

Sample Costs for Establishing and Producing Thompson Seedless Grapes for Raisins or Wine - 1988



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Introduction

This publication is one of a series on sample costs of producing grapes in the San Joaquin Valley. The data is to be used only as a guide to help analyze costs and practices that might increase production efficiency. The data is based on what are considered good management practices and 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 industry average, some vineyards do better.

Irrigation

Sample costs for irrigation, labor and water costs are based on a pumping system with pipeline, and access to water from an irrigation district. These costs vary widely depending on pumping depth, efficiency, and irrigation district taxes. Labor cost per acre is affected by the number of irrigations, quantity applied, and size of head.

Pest Management and Growth Regulators

Pest management costs include materials and application for control of insect, mite, and disease pest problems, including powdery mildew. Pest management programs and costs vary widely depending on pest pressure, vineyard location, pesticides selected, and many other factors. Sample costs shown on this sheet are based on average conditions and a well-managed integrated pest management program. Some growth regulators are combined with pesticide applications.

THOMPSON SEEDLESS GRAPES FOR RAISINS OR WINE Sample Costs to Establish a Vineyard - 1988

Costs are based on a 120 acre unit, vines spaced at $7' \times 12'$. Wages and piecework include social security, worker's compensation and insurance. Yield of 4.5 tons for winery or 1.5 ton for raisins. Tractor and supervisory labor \$6.80 per hour, field labor \$5.50 per hour. Tractor costs \$6.60 per hour. Sales tax is included in per item cost.

Cost / Acre
2nd Year

	200 2002		Old I cul				
YIELD: Tons Fruit/Acre			1.5				
Preharvest Cash Costs							
Fumigate	\$465						
Land preparation: contract							
4 hrs chisel and labor							
4 hrs disc, float, and labor	\$150						
Rootings: 519 @ \$0.37 (+25, 2nd year)	\$192	\$9					
Trim and store @ \$0.08 per rooting	\$42	\$2					
Machine planting: \$0.11/vine (+2 hrs labor 2nd year)	\$57	\$11					
Stakes (treated): 519 6-ft @ \$1.00 ea		\$519					
End posts (treated): 11 8-ft @ \$6.50		\$72					
Wire: #13 high tensile @ \$0.36 per lb, 180 lbs		\$65					
Crossarms:2 ft wood 519 @ \$.25, braces, staples,		\$171					
nails @ \$.08							
Stake and set end posts: \$0.18 stakes + \$4.50 end posts		\$143					
Install crossarms: \$.28 per stake		\$145					
String two wires and staple		\$50					
Training and suckering: 22 hrs labor 2nd year		\$121					
6 hrs labor 3rd year			\$33				
Prune and tie: 5 hrs labor 2nd yr + \$6.00 materials		\$34	• '				
18 hrs 3rd yr + \$4.00 materials			\$103				
Rabbit Control	\$15	\$8					
Irrigation: 5 hrs labor @ \$6.80 per hr	\$34	\$34	\$34				
Water power: 55 ft pumping and/or district tax: \$15.00							
1, 2, 3.5 ac. ft. (.5, 1, 1.75 ac ft pumped)	\$19	\$22	\$26				
Cultivation and irrigation preparation							
6 hrs labor + 4 hrs tractor 1st yr.	\$67						
8 hrs labor + 4 hrs tractor 2nd yr and after		\$81	\$81				
Fertilizer: \$0.30/lb (20 lbs N 2nd yr		\$11					
40 lbs 3rd yr + \$5/ac for application)			\$17				
Pest management and disease control	\$18	\$30	\$109				
Herbicides: materials and application	\$30	\$30	\$37				
Misc. Repairs and Fuel other than tractor	\$20	\$20	\$20				
Misc (trellis repair, etc.) labor, materials, 1hr tractor	\$35	\$35	\$35				
Total Preharvest Cash Costs	\$1,143	\$1,613	\$495				
Total Harvest Costs - Refer to Raisin production costs			\$241				

THOMPSON SEEDLESS GRAPES FOR RAISINS OR WINE Sample Costs for a Mature Vineyard - 1988

Based on 120-acre unit, vines spaced at 7' \times 12'. Wages and piecework rates include social security, worker's compensation and insurance. Yield of 2 tons raisins or 9 tons for winery. Tractor and supervisory labor \$6.80/hour, field labor \$5.50/hour. Tractor costs \$6.60/hour. Sales tax is included in per item cost.

OPERATION	Labor Hrs/A	Labor Rate	Labor Cost	Fuel and Repairs	Material and Quantity Per Acre	COST	TOTAL
Preharvest Cash Costs Pruning Contract Brush Disposal Contract					\$0.22/vine, 519 vine/acre Alternate middles	\$114 \$6	\$114 \$6
Tying Vines Contract	1				\$0.05/vine	\$26	\$26
Fertilizer	l 1	***	* '		50 lbs N @ \$0.30/lb	\$15	\$15
Growth Regulator, Pest and Disease Control					+ \$5.00/Ac application Gibberellin and all	\$5	\$5
(including powdery mildew) Application Costs for Growth Regulator & Pest Control				·	other materials	\$71	\$71
Herbicides	ł I				Materials & application	\$38 \$37	\$38 \$37
Cultivation & Irrigation Preparation	4	\$6.80	\$27	\$26	materials & application	Ψ	\$54
Irrigation Water Power and/or District tax @ \$15.00	5	\$5.50	\$28				\$28
3.5 ac ft (1.75 acre ft pumped)		· .			i		\$26
Misc. (Trellis, pipeline repair, and suckering) 1 hr tractor	4	\$5.50	\$22	\$7	Materials (trellis)	\$30 \$20	\$59 \$20
Misc. repairs & fuel other than tractor					·	٠. ا	
Interest on Operating Capital @11.5%							\$36
Total Preharvest Costs							\$533

\$30
\$39
\$69
\$602
\$301
\$67

Investment	Per Acre	Depreciation	Interest @12.5%	TOTAL	
	4000			4101	
Equipment, buildings, irrigation	\$930	\$73	58	\$131	
Vines, stakes and trellis	\$5,100	\$253	319	\$572	
Land	\$3,000		375	\$375	
Total Investment Costs	\$9,030	\$326		\$1,078 \$1,680	
Total Costs Per Acre					
Total Cash Costs/Ton @ 2 Tons Raisins					
Total Cash Costs/Ton @ 9 Tons Winery					

Overhead Costs \$39 County taxes \$39 Office and business costs \$30 \$30 **Total Overhead Costs** \$69 \$69 **Total Cash Costs** \$1,212 \$1,682 Accumulated Cash Costs \$1,212 \$2,894 DEPRECIATION \$73 \$73 Building, equipment and irrigation INTEREST ON INVESTMENT @ 12.5% Building, equipment, and irrigation \$58 \$58 Land \$3,000 \$375 \$375 Interest on accumulated cash cost \$152 \$362 **Total Interest On Investment** \$585 \$795 TOTAL COST FOR THE YEAR \$1.870 \$2.549 CREDIT FOR PRODUCTION @ \$800/ton for RAISINS NET COST FOR THE YEAR

ACCUMULATED NET COST

Costs/Acre

2nd Year

\$2,549

\$4,419

3rd Year

\$39

\$30

\$69

\$805

\$73

\$58

\$375

\$462

\$895

\$1,773

(\$1.200)

\$4,992

\$573

\$3,698

1st Year

\$1,870

\$1,870

	COOMS / MON				
	COSTS / TON				
	RAISINS	WINERY			
HARVESTING COSTS	SAMPLE COSTS	SAMPLE COSTS			
Pick and haul for winery - contract		\$40.00			
Terracing & pulling back .75 hr labor .75 hr tractor	\$10	,			
Pick for raisins - 450 trays/ton @ \$0.20/tray	\$90				
Turn and roll - contract \$60/1,000 trays	\$27				
Box and shake - 4.75 hrs labor + .5 hrs tractor	\$29				
Haul to processor (includes picking up bins)	\$12				
Paper trays - 460 trays @ \$40/1,000	\$18				
Forklift cost (rent)	\$10				
Raisin rain insurance \$455/ton coverage	\$27				
Bin rental (2 bins per ton)	\$15				
Misc- Toilets, water	\$2				
Total Harvest Cost/Ton	\$241	\$40			
Total Harvest Cost/Acre (2 tons raisins or 9 tons wine)	\$482	\$360			
Poted Cont / Dec & O Many Poted on a William	T 61 001	6007			
Total Cost/Ton @ 2 Tons Raisins or 9 Tons Winery	\$1,081	\$227			
Total Cost/Acre @ 2 Tons Raisins or 9 Tons Winery	\$2,162	\$2,040			

EQUIPMENT AND BUILDING LIST

	ORIGINAL	ANNUAL USE		LIFE		INTEREST	REPAIR	FUEL
ITEM	COST	(ACRES)	COST/ACRE	(YEARS)	DEPRECIATION	@ 12.5%	COSTS/HR	COSTS/HR
TRACTORS								
30 hp Wheel Diesel	\$13,000	120	\$108	10	\$11	\$6.77	\$1.30	\$1.95
60 HP Wheel Diesel	\$31,000	120	\$258	10	\$26	\$16.15	\$2.70	\$3.90
Disk, tandem 8'	\$7,500	120	\$63	15	\$4	\$3.91	\$3.60	
Border disc	\$2,000	120	\$17	15	\$1	\$1.04	\$0.96	
Springtooth 8'	\$1,500	120	\$13	20	- \$1	\$0.78	\$0.90	
Flat furrower	\$2,800	120	\$23	20	\$1	\$1.46		
Three-point hitch	\$1,100	120	\$9	10	\$1	\$0.57	\$0.92	
Power Sprayer								
(100 gals)				4- 1	•			
ATV	\$2,200	120	\$18	5	\$4	\$1.15	· ·	
Pickup ·	\$12,000	120	\$100	5	\$20	\$ 6.25		
Sulfur Duster	\$2,650	120	\$22	10	\$2			
Misc tools	\$5,000	120	\$42	10	\$4	\$2.60		
Raisin dumper & shaker	\$7,600	120	\$63	10	\$6	\$3.96		
2 bin trailers (4 bins ea)	\$1,640	120	\$14	10	\$1	\$0.85		
Теггасег	\$953	120	\$8	10	\$1	\$0.50		
Cane cutters	\$2,679	120	\$22	10	\$2	\$1.40		
2 Tool bars	\$800	120	\$7	10	\$1	\$0.42		
Air Compressor	\$600	120	\$5	20	\$0	\$0.31		
Irrigation System	\$81,600	120	\$680	20	\$34	\$42.50		
Buildings	\$12,000	120	\$100	· 30	\$3	\$6.25		
Total Cost	\$185,972		\$1,550		\$121	\$96.86	\$10.38	\$5.85
60% Of New Costs	\$111,583		\$930		\$73	\$58.12	\$6.23	\$3.51