

# 1994-95 NAVEL ORANGE OBJECTIVE MEASUREMENT SURVEY RESULTS

PERMANENT RECORD

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CALIFORNIA AGRICULTURAL  
STATISTICS SERVICE

## 1994-95 CALIFORNIA NAVEL ORANGE FORECAST

The initial 1994-95 Navel orange forecast is 74.0 million (37.5 pound) cartons, up 1 percent from the 73.2 million cartons in the 1993-94 season. Of this 74.0 million total, 65.0 million cartons are estimated to be in the Central Valley.

## SURVEY HISTORY

A Navel Orange Objective Measurement (O.M.) Survey, funded by the Navel Orange Administrative Committee (NOAC), has been conducted in the Central Valley since the 1984-85 crop year. The data from the first two years were used for research purposes in developing crop estimating models.

## SURVEY SAMPLE

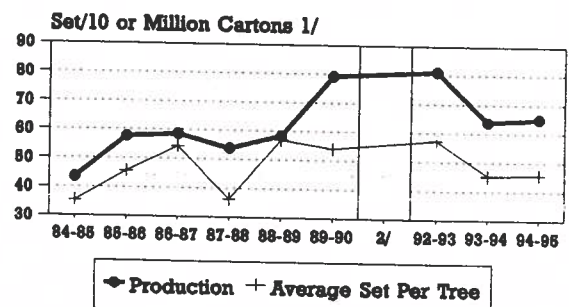
A sample of 480 Navel orange groves was randomly selected proportional to county and variety bearing acreage. Once a grove is randomly chosen and permission is granted, two trees are randomly selected. Trunk and branch measurements along with fruit counts are then made on each tree.

TABLE 1: CALIFORNIA NAVEL ORANGES,  
AVERAGE ORANGE SET PER TREE, BY COUNTY

Year	Madera	Fresno	Tulare	Kern	Central Valley
1986-87	347	637	541	504	544
1987-88	272	236	402	354	361
1988-89	403	518	585	594	570
1989-90	491	606	501	614	541
1990-91 <sup>a/</sup>	655	476	505	479	498
1991-92	N/A	N/A	N/A	N/A	N/A
1992-93	402	501	569	654	572
1993-94	498	433	427	513	452
1994-95	300	356	450	529	457

<sup>a/</sup> Freeze year. Data not used in forecasting 1994-95 crop.

## Central Valley Navel Orange O. M. Survey Production and Set Data



1/ 37.5 pounds per carton  
2/ 90-91 freeze, 91-92 no survey

**TABLE 2: CALIFORNIA CENTRAL VALLEY NAVEL ORANGES**

Crop Year	Final Utilized Production <u>a/</u> (37.5 Lb. Cartons)	Bearing Acres <u>a/</u>	Average Trees Per Acre <u>b/</u>	Average Set Per Tree <u>b/</u>
1984-85	43,386,000	93,039	128	354
1985-86	57,612,000	94,074	128	457
1986-87	58,566,000	94,997	128	544
1987-88	53,588,000	96,110	126	361
1988-89	58,326,000	98,766	126	570
1989-90	79,242,000	101,525	125	541
1990-91 <u>c/</u>	25,514,000	104,560	124	498
1991-92 <u>d/</u>	60,406,000	102,000	124	N/A
1992-93	81,034,000	102,612	121	572
1993-94	63,800,000	106,381	121	452
1994-95	65,000,000 <u>e/</u>	111,000	121	457

a/ Navel Orange Administrative Committee. Acreage data is number of acres of bearing age (over 4 years old). Some fruit could have been picked from trees younger than 4 years old, but not enough to consider the tree full bearing.

b/ California Agricultural Statistics Service.

c/ Freeze year. Data not used in forecasting 1994-95 crop.

d/ No Objective Measurement Survey conducted for 1991-92 season due to lack of funding.

e/ California Agricultural Statistics Service preliminary forecast.

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California Agricultural Statistics Service (CASS)

P.O. Box 1258

Sacramento, CA 95812

(916) 551-1529

FAX: (916) 551-1528

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Jim Tippet  
State Statistician

Dwayne Nelson  
Deputy State Statistician

Gary Nelson & Tom McNair  
Agricultural Statisticians

California Agricultural Statistics Service  
1220 N Street, Room 243  
P.O. Box 942871  
Sacramento, CA 94271-0001