

CS-SC-54-4

CITRUS ORCHARD
MANAGEMENT
STUDY

*Lemons
&
Oranges
1954*

VENTURA COUNTY
CALIFORNIA

INTRODUCTION

This is the Fourteenth Annual Report of the Ventura County Citrus Orchard Management Study conducted by the University of California Agricultural Extension Service and the California Citrus League, in cooperation with Ventura County citrus growers. Both lemon and Valencia orange studies are included in this report. For each, a ten year summary, together with the current costs and income, is tabulated. The lemon study comprises 14 records, totaling 1487 acres and the Valencia orange study comprises 18 records, totaling 469 acres. Three navel orange records are included, following each chart of the lemon study.

We express our sincere appreciation to the growers who have cooperated in making their records available, to the packing house managers, to George S. B. Ferguson of the California Citrus League who assisted materially in collecting the data, and to H. Fisk Phelps, Extension Economist, Farm Management, who summarized the data.

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EXPLANATION OF TERMS

Yields, costs, and returns are computed in packed boxes or the equivalent and include all fruit picked and hauled to the packing house. Packed boxes calculated at 77 pounds net for oranges and 79 pounds net for lemons.

Cultural labor costs include hired labor, operator's and family labor, field power, horses, tractors and trucks, and contract jobs.

Harvesting costs include picking, hauling, labor camp expense, etc.

Cash overhead costs include all cash costs other than labor and material, such as taxes, insurance, and general expense.

Depreciation is the share of the original cost of facilities which should be charged each year of use. It does not include trees.

Interest on investment is computed at 5 per cent of the average value of facilities over their useful life.

Management income is total income less total cost of production. It is the amount available to reimburse the operator for his management after all costs are met.

Capital and management income is management income plus interest on investment.

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TABLE 1 - TEN YEAR GENERAL SUMMARY OF COSTS AND RETURNS OF LEMON ORCHARDS - 1945-54, INCLUSIVE

Items	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	10 Year Average
Number of records	8	11	18	21	18	13	12	11	14	14	14
Total acreage of records	631	701	883	1666	1432	1020	1001	573	1496	1487	1089
Acres per record	78	64	49	79	80	78	83	52	107	106	78
Average age of trees	15	15	17	15	16	17	17	22	21	22	18
Av. number of trees per acre	100	112	112	118	118	111	111	94	106	108	109
Yield, packed boxes per acre	303	435	352	362	302	365	399	387	268	431	360
Yield, field boxes per acre	520	746	600	608	491	605	615	631	495	661	597
Cost per packed box on tree	\$ 1.21	\$.98	\$ 1.41	\$ 1.34	\$ 1.96	\$ 1.44	\$ 1.32	\$ 1.36	\$ 2.04	\$ 1.15	\$ 1.39
Picking and hauling cost	.70	.63	.74	.68	.65	.72	.69	.76	.79	.70	.70
Total cost per packed box	1.91	1.61	2.15	2.02	2.61	2.16	2.01	2.12	2.83	1.85	2.09
Av. price per packed box	3.10	2.18	2.66	2.74	4.79	3.32	2.82	3.71	4.40	2.88	3.18
Management income per box	1.19	.57	.51	.72	2.18	1.16	.81	1.59	1.57	1.03	1.09
Cultural cost per acre	208.31	253.99	335.14	329.41	415.71	354.03	343.17	314.39	344.21	301.87	320.02
Cash overhead cost per acre	63.08	79.24	63.17	60.27	80.28	74.32	73.23	94.04	77.02	66.76	73.14
Depreciation facilities	20.76	20.36	21.96	17.34	18.03	18.59	18.79	23.91	26.94	27.11	21.38
Interest on inv. at 5%	74.60	74.75	77.40	77.30	77.38	78.27	93.23	94.82	99.52	99.61	84.69
Total "on tree" cost per acre	366.75	428.34	497.67	484.32	591.40	525.21	528.42	527.16	547.69	495.35	499.23
Harvesting cost per acre	212.72	272.51	258.91	247.79	195.11	262.80	273.52	293.10	212.05	301.04	252.96
Total cost per acre	579.47	700.85	756.58	732.11	786.51	788.01	801.94	820.26	759.74	796.39	752.19
Total income per acre	939.53	949.16	934.62	992.30	1447.16	1210.71	1123.12	1433.78	1180.94	1240.84	1145.22
Management income per acre	360.06	248.31	178.04	260.19	660.65	422.70	321.18	613.52	421.20	444.45	393.03
Capital & Mgt. income per A.	434.66	323.06	255.44	337.49	738.03	500.97	414.41	708.34	520.72	544.06	477.72

TABLE 2 - MAIN PROFIT DETERMINING FACTORS IN INDIVIDUAL ORCHARDS - PER ACRE

Serial number	Average yield packed box	Average income packed box	Total income per acre	Cult. costs power L. & M.	Cash over-head costs	Cash costs up to picking	Capital over-head costs		Total on tree costs	Harvesting costs	Total all Costs	Capital and mgt. income	Management income
							Depre-ciation	Int.on invest.					
L-22	495	\$3.49	\$1726.51	\$240.55	\$52.86	\$293.41	\$ 8.36	\$96.34	\$398.11	\$355.86	\$753.97	\$1068.88	\$972.54
L-31	993	2.36	2337.74	569.13	101.67	670.80	32.88	95.34	799.02	601.19	1400.21	1032.87	937.53
L-15	703	2.65	1860.19	268.52	84.05	352.57	14.97	98.14	465.68	501.13	966.81	991.52	893.38
L-26	478	3.66	1749.03	401.97	47.52	449.49	3.16	79.25	531.90	347.29	879.19	949.09	869.84
L-24	708	2.35	1663.01	271.07	69.63	340.70	30.34	101.60	472.64	416.68	889.32	875.29	773.69
L-29	478	3.09	1479.25	248.28	41.19	289.47	20.63	98.49	408.59	330.10	738.69	839.05	740.56
L-32	549	2.85	1563.82	279.12	49.82	328.94	53.48	104.71	487.13	352.24	839.37	829.16	724.45
L-23	612	3.12	1907.50	513.42	69.10	582.52	49.23	116.10	747.85	563.17	1311.02	712.58	596.48
L-8	698	2.60	1813.92	513.44	114.85	628.29	43.41	103.28	774.98	512.57	1287.55	629.65	526.37
L-33	340	2.93	996.79	230.02	61.75	291.77	27.50	97.06	416.33	223.90	640.23	453.62	356.56
L-14	386	2.67	1030.25	238.63	57.25	295.88	33.90	99.96	429.74	288.79	718.53	411.68	311.72
L-34	394	2.67	1053.66	371.42	67.14	438.56	42.93	106.97	588.46	277.64	866.10	294.53	187.56
L-7	396	2.70	1068.82	578.55	118.67	697.22	15.60	109.83	822.65	335.86	1158.51	20.14	-89.69
L-30	188	2.54	475.94	281.88	57.73	339.61	18.28	93.21	451.10	164.25	615.35	-46.20	-139.41
Av.	431	2.88	1240.84	301.87	66.76	368.63	27.11	99.61	495.35	301.04	796.39	544.06	444.45
Navel Orange Records													
N-3	433	3.05	1319.51	252.19	49.51	301.70	14.18	95.81	411.69	201.31	613.00	802.32	706.51
N-1	178	2.08	368.84	135.72	62.63	198.35	4.21	90.74	293.30	70.63	363.93	95.65	4.91
N-5	174	2.61	452.89	271.81	55.68	327.49	18.28	93.21	438.98	65.06	504.04	42.06	-51.15

Each record in the study is given a serial number in the first column, and they are arranged in descending order of management income per acre. They are kept in the same order in all tables.

TABLE 3 - YIELD, QUALITY, INCOME AND COSTS PER FIELD BOX AND PER PACKED BOX

Serial Number	Yield per acre		Fruit quality per cent sold		Average income per pkd. box	Cost per field box			Cost per packed box			Income per packed box	
	Packed Boxes	Field Boxes*	Fresh	juice prod. cull		On tree**	Har-vest-ing	Total all costs	On tree**	Har-vest-ing	Total all costs	Capital & man-agement	Management income
L-22	495	814	61.9	38.1	\$ 3.49	\$.49	\$.44	\$.93	\$.80	\$.72	\$1.52	\$2.16	\$ 1.97
L-31	993	1296	42.2	57.8	2.36	.62	.46	1.08	.80	.61	1.41	1.04	.95
L-15	703	1070	51.3	48.7	2.65	.43	.47	.90	.66	.72	1.38	1.41	1.27
L-26	478	787	66.6	33.4	3.66	.68	.44	1.12	1.11	.73	1.84	1.98	1.82
L-24	708	997	58.6	41.4	2.35	.47	.42	.89	.67	.59	1.26	1.24	1.09
L-29	478	756	55.2	44.8	3.09	.54	.44	.98	.85	.69	1.54	1.75	1.55
L-32	549	848	50.0	50.0	2.85	.57	.42	.99	.89	.64	1.53	1.51	1.32
L-23	612	966	56.6	43.4	3.12	.77	.58	1.35	1.22	.92	2.14	1.17	.98
L-8	698	1111	49.6	50.4	2.60	.70	.46	1.16	1.11	.74	1.85	.90	.75
L-33	340	518	53.5	46.5	2.93	.80	.43	1.23	1.22	.66	1.88	1.33	1.05
L-14	386	609	53.6	46.4	2.67	.71	.47	1.18	1.11	.75	1.86	1.07	.81
L-34	394	623	50.5	49.5	2.67	.94	.45	1.39	1.49	.70	2.19	.75	.48
L-7	396	630	51.8	48.2	2.70	1.31	.53	1.84	2.08	.85	2.93	.05	-.23
L-30	188	281	49.1	50.9	2.54	1.61	.58	2.19	2.41	.87	3.28	-.24	-.74
Av.	431	661	54.2	45.8	2.88	.75	.46	1.21	1.15	.70	1.85	1.26	1.03
Navel Orange Records													
N-3	433	646	84.4	15.6	3.05	.64	.31	.95	.95	.47	1.42	1.85	1.63
N-1	178	274	57.7	42.3	2.08	1.07	.25	1.32	1.65	.40	2.05	.54	.03
N-5	174	245	64.0	36.0	2.61	1.79	.27	2.06	2.52	.38	2.90	.24	-.29

* - Field Box - 50 pounds of fruit

** - Includes interest and depreciation costs

TABLE 4 - IRRIGATION AND FERTILIZATION PRACTICES AND COSTS AND OTHER CULTURAL COSTS PER ACRE

Serial Number	Irrig. prac. and cost		Fertilization practices and costs				Other cultural costs					Total cult. costs
	Labor Costs	Water costs	Kind & amount per acre	Labor cost	Material costs	Lbs. N. per acre	Soil. Mgt.	Pest dis. L & M	Frost prot. L & M	Pruning	Misc.*	
L-22	\$15.25	\$22.67	NH ₃ -161#, Steer-5.1 ton	\$.91	\$55.35	335	\$28.37	\$38.61	\$ 8.51	-	\$70.88	\$240.55
L-31	32.37	47.29	Dairy 1663 ft., Mag. Ox. 105#	13.85	149.35	416	59.52	56.73	28.26	\$64.19	117.57	569.13
L-15	11.11	48.43	NuGreen-122#, NH ₃ -196#	1.00	29.72	211	55.19	16.66	34.46	66.86	5.09	268.52
L-26	10.49	18.05	Steer-2 tons, NH ₃ - 100#	1.50	24.61	162	30.39	60.53	56.28	-	200.12	401.97
L-24	13.38	6.87	NH ₃ -206#	-	21.59	167	17.04	96.05	26.02	28.14	61.98	271.07
L-29	18.33	17.34	NH ₃ -101#, Poul 88 ft.	-	20.83	150	22.84	57.66	2.87	54.23	54.18	248.28
L-32	19.02	12.10	Ca N-484#, NH ₃ - 80#	1.25	23.17	142	33.93	90.27	46.69	19.46	33.23	279.12
L-23	82.89	77.71	AM N - 894#	7.14	39.79	300	15.22	110.52	23.94	57.78	98.43	513.42
L-8	19.38	7.08	Urea- 243#	.31	21.52	102	44.30	118.80	51.56	56.10	194.39	513.44
L-33	13.60	3.55	(not obtained)	-	29.38	-	36.24	51.96	20.28	27.45	47.56	230.02
L-14	15.14	13.40	Am. N -370#	.83	16.47	124	22.41	93.08	8.17	57.80	11.33	238.63
L-34	31.82	20.61	NH ₃ -182#	-	19.03	147	28.49	74.52	5.91	131.50	59.54	371.42
L-7	47.13	28.87	Am N-11#, Urea 267#, Bryd 314#, Tri Sup Ph 212#	14.82	44.61	131	67.02	128.47	24.67	41.24	181.72	578.55
L-30	22.10	25.99	NH ₃ , urea	3.28	25.87	-	49.02	9.06	1.49	44.10	100.97	281.88
Av.	21.59	14.15		1.95	31.13	179	35.31	67.67	21.11	36.24	72.72	301.87
Navel Orange Records												
N-3	30.11	38.65	Ca N-547#, steer 4.3 ton	5.82	55.05	261	34.21	54.69	-	2.39	31.27	252.19
N-1	20.93	23.92	NH ₃ -46#, Am S-349#, Ca N-279#, Am P 488#	2.09	48.07	233	22.75	15.58	-	.85	1.53	135.72
N-5	21.31	25.06	NH ₃ Urea	3.16	24.95	-	47.27	8.73	1.45	42.53	97.35	271.81

* Miscellaneous costs include: cover crops, replanting trees, windbreak maintenance, hired supervision or management and incidentals.

TABLE 1 - TEN YEAR GENERAL SUMMARY OF COSTS AND RETURNS OF VALENCIA ORCHARDS - 1945-54, INCLUSIVE

Items	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	10 Year Average
Number of records	13	20	31	29	28	22	24	20	19	18	22
Total acreage of records	388	668	748	680	658	513	621	539	496	469	578
Acres per record	30	33	24	24	24	23	26	27	26	26	26
Average age of trees	17	16	17	18	19	23	22	24	25	26	21
Average no. of trees per A.	94	96	109	97	97	96	94	81	98	97	96
Yield,packed boxes per A.	490	309	332	334	331	364	315	381	453	326	364
Yield,field boxes per A.	717	477	493	506	499	521	443	563	650	467	534
Cost per packed box,on tree	\$.67	\$ 1.03	\$ 1.12	\$ 1.21	\$ 1.38	\$ 1.33	\$ 1.40	\$ 1.12	\$ 1.14	\$ 1.55	\$ 1.17
Picking and hauling cost	.30	.33	.32	.35	.33	.33	.36	.40	.38	.46	.35
Total cost per packed box	.97	1.36	1.44	1.56	1.71	1.66	1.76	1.52	1.52	2.01	1.52
Av. price per packed box	2.95	3.98	1.80	2.53	2.12	2.11	1.81	2.26	1.74	3.01	2.41
Management income per box	1.98	2.62	.36	.97	.41	.45	.05	.74	.22	1.00	.89
Cultural cost per acre	190.20	182.15	236.01	261.52	290.60	311.30	278.22	252.74	319.46	318.69	264.09
Cash overhead cost per acre	55.44	52.01	45.15	53.84	76.58	72.76	55.86	68.91	79.87	69.76	63.02
Depreciation on facilities	12.70	12.44	16.24	17.60	18.14	20.36	18.49	19.99	20.57	21.04	17.76
Interest on inv. at 5%	69.48	71.08	72.45	73.21	73.47	77.70	89.57	89.52	97.29	97.53	81.13
Total "on tree" cost per A.	327.82	317.68	369.85	406.17	458.79	482.12	442.14	431.16	517.19	507.02	426.00
Harvesting cost per acre	145.88	101.80	106.82	116.01	109.49	121.29	114.07	147.81	171.01	148.65	128.28
Total cost per acre	473.70	419.48	476.67	522.18	568.28	603.41	556.21	578.97	688.20	655.67	554.28
Total income per acre	1441.85	1229.21	596.07	846.42	702.19	766.46	571.98	862.15	790.02	980.39	878.68
Management income per acre	968.15	809.73	119.40	324.24	133.91	163.05	15.77	283.18	101.82	324.72	324.40
Capital & Mgt.income per A.	1037.63	880.81	191.85	397.45	207.38	240.75	105.34	372.70	199.11	422.25	405.53

TABLE 2 - MAIN PROFIT DETERMINING FACTORS IN INDIVIDUAL ORCHARDS - PER ACRE

Serial Number	Av. yield packed box	Average income packed box	Total income per acre	Cult. costs, power, L & M	Cash over-head costs	Cash costs up to picking	Capital over-head costs		Total on tree costs	Har-vest-ing costs	Total all costs	Capital and mgt. income	Management income
							Depre-ciation	Int. on invest.					
V-22	441	\$ 3.12	\$1377.26	\$162.07	\$66.11	\$228.18	\$ 5.99	\$87.87	\$322.04	\$184.64	\$506.68	\$958.45	\$870.58
V-13	497	2.85	1419.60	295.77	103.45	399.22	41.98	102.92	544.12	213.89	758.01	764.51	661.59
V-10	306	3.54	1080.56	250.37	49.16	299.53	14.12	95.74	409.39	127.41	536.80	639.50	543.76
V-11	328	3.00	984.82	151.35	52.60	203.95	9.83	92.15	305.93	146.68	452.61	624.36	532.21
V-35	494	2.84	1402.46	420.46	64.49	484.95	49.23	116.10	650.28	231.29	881.57	636.99	520.89
V-36	345	3.19	1100.46	322.79	48.21	371.00	3.16	79.25	453.41	166.34	619.75	559.96	480.71
V-20	237	3.97	943.41	187.87	85.99	273.86	5.99	89.65	369.50	103.40	472.90	560.16	470.51
V-31	316	3.04	961.71	197.13	52.51	249.64	1.94	89.09	340.67	164.17	504.84	545.96	456.87
V-12	493	2.94	1451.12	539.08	128.61	667.69	41.35	109.08	818.12	197.15	1015.27	544.93	435.85
V-39	192	3.62	696.48	136.16	62.84	199.00	4.27	90.73	294.00	93.70	387.70	399.51	308.78
V-41	253	3.00	758.28	191.75	53.55	245.30	11.54	93.58	350.42	119.94	470.36	381.50	287.92
V-15	200	2.80	561.04	143.22	50.66	193.88	5.65	87.51	287.04	79.26	366.30	282.25	194.74
V-38	263	3.26	856.02	381.06	58.50	439.56	22.85	99.98	562.39	126.84	689.23	266.77	166.79
V-21	214	2.62	560.41	180.77	59.57	240.34	19.63	98.88	358.85	106.31	465.16	194.13	95.25
V-42	175	3.07	537.59	277.14	56.77	333.91	18.28	93.21	445.40	80.50	525.90	104.90	11.69
V-29	135	2.70	364.47	172.73	45.46	218.19	5.88	88.68	312.75	61.59	374.34	78.81	-9.87
V-27	142	2.43	344.34	162.59	35.06	197.65	10.28	90.95	298.88	94.98	393.86	41.43	-49.52
V-8	114	3.17	360.47	233.83	59.53	293.36	4.67	88.63	386.66	49.71	436.37	12.73	-75.90
H1 9	413	3.00	1237.05	352.53	80.82	433.35	24.60	99.66	557.61	185.30	742.91	593.80	494.14
Lo 9	202	3.06	618.07	270.93	54.16	325.09	16.01	94.54	435.64	96.91	532.55	180.06	85.52
Av. all	326	3.01	980.39	318.69	69.76	388.45	21.04	97.53	507.02	148.65	655.67	422.25	324.72

Each record in the study is given a serial number in the first column and they are arranged in descending order of management income per acre. They are kept in the same order in all tables.

TABLE 3 - YIELD, QUALITY, INCOME AND COSTS PER FIELD BOX AND PER PACKED BOX

Serial Number	Yield per Acre		Fruit Quality per cent sold		Average income per pkd. box	Cost per field box			Cost per packed box			Income per pkd. box	
	Packed Boxes	Field Boxes	Fresh	Juice Prod. cull		On tree*	Harvesting	Total all costs	On tree*	Harvesting	Total all costs	Capital & Management	Management income
V-22	441	630	72.9	27.1	\$3.12	\$.51	\$.29	\$.80	\$.73	\$.42	\$1.15	\$2.17	\$1.97
V-13	497	704	64.0	36.0	2.85	.78	.30	1.08	1.09	.43	1.52	1.54	1.33
V-10	306	432	83.0	17.0	3.54	.95	.29	1.24	1.34	.42	1.76	2.09	1.78
V-11	328	470	71.7	28.3	3.00	.65	.31	.96	.93	.45	1.38	1.90	1.62
V-35	494	787	64.2	35.8	2.84	.83	.29	1.12	1.32	.47	1.79	1.29	1.05
V-36	345	479	76.9	23.1	3.19	.95	.35	1.30	1.32	.48	1.80	1.62	1.39
V-20	237	332	96.4	3.6	3.97	1.11	.31	1.42	1.56	.43	1.99	2.36	1.98
V-31	316	442	77.8	22.2	3.04	.77	.37	1.14	1.07	.52	1.59	1.73	1.45
V-12	493	701	62.4	37.6	2.94	1.17	.28	1.45	1.66	.40	2.06	1.10	.88
V-39	192	276	89.1	10.9	3.62	1.07	.34	1.41	1.52	.49	2.01	2.08	1.61
V-41	253	371	69.8	30.2	3.00	.95	.32	1.27	1.39	.47	1.86	1.51	1.14
V-15	200	270	82.3	17.7	2.80	1.06	.29	1.35	1.43	.40	1.83	1.41	.97
V-38	263	365	83.3	16.7	3.26	1.54	.35	1.89	2.14	.48	2.62	1.02	.64
V-21	214	309	62.1	37.9	2.62	1.16	.35	1.51	1.67	.50	2.17	.91	.45
V-42	175	245	61.3	38.7	3.07	1.81	.33	2.14	2.54	.46	3.00	.60	.07
V-29	135	192	69.7	30.3	2.70	1.63	.32	1.95	2.32	.45	2.77	.59	-.07
V-27	142	187	51.6	48.4	2.43	1.60	.50	2.10	2.11	.67	2.78	.29	-.35
V-8	114	163	70.1	29.9	3.17	2.38	.31	2.69	3.40	.44	3.84	.11	-.67
Hi-9	413	598	68.7	31.3	3.00	.93	.31	1.24	1.35	.45	1.80	1.44	1.20
Lo-9	202	282	73.5	26.5	3.06	1.54	.35	1.89	2.16	.48	2.64	.89	.42
Av.all	326	467	70.0	30.0	3.01	1.08	.32	1.40	1.55	.46	2.01	1.30	1.00

*Includes interest and depreciation costs.

TABLE 4 - IRRIGATION AND FERTILIZATION PRACTICES AND COSTS AND OTHER CULTURAL COSTS PER ACRE

Serial Number	Irrig. prac. and cost		Fertilization practices and costs				Other cultural costs					Total cult. costs
	Labor costs	Water costs	Kind and amount per acre	Labor cost	Material costs	Lbs. N per acre	Soil mgt.	Pest, dis. L & M	Frost prot. L & M	Pruning	Misc.*	
V-22	\$14.63	\$9.95	Am.S.341#, Ca.N.273#,AmP478#	\$2.05	\$42.37	192	\$17.95	\$15.64	\$35.53	\$21.97	\$ 1.98	\$162.07
V-13	18.58	5.89	Urea 197#	2.49	15.01	85	22.50	55.77	27.24	-	148.29	295.77
V-10	29.89	38.37	Ca N.543#, Steer 4.3 tons	5.77	54.65	259	33.97	54.29	-	2.38	31.05	250.37
V-11	11.44	16.38	Am N 222#, Poul 331 ft.	.56	57.07	376	16.23	41.59	2.22	1.33	4.53	151.35
V-35	74.72	77.71	Barnd. 38 ft. Am N 847#	9.55	55.67	289	12.98	53.24	19.85	3.27	113.47	420.46
V-36	10.08	18.05	NH ₃ 109#, Urea 80#	2.50	17.43	123	27.55	94.18	-	-	153.00	322.79
V-20	23.74	40.98	Urea 8-8-4	2.70	37.25	-	33.62	11.47	14.31	-	23.80	187.87
V-31	30.82	14.01	NuGr.192#, Poul 176 ft.	5.95	40.63	219	28.69	41.50	-	8.49	27.04	197.13
V-12	51.72	29.22	Urea 521#	12.79	41.92	236	58.92	124.48	.24	4.05	215.74	539.08
V-39	21.00	24.00	NH ₃ 46#, Am S.350#, Ca N-280#, Am P 490#	2.10	48.22	234	22.83	15.63	-	.85	1.53	136.16
V-41	28.94	13.52	Urea, 8-8-4	1.18	32.85	-	57.71	28.24	-	-	29.31	191.75
V-15	11.20	48.41	Am N - 460#	3.00	22.27	152	12.95	33.85	.30	-	11.24	143.22
V-38	14.98	32.12	Barnd. 204 ft.,NH ₃ 231#	3.19	81.20	238	41.27	50.80	58.87	-	98.63	381.06
V-21	23.05	11.40	Bn yd. 8-8-4 Urea	7.16	52.58	-	18.24	18.98	19.14	4.62	25.60	180.77
V-42	21.73	25.55	NH ₃ 131#, Urea 146#	3.22	25.44	169	48.19	8.91	1.47	43.36	99.27	277.14
V-29	12.12	7.42	NH ₃ 136#, Urea 219#	4.00	29.63	204	32.18	26.64	-	-	60.74	172.73
V-27	12.50	46.50	NuGr 143#, Urea 286#, FloGro 7286#	1.36	53.18	478	21.07	7.36	-	-	20.62	162.59
V-8	14.16	44.17	Flo Gro 5333#, Urea 187#	-	54.00	214	25.83	3.04	44.17	45.83	2.63	233.83
Hi 9	40.46	30.45		7.73	41.15	221	34.37	72.86	6.37	4.97	114.17	352.53
Lo 9	17.08	27.40		3.14	49.67	206	37.76	27.93	22.63	13.03	72.29	270.93
Av.	30.77	29.18		5.83	44.68	215	35.78	54.23	13.11	8.31	96.80	318.69

*Miscellaneous costs include covercrops, removing and replanting trees, windbreak maintenance, hired supervision or management, and incidentals.

AGE, TREES PER ACRE, AND LOCATIONS OF COST STUDY ORCHARDS

VENTURA COUNTY - 1954

<u>Serial Number</u>	<u>Age* 1954</u>	<u>Trees per Acre</u>	<u>Climatic Zone**</u>
L-22	18	104	Intermediate
L-31	14	132	"
L-15	23	102	"
L-26	13	102	"
L-24	22	112	Coastal
L-29	18	129	"
L-32	17	121	Intermediate
L-23	24	92	"
L-8	21	106	"
L-33	Various	-	Coastal
L-14	18	100	"
L-34	21	91	Intermediate
L-7	35	91	Interior
L-30	35	75	"
V-22	22	116	Interior
V-13	25	114	Intermediate
V-10	31	103	Interior
V-11	26	87	Intermediate
V-35	24	83	"
V-36	23	99	"
V-20	23	100	Interior
V-31	23	68	Intermediate
V-12	24	145	Interior
V-39	55	89	"
V-41	40	86	"
V-15	27	74	Intermediate
V-38	23	103	"
V-21	45	80	Interior
V-42	34	70	"
V-29	24	89	"
V-27	23	89	Intermediate
V-8	24	111	Interior
N-3	57	103	"
N-1	54	90	"
N-5	39	60	"

* Age - Average age where trees of various ages

** Climatic Zones --

Coastal - Ocean to line through Saticoy & Camarillo.

Intermediate - Saticoy-Camarillo line to line through Santa Paula - Moorpark.

Interior - Santa Paula-Moorpark line to County line, including Ojai Valley.