

1993-94 NAVEL ORANGE OBJECTIVE MEASUREMENT SURVEY RESULTS

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CALIFORNIA AGRICULTURAL
STATISTICS SERVICE

1993-94 CALIFORNIA NAVEL ORANGE FORECAST

The initial 1993-94 Navel orange forecast is 76.0 million (37.5 pound) cartons, down 13 percent from the 87.6 million cartons in the 1992-93 season. Of this 76.0 million total, 68.0 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. The size data used in the estimating models were obtained from the NOAC's monthly tagged fruit and growth survey.

SURVEY SAMPLE

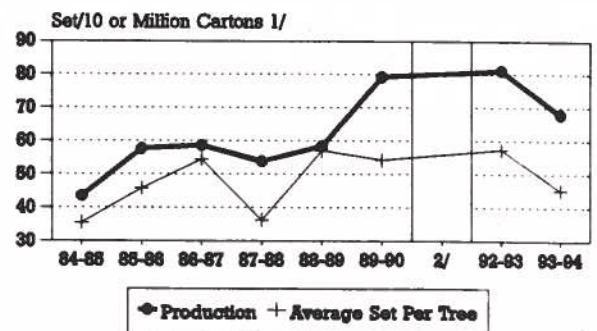
A sample of 488 Navel orange groves was randomly selected proportional to county and variety bearing acreage. Once a grove is randomly chosen and permission is granted, two trees are randomly selected. Trunk and branch measurements along with fruit counts are then made on each tree. Size data is collected by the NOAC with their regular monthly tagged fruit and growth survey.

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 a/	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

a/ Freeze year. Data not used in forecasting 1993-94 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>	Average Sept. 1 Diameter <u>c/</u> (Inches)	Average March 1 Diameter <u>c/</u> (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 <u>d/</u>	25,514,000	104,560	124	498	2.213	N/A
1991-92 <u>e/</u>	60,406,000	102,000	124	N/A	N/A	N/A
1992-93	81,034,000	102,612	121	572	2.296	3.021
1993-94	68,000,000 <u>f/</u>	105,500	121	452	2.365	3.049 <u>g/</u>

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/ Navel Orange Administrative Committee's Tagged Fruit Growth Survey.

d/ Freeze year. Data not used in forecasting 1993-94 crop.

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

f/ California Agricultural Statistics Service preliminary forecast.

g/ Navel Orange Administrative Committee five-year growth average.

California Agricultural Statistics Service (CASS)

P.O. Box 1258

Sacramento, CA 95812

(916) 551-1529

FAX: (916) 551-1528

Jim Tippet
State Statistician

Ron Radenz & Dwaine Nelson
Deputy State Statisticians

Gary Nelson & Tom McNair
Agricultural Statisticians

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