

1972

VINEYARD ESTABLISHMENT COSTS IN THE SAN JOAQUIN VALLEY

EMPEROR GRAPES

Cost Analysis Worksheet
Showing Sample Costs

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COST ANALYSIS WORKSHEET: Emperor Grapes – Cost of Establishing a Vineyard, 1972

YIELD (tons/acre)	COSTS PER ACRE		
	1st Year	2nd Year	3rd Year
	–	–	3
PRE-HARVEST CASH COSTS			
Pre-plant weed control materials and application	\$ 7.00	\$	\$
Land preparation – chisel, disc, float, etc.	30.00		
Rootings – 429 (+ 20, 2nd year) @ 18¢	77.22	3.60	
Trim and misc. planting labor	18.00		
Machine planting – @ 4½¢ (+ 1½ hours labor, 2nd year)	19.30	3.45	
Stakes (treated) – 429 7-foot @ 45¢		193.05	
End posts (treated) – 11 8-foot @ \$2.60		28.60	
Stake and set end posts – @ 8¢ and 65¢		41.47	
Wire – @ 14½¢ (100 pounds, 2nd year; 200 pounds, 3rd year)		14.50	29.00
String wire and staple – one, 2nd year; two, 3rd year		12.00	20.00
Attach crossarms and braces – 32 hours labor			73.60
Crossarms – 3 feet @ 9¢, braces @ 2¢ + staples, nails, tie wires			50.00
Train and sucker – 38 hours labor, 2nd year; 9 hours labor, 3rd year		87.40	20.70
Prune and tie – 5 hours labor, 2nd year; 12 hours labor, 3rd year		11.50	27.60
Rabbit control	9.00	3.00	
Irrigation labor – 8 hours each year @ \$2.65	21.20	21.20	21.20
Water – power and/or district tax	17.50	21.00	24.50
Irrigation preparation and weed control – 6 hours labor + 4 tractor-hours, 1st year; then 8 hours labor + 4 tractor-hours	20.40	25.00	25.00
Fertilizer – @ 14¢ applied (25 pounds N, 2nd year; 40 pounds N, 3rd year)		3.50	5.60
Mildew control – 2 hours labor + 2 tractor-hours + material @ \$4.00			11.90
Pest management and materials			20.00
Opening up vines – 10 hours labor			23.00
Misc. labor, materials, tractor	8.00	12.00	14.00
County taxes	28.00	29.00	30.00
Repairs, except tractor	8.00	9.00	9.00
Business and office costs, operating capital, insurance, etc.	15.82	30.33	26.83
Total Pre-Harvest Cash Costs	\$ 279.44	\$ 549.60	\$ 431.93
HARVESTING COST			
Price of fruit to grower is net value after harvest	\$	\$	\$
Total Harvest Costs	\$	\$	\$
Total Cash Costs	\$ 279.44	\$ 549.60	\$ 431.93
DEPRECIATION			
Irrigation system – \$280, 20 years	\$ 14.00	\$ 14.00	\$ 14.00
Buildings and equipment, except tractor – \$114, 12 years	9.50	9.50	9.50
Tractor – @ \$1.30/hour	10.40	7.80	10.40
Total Depreciation	\$ 33.90	\$ 31.30	\$ 33.90
INTEREST ON INVESTMENT @ 7%			
Irrigation system – ½ cost, \$140	\$ 9.80	\$ 9.80	\$ 9.80
Buildings and equipment, except tractor – ½ cost, \$57	3.99	3.99	3.99
Tractor – @ 75¢/hour	6.00	4.50	6.00
Land – @ \$900/acre	63.00	63.00	63.00
Interest on accumulated costs		27.73	76.02
Total Interest on Investment	\$ 82.79	\$ 109.02	\$ 158.81
TOTAL COST FOR THE YEAR	\$ 396.13	\$ 689.92	\$ 624.64
Credit for Fruit @ \$50/Ton	\$	\$	\$ 150.00
Net Cash for the Year	\$ 396.13	\$ 689.92	\$ 474.64
TOTAL ACCUMULATED COST	\$ 396.13	\$1,086.05	\$1,560.69

Based on an 80-acre unit. Labor @ \$2.30 and \$2.65 per hour total. Tractor per hour cash costs, \$1.30; depreciation, \$1.30; interest, \$.75.

9.00
10.00
10.00
14

ABOUT THIS SHEET

This sheet is one of a series on sample costs of establishing vineyards in the San Joaquin Valley. This series includes: Thompson Seedless for Raisins or Wine, Thompson Seedless for Table Use, Emperors, and Wine Varieties. These input and cost data are to be used only as guides in determining the costs of establishing a specific vineyard. They are not intended to represent industry averages.

LAND PREPARATION – The cost of leveling land for irrigation is included in the land value. Additional costs may include \$50 to \$75 per acre for deep ripping, and \$90 to \$175 for replant fumigation for nematode control.

ROOTINGS – Cost is based on planting rooted cuttings. When cuttings are planted directly in the vineyard, the overall cost of cuttings, planting, and replanting is sometimes less. If resistant rootstocks are used, the overall cost would probably be about \$200 more per acre.

IRRIGATION – Irrigation labor and water sample costs are based on a pumping system with pipeline. When all the water is from an irrigation district, the investment overhead costs of depreciation and interest on irrigation facilities are normally lower. Solid set sprinkler systems cost \$450 to \$550 per acre installed.

PEST AND DISEASE CONTROL – Dusting and spraying costs may vary considerably from year to year. Control measures required also vary between vineyards. The sample costs shown on this sheet are based on average conditions.

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George B. Alcorn, Director, California Agricultural Extension Service.

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