

# California Fruit & Nut Review



Frequency: Monthly, except November  
Released: September 14, 2001

(USPS 598-290)  
VOL. 21 NO. 9



CALIFORNIA AGRICULTURAL  
STATISTICS SERVICE

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## AUGUST CROP COMMENTS

Fruit growers conducted cultural activities that included weed control, fungicide applications, and irrigation of trees and vines. Picking of many fruit crops was active during August. Harvest of table grapes continued in the San Joaquin Valley. Flame Seedless, Fantasy, Thompson Seedless, Black Maroo, Italia and Concord varieties were harvested. Wine grape harvest began in August and gathered momentum by the end of the month. Grapes for raisins were laid down on trays. Gala,

Granny Smith and McIntosh variety apple harvests were active. Harvest of Freestone peaches, nectarines, and plums was also active. Prune harvest began. Bartlett pear harvest was active in the Sacramento Delta area and the San Joaquin Valley. Asian pear harvest was active in the San Joaquin Valley. Olive orchards were treated for fruit flies. Harvest of early variety almonds began during the first week of August and had gained momentum by month's end. Walnut, pistachio and pecan growers were preparing their orchards for harvest by the end of the month. The Valencia orange harvest was active in the Central Valley and Southern California. Hot temperatures during the beginning of August in the Central Valley began to take a toll on the fruit by late August. Lemon picking was also active in the south coast area. Grapefruit harvest continued in the San Joaquin Valley with good quality reported. 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
	2000	2001	2000	2001	2000	2001		
<b>NUT CROPS</b>	Acres		Pounds		1,000 Pounds			
Almonds (Shelled)	500,000	525,000	1,410	1,620	703,000	850,000	21	January 2002
Pecans	2,600	---	1,310	---	3,400	---		October 12, 2001
Pistachio (In-Shell)								
Marketable In-Shell	---	---	---	---	190,000	---		
Shelling Stock	---	---	---	---	53,000	---		
Total	74,600	78,000	3,260	2,560	243,000	200,000	-18	January 2002
			Tons		1,000 Tons			
Walnuts (In-Shell)	193,000	196,000	1.24	1.43	239.0	280.0	17	January 2002
<b>FRUIT CROPS</b>								
Apples	31,000	29,000	10.50	12.00	325.0	348.0	7	January 2002
Apricots	19,000	18,000	4.84	4.17	92.0	75.0	-18	January 2002
Cherries	19,000	20,000	2.47	3.00	47.0	60.0	28	January 2002
Grapes, Raisin <sup>1/</sup>	280,000	280,000	10.30	8.37	2,892.0	2,000.0	-31	October 12, 2001
Grapes, Table	89,000	91,000	8.69	8.79	773.0	800.0	3	October 12, 2001
Grapes, Wine	458,000	480,000	7.34	6.46	3,364.0	3,100.0	-8	October 12, 2001
Grapes, All	827,000	851,000	8.50	7.28	7,029.0	5,900.0	-16	October 12, 2001
Olives	36,000	36,000	1.47	3.47	53.0	125.0	136	October 12, 2001
Peaches, Clingstone	28,200	28,800	18.85	18.20	532.0	525.0	-1	January 2002
Peaches, Freestone	39,000	39,000	10.15	10.00	395.5	390.0	-1	January 2002
Pears, Bartlett	15,000	14,000	18.80	16.40	282.0	230.0	-18	January 2002
Pears, Other	4,300	4,300	6.98	6.98	30.0	30.0	N/C	January 2002
Plums, Dried <sup>2/</sup>	86,000	86,000	2.55	1.80	219.0	155.0	-29	January 2002
<b>BERRIES</b>	2000	2001	2000	2001	2000	2001		
			Cwt.		1,000 Cwt.			
Strawberries	27,600	26,400	550	535	15,180	14,124	-7	December 11, 2001
<b>CITRUS CROP <sup>3/</sup></b>	2000-01	2001-02	2000-01	2001-02	2000-01	2001-02		
			Cartons		1,000 Cartons			
Grapefruit	15,400	---	844	---	13,000	---		September 20, 2001
Lemons	48,500	---	907	---	44,000	---		September 20, 2001
Oranges, Navel	128,000	128,000	563	500	72,000	64,000	-11	October 12, 2001
Oranges, Valencia	73,500	---	626	---	46,000	---		September 20, 2001
Tangerines <sup>4/</sup>	8,600	---	605	---	5,200	---		September 20, 2001

<sup>1/</sup> The Raisin Industry Diversion Program (RID) had zero acreage enrolled for 2000, but 41,000 acres were enrolled for 2001.

<sup>2/</sup> Forecast carried forward from June 2001.

<sup>3/</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>4/</sup> Includes tangelos, tangerines, and tangors.

**CALIFORNIA NAVEL ORANGE FORECAST**

The initial 2001-02 Navel orange forecast is 64.0 million (37.5-pound) cartons, 11 percent below last season's crop of 72.0 million cartons. Of the total forecast, 60.0 million cartons are estimated to be in the Central Valley. Survey data indicated an average fruit set of 264 oranges per tree, with a

September 1 diameter of 2.483 inches. This is the lowest set per tree, but the largest September 1 diameter recorded since the survey began in the 1984-85 season.

**CALIFORNIA CENTRAL VALLEY NAVEL ORANGES 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	69,000,000	122,000	122	347	2.311	3.120
2001-02	60,000,000	122,000	122	264	2.483	3.250

- 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 2001-02 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 2001-02.
- 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 2001-02 was derived from using the five-year average growth size from the orange industry.

**PISTACHIO PRODUCTION FORECAST**

California pistachio production for 2001 is forecast at 200 million pounds. The 80 percent confidence interval is from 170 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	Estimated Percent Of All Spaces That Contain		Count Data			In-Hull Data 3/			Kernel Data 3/			
			Bearing Trees	Pollinators	Nuts Per Cluster (Filled and 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
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
2001	632	805	92.6	5.2	12.0	70.0	6,737	2.87	3.13	15.59	1.020	10.52	9.99	16.71

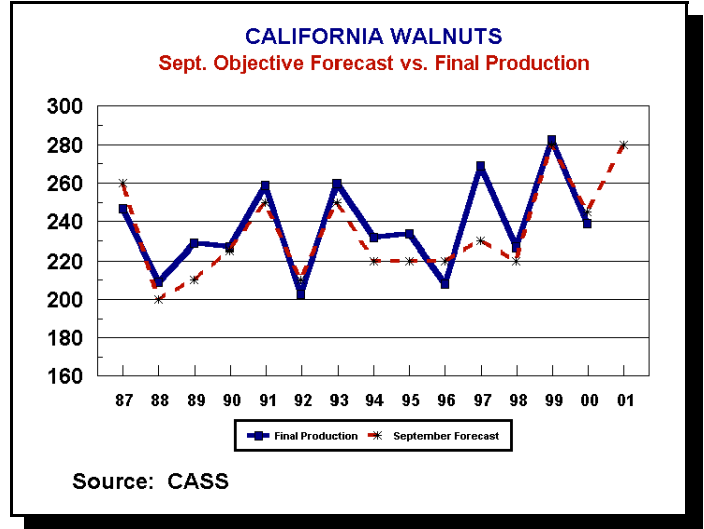
- 1/ Survey was not conducted in 1993.
- 2/ Number of samples is based on the August Pistachio Objective Measurement Survey. There are two trees per sample.
- 3/ All weights are in grams. Suture, cross suture and length measurements are in millimeters.

**WALNUT PRODUCTION FORECAST**

The 2001 California walnut production is forecast at 280,000 tons, up 17 percent from 2000's production of 239,000 tons. This forecast is based on the Walnut Objective Measurement Survey. The Objective Measurement Survey was conducted August 1 through August 25, 2001.

The 2001 Objective Measurement Survey utilized a total of 626 blocks with two sample trees per block. Survey data indicated an average nut set of 1,719, up 16 percent from 2000's average of 1,483. The Hartley nut set was up 9 percent; Chandler, was up 44 percent; Serr, was up 51 percent; Franquette, was down 4 percent from 2000. Percent of sound kernels in-shell was 97.8 percent Statewide. In-shell weight per nut was 21.5 grams, while the average in-shell suture measurement was 31.7 millimeters. The average length in-shell was 38.3 millimeters.

Estimated nut sets, sizing measurements, average number of trees per acre, and estimated bearing acreage were used in the regression formulas.



**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>
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
2001	937	2,020	1,478	1,719

- <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	Total Production Tons	Nuts Set Per Tree	Kernel Grade - Percent Sound	In-Shell			
					Weight	Width	Length	Cross-Width
					gm	mm		
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	191,000	283,000	1,709	97.9	23.0	32.2	39.4	32.7
2000 <sup>a/</sup>	193,000	239,000	1,483	96.9	21.2	32.2	38.2	32.8
2001 <sup>b/ c/</sup>	196,000	280,000	1,719	97.8	21.5	31.7	38.3	31.6

- <sup>a/</sup> Price Per Ton and Total Value are July 1, 2001 preliminary data.
- <sup>b/</sup> Bearing years include plantings of the following: Chandler, Chico, Howard, Tulare (1997 & 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 (1996 and Earlier); Franquette, Franquette Scharsch, Mayette, Placentia, Poe, Willsons/Willsons Wonder, Woodland (1994 & Earlier); all other varieties not specified (1995 & Earlier).
- <sup>c/</sup> Price Per Ton and Total Value preliminary data will be released July 2002.

### **Florida Citrus**

Precipitation during August was erratic at best. Some areas received about one-half the normal rainfall for the month, while some groves on the east coast and lower interior counties recorded nearly twice the monthly average. There were times during the month when some growers and caretakers were pumping out excess water, while others in the upper west coast and interior were irrigating to maintain good tree condition. In spite of the irregular rainfall, there is an abundance of new growth on trees of all ages. New crop fruit is making very good progress.

Several fresh fruit packing houses have had people out in the groves testing grapefruit, Navels and Ambersweet oranges, and Fallglo tangerines for early shipments. There has not been any new crop fruit packed and shipped through the last day of August. Caretakers have been very active during the month cutting cover crops that have grown due to the recent rains. Late summer fertilizers and sprays have been applied between rains and thunderstorms. Some hedging and topping continued, along with the burning of dead trees and grove debris.