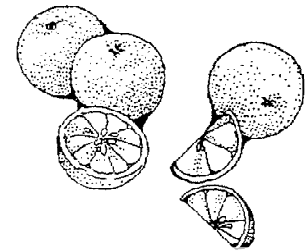


2003-04 California Navel Orange Objective Measurement Report



Released: September 11, 2003
5:30 A.M. PDT



CALIFORNIA AGRICULTURAL
STATISTICS SERVICE

2003-04 CALIFORNIA NAVEL ORANGE FORECAST

The initial 2003-04 Navel orange forecast is 78.0 million (37.5-pound) cartons, 5 percent below last season's crop of 82.0 million cartons. Of the total forecast, 76.0 million cartons are estimated to be in the Central Valley. Survey data indicated an average fruit set of 358 oranges per tree, with a September 1 diameter of 2.410 inches.

SURVEY HISTORY

A Navel Orange Objective Measurement Survey 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.

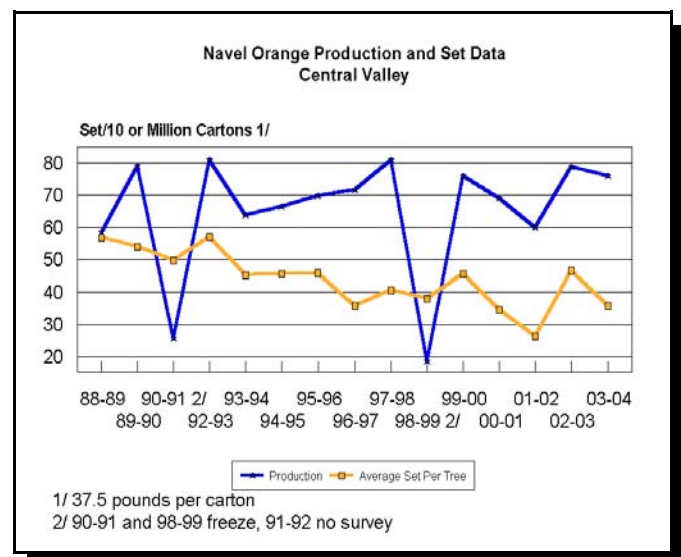
SURVEY SAMPLE

A sample of 498 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.

CALIFORNIA NAVEL ORANGE AVERAGE SET PER TREE BY COUNTY

Year ^{1/}	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
1991-92	---	---	---	---	---
1992-93	402	501	569	654	572
1993-94	498	433	427	513	452
1994-95	300	356	450	529	457
1995-96	372	428	467	479	460
1996-97	285	280	376	388	359
1997-98	191	292	424	477	407
1998-99	378	343	391	377	380
1999-00	290	390	450	545	458
2000-01	314	485	293	392	347
2001-02	462	201	260	299	264
2002-03	413	289	465	592	466
2003-04	301	524	305	388	358

^{1/} Data for 1990-91 and 1998-99 (freeze years) were not used in forecasting the 2003-04 crop. No Objective Measurement Survey was conducted for the 1991-92 season due to lack of funding.



CALIFORNIA CENTRAL VALLEY NAVEL ORANGES 1/

Crop Year <u>2/</u>	Final Utilized Production <u>3/</u> (37.5-Lb. Cartons)	Bearing Acres	Average Trees Per Acre	Average Set Per Tree	Average September 1 Diameter <u>4/</u> (Inches)	Average March 1 Diameter <u>4/ 5/</u> (Inches)
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	68,000,000	122,000	122	347	2.311	3.120
2001-02	65,000,000	122,000	122	264	2.483	3.172
2002-03	79,000,000	122,500	122	466	2.200	3.000
2003-04	76,000,000	123,000	124	358	2.410	3.210

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 2002-03 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 2002-03.

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 2002-03 and 2003-04 were derived using the five-year average growth size from the orange industry.

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California Agricultural Statistics Service publications are available on the Internet at:
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