

Interest on Investment at 11%:			
Irrigation system: 1/2 cost \$283	\$ 31.	\$ 31.	\$ 31.
Buildings and equipment, except tractor: 1/2 cost \$216	24.	24.	24.
Tractor: \$1.20/hr.	5.	5.	7.
Land: \$3500/acre	385.	385.	385.
Interest on accumulated costs		170.	381.
TOTAL INTEREST ON INVESTMENT	\$ 455.	\$ 615.	\$ 828.
TOTAL COST FOR THE YEAR	\$1548.	\$1916.	\$2016.
CREDIT FOR FRUIT AT \$150. PER TON			\$ 450.
NET COST FOR THE YEAR	\$1548.	\$1916.	\$1566.
TOTAL ACCUMULATED COST	\$1548.	\$3464.	\$5030.

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, Wine Varieties, Cordon Trained Spur-Pruned Table grapes, Emperor, Ribier or Cardinal. 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 cutting, 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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AGRICULTURAL BUILDING, COUNTY CIVIC CENTER, WOODLAND AND WEST MAIN STREETS, VISALIA, CALIFORNIA 93277 - TELEPHONE (209) 733-6363

Cooperative Extension Work in Agriculture and Home Economics, U. S. Department of Agriculture, University of California, Tulare County Cooperating

UC Cooperative Extension

CORDON TRAINED, SPUR-PRUNED TABLE GRAPES (Emperor, Cardinal, Ribier, etc.)

Cost of Establishing a Vineyard

Cost Analysis Worksheet, 1980

Based on a 120-acre unit, vines spaced at 8' x 12'. Labor @ \$4.50 and \$5.50 per hour total. Tractor per hour cash costs \$3.90, depreciation \$2.10, and interest \$1.20.

YIELD: Tons/Acre	Costs Per Acre		
	1st Year	2nd Year	3rd Year
Pre-Harvest Cash Costs:			3
Fumigate: materials and application	\$ 350.		
Pre-plant weed control: materials & application	19.		
Land preparation: chisel, disc, float, etc.	125.		
Rootings: 450 (+20, 2nd yr.) @ 32¢	144.	\$ 7.	
Trim and misc. planting: labor 8 hrs.	36.		
Planting @ 11¢ (+1½ hrs. labor, 2nd yr.)	50.	7.	
Stakes (treated): 450 7-foot @ 95¢		428.	
End posts (treated): 11 8-foot @ \$5.		55.	
Stake & set end posts: 17¢ stakes, \$4. end posts		121.	
Wire: #13 high tensile, 2nd yr., 82 lbs.;			
3rd yr. 246 lbs. @ 40¢		33.	\$ 98.
String wire and staple: one, 2nd yr.,			
three, 3rd yr.		30.	60.
Attach crossarms and braces: 32 hrs. labor			144.
Crossarms: 3 ft. @ 30¢, braces @ 4¢			
+ staples, nails, tie wires @ 4¢			171.
Train and sucker: 40 hrs. labor, 2nd yr.,			
10 hrs. labor, 3rd yr.		180.	45.
Prune and tie: 5 hrs. labor, 2nd yr.,			
12 hrs. labor, 3rd yr.		23.	54.
Rabbit control	13.	7.	
Irrigation labor 5 hrs. each year @ \$5.50	28.	28.	28.
Water-power and/or district tax	40.	50.	80.
Irrigation preparation and cultivation:			
6 hrs. labor + 4 hrs. tractor, 1st yr.,			
then 8 hrs. labor + 4 tractor hrs.	47.	56.	56.
Fertilizer: 35¢ applied (25 lbs. N, 2nd yr.,			
40 lbs. N, 3rd yr.)		9.	14.
Mildew control: 2 hrs. labor + 2 tractor hrs.			
+ material @ \$7.			26.
Pest management and materials			40.
Herbicide		18.	20.
Vine handwork			80.
Misc. labor, materials, tractor	24.	20.	24.
County taxes	45.	45.	65.
Repairs, except tractor	24.	21.	24.
Business & office costs, operating capital,			
insurance, etc.	76.	91.	82.
TOTAL PRE-HARVEST CASH COSTS	\$1021.	\$1229.	\$1111.
Harvest Costs:			
Price of fruit to grower is net value after harvest			
TOTAL HARVEST COSTS			
TOTAL CASH COSTS	\$1021.	\$1229.	\$1111.
Depreciation:			
Irrigation system: \$565, 20 yr. life	\$ 28.	\$ 28.	\$ 28.
Buildings and equipment, except tractor			
\$433, 12 yr. life	36.	36.	36.
Tractor: \$2.10/hr.	8.	8.	13.
TOTAL DEPRECIATION	\$ 72.	\$ 72.	\$ 77.

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RIBIER OR CARDINAL GRAPES - Sample Costs for a Mature Vineyard
Cost Analysis Worksheet, 1980

Based on a 120-acre unit, vines spaced at 8' x 12'. Labor @ \$4.50 and \$5.50 per hour total. Tractor per hour cash costs \$3.90, depreciation \$2.10, interest \$1.20. Yield of 450-pound lugs (69/ton), 5.20 tons shipped, 1.30 tons culls. Wages include Social Security, Workmen's Compensation, insurance, and all other fringe benefits.

	Sample Costs		My Costs	
	Per Acre	Per Lug	Per Acre	Per Lug
Pre-Harvest Cash Costs:				
Pruning: 20¢/vine, 450/acre	\$ 90.			
Brush disposal: all middles, contract	9.			
Fertilizer: 50 lbs. N @ 35¢ applied	18.			
Mildew control: 3 hrs. labor + 2½ hrs. tractor + materials @ \$8.00	34.			
Pest management, disease control & materials	98.			
Herbicide	30.			
Irrigation preparation and weed control: 4 hrs. labor + 4 hrs. tractor	38.			
Irrigate: 5 hrs. labor @ \$5.50	28.			
Water-power and/or district tax: 4 ac. ft. @ \$20.00	80.			
Shoot fruit and leaf manipulation: 80 hrs. labor	360.			
Pruning: 14 hrs. labor	63.			
Insect spray: materials & application \$10/acre	10.			
Insect labor: 8 hrs. labor + 2 hrs. tractor	46.			
Insect materials, stakes, etc.	50.			
County taxes	65.			
Repairs, except tractor	24.			
Business & office costs, operating capital, insurance, etc.	83.			
TOTAL PRE-HARVEST CASH COSTS	\$1126.	\$2.50		
Depreciation:				
Vines, stakes, trellis: cost \$5030, 25 yr. life	\$ 201.			
Irrigation system: \$565, 20 yr. life	28.			
Buildings and equipment, except tractor: \$433, 12 yr. life	36.			
Tractor: 8½ hrs. @ \$2.10	18.			
TOTAL DEPRECIATION	\$ 283.	\$.63		
Interest on Investment at 11%:				
Vines, stakes, trellis: 1/2 cost \$2515	\$ 277.			
Irrigation system: 1/2 cost \$283	31.			
Buildings and equipment, except tractor: 1/2 cost \$216	24.			
Tractor: 8½ hrs. @ \$1.20	10.			
Land: \$3500/acre	385.			
TOTAL INTEREST ON INVESTMENT	\$ 727.	\$1.62		
TOTAL PRE-HARVEST COST	\$2136.	\$4.75		

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Cost Per Lug of Packed Fruit

	HOUSE PACKED		FIELD PACKED
Pre-harvest cost	\$4.75	Pre-harvest cost	\$4.75
Pick and haul	1.00	Pick, pack, supervision	1.50
Packinghouse cost	2.20	Boxes, etc.	1.25
		Spread boxes, swamp, haul	.20
TOTAL	\$7.95	TOTAL	\$7.70
NET CREDIT - CULLS @ \$75/TON	.29	NET CREDIT - STRIPPINGS	--
NET F.O.B. COSTS*	7.66	NET F.O.B. COSTS*	7.70

*Selling commission, Table Grapes Commission assessment, inspection and wrapping are not included.

Total F.O.B. Cost Per Lug at Varying Yields

YIELD:				
Packed lugs	300	400	500	600
House packed	\$10.03	\$8.25	\$7.18	\$6.47
Field packed	\$10.07	\$8.29	\$7.22	\$6.51

ABOUT THIS SHEET

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. The series includes: Thompson Seedless for Raisins or Wine, Thompson Seedless for Table Use, Wine Varieties, Cordon Trained Spur-Pruned Table grapes, Emperor, 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 costs 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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