

GR-SJ-66-1

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

EMPEROR GRAPES

1966

Cost Analysis Worksheet
Showing Sample Costs

University of California

Agricultural Extension Service

UC Cooperative Extension AXT-58

Emperor Grapes – Costs of Establishing a Vineyard, 1966

COST ANALYSIS WORKSHEET

	COST PER ACRE			
	1st Year	2d Year	3d Year	4th Year
Yield – tons (fresh)			3.0	6.0
PREHARVEST CASH & LABOR COST				
Land prep.– chisel, disc twice, float, etc.	\$ 20.00	\$	\$	\$
Survey & mark – 5 M-hr	7.50			
Planting – @ 3.5¢, including trimming	14.46	1.20		
Rootings – 413 (+ 10, 2d yr) @ 7.5¢	30.98	.75		
Distribute & set stakes & end posts – @ 5¢ & 27¢		23.62		
Stakes (treated) – 413, 7 ft @ 33¢		136.29		
End posts (treated) – 11 @ \$1.25		13.75		
String 1 wire & staple – 2d yr, 1; 3d yr, 2 more		4.00	7.00	
Wire – (2d yr, 100 lb; 3d yr, 200 lb) @ \$8.85		8.85	17.70	
Attaching crossarms & braces – 32 M-hr			48.00	
Crossarms – 3 ft @ 6¢, braces @ 1.8¢ + staples & wire			35.00	
Training & suckering – M-hr 2d yr, 34; 3d, 10; 4th, 4		51.00	15.00	6.00
Prune & tie – M-hr 2d yr, 2.5; 3d, 7; 4th, 14		3.75	10.50	21.00
Rabbit control	7.50	2.50		
Irrigation labor – 9 M-hr	13.50	13.50	13.50	13.50
Water – 2½ to 4 ac-ft, power &/or irrig. dist. tax	17.60	19.25	20.90	22.50
Tillage, irrig. prep. & hoe – 6 M-hr + 3 TR-hr 1st yr & then 4 M-hr & 3 TR-hr	13.35	10.35	10.35	10.35
Fertilizer application (contract)		1.00	1.00	1.00
Fertilizer – (25 lb N, 3d yr; 40 lb N, 4th yr) @ 11¢		2.75	4.40	4.40
Pest & disease control – 2½ M-hr + 2½ TR-hr & contract spray \$4			11.38	11.38
Pest & disease control material			30.00	30.00
Opening up vines – 10 M-hr				15.00
Misc. labor & material, incl. twine & ½ TR-hr	5.00	10.00	12.00	15.00
County taxes	14.40	14.40	16.60	19.10
Office, car, interest on operating capital, etc. (5% cash & labor cost)	7.54	16.17	15.39	12.99
Repairs, irrig. system & equipment, except tractor	6.50	6.50	6.50	6.50
Total Preharvest Cash & Labor Cost	\$158.33	\$339.63	\$275.22	\$188.72
HARVESTING COST				
Pick & haul to packinghouse – @ \$16 & \$14/ton			\$ 48.00	\$ 84.00
Total Cash & Labor Cost	\$158.33	\$339.63	\$323.22	\$272.72
DEPRECIATION COST				
Irrigation facilities – \$250 cost	\$ 12.50	\$ 12.50	\$ 12.50	\$ 12.50
Buildings & equipment, except tractor – \$100 cost	7.50	7.50	7.50	7.50
Tractor – @ 70¢/hr (1st & 2d yr, 3.5; 3d & 4th, 6)	2.45	2.45	4.20	4.20
Total Depreciation Cost	\$ 22.45	\$ 22.45	\$ 24.20	\$ 24.20
Total Cash & Depreciation Cost	\$180.78	\$362.08	\$347.42	\$296.92
INTEREST ON INVESTMENT @ 6%				
Irrigation facilities – on ½ cost (\$125)	\$ 7.50	\$ 7.50	\$ 7.50	\$ 7.50
Buildings & equipment, except tractor – on ½ cost (\$50)	3.00	3.00	3.00	3.00
Tractor – @ 27¢/hr (1st & 2d yr, 3.5; 3d & 4th, 6)	.95	.95	1.62	1.62
Land without improvements – @ \$900	54.00	54.00	54.00	54.00
Interest on accumulated cost		14.77	41.31	60.32
Total Interest on Investment	\$ 65.45	\$ 80.22	\$107.43	\$126.44
TOTAL COST FOR YEAR	\$246.23	\$442.30	\$454.85	\$423.36
CREDIT FOR FRUIT – @ \$18 & \$60/ton			\$138.00	\$297.00
NET COST FOR YEAR	\$246.23	\$442.30	\$316.85	\$126.36
TOTAL ACCUMULATED COST	\$246.23	\$688.53	\$1005.38	\$1131.74

Based on 2 tons shipping fruit 3d year and 4½ tons 4th year, and 1 ton culls 3d year and 1½ tons 4th year to winery.
 Based on man labor @ \$1.50 and \$1.70 per hour (includes Workmen's Compensation, Social Security, and other benefits);
 medium wheel tractor per hour cash cost, \$1.25; depreciation, 70¢; interest, 27¢.

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 Standard 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 \$100 to \$150 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.

Co-operative Extension work in Agriculture and Home Economics, College of Agriculture,
University of California, and United States Department of Agriculture co-operating.
Distributed in furtherance of the Acts of Congress of May 8, and June 30, 1914.
George B. Alcorn, Director, California Agricultural Extension Service.

UC Cooperative Extension
MARCH 1966--3M Rev.