

1989-90 NAVEL ORANGE OBJECTIVE MEASUREMENT SURVEY RESULTS



RELEASED: SEPTEMBER 12, 1989
12:00 NOON PDT



CALIFORNIA AGRICULTURAL
STATISTICS SERVICE

1989-90 CALIFORNIA NAVEL ORANGE ESTIMATE

The initial 1989-90 Navel orange forecast is 35.0 million – 75 pound boxes (70.0 million – 37.5 pound cartons), up 3 percent from the 34.0 million boxes in the 1988-89 season. Of this 35.0 million total, 30.5 million boxes 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. This is the fourth year a forecast was made using O.M. data and the September farm report of Navel orange crop condition and yield. The size data used in the estimating models were obtained from the NOAC's monthly tagged fruit and growth survey.

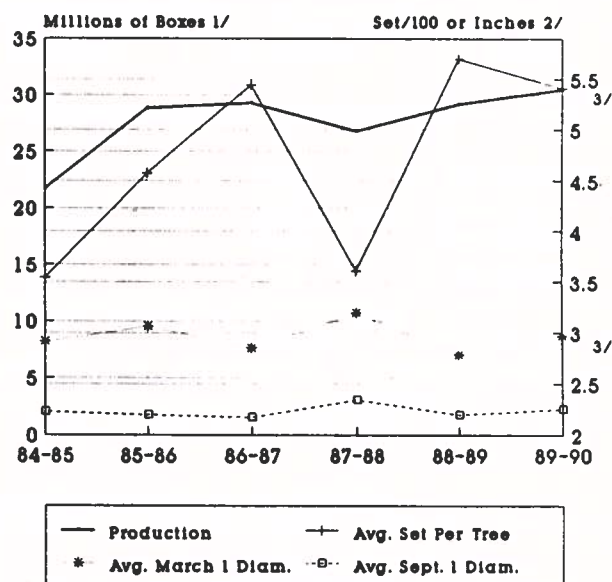
SURVEY SAMPLE

A sample of over 350 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.

ACREAGE

The acreage tables (Table 5 and Table 6) are the same that appear in the 1988 California Fruit and Nut Acreage publication. These acreage figures are preliminary and may be revised in the 1989 Fruit and Nut Acreage publication to be released in June of 1990.

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



1/ Boxes are 75 pounds each.
2/ Diameter is measured in inches.
3/ Projected.

TABLE 1 - CALIFORNIA NAVAL ORANGES:
Acreage, Yield, Production, Grower Return and Value a/

Year	Bearing Acres	Yield	Utilized Production	Grower Return Per Box	Total Value
		(Boxes/Acre)	(000 Boxes)	(Dollars)	(000 Dollars)
1984-85	108,000	243	26,200	11.36	297,610
1985-86	107,100	308	33,000	7.15	235,980
1986-87	106,100	325	34,500	7.04	242,840
1987-88	106,000	297	31,500	7.82	246,462
1988-89	105,000	324	34,000	7.30	248,305
1989-90 ^{b/}	105,000	333	35,000	N/A	N/A

See footnotes for Table 3.

TABLE 2 - CALIFORNIA NAVEL ORANGES:
Sales by Utilization and Average Grower Return a/

Year	Fresh Market	Grower Return Per Box	Processing	Grower Return Per Box
	(000 Boxes)	(Dollars)	(000 Boxes)	(Dollars)
1983-84	25,350	7.28	8,350	0.38
1984-85	23,100	12.54	3,100	2.56
1985-86	26,500	8.90	6,500	0.02
1986-87	26,500	9.20	8,000	-0.12
1987-88	24,900	9.58	6,600	1.20
1988-89	25,900	9.34	8,100	0.79
1989-90	N/A	N/A	N/A	N/A

TABLE 3 - 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

a/ 1 box = 75 pounds.

b/ Preliminary forecast as of September 1.

TABLE 4 - California Central Valley Navel Oranges

Crop Year	Final Utilized Production (75 Lb. Boxes) <u>a/</u>	Bearing Acres <u>b/</u>	Average Trees Per Acre <u>b/</u>	Average Set Per Tree <u>b/</u>	Average Sept. 1 Diameter (Inches) <u>c/</u>	Average March 1 Diameter (Inches) <u>c/</u>
1984-85	21,693,000	91,700	128	354	2.224	2.910
1985-86	28,806,000	90,900	128	457	2.198	3.064
1986-87	29,283,000	90,300	128	544	2.169	2.847
1987-88	26,794,000	89,800	126	361	2.343	3.195
1988-89	29,159,000	89,900	126	570	2.195	2.761
1989-90	30,500,000 <u>d/</u>	90,500	125	541	2.250	2.966 <u>e/</u>

a/ Source: Navel Orange Administrative Committee (Domestic plus Export plus Products Movement Data).

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.

[illegible]

ORANGES - ALL															
BEEK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLOOD	17	0	7	10	0	0	1	0	0	0	15	1	11	24	118
BONANZAS	185	0	28	59	0	38	0	23	0	25	25	0	10	35	101
CUTTER	0	0	0	0	0	0	0	0	0	12	78	0	117	0	76
EARLY BEC	0	0	0	0	0	0	0	0	0	40	20	0	359	0	214
MEDITERRANEAN SWT	49	0	0	0	0	0	0	0	0	0	0	0	11	0	555
NAVEL	50,037	134	205	275	253	248	130	173	432	469	285	215	51,302	2,021	60
NAVEL ATWOOD	2,240	14	17	0	0	7	0	0	134	113	181	78	2,278	660	53,323
NAVEL FISHER	12	0	0	14	58	75	71	189	313	276	278	398	230	2,082	2,938
NAVEL FROST	3,333	0	20	0	0	0	38	15	0	0	0	0	3,391	15	2,312
NAVEL MILLER	362	0	0	0	0	0	0	0	0	0	0	0	362	0	3,406
NAVEL ROBERTSON	102	0	0	0	2	0	0	0	0	0	0	0	104	0	362
NAVEL THOMSON	673	0	7	9	0	8	6	0	54	35	10	0	703	99	802
NAVEL TULEGOLD	888	35	31	76	50	13	111	7	0	0	0	0	1,211	8	1,219
NAVEL WASHINGTON	41,187	172	133	74	84	155	71	50	192	188	288	86	41,879	1,717	43,596
NAVILLATE LANE	0	0	0	0	0	0	0	0	0	0	34	52	0	86	86
NUCELLAR	257	0	0	0	0	0	0	0	9	0	0	0	257	9	266
NVL ATWOOD EARLY	343	3	31	9	0	0	0	0	0	0	20	0	386	20	406
NVL SKAGGS BONANZA	926	106	53	9	92	22	36	0	20	0	1	0	1,244	21	1,265
NVL THMSON IMP/DUN	12	14	13	0	0	5	0	50	5	179	53	39	44	336	380
NVL THOMSON IMP	755	94	16	52	26	36	0	74	26	64	88	104	979	577	1,556
OLD LINE NAVEL	66	0	0	0	0	0	0	0	0	13	10	28	66	51	117
RUBY/RUBY BLOOD	109	0	0	0	0	0	2	0	0	0	3	0	111	3	114
VALENCIA	59,488	242	215	404	460	266	227	709	818	608	388	122	61,342	3,598	64,940
VALENCIA CAMPBELL	1,662	4	5	12	57	0	10	84	111	316	30	6	1,746	596	2,342
VALENCIA FROST	293	0	0	7	2	4	2	0	0	0	0	0	308	0	308
VALENCIA OLINDA	2,938	0	0	9	246	40	38	94	168	318	54	39	3,275	980	4,255
OTHER	368	2	11	12	9	21	0	27	61	66	89	316	423	562	985
CROP TOTAL	166,302	816	792	972	1,398	901	780	1,495	2,435	2,744	2,061	1,471	172,035	14,481	186,516

TABLE 6 - Navel Orange Acreage by County as of 1988

County	Bearing	Nonbearing	Total
Butte	236	---	236
Fresno	15,534	495	16,029
Glenn	877	13	890
Imperial	55	---	55
Kern	16,639	4,688	21,327
Los Angeles	44	---	44
Madera	2,610	16	2,626
Merced	49	---	49
Orange	64	---	64
Riverside	7,760	148	7,908
San Bernardino	3,593	---	3,593
San Diego	1,204	---	1,204
Solano	25	---	25
Stanislaus	40	---	40
Sutter	10	---	10
Tehama	27	---	27
Tulare	55,083	3,411	58,494
Ventura	1,333	---	1,333
Yolo	69	---	69
Other	23	6	29
STATE	105,275	8,777	114,052

Jim Tippet
State Statistician

Dave Kleweno -- Tom McNair
Agricultural Statisticians

CALIFORNIA AGRICULTURAL STATISTICS SERVICE
P.O. Box 1258
Sacramento, CA 95812
(916) 445-3214