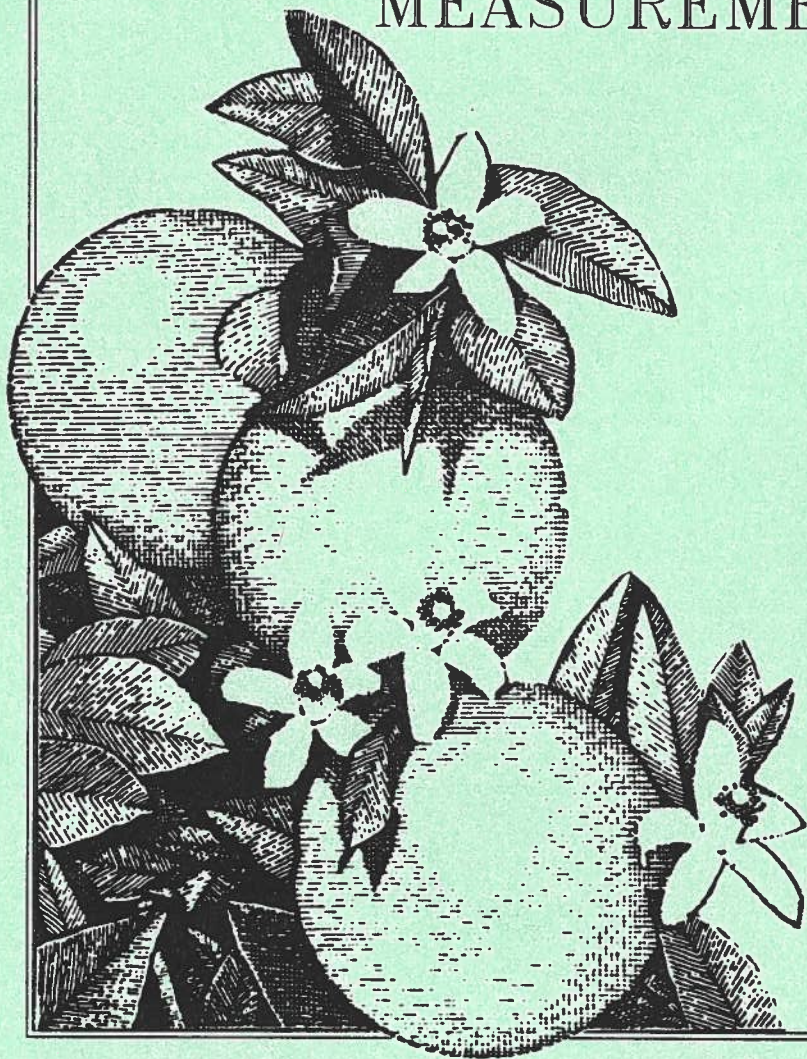


PERMANENT
RECORD FILE

1987-88 NAVEL
ORANGE OBJECTIVE
MEASUREMENT SURVEY



September 10, 1987

1987-88 CALIFORNIA NAVEL ORANGE ESTIMATE

The initial 1987-88 Navel orange forecast is 26.0 million — 75 pound boxes (52.0 million — 37.5 pound cartons), down 25 percent from the 34.5 million boxes in the 1986-87 season. Of this 26.0 million total, 23.0 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 second 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 300 Navel orange groves was randomly selected proportionally 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 1986 California Fruit and Nut Acreage publication. These acreage figures are preliminary and may be revised in the 1987 Fruit and Nut Acreage publication to be released in June of 1988.

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TABLE 1-California Navel Oranges: Acreage, Yield, Production, Grower Return, and Value a/

Year	Bearing Acres	Yield	Utilized Production	Grower Return Per Box	Total Value
		(Boxes Per Acre)	(1,000 Boxes)	(Dollars)	(1,000 Dollars)
1982-83	108,900	369	40,200	4.61	185,328
1983-84	109,500	308	33,700	5.57	187,721
1984-85	108,000	243	26,200	11.36	297,610
1985-86	107,100	308	33,000	7.15	235,980
1986-87	106,000	325	34,500	7.04	242,840
1987-88 b/	105,300	247	26,000	NA	NA

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
	(1,000 Boxes)	(Dollars)	(1,000 Boxes)	(Dollars)
1982-83	27,200	6.24	13,000	1.20
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	NA	NA	NA	NA

a/ 1 box = 75 pounds.

b/ Preliminary forecast as of September 1.

TABLE 3 - 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

TABLE 4 - Average Orange Set Per Tree, by Variety

Year	Navel	Navel Washington	Other	Central Valley
1986-87	520	593	505	544
1987-88	301	428	494	361

TABLE 5 - Navel Orange Acreage by County as of 1986

County	Bearing	Non-Bearing	Total
Butte	235	0	235
Colusa	5	0	5
Fresno	15,704	358	16,062
Glenn	878	17	895
Imperial	56	4	60
Kern	16,737	3,671	20,408
Los Angeles	48	0	48
Madera	2,845	16	2,861
Merced	51	0	51
Orange	64	0	64
Placer	1	0	1
Riverside	8,074	183	8,257
San Bernardino	3,621	0	3,621
San Diego	1,160	33	1,193
San Luis Obispo	3	0	3
Santa Barbara	9	0	9
Shasta	1	0	1
Solano	25	0	25
Stanislaus	48	0	48
Sutter	10	0	10
Tehama	27	0	27
Tulare	55,020	1,262	56,282
Ventura	1,339	0	1,339
Yolo	70	2	72
Yuba	6	0	6
STATE	106,037	5,546	111,583

TABLE 6 - California Orange Acreage, by Variety and Year of Planting

CROP AND VARIETY	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	ACRES STANDING IN 1986	BEARING BEARING: TOTAL
ORANGES - ALL															
BLOOD	19	4	0	0	7	10	3	1	0	0	5	1	11	41	17
BONANZAS	4	0	0	0	28	0	50	0	20	0	65	0	51	82	85
CUTTER	0	0	0	0	0	0	0	0	0	0	12	38	20	0	101
EARLY BEC	0	0	0	0	0	0	0	0	0	0	46	20	363	0	429
NAVEL	52,066	327	314	134	188	177	231	275	88	129	433	498	284	53,453	1,631
NAVEL ATWOOD	2,001	11	111	14	28	0	0	7	0	0	49	81	112	2,414	55,084
NAVEL FISHER	12	0	0	0	0	14	10	32	40	130	218	180	548	36	2,414
NAVEL FROST	3,034	10	0	0	0	0	0	0	0	0	0	0	0	3,044	1,184
NAVEL MILLER	362	0	0	0	0	0	0	0	0	0	0	0	0	3,044	0
NAVEL ROBERTSON	95	0	0	0	0	0	0	0	0	0	0	0	0	362	0
NAVEL THOMSON	665	1	6	0	7	6	0	4	6	6	25	25	0	95	0
NAVEL TULEGOLD	664	30	48	35	56	87	70	13	111	7	0	0	0	685	60
NAVEL WASHINGTON	40,968	124	270	172	139	78	80	149	115	52	224	94	557	990	131
MUGELLAR	180	0	0	0	0	0	0	0	0	0	0	0	0	41,954	1,168
NVL ATWOOD EARLY	332	0	11	3	31	9	0	0	0	0	0	0	0	100	0
NVL SKAGGS BONANZA	719	65	73	108	51	9	92	22	46	0	0	0	0	386	0
NVL THOMSON IMP/DUM	7	0	5	14	13	0	0	5	0	0	5	0	4	1,222	87
NVL THOMSON IMP	728	6	26	94	16	52	26	26	0	4	42	224	64	39	1,209
RUBY/RUBY BLOOD	198	0	0	0	0	0	0	0	0	82	0	0	0	948	18
VALENCIA	59,097	421	683	242	215	343	460	261	265	643	674	204	414	61,584	438
VALENCIA CAMPBELL	1,754	0	0	0	5	12	39	0	24	0	65	173	49	1,910	2
VALENCIA FROST	293	0	0	0	0	7	2	4	0	0	0	0	0	306	2,200
VALENCIA INDIAN RIV	11	3	0	0	0	0	0	0	0	0	0	0	0	0	311
VALENCIA OLINDA	2,815	15	5	3	0	14	207	40	38	126	0	0	0	14	0
OTHER	488	0	1	2	11	4	8	21	6	94	99	297	142	3,096	126
CROP TOTAL	166,424	1,017	1,553	818	795	822	1,275	860	761	1,267	2,037	1,884	2,555	172,918	150
															182,068