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**1968**

**VINEYARD ESTABLISHMENT COSTS  
IN THE SAN JOAQUIN VALLEY**

**EMPEROR GRAPES**

Cost Analysis Worksheet  
Showing Sample Costs

University of California, Agricultural Extension Service /

AXT-58 Rev.

*cost of Production /*

UC Cooperative Extension

	COST PER ACRE			
	1st Year	2nd Year	3rd Year	4th Year
Yield — tons (fresh)			3.0	6.0
<b>PREHARVEST CASH AND LABOR COST</b>				
Land preparation — chisel, disc twice, float, etc.	\$ 20.00	\$	\$	\$
Survey and mark — 5 M-hr	8.50			
Planting including trimming @ 4¢	17.16	2.40		
Rootings — 429 (+ 20, 2nd year) @ 10½¢	45.05	2.10		
Distribute and set stakes and end posts — @ 5¢ and 27¢		24.42		
Stakes (treated) — 429, 7 ft @ 33½¢		143.72		
End posts (treated) — 11 @ \$1.50		16.50		
String 1 wire and staple — 2nd year, 1; 3rd year, 2 more		4.00	7.00	
Wire — (2nd year, 100 lb; 3rd year, 200 lb) @ 10¢		10.00	20.00	
Attaching crossarms and braces — 32 M-hr			54.40	
Crossarms — 3 ft @ 8¢; braces @ 2¢ + staples and wire			46.00	
Training and suckering — M-hr 2nd year, 34; 3rd year, 10; 4th year, 4		57.80	17.00	6.80
Prune and tie — M-hr 2nd year, 2.5; 3rd year, 7; 4th year, 14		4.25	11.90	23.80
Rabbit control	7.50	2.50		
Irrigation labor — 7 M-hr @ \$1.90	13.30	13.30	13.30	13.30
Water — 2½ to 4 ac-ft, power and/or irrigation district tax	17.60	19.25	20.90	22.50
Tillage, irrigation preparation, and hoe — 6 M-hr + 3 Tr-hr 1st year and then 4 M-hr and 3 Tr-hr	14.70	11.30	11.30	11.30
Fertilizer — (25 lb N, 2nd year; 40 lb N, 3rd and 4th years) @ 14¢ applied		3.50	5.60	5.60
Pest and disease control — 2½ M-hr + 2½ Tr-hr and contract spray \$5.00			13.00	13.00
Pest and disease control material			21.00	37.50
Opening up vines — 10 M-hr				17.00
Misc. labor and material, including twine and ½ Tr-hr	5.00	10.00	12.00	15.00
County taxes	18.00	19.00	21.00	27.00
Office, car, interest on operating capital, etc.	8.70	17.60	16.75	14.80

	COST PER ACRE			
	1st Year	2nd Year	3rd Year	4th Year
<b>PREHARVEST CASH AND LABOR COST — continued</b>				
Repairs, irrigation system and equipment, except tractor	\$ 6.50	\$ 6.50	\$ 6.50	\$ 6.50
<b>Total Preharvest Cash and Labor Cost</b>	<b>\$ 182.01</b>	<b>\$ 368.14</b>	<b>\$ 297.65</b>	<b>\$ 214.10</b>
<b>HARVESTING COST</b>				
Pick and haul to packinghouse — @ \$18/T 3rd year; \$16/T 4th year			\$ 54.00	\$ 96.00
<b>Total Cash and Labor Cost</b>	<b>\$ 182.01</b>	<b>\$ 368.14</b>	<b>\$ 351.65</b>	<b>\$ 310.10</b>
<b>DEPRECIATION COST</b>				
Irrigation facilities — \$250 cost	\$ 12.50	\$ 12.50	\$ 12.50	\$ 12.50
Buildings and equipment, except tractor — \$100 cost	7.50	7.50	7.50	7.50
Tractor — @ \$1.00/hr (1st and 2nd year 3.5; 3rd and 4th year, 6)	3.50	3.50	6.00	6.00
<b>Total Depreciation Cost</b>	<b>\$ 23.50</b>	<b>\$ 23.50</b>	<b>\$ 26.00</b>	<b>\$ 26.00</b>
<b>Total Cash and Depreciation Cost</b>	<b>\$ 205.51</b>	<b>\$ 391.64</b>	<b>\$ 377.65</b>	<b>\$ 336.10</b>
<b>INTEREST ON INVESTMENT @ 6%</b>				
Irrigation facilities — on ½ cost (\$125)	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50
Buildings and equipment, except tractor — on ½ cost (\$50)	3.00	3.00	3.00	3.00
Tractor — @ 36¢/hr (1st and 2nd year, 3.5; 3rd and 4th year, 6)	1.26	1.26	2.16	2.16
Land without improvements — @ \$900	54.00	54.00	54.00	54.00
Interest on accumulated cost		16.28	44.70	65.49
<b>Total Interest on Investment</b>	<b>\$ 65.76</b>	<b>\$ 82.04</b>	<b>\$ 111.36</b>	<b>\$ 132.15</b>
<b>TOTAL COST FOR YEAR</b>	<b>\$ 271.27</b>	<b>\$ 473.68</b>	<b>\$ 489.01</b>	<b>\$ 468.25</b>
<b>CREDIT FOR FRUIT — culls @ 22½¢ and shipping @ \$60/ton</b>			\$ 142.50	\$ 303.75
<b>NET COST FOR YEAR</b>	<b>\$ 271.27</b>	<b>\$ 473.68</b>	<b>\$ 346.51</b>	<b>\$ 164.50</b>
<b>TOTAL ACCUMULATED COST</b>	<b>\$ 271.27</b>	<b>\$ 744.95</b>	<b>\$1,091.46</b>	<b>\$1,255.96</b>
Based on 2 tons shipping fruit 3rd year and 4½ tons 4th year, and 1 ton culls 3rd year and 1½ tons 4th year to winery. Based on man labor @ \$1.70 and \$1.90 per hour (includes Workmen's Compensation, Social Security, and other benefits); medium-wheel tractor per hour cash cost, \$1.30; depreciation, \$1.00; interest, \$.36.				

## ABOUT THIS SHEET

This sheet is one of a series on sample costs of establishing vineyards in the San Joaquin Valley. They include: 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. Subsoiling, fumigation, or releveling costs would be additional.

**ROOTINGS** – Cost is based on planting rooted cuttings. When cuttings are planted directly in the vineyard, the overall cost of rootings, planting, and replanting is sometimes less. If resistant rootstocks are used, the overall cost probably would be \$150 to \$200 more per acre.

**IRRIGATION** – Irrigation labor and water sample 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.

*Prepared by Farm Advisors Fred Jensen, Tulare County; Curtis Lynn, Fresno County; Don Luvisi, Kern County; Paul Baranek, Madera County; Verner Carlson, Merced County; and Extension Specialists A. N. Kasimatis, Viticulturist, and Burt B. Burlingame, Economist.*

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

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