

**COOPERATIVE EXTENSION**

**CORDON TRAINED, SPUR-PRUNED TABLE GRAPES**  
 (Emperor, Flame Seedless, Ribier, etc.)  
 Cost of Establishing a Vineyard  
 Cost Analysis Worksheet - 1984

**UNIVERSITY OF CALIFORNIA**

used on a 120-acre unit, vines spaced at 8' x 12'. Labor at \$5.25 and \$6.25 per hour total. Tractor per hour cash costs \$8.90, depreciation \$2.86, and interest \$1.60. Yield of 300, 23-pound lugs (87/ton), 3.4 tons packed and 1.6 tons culls.

YIELD: tons/acre	Costs Per Acre		
	1st Year	2nd Year	3rd Year
	-	-	5
<b>Pre-Harvest Cash Costs:</b>			
Fumigate: materials + application	\$ 355.		
Land preparation: chisel, float, disc., etc.	135.		
Rootings: 454 (+ 20, 2nd yr.) at 32¢	145.	\$ 6.	
Trim and store at 8¢ per rooting	36.	2.	
Machine planting at 11¢ (1½ hrs. labor, 2nd yr.)	50.	8.	
Stakes (treated): 454 7-foot at \$1.00		454.	
End posts (treated): 11 8-foot at \$5.25		58.	
Stake & set end posts: 18¢ stakes + \$4.50 end posts		131.	
Wire: #13 high tensile, 2nd yr.; 82 lbs.; 3rd yr., 164 lbs. at 34¢/lb.		28.	\$ 57.
String wire and staple: one, 2nd yr., two, 3rd yr.		30.	47.
Attach crossarms and braces: 32 hrs. labor			168.
Crossarms: 3 ft. at 33¢, braces at 4¢ + staples, nails, tie wires at 4¢			186.
Train and sucker: 40 hrs. labor, 2nd yr.; 10 hrs. labor, 3rd yr.		210.	53.
Prune and tie: 5 hrs. labor, 2nd yr.; 12 hrs. labor, 3rd yr.		26.	63.
Rabbit control	15.	8.	
Irrigation labor: 5 hrs. each yr. at \$6.25	31.	31.	31.
Water-power and/or district tax: 1, 2, & 3½ ac. ft. at \$30	30.	60.	105.
Irrigation preparation and cultivation: 6 hrs. labor + 4 hrs. tractor, 1st yr.; then, 8 hrs. labor + 4 hrs. tractor	71.	82.	82.
Fertilizer: 30¢/lb. (25 lbs. N, 2nd yr.; 40 lbs. N, 3rd yr.) + \$5/acre application		13.	17.
Pest management and disease control, including mildew			108.
Herbicides: materials + application	35.	32.	32.
Vine hand work: 18 hrs.			95.
Misc. labor, materials, tractor	34.	29.	34.
County taxes	45.	45.	65.
Repairs, except tractor	32.	29.	32.
Interest on operating capital 12%	61.	77.	71.
Office and business costs	32.	41.	37.
<b>TOTAL PRE-HARVEST CASH COSTS</b>	<b>\$1107.</b>	<b>\$1400.</b>	<b>\$1283.</b>
<b>Harvest Costs:</b>			
<b>Price of fruit to grower is net value after harvest</b>			
<b>TOTAL CASH COSTS</b>	<b>\$1107.</b>	<b>\$1400.</b>	<b>\$1283.</b>

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<b>Depreciation:</b>			
Irrigation system: \$680, 20 yr. life	\$ 34.	\$ 34.	\$ 34.
Buildings and equipment, except tractor: \$580, 12 yr. life	48.	48.	48.
Tractor: \$2.86/hr.	14.	14.	20.
<b>TOTAL DEPRECIATION</b>	<b>\$ 96.</b>	<b>\$ 96.</b>	<b>\$ 102.</b>
<b>Interest on Investment at 11%:</b>			
Irrigation system: ½ cost \$340	\$ 37.	\$ 37.	\$ 37.
Buildings and equipment, except tractor: ½ cost \$290	32.	32.	32.
Tractor: \$1.60/hr.	8.	8.	11.
Land: \$5000/acre	550.	550.	550.
Interest on accumulated costs	-	200.	457.
<b>TOTAL INTEREST ON INVESTMENT</b>	<b>\$ 627.</b>	<b>\$ 827.</b>	<b>\$1087.</b>
<b>TOTAL COST FOR THE YEAR</b>	<b>\$1830.</b>	<b>\$2323.</b>	<b>\$2472.</b>
<b>CREDIT FOR FRUIT AT \$125 PER TON</b>	<b>-</b>	<b>-</b>	<b>\$ 625.</b>
<b>NET COST FOR THE YEAR</b>	<b>\$1830.</b>	<b>\$2323.</b>	<b>\$1847.</b>
<b>TOTAL ACCUMULATED COST</b>	<b>\$1830.</b>	<b>\$4153.</b>	<b>\$6000.</b>

### About This Sheet

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. This series includes: Thompson Seedless for Raisins and Wine, Thompson Seedless for Table Use, Wine Varieties, Emperor, and Ribier or Cardinal. The input and cost data are to be used only as guides in determining the production costs for a specific vineyard and to help growers analyze costs and practices that would increase production efficiency. The figures shown are based on what are considered good management practices in many vineyards. They do not represent industry averages.

**YIELD** - Yield is the most important factor affecting costs per ton and profit per acre. The yield per acre used in this sample is average over a period of years for a typical, well-managed vineyard. Although this figure is higher than the industry average, some vineyards do better.

**IRRIGATION** - Sample costs for irrigation labor and water costs are based on a pumping system with pipeline. Labor cost per acre is affected by the number of irrigations, quantity applied, and size of head. Large heads of water may lower the labor costs. 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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