

CLING PEACH ACREAGE AND PRODUCTION

CALIFORNIA

SUTTER COUNTY

	Bearing Acreage	Production Tons	Tons per Acre	Price per Ton
1940	40,009	353,000	8.8	\$ 19.90
1941	40,619	332,000	8.2	47.10
1942	40,250	424,000	10.5	58.60
1943	41,853	350,000	8.4	64.90
1944	44,385	492,000	11.1	61.80
1945	45,995	466,000	10.1	63.00
1946	47,912	554,000	11.6	63.70
1947	48,235	513,000	10.6	49.90
1948	51,015	500,000	9.8	63.30
1949	47,209	578,000	12.2	40.00
1950	47,670	472,000	9.9	60.00

Bearing Acreage	Tons per Acre
11,760	
10,270	8.7
10,720	12.8
11,120	10.3
11,872	10.5
11,908	11.3
13,364	12.2
13,914	10.8
14,687	10.5
11,219	13.4
11,261	12.5
12,387	14.9
13,096	14.6

10.6

Cling Peach Acreage Increased About 25%
During the War Period But Has Declined
Some From The Peak of 1948.

Yields in Sutter County Have Been
Above The State Average

WITH THE RESULTS OBTAINED FROM THIS STUDY

A Rancher in 1950	with 20 acres of peaches (The minimum recommended for a family operation)	and 10 tons per acre. (less than the average for this study)	and	A price of \$60 per ton	would have	A gross income of \$12,000
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This rancher with average costs as shown for this study of \$430 per acre would have a total cost of:

— — — — — — — — \$8,600

This leaves a net income for the year of: — — — — —

— — — — — — — — \$3,400

This is after he has been paid for his labor of 2,000 hours @ \$1.00: — — — — —

— — — — — — — — 2,000

And interest on his investment at 5% on \$14,000 (It would cost about \$1,000 per acre to buy a bearing orchard): — — — — —

— — — — — — — — 700

This gives a farm income of: — — — — —

— — — — — — — — \$6,100

To be used for family living, debt retirement, capital investment, and savings.

WHAT DID IT COST YOU TO GROW PEACHES IN 1950?

Did it cost you \$41 per ton, as it did for the average of the records in this study?

OR

Did it cost you \$30 per ton as it did for the lowest cost record?

If it cost you \$30 per ton, study your operations to keep your costs low.

OR

Did it cost you \$63 per ton as it did for the highest cost record?

If it cost you \$63 per ton, study your ranch as to ways of lowering the cost.

On the pages following Table 1 you will find breakdowns of the various expense items and suggestions for improvements.

Cost Per Ton Results from Two Factors:

1. Yield per Acre
2. Total Cost per Acre

Costs May Be Shown in Several Different Ways:

I

By Type of Expense

Labor makes up over half the total cost. Includes family and hired labor.

Field Power is the cost of tractors and trucks. In most cases this was figured at an hourly rate sufficient to cover all costs of operation.

Contract operations includes operations where the costs were not broken down between labor, field power, and materials as well as actual contract operations.

Material includes pumping power as well as actual materials.

Cash overhead includes taxes, repairs, insurance and a charge for general expense.

Table 1 showed 12.5 tons per acre for the High 10 records and 8.9 tons per acre for the low 10 records.

Table 2 shows \$421 per acre for the High 10 records and \$440 per acre for the low 10 records.

II

By Operation

Cultural includes everything up to harvest.

Harvest includes picking, hauling, and other miscellaneous harvest costs.

These costs are broken down in detail on Tables

3 - 4 - 5.

Table 2 Costs Per Acre

Cost per Acre by Type of Expense							Summary of Costs per Acre by Operation						
Serial No.	Field Labor	Field Power	Contract Operation	Material	Cash Overhead	Depreciation	Interest	Total Cost	Cultural	Harvest	Overhead	Other Int & Total Depreciat. Cost	
1	237.33	16.99	8.21	36.18	73.12	29.52	28.00	449.35	218.29	104.56	73.12	53.38	449.35
2	244.70	21.91	14.33	50.53	32.80	27.95	38.40	430.62	241.08	96.91	32.80	59.83	430.62
3	267.22	10.65	55.98	16.05	65.60	54.50	37.93	507.93	250.36	109.82	65.60	82.15	507.93
4	250.13	36.65	3.84	50.44	42.15	31.07	31.70	445.98	241.60	113.90	42.15	48.33	445.98
5	240.30	16.18	59.46	9.42	95.87	33.30	32.20	486.73	226.42	112.66	95.87	51.78	486.73
6	196.25	3.09	59.57	49.94	56.62	48.75	30.85	440.07	224.26	110.44	56.62	48.75	440.07
7	192.73	34.23	-	37.94	41.64	34.28	40.13	380.95	153.68	127.37	41.64	58.26	380.95
8	221.33	13.48	11.36	27.08	31.83	23.60	26.52	355.20	187.61	90.67	31.83	45.09	355.20
9	198.14	8.25	26.20	23.23	20.54	30.06	31.18	337.60	162.94	106.62	20.54	47.50	337.60
10	271.07	21.10	-	41.61	32.48	44.68	43.97	454.91	242.22	122.41	32.48	57.80	454.91
11	217.95	40.59	-	54.12	32.09	34.97	42.82	422.54	244.59	87.44	32.09	58.42	422.54
12	285.92	29.96	-	70.75	43.26	63.63	40.35	533.87	308.80	129.49	43.26	52.32	533.87
13	328.20	38.48	3.24	54.56	98.80	34.11	29.21	586.60	330.84	108.07	98.80	48.89	586.60
14	249.11	43.95	13.93	87.21	90.38	30.56	31.86	547.00	270.28	136.11	90.38	50.23	547.00
15	197.84	25.93	-	38.44	28.76	31.24	40.78	362.99	211.57	64.24	28.76	58.42	362.99
16	185.68	14.59	-	27.76	63.71	25.57	32.31	349.62	173.99	61.73	63.71	50.19	349.62
17	249.00	32.37	28.16	57.91	35.42	35.42	48.29	501.63	304.41	99.92	35.42	61.88	501.63
18	263.77	32.08	-	76.52	30.25	30.58	33.55	466.75	303.41	78.60	30.25	54.49	466.75
19	149.36	36.61	-	47.61	26.11	26.51	38.54	324.74	160.08	80.13	26.11	58.42	324.74
20	281.21	34.15	34.49	53.07	37.84	40.89	31.74	513.39	364.92	62.87	37.84	47.76	513.39
Av.	227.68	28.09	11.42	46.94	49.65	32.71	34.92	431.41	229.58	101.11	49.65	51.07	431.41
Hi 10	235.17	20.79	16.16	34.70	48.27	33.05	32.97	421.11	213.14	108.44	48.27	51.26	421.11
Lo 10	221.04	34.57	7.20	59.80	50.89	32.40	36.65	440.55	244.27	94.70	50.89	50.69	440.55

Compare Your Costs With These.

These costs include labor, field power, materials depreciation on equipment, and interest on investment.

All of the operations were not separated on some of the records. Where certain items are blank, the costs are included with other operations.

Why Should These Variations Exist?

Pruning - varies from \$18 to \$73. Partly age of orchard. May need an average of several years on each orchard to get a true picture.

Fertilizing - varies from \$4 to \$47 per acre.

See Table 6 for analysis.

Spraying - Varies from \$14 to \$54.

Spray programs are fairly uniform, but methods of application and materials vary.

Do you use the best and cheapest materials?

Are you using your equipment to best advantage?

Some of the high costs here are from high depreciation and interest on equipment.

Irrigation - See Table 6.

Thinning - High because 15% of crop eliminated before harvest.

Table 3. Cultural Costs

Cultural Costs By Operation

Serial No.	Brush		Cover Cropping	Fertiliz- ing	Spray- ing	Cultiva- tion	Irrig. Prep.	Irriga- tion	Thinning	Propping	Scatter- ing		Total Cultural Cost
	Pruning	Disposal									Boxes	Miscell.	
1	27.75	2.99	-	12.64	18.43	11.08	1.59	22.18	77.32	11.82	16.31	16.18	218.29
2	39.59	3.47	-	25.50	27.43	13.07	11.38	31.94	83.94	4.76	-	-	241.08
3	48.75	4.00	4.15	19.15	20.01	8.33	-	28.08	75.62	29.92	4.35	8.00	250.36
4	32.83	1.50	1.72	19.38	34.36	18.31	5.71	34.78	73.88	11.07	8.06	-	241.60
5	46.90	2.30	-	14.52	26.81	17.04	.39	27.53	75.21	12.46	3.26	-	226.42
6	31.32	3.92	.70	28.07	24.62	30.34	-	29.00	65.38	9.38	-	1.53	224.26
7	33.17	5.38	-	12.09	29.59	17.42	5.41	32.61	10.07	6.11	-	1.83	153.68
8	34.65	1.84	-	7.85	23.46	13.43	3.98	14.68	66.60	19.18	1.55	.39	187.61
9	31.50	1.70	-	8.15	17.33	10.85	2.68	20.93	67.25	2.55	-	-	162.94
10	28.48	2.58	-	18.95	19.69	20.77	4.02	36.27	107.43	4.03	-	-	242.22
11	25.95	-	2.00	32.45	21.60	11.83	2.72	38.58	77.37	11.86	19.90	.33	244.59
12	34.61	7.77	2.85	18.29	29.69	11.33	8.27	69.00	79.67	35.39	11.93	-	308.80
13	38.16	2.73	5.21	15.47	25.78	50.75	2.57	31.91	89.05	36.85	-	32.36	330.84
14	38.43	4.25	9.67	46.89	36.06	28.16	.74	30.00	67.55	3.70	-	4.83	270.28
15	33.43	1.94	1.49	12.64	20.50	15.29	3.06	39.39	61.09	12.69	10.05	-	211.57
16	51.00	2.62	-	16.70	19.66	8.21	5.92	18.38	50.10	.59	.81	-	173.99
17	32.33	4.87	-	21.64	53.20	31.15	2.48	39.31	57.79	37.85	23.79	-	304.41
18	37.60	5.20	-	36.04	54.70	19.25	3.55	39.51	95.28	12.28	-	-	303.41
19	18.15	2.49	.61	31.26	14.00	11.91	3.00	28.36	34.71	1.50	13.48	.61	160.08
20	73.64	6.16	2.05	37.62	37.70	51.89	5.13	49.02	86.90	14.81	-	-	364.92
Av.	35.03	3.09	2.10	22.61	27.10	18.77	3.84	30.66	64.76	13.27	6.12	2.23	229.58
Hi 10	34.62	2.92	.62	14.88	24.94	15.26	4.79	27.08	66.28	13.76	4.65	3.34	213.14
Lo 10	35.40	3.24	3.41	29.46	29.00	21.89	2.94	33.92	63.40	12.94	7.42	1.25	244.27

Table 4. Harvest and Overhead Costs per Acre

Serial No.	Harvesting Cost per Acre				Cash Overhead Cost per Acre					
	Picking	Hauling	Other Harvest	Total Harvest	General Expense	Taxes	Repairs	Insurance	Miscell.	Total Overhead
1	104.36	-	.20	104.56	15.94	9.66	6.35	7.85	33.32	73.12
2	81.04	14.33	1.54	96.91	16.57	9.25	-	6.98	-	32.80
3	93.00	16.82	-	109.82	17.50	13.05	12.20	12.40	10.45	65.60
4	79.39	33.69	.82	113.90	17.05	13.14	7.79	4.17	-	42.15
5	89.27	17.90	5.49	112.66	16.27	11.20	9.70	58.70	-	95.87
6	74.12	28.52	7.80	110.44	15.19	28.52	6.52	6.39	-	56.62
7	89.72	33.58	4.07	127.37	13.25	22.38	.38	5.63	-	41.64
8	65.11	24.70	.86	90.67	13.66	9.52	4.18	4.47	-	31.83
9	61.80	33.90	10.92	106.62	12.79	4.20	-	3.55	-	20.54
10	80.45	37.60	4.36	122.41	16.69	10.00	-	5.79	-	32.48
11	61.95	22.21	3.28	87.44	15.63	10.00	-	6.46	-	32.09
12	65.76	26.14	37.59	129.49	19.33	10.00	5.36	8.57	-	43.26
13	92.77	13.64	1.66	108.07	21.22	34.85	-	42.73	-	98.80
14	91.66	43.33	1.12	136.11	19.71	6.96	18.22	7.06	38.43	90.38
15	47.67	10.85	5.72	64.24	13.11	10.00	-	5.65	-	28.76
16	44.44	16.35	.94	61.73	11.40	14.48	-	4.79	33.04	63.71
17	80.47	13.74	5.71	99.92	17.48	10.15	1.93	5.86	-	35.42
18	65.29	11.36	1.95	78.60	18.62	8.72	-	2.91	-	30.25
19	48.01	30.29	1.83	80.13	11.68	10.00	-	4.43	-	26.11
20	51.21	7.28	4.38	62.87	20.15	10.00	-	7.69	-	37.84
Av	73.49	23.73	3.89	101.11	15.71	11.47	4.93	7.93	9.61	49.65
Hi 10	82.94	22.83	2.67	108.44	15.34	12.84	4.86	8.99	6.24	48.27
Lo 10	65.11	24.54	5.05	94.70	16.03	10.26	4.99	6.98	12.63	50.89

Table 5. Material and Harvesting Costs

Ser. No.	Material Cost per Acre							Picking and Hauling Costs per Ton			
	Irrig. Power	Cover Crop Seed	Fertil.	Spray	Wire and Rope	Re-plants	Other	Total Material	Picking	Hauling	Total
1	9.78	-	11.87	9.04	5.19	.30	-	36.18	6.98	-	6.98
2	10.00	-	22.87	17.66	-	-	-	50.53	5.55	1.00	6.55
3	12.45	-	-	-	3.60	-	-	16.05	6.41	1.16	7.57
4	7.95	1.06	17.80	23.63	-	-	-	50.44	6.08	2.58	8.66
5	9.42	-	-	-	-	-	-	9.42	6.50	1.31	7.81
6	5.76	-	26.09	13.10	-	-	-	44.95	5.96	2.30	8.26
7	7.55	-	11.59	14.31	1.26	.64	2.59	37.94	8.05	3.00	11.05
8	3.83	-	7.09	12.10	3.37	.39	.30	27.08	6.45	2.44	8.89
9	6.30	-	7.30	9.63	-	-	-	23.23	6.00	3.29	9.29
10	10.30	-	16.41	14.90	-	-	-	41.61	6.83	3.19	10.02
11	9.38	1.39	26.71	16.31	-	.33	-	54.12	5.83	2.09	7.92
12	29.16	2.85	16.39	11.45	5.18	-	5.72	70.75	5.47	2.18	7.65
13	9.54	5.21	14.54	22.54	2.73	-	-	54.56	6.80	1.00	7.80
14	8.46	5.11	44.46	24.83	-	.16	4.19	87.21	8.16	3.86	12.02
15	9.83	1.04	11.95	15.62	-	-	-	38.44	6.10	1.38	7.48
16	2.50	-	13.64	11.62	-	-	-	27.76	5.73	2.11	7.84
17	9.46	-	1.98	25.04	3.58	-	-	40.06	8.05	1.37	9.42
18	5.32	-	33.50	37.70	-	-	-	76.52	7.62	1.33	8.95
19	10.19	-	28.33	9.05	-	.04	-	47.61	9.35	5.90	15.25
20	10.19	2.05	19.67	21.16	-	-	-	53.07			
Av	8.51	1.12	19.25	15.91	→	2.15	←	46.94	6.93	2.51	9.44
Hi 10	7.93	.15	11.48	12.46	→	2.68	←	34.70	6.66	2.27	8.93
Lo 10	9.02	1.98	26.14	18.98	→	1.68	←	57.80	7.28	2.74	10.02

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IRRIGATION COSTS

Proper irrigation is so important that the cost may not be the deciding factor in how and when to irrigate.

Why should costs vary from \$15 to \$69 per acre though?

Study Your Irrigation and Answer These

Questions:

Do you have a large enough head of water and large enough checks to use irrigation labor and water efficiently?

Is your pumping plant the proper size for your needs? Is it functioning efficiently?

Do you have sufficient pipe lines and other irrigation structures, yet not burdening your orchard with excessive overhead costs?

Are your irrigations made when needed?

Is water being wasted by irrigating too deep?

Are you irrigating deep enough?

FERTILIZATION

Nitrogen applied at the rate of 80 - 100 pounds of the pure nitrogen per acre per year is all the fertilizer needed on most Sutter County soils.

This can be supplied by 250 to 300 pounds of Ammonium Nitrate or 400 to 500 pounds of Ammonium Sulphate per acre.

Why Pay 32 Cents Per Pound for This Nitrogen When Some Growers Apply It for 12 Cents?

Apply Fertilizer For Best Results Before Trees Start Growing in Spring.

Organic fertilizers are especially good for orchards if available. Do not sacrifice economy for manure or other organic fertilizer, however.

Table 6 Irrigation and Fertilization Costs

Serial No.	Irrigation Costs per Acre					Fertilization Cost per Acre			Lbs. Nitrogen per Acre	Cost per lb. Nitrogen
	Labor	Power	Deprec.	Interest	Total	Application	Material	Total		
1	11.21	9.78	.87	.32	22.18	.77	11.87	12.64	-	-
2	19.16	10.00	1.90	.88	31.94	2.63	22.87	25.50	201	12.7¢
3	10.20	12.45	3.85	1.58	28.08	-	-	19.15	-	-
4	19.83	7.95	4.60	2.40	34.78	1.58	17.80	19.38	154	12.6
5	14.02	9.42	2.78	1.31	27.53	-	-	14.52	-	-
6	10.73	5.76	9.85	2.66	29.00	1.98	26.09	28.07	218	12.9
7	20.72	7.55	2.69	1.66	32.61	.50	11.59	12.09	104	11.6
8	8.22	3.83	1.63	1.00	14.68	.76	7.09	7.85	66	11.9
9	12.24	6.30	1.57	.82	20.93	.85	7.30	8.15	67	12.1
10	14.10	10.30	8.13	3.74	36.27	2.54	16.41	18.95	113	16.8
11	14.08	9.38	9.82	5.30	38.58	5.74	26.71	32.45	104	31.2
12	29.89	29.16	7.10	2.85	69.00	1.90	16.39	18.29	150	12.2
13	22.15	9.54	.17	.05	31.91	.93	14.54	15.47	-	-
14	14.05	8.46	4.89	2.60	30.00	2.43	44.46	46.89	147	31.9
15	20.21	9.83	6.09	3.26	39.39	.69	11.95	12.64	103	12.3
16	13.41	2.50	1.75	.72	18.38	3.06	13.64	16.70	-	-
17	13.20	9.46	10.04	6.61	39.31	1.81	19.83	21.64	136	15.9
18	29.98	5.32	3.02	1.19	39.51	2.54	33.50	36.04	244	14.8
19	15.79	10.19	1.36	1.02	28.36	2.93	28.33	31.26	113	27.7
20	31.74	10.19	4.52	2.57	49.02	17.95	19.67	37.62	-	-
Av.	16.07	8.51	→	6.08	30.66	3.36	19.25	22.61	137	16.5
Hi 10	14.00	7.93	→	5.15	27.08	3.40	11.48	14.88	132	11.2
Lo 10	17.90	9.02	→	7.00	33.92	3.32	26.14	29.46	143	20.6