

MOUNTAIN APPLE PRODUCTION SAMPLE COST STUDY

CALAVERAS COUNTY

FOR PRESENTATION AT THE MOUNTAIN APPLE GROWERS MEETING
WEST POINT, CALIFORNIA

MARCH 9, 1976

BY:

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EQUIPMENT INVESTMENT FOR APPLE PRODUCTION

CALAVERAS COUNTY

DATE: 1976

ITEM	COST	OPERATION COST PER ACRE
Tractor, W.D. 40 hp. (used)	\$5,000	42.00
sprayer, PTO, 300 gal.	3,000	2.00
chopper	1,500	1.40
low bed trailer	2,000	.30
pick-up truck	4,500	7.10
ladders (10 - 10')	250	
picking bags (15)	150	
	<u>\$16,400</u> = \$820/acre	
<u>Irrigation system</u>		
booster and pipe	\$ 3,000	
supply line	3,000	
	<u>\$ 6,000</u> = \$300/acre	
deer fence: = 5,000 ft. @ \$2/ft. = \$10,000 = \$500/acre		
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Total Investment	<u>\$16,400</u>	
Per Acre on 20 acres	<u>\$ 820</u>	
Depreciation per acre	<u>\$ 54.67</u>	
Interest per acre	<u>\$ 32.80</u>	

THE UNIVERSITY OF CALIFORNIA'S AGRICULTURAL EXTENSION SERVICES ARE AVAILABLE TO ALL PERSONS REGARD TO RACE, COLOR, OR NATIONAL ORIGIN.

SAMPLE COSTS TO PRODUCE APPLES

CALAVERAS COUNTY

DATE: 1976

Yield: 15-18 Tons/acre on a 20 acre orchard-10'X16' plantings -
270 trees/acre.

Production Data: Labor @ \$2.50/hr. common; \$3.00/hr. skilled.

Operation	Hours Per Acre	Cash & labor cost per acre		Kind & Quantity	Materials Cost	TOTAL
		Labor	Fuel & Repairs			
Cultural costs						
Prune	40.0	120.00	12.50			132.50
Brush Disp.	3.0	7.50	5.43			12.93
Fertilize	.5	1.25		70#N @ 30¢	21.00	22.25
Spray, 6X	2.6	7.88	17.10	spray chemical	10.00	94.98
Sod culture 3x	1.0	2.50	1.40			3.90
Strip Weed control	.3	.75	.83	herbicide	4.00	5.58
Tree supporting tie	10.0	25.00	2.90			27.90
Thin by hand	50.0	125.00				125.00
Irrigate, 6X	3.6	9.00		water: 3ac. '10'X16'		
				per acre ft.	48.00	
			power: 3ac.ft. @ 5.36/a.f.		16.08	73.08
Misc., pest, etc.	4.0	12.00	4.00		10.00	26.00
TOTAL CULTURAL COSTS		310.88	44.16		169.08	524.12

Harvest Costs

Picking				contract \$14/ton	210.00	210.00
Move & load	9.0	22.50				22.50
Haul man - truck -trailer	3.0	9.00	22.20			31.20
Boxes				60¢/ton	9.00	9.00
TOTAL HARVEST COSTS		31.50	22.20		219.00	272.70

Cash overhead

Misc., office, etc.					47.53	
Taxes					75.00	
TOTAL CASH OVERHEAD						122.53

TOTAL CASH COST		342.38	66.36		510.61	919.35
Management 5% of 15 Tons @ \$133						99.75

INVESTMENT	PER ACRE	ANNUAL COST DEPRECIATION	8% INTEREST
Land	800		64.00
Trees	5018 - 25 yrs.	200.72	200.72
Irrigation system	300 - 15 yrs.	20.00	12.00
Buildings	50 - 25 yrs.	2.00	2.00
Equipment	820 - 15 yrs.	54.66	32.80
Deer fence	500 - 25 yrs.	20.00	20.00
TOTAL	7488	297.38	331.52
			\$628.90

TOTAL COST PER ACRE			\$1648.00
Cost per ton @ 15 Toy Yield			\$109.87

SAMPLE COSTS PER ACRE TO DEVELOP APPLE
ORCHARDS IN CALAVERAS COUNTY - 1976

Operation	YEAR						
	1	2	3	4	5	6	7
Yield					1	5	8
Income \$133/ton.					\$ 133	666	1064
<u>Planting Costs</u>							
Grade level, etc.	100						
Fumigate soil*							
Land preparation & layout	15						
Plant	10						
Trees 270 @ \$2.75	742.50						
TOTAL PLANTING COST	867.50						
<u>Cultural Costs</u>							
Prune & remove brush	20	35	45	55	65	80	90
Fertilize	8	10	10	10	12	17	20
Spray	20	20	20	35	45	50	70
Cultivate	75	75	75	75	80	90	115
Irrigate	36	36	36	36	60	65	70
Prop. & tie						10	15
Misc. Cultural	10	10	10	10	12	15	20
TOTAL CULT. COSTS	169	186	196	221	274	332	400
<u>Harvest costs</u>							
Picking \$14/ton					14	70	112
Move & load					10	14	17
Haul & boxes					15	23	34
TOTAL HARVEST COSTS					49	107	163
<u>Overhead Costs</u>							
Misc. overhead	62	11	12	13	19	26	34
Taxes	45	45	45	75	75	75	75
Management	30	30	30	30	30	33	53
Depreciation	96	96	96	96	96	96	96
Interest	130	242	290	344	407	472	510
TOTAL OVERHEAD COSTS	363	424	473	558	627	702	768
TOTAL COST/ACRE	1399.50	610	669	779	950	1141	1331
Net Cost/Acre	1399.50	610	669	779	817	476	267
Accum. Cost	1399.50	2009.50	2678.50	3457.50	4274.50	4750.50	5017.50
<u>Investment</u>							
Land	800	800	800	800	800	800	800
Trees		1399.50	2009.50	2678.50	3457.50	4274.50	4750.50
Irrigation System.	300	300	300	300	300	300	300
Bldg. & deer fence	550	550	550	550	550	550	550
Equipment	820	820	820	820	820	820	820
TOTAL INVESTMENT /ACRE	2470	3869.50	4479.50	5148.50	5927.50	6744.50	7220.50

* If necessary add \$500/acre to costs.