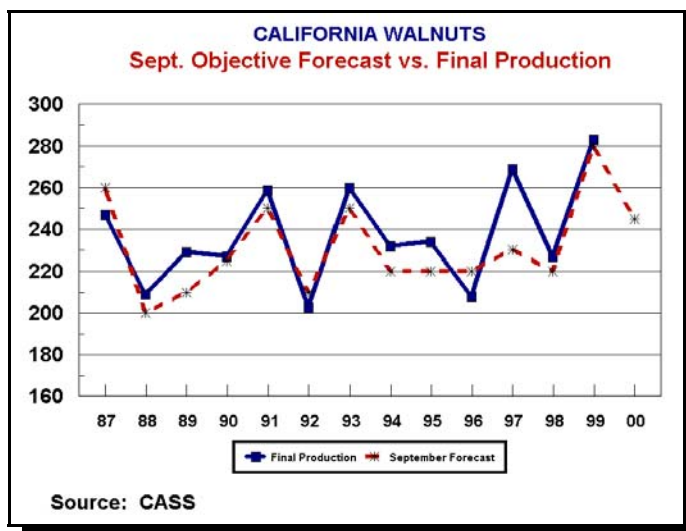
Year	Samples Completed 2/	Estimated Average Number Of Clusters Per Tree	Est. Percent Of All Spaces That Contain		Count Data			In-Hull Data 3/			Kernel Data 3/			
			Bearing Trees	Pollinators	Nuts Per Cluster (Filled & Blank)	Percent Of Nuts Filled	Est. Total Number Of Filled Nuts Per Tree	Weight Per Nut (Includes Blanks)	Weight Per Nut (Filled)	In-Hull Cross Suture	Average Weight Per Kernel	Suture	Cross Suture	Length
1988	347	1,181	83.2	5.7	10.5	80.7	10,032	2.61	---	14.13	0.832	10.02	9.37	15.87
1989	367	344	85.8	6.1	11.4	72.9	2,864	2.84	---	14.70	0.979	10.71	9.97	17.40
1990	373	1,479	85.6	6.3	10.1	73.5	10,942	2.43	---	14.14	0.871	10.12	9.32	16.11
1991	389	439	87.7	5.9	11.1	77.8	3,794	2.99	---	15.41	0.963	10.69	10.11	16.68
1992	394	1,670	86.3	6.8	7.2	70.4	8,433	3.04	---	15.26	1.240	10.96	10.35	17.79
1993	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1994	491	797	87.4	6.0	11.9	80.6	7,647	2.92	---	15.02	0.952	10.43	9.68	16.97
1995	586	974	89.9	5.4	9.2	78.9	7,114	3.07	3.26	15.51	0.949	10.33	9.94	16.40
1996	562	739	89.3	5.3	10.3	65.7	5,007	2.52	2.72	14.87	0.775	9.76	9.08	15.70
1997	642	1,049	89.5	5.4	10.4	76.0	8,326	2.78	2.92	14.92	0.896	10.56	9.60	16.55
1998	610	895	90.9	5.0	13.8	77.2	9,542	2.86	3.04	15.05	0.828	10.31	9.51	16.48
1999	603	591	90.5	5.6	11.1	70.4	4,630	2.82	3.09	15.29	0.928	10.16	9.78	16.72
2000	555	992	92.8	4.5	13.0	72.2	9,321	2.57	2.84	14.86	0.870	10.01	9.33	16.25

- 1/ Survey was not conducted in 1993.
- 2/ Number of samples is based on the August Pistachio Objective Measurement Survey. There are two trees per sample.
- 3/ All weights are in grams. Suture, cross suture and length measurements are in millimeters.

**WALNUT PRODUCTION FORECAST**

The 2000 California walnut production is forecast at 245,000 tons, down 13 percent from 1999's production of 283,000 tons. This forecast is based on the Walnut Objective Measurement Survey. The Objective Measurement Survey was conducted August 1 through August 23, 2000. Hot weather in early August may have lowered quality. Harvest is just beginning in parts of Tulare County.

The 2000 Objective Measurement Survey utilized a total of 663 blocks with two sample trees per block. Survey data indicated an average nut set of 1,483, down 13 percent from 1999's average of 1,709. The Hartley nut set was down 16 percent; Serr, down 10 percent; Franquette, down 33 percent; Chandler, down 21 percent from 1999. Percent of sound kernels in-shell was 96.9 percent Statewide. In-shell weight per nut was 21.2 grams, while the average in-shell suture measurement was 32.2 millimeters. The average length in-shell was 38.2 millimeters.



**CALIFORNIA WALNUT OBJECTIVE MEASUREMENT SURVEY DATA -- NUTS SET PER TREE BY DISTRICT**

Year	Coast <sup>1/</sup>	Sacramento Valley <sup>2/</sup>	San Joaquin Valley <sup>3/</sup>	State <sup>4/</sup>
1989	1,427	2,182	1,537	1,785
1990	1,637	2,380	1,835	2,028
1991	1,955	2,620	2,210	2,340
1992	1,567	1,902	1,380	1,604
1993	1,530	2,703	1,596	2,068
1994	1,813	1,961	1,602	1,773
1995	1,420	2,253	1,451	1,777
1996	1,362	1,836	1,497	1,630
1997	1,128	2,233	1,439	1,753
1998	1,070	1,654	1,253	1,407
1999	1,355	2,180	1,250	1,709
2000	1,195	1,812	1,204	1,483

<sup>1/</sup> Coast includes: Contra Costa, Lake, Monterey, Napa, San Benito, San Luis Obispo, Santa Clara, and Sonoma counties.

<sup>2/</sup> Sacramento Valley includes: Butte, Colusa, El Dorado, Glenn, Sacramento, Solano, Sutter, Tehama, Yolo, and Yuba counties.

<sup>3/</sup> San Joaquin Valley includes: Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare counties.

<sup>4/</sup> District and State averages are derived by weighting county averages by county bearing acreage figures.

**CALIFORNIA WALNUT OBJECTIVE MEASUREMENT SURVEY DATA -- STATE TOTALS**

Year	Bearing Acres <sup>a/</sup>	Total Production (Tons)	Nuts Set Per Tree	Kernel Grade - Percent Sound	In-Shell Weight (gm)	In-Shell Width (mm)	In-Shell Length (mm)	In-Shell Cross-Width (mm)
1989	179,000	229,000	1,785	97.0	21.5	32.3	39.1	32.6
1990	181,000	227,000	2,028	96.3	21.8	32.3	38.8	32.4
1991	181,000	259,000	2,340	95.5	20.8	31.5	39.0	31.1
1992	178,000	203,000	1,604	96.9	22.7	32.6	39.5	32.9
1993	185,000	260,000	2,068	95.8	22.9	32.6	40.0	32.5
1994	189,000	232,000	1,773	95.6	22.1	32.2	39.4	32.2
1995	193,000	234,000	1,777	93.1	20.8	31.7	39.2	31.3
1996	192,000	208,000	1,630	94.4	22.1	32.3	39.0	32.5
1997	193,000	269,000	1,753	97.3	22.9	32.3	38.6	32.6
1998	193,000	227,000	1,407	94.4	21.4	31.9	39.5	31.8
1999 <sup>b/</sup>	191,000	283,000	1,709	97.9	23.0	32.2	39.4	32.7
2000 <sup>c/</sup>	193,000	245,000	1,483	96.9	21.2	32.2	38.2	32.8

<sup>a/</sup> Bearing years include plantings of the following: Chandler, Chico, Howard, Tulare (1995 & Earlier); 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 and Earlier); Franquette, Franquette Scharsch, Mayette, Placentia, Poe, Willsons/Willsons Wonder, Woodland (1992 & Earlier); all other varieties not specified (1993 & Earlier).

<sup>b/</sup> Price Per Ton and Total Value are July 1, 2000 preliminary data.

<sup>c/</sup> Price Per Ton and Total Value preliminary data will be released July 2001.

### Florida Citrus

Most of Florida's Citrus Belt received adequate rainfall during August, however, some growers on the ridge and upper interior irrigated a lot during the month as those areas did not receive sufficient rains. All of Florida's grove land needs additional rain and thunderstorms to help replenish the lakes, ponds, and streams that were badly depleted during the winter and spring drought. An abundance of new growth has occurred on trees of all ages as a result of the near tropical weather conditions. New crop fruit continues to make good progress with very little late or off bloom fruit. Several fresh fruit packing houses have

representatives out in groves testing early bloom fruit that may be close to passing maturity tests for the start of the 2000-01 season. Several small fresh squeeze juice operations are still running late bloom oranges and grapefruit. Caretakers have been very active mowing, chopping, and discing cover crops that have made good growth with the help of the summer rains. Growers are busy spraying, fertilizing, and applying herbicides. Dead tree removal continues in all areas along with the burning of grove debris.