



*Sample Costs*  
*to Establish*  
*a Vineyard of*  
**EMPEROR**  
**GRAPES**

*in the San Joaquin Valley*  
**1976**

Division of Agricultural Sciences  
**UNIVERSITY OF CALIFORNIA**

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EMPEROR GRAPES - Cost of Establishing a Vineyard  
Cost Analysis Worksheet, 1976

Based on a 120-acre unit. Labor @ \$3.30 and \$4.00 per hour total. Tractor per hour cash costs \$2.60, depreciation \$1.65, and interest \$ .82.

YIELD : Tons/Acre	Costs Per Acre		
	1st year	2nd year	3rd year
	-	-	3
<b>Pre-Harvest Cash Costs:</b>			
Fumigate; materials and application	\$ 215.00		
Pre-plant weed control: materials and application	15.00		
Land preparation: chisel, disc, float, etc.	55.00		
Rootings: 429 (+20, 2nd yr.) @ 22¢	94.38	\$ 4.40	
Trim and misc. planting: labor 8 hrs.	26.40		
Planting @ 8¢ (+ 1 1/2 hrs. labor, 2nd yr.)	34.32	4.95	
Stakes (treated): 429 7-foot @ 65¢		278.85	
End posts (treated): 11 8-foot @ \$3.50		38.50	
Stake & set end posts: 10¢ stakes, \$1.00 end posts		53.90	
Wire: #13 high tensile, 2nd yr., 82 lbs.;			
3rd yr. 246 lbs. @ 27 1/2¢		22.55	\$ 67.65
String wire and staple: one, 2nd yr.;			
three, 3rd yr.		19.00	39.00
Attach crossarms and braces: 32 hrs. labor			105.60
Crossarms: 3 ft. @ 19¢, braces @ 4¢			
+ staples, nails, tie wires			120.00
Train & sucker: 40 hrs. labor, 2nd yr.;			
10 hrs. labor, 3rd yr.		132.00	33.00
Prune & tie: 5 hrs. labor, 2nd yr.;			
12 hrs., labor, 3rd yr.		16.50	39.60
Rabbit control	10.00	5.00	
Irrigation labor 5 hrs. each year @ \$4.00	20.00	20.00	20.00
Water-power and/or district tax	25.00	30.00	35.00
Irrigation preparation and weed control:			
6 hrs. labor + 4 tractor hrs., 1st year;			
then 8 hrs. labor + 4 tractor hrs.	33.00	39.60	39.60
Fertilizer: 30¢ applied (25 lbs. N, 2nd yr.;			
40 lbs. N, 3rd yr.)		7.50	12.00
Mildew control: 2 hrs. labor + 2 tractor hrs.			
+ material @ \$3.50			16.70
Pest management and materials			25.00
Opening up vines: 10 hrs. labor			33.00
Misc. labor, materials, tractor	20.00	17.00	20.00
County taxes	40.00	40.00	50.00
Repairs, except tractor	17.00	19.00	19.00
Business & office costs, operating capital,			
insurance, etc.	36.30	44.93	40.51
<b>TOTAL PRE-HARVEST CASH COSTS</b>	<b>\$ 641.40</b>	<b>\$ 793.68</b>	<b>\$ 715.66</b>
<b>Harvest Costs:</b>			
Price of fruit to grower is net value after harvest			
<b>TOTAL HARVEST COSTS</b>			
<b>TOTAL CASH COSTS</b>	<b>\$ 641.40</b>	<b>\$ 793.68</b>	<b>\$ 715.66</b>
<b>Depreciation:</b>			
Irrigation system: \$280, 20 yr. life	\$ 14.00	\$ 14.00	\$ 14.00
Buildings and equipment, except tractor:			
\$140, 12 yr. life	11.67	11.67	11.67
Tractor: \$1.65/hr.	6.60	6.60	9.90
<b>TOTAL DEPRECIATION</b>	<b>\$ 32.27</b>	<b>\$ 32.27</b>	<b>\$ 35.57</b>

	1st year	2nd year	3rd year
<b>Interest on Investment @ 8%:</b>			
Irrigation system: 1/2 cost, \$140	\$ 11.20	\$ 11.20	\$ 11.20
Buildings and equipment, except tractor: 1/2 cost, \$70	5.60	5.60	5.60
Tractor: \$ .82/hr.	3.28	3.28	4.92
Land: \$1500/acre	120.00	120.00	120.00
Interest on accumulated costs		65.10	147.59
<b>TOTAL INTEREST ON INVESTMENT</b>	<b>\$ 140.08</b>	<b>\$ 205.18</b>	<b>\$ 289.31</b>
<b>TOTAL COST FOR THE YEAR</b>	<b>\$ 813.75</b>	<b>\$1031.13</b>	<b>\$1040.54</b>
<b>CREDIT FOR FRUIT AT \$58.50 PER TON</b>			<b>\$ 175.50</b>
<b>NET COST FOR THE YEAR</b>	<b>\$ 813.75</b>	<b>\$1031.13</b>	<b>\$ 865.04</b>
<b>TOTAL ACCUMULATED COST</b>	<b>\$ 813.75</b>	<b>\$1844.88</b>	<b>\$2709.92</b>

#### 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 chiseling or deep ripping.

**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.

**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.

**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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