

THOMPSON SEEDLESS GRAPES FOR RAISIN OR WINE
Sample Costs for a Mature Vineyard - 1986

Based on 120-acre unit, vines spaced at 7' x 12'. Wages include social security, workman's compensation and insurance. Yield of 2 tons raisins or 9 tons for winery. Tractor and supervisory labor \$5.70/hour, field labor \$4.85/hour and tractor \$6.48/hour.

OPERATION	LABOR HRS/AC	LABOR RATE	LABOR COST	FUEL & REPAIRS	MATERIALS TYPE AND QUANTITY PER ACRE	COST	TOTAL COST	YOUR COST
Preharvest Cash Costs								
Pruning -- Contract					\$0.19/vine, 519 vine/acre	\$99	\$99	
Brush Disposal -- Contract					Alternate middles	\$7	\$7	
Tying Vines -- Contract					\$0.03/vine	\$16	\$16	
Fertilizer					50 lbs N @ \$0.30/lb	\$15	\$15	
					+ \$5.00/Ac application	\$5	\$5	
Growth Regulator					Gibberellin	\$5	\$5	
Disease & Pest Control (including mildew)					Bayleton, Kryocide Thiodan and Omite	\$79	\$79	
Application costs for Growth Regulator and Disease and Pest Control							\$32	
Herbicides					Materials and Application Costs	\$39	\$39	
Cultivation & Irrigation Preparation	4	\$5.70	\$23	\$26			\$49	
Irrigation	5	\$4.85	\$24				\$24	
Water Power and / or District tax						\$46	\$46	
3.5 ac ft @ \$13.00								
Miscellaneous	3	\$4.85	\$15	\$6	Materials	\$28	\$49	
Interest on Operating Capital @12.5%							\$58	
Total Preharvest Costs	12		\$62	\$32		\$337	\$521	
Cash Overhead								
Office & Business Costs							\$30	
County Taxes							\$39	
TOTAL CASH OVERHEAD COSTS							\$69	
TOTAL CASH COSTS							\$590	
TOTAL CASH COSTS/TON @ 2 TONS RAISINS							\$295	
TOTAL CASH COSTS/TON @ 9 TONS WINERY							\$66	
ANNUAL COSTS								
INVESTMENT	Per Acre			DEPRECIATION	INTEREST @12.5%		TOTAL	
Equipment, buildings, irrigation	\$906			\$68	\$57		\$125	
Vines, stakes and trellis	\$5,065			\$253	\$317		\$570	
Land	\$3,000				\$375		\$375	
TOTAL INVESTMENT COSTS	\$8,971			\$321	\$749		\$1,070	
TOTAL COSTS PER ACRE							\$1,660	
TOTAL CASH COSTS/TON @ 2 TONS RAISINS							\$830	
TOTAL CASH COSTS/TON @ 9 TONS WINERY							\$184	

COST ANALYSIS WORK SHEET

COSTS / TON				
HARVESTING AND TOTAL COSTS	RAISINS		WINERY FRUIT	
	SAMPLE COSTS	MY COSTS	SAMPLE COSTS	MY COSTS
Total cost except harvesting	\$830.75		\$184.61	
Pick and haul for winery - contract			\$40.00	
Terracing & pulling back .75 hr labor .75 hr tractor	\$9.14			
Pick for rasins - 450 trays/ton @ \$0.17	\$76.50			
Turn and roll - contract \$28/1000 trays	\$32.00			
Box and shake - 4.75 hrs labor + .5 hrs tractor	\$30.32			
Haul to processor (includes picking up bins)	\$12.00			
Paper trays - 460 trays @ \$38/1000	\$17.48			
Forklift cost (rent)	\$9.00			
Raisin rain insurance \$435/ton coverage	\$30.00			
Bin rental (2 bins per ton)	\$15.00			
TOTAL HARAVEST COST	\$231.44		\$40.00	
Total Cost of Production Per ton*	\$1,062.19		\$224.61	
*Inspection and Raisin Advisory Board are not included				

TOTAL COST OF PRODUCTION PER TON AT VARING YIELDS			
RAISIN		WINE	
1.5 Tons	\$1,333.10	6.7 TONS	\$287.76
1.8 Tons	\$1,153.66	8.0 TONS	\$247.50
2.3 Tons	\$953.17	10.4 TONS	\$199.61
2.5 Tons	\$895.44	11.1 TONS	\$189.55
3.0 Tons	\$784.77	13.3 TONS	\$164.81

HERBICIDE COSTS FOR GRAPES
Mature Vineyard all Varieties - 1986

(DATE)	PROBLEM	MATERIAL	AMOUNT PER VINEYARD ACRE	COST/ACRE	APPLICATION COST
Jan - Mar	Weeds, preemergence and cleanup	Karmex	0.5 lb	\$1.65	\$8.00
		Simazine	0.5 lb	\$1.65	
		Paraquat	1.0 pt	\$6.00	
		Surfactant	0.2 gal	\$2.81	
May - June	Maintenace	Roundup	1.0 pt	\$10.00	\$6.00
		Surfactant	0.2 gal	\$2.81	
				\$25	\$14

PESTICIDE COST FOR THOMPSON SEEDLESS -- RAISINS & WINE
Mature Vineyard - 1986

(DATE)	PURPOSE	MATERIAL	AMOUNT VINEYARD ACRE	COST/ACRE	APPLICATION COST
Mid April	Powdery Mildew	Bayleton	4.0 oz	\$11.75	\$8.00
Bloom	Powdery Mildew OLR, & GLS Growth Regulator	Bayleton	4.0 oz	\$11.75	\$8.00
		Kryocide	8.0 lbs	\$8.80	
		Gibberellin	4 gm	\$4.50	
Bloom + 2-3 Weeks	Powdery Mildew Spide Mites*	Bayleton	4.0 oz	\$11.75	
		Omite	5.0 lbs	\$11.75	
July 15 - Aug 1	Leafhopper ** OLR, & GLS	Thiodan	2.5 lbs	\$10.00	\$8.00
		Kryocide	8.0 lbs	\$8.80	
				\$79	\$32

* May be combined with Leafhopper spray.

** Some growers make a second Leafhopper application.

Materials and rates are not included because of wide variation among growers.

PESTICIDE ESTABLISHMENT COSTS
ALL VARIETIES

Year	Material	Cost for Materials	Costs for Application	Total Costs
1st year	Kryocide 8 lbs (OLR and GLS)	\$9	\$8	\$17
2nd year	Kryocide 8 lbs (OLR and GLS)	\$9	\$8	\$17
	Thiodan 2.5 lbs (Leafhopper)	\$10		\$10
3rd year	Same as pesticide production cost for that particular variety			

**RAISIN VARIETY
EQUIPMENT AND BUILDING LIST**

ITEM	ORIGINAL COST	ANNUAL USE (ACRES)	COST/ACRE	LIFE (YEARS)	DEPR	INTEREST @ 12.5%	REPAIR COSTS/HR	FUEL 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	\$2.58	\$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)								
3-Wheel Motorcycle	\$1,500	120	\$13	5	\$3	\$0.78		
Pickup	\$8,000	120	\$67	5	\$13	\$4.17		
Misc tools	\$5,000	120	\$42	10	\$4	\$2.60		
Raisin dumper & shaker	\$7,600	120	\$63	10	\$6	\$3.96		
2 bin trainers (4 bins ea)	\$1,640	120	\$14	10	\$1	\$0.85		
Terracer	\$953	120	\$8	10	\$1	\$0.50		
Cane cutters	\$2,679	120	\$23	10	\$2	\$1.46		
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	\$181,272		\$1,512		\$114	\$94.48	\$10.26	\$5.85
60% OF NEW COSTS	\$108,763		\$907		\$68	\$56.69	\$6.16	\$3.51