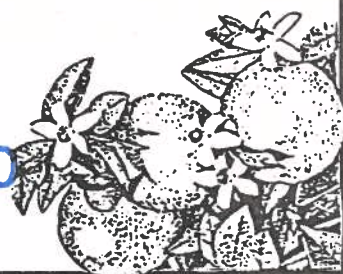


1990-91 NAVEL ORANGE OBJECTIVE MEASUREMENT RECORD SURVEY RESULTS



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CALIFORNIA AGRICULTURAL
STATISTICS SERVICE

1990-91 CALIFORNIA NAVEL ORANGE FORECAST

The initial 1990-91 California Navel orange forecast is 80.0 million (37.5 pound) cartons, down 9 percent from the 88.2 million cartons in the 1989-90 season. Of this 80.0 million State total, 70.0 million cartons are estimated to be in the central valley.

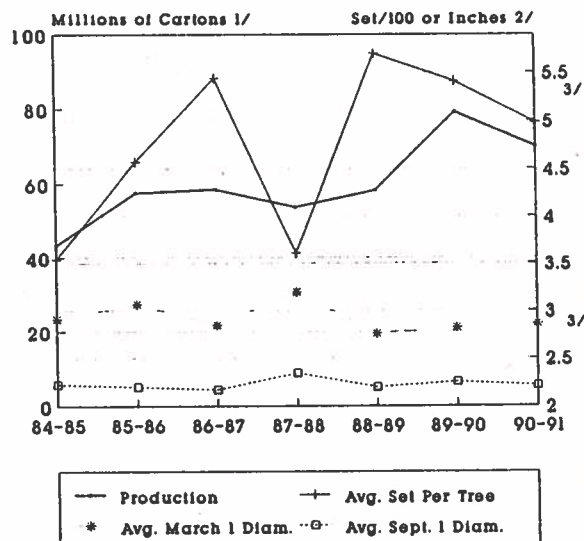
SURVEY HISTORY

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 431 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.

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



1/ Cartons are 37.5 pounds each
2/ Diameter is measured in inches.
3/ Projected.

TABLE 1: CALIFORNIA CENTRAL VALLEY NAVAL ORANGES

Crop Year	Final Utilized Production (37.5 Lb. Cartons a/)	Bearing Acres a/	Average Trees Per Acre b/	Average Set Per Tree b/	Average Sept. 1 Diameter (Inches) c/	Average March 1 Diameter (Inches) c/
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	70,000,000 d/	104,560	124	498	2.213	2.862 e/

a/ SOURCE: Navel Orange Administrative Committee.
b/ SOURCE: California Agricultural Statistics Service.
c/ SOURCE: Navel Orange Administrative Committee's Tagged Fruit Growth Survey.
d/ SOURCE: California Agricultural Statistics Service preliminary forecast.
e/ SOURCE: Navel Orange Administrative Committee five-year growth average.

**TABLE 2: 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	655	476	505	479	498

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