# SAMPLE COSTS TO ESTABLISH AND PRODUCE THOMPSON SEEDLESS FOR TABLE USE

### San Joaquin Valley - 1986

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. This series includes: Thompson Seedless for Raisins and Wine, Thompson Seedless for Table Use, Wine Varieties, Emperor, Cardinal or Ribier and Flame Seedless table grapes. 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 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. Pesticides, herbicides and fungicides listed are used to depict typical costs. Other materials may be equally effective and no specific recommendations are made for the products listed.

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#### THOMPSON SEEDLESS GRAPES FOR TABLE USE

## Sample Costs To Establish a Vineyard - 1986

Cost Analysis Work Sheet

7	3	are	based	On i	120	acre	unit.	vines	spaced	at	81	X	121.	

Wages include Social Security, Workmen's Compensation and insurance.

Yield of 5 tons.

Tractor and Supervisory Labor \$	5.70 per hou	•							
Umskilled Labor \$ Tractor \$	4.85 per hour 6.48 per hour	•							
		Costs Per Acre							
		1st Year	2nd Year	3rd Year					
YIELD: tons fruit / a	cre			5					
CULTURAL COSTS:									
Fumigate		460							
Land Preparation									
4 hrs chisel and la	bor	60							
4 hrs disc and floa	t and labor	72							
Rootings: 454 at \$8.3		168	7						
Trim and store @ \$8.0		36	ž						
Machine planting: \$0.	•		_						
(+2 hrs labor 2nd y		50	19						
Stakes (treated): 454			454						
posts (treated):			50						
Stake and set end pos		<b>;</b>							
+ \$4.50 end posts			131						
Wire: 350 lbs. #13 hi	gh tensile, \$.34	/1b	119						
String four wires and			106						
Attach crossarms and									
32 hrs labor				155					
Crossarws: 3 ft at \$	.31. braces at \$	. 04							
+ staples, mails, t	•			<b>17</b> 7					
Training and suckerin		·_		•••					
2nd yr; 18 hrs labo		,	116	87					
Prune and Tie: 5 hrs				•					
18 hrs labor, 3rd y			24	87					
Rabbit control	•	15	8	19					
Irrigation: 5 hrs lab	or each year	29	29	29					
Water power and/or di		2.7							
60 ft pumping 1, 2,									
e \$32.78		33	65	114					
Cultivation and irrig	ation preparatio			•••					
6 hrs labor + 4 hrs									
8 hrs labor + 4 hrs	•	' 60	72	72					
Fertilizer: \$.30/lb (			,						
and 50 lbs N, 3rd y									
application			14	20					
_Pest management and di	isease metrol		• •	20					
includes mildem	Sease Considi	17	27	293					
erbicides: materials	and annlination		32	32					
Misc. Labor, materials		34	29	34					
- 110 DET EMPORT   MOVET 1813	-3 4 111 61 82 501	<b>37</b>	23	37					

1869

1288

1120

TOTAL CULTURAL COSTS

A Section of the Contract of t			
Harvest Costs: Contract at \$45/ton - pick and haul			225
JOTAL HARVESTING COSTS - custom			225
<b>^</b>			
OVERHEAD COSTS:			
County taxes	39	39	39
Office and Business Costs	39	30	38
Interest on operating capital 13%			
TOTAL OVERHEAD COSTS	69	69	69
TOTAL CASH COSTS	1138	1357	1413
ACCUMULATED CASH COSTS	1138	2495	3908
DEPRECIATION:			
Building, equipment and irrigation	65	65	65
INTEREST ON INVESTMENT @ 12.5%:			
Building, equipment and irrigation	55	55	55
Land \$3000	37 <b>5</b>	375	375
Interest in accum. cash cost	142	312	489
TOTAL INTEREST ON INVESTMENT	572	742	918
	4	0.64	^2^7
TOTAL COST FOR THE YEAR	1775	2164	2397
CREDIT FOR PRODUCTION			
at \$75/ton for juice			-375
NET COST FOR THE YEAR	1775	2164	2772
ACCUMULATED NET COST	1775	3939	6711

## THOMPSON SEEDLESS GRAPES FOR TABLE USE

## Sample Costs for a Mature Vineyard - 1986

SUMPROTECTO LABOR S	5.78 r	er hour					
Supervisory labor \$ Field Labor \$	•	er hour					
Tractor \$		er hour					
	Labor			d Labor Costs per Acre			
Operation	Hours per Acre	Labor	Fuel & Repairs	Haterials Kind and Quantity	Cost	Total Cost	
Pre-harvest Cash Costs:							
Pruning: contract				\$.35/vine, 454 vine/acre	158 <b>. 90</b>	158.90	
Brush Disposal: contract				every middle	10.00	10.00	
Tying vines: contract						35.00	
Fertilizer				60 lbs N 0 \$.30/lb			
				+ \$5/acre application	23.00	23 <b>. 0</b> 0	
Growth regulator-materials				6ibberellin	<b>85.</b> 12	<b>85.</b> 12	
Disease & pest control				Bayleton, Kryocide, Thiod	lan		
including mildew - materia	ls			fungicide, Lannate,	144.81	144.81	
Disesase, pest control and growth regulator applicati	ons					63.50	
Herbicides				Materials and appl cost	38, 92	38, 92	
Irrigation: preparation and				The same and appropriate			
and cultivation	4	22.88	<b>25.9</b> 2			48.72	
rrigate	6	29, 10				29. 10	
water power and/or district	tax						
4 ac ft @ \$32.70						130.80	
Girdling	14	67.98				67.90	
Thinning	41	198.85				198.85	
Misc.	8	38. 80	12.96	materials	<b>32.00</b>	83.76	
Interest on operating capita	1 0 12.5%					139.80	
TOTAL PRE-HARVEST COSTS	73	357.45	38.88		492.75	1258.18	

OTAL INVESTMENT COSTS		10586.40		480.78	865.93	1266.71
Land		3888, 88			375. 80	375 <b>. 00</b>
/ines, stakes, trellis		6711.00		<b>335.5</b> 5	436.22	771.77
quipment, buildings & irrigation		875.40		65.23	54.71	119.94
Investment	P	er Acre		Depreciation	Interest @ 12.5%	
				Annual Co	ost	~~~~
TOTAL CASH COST PER LUG - 522 lug	s/acm	<b>P</b>	<del></del>			2.54
TOTAL CASH COSTS						1326.93
TOTAL CASH OVERHEAD COSTS						68.75
County Taxes						
Office and business costs						<b>38. 75</b>
Cash overhead:						30.00
TOTAL PRE-HARVEST COSTS	73	357.45	38.88		492.75	1258.18
Interest on operating capital 0 1	2.5%					139.80
Misc.	8	38. 80	12.96	materials	32.00	83.76
Thinning	41	198.85				198.85
Girdling	14	67.90				67.90
4 ac ft @ \$32.70						130.80
water power and/or district tax	U	23.10				L31.10
rrigate	6	29.10	£3. 7C			29.10
Irrigation: preparation and and cultivation	4	22.80	<b>25.9</b> 2			48.72

TOTAL COSTS PER ACRE

Cost per lug - 522 lugs/acre

2593.64

4.97

COSTS PER TON

FIELD PACKED Pre-harvest cost

3.45 Harvest costs Harvest costs Pick and haul . 95

Pick, pack, supervision Boxes, etc

.35

8.37

4.97

3.48

- 1.50 2.50 Packinghouse costs 1.55 Spread boxes, swamp, haul 8.42 TOTAL 1,2
- TOTAL 1,2

HOUSE PACKED

- Pre-harvest cost

1 - Selling commission, Table Grape Commission assessment, costs of of special packaging, and any inspection charges are not included

2 - Does not include credit for culls or strippings. **UC Cooperative Extension** 

- 4.97

GRAPES TABLE VARIETY

# EQUIPMENT AND BUILDING LIST

		ANNUAL	COST		OVER	HEAD	REPAIR	FUEL.	REPAIR AN
	ORIGINAL	USE	PER	LIFE	DEPREC-	INTEREST	COST	PER	FUEL COST
ITEM	COST	(ACRES)	ACRE	(YEARS)	IATION	AT 12.5%	PER HR	HOUR	PER HOUR
Tractors:									
30 HP wheel diesel	13000	120	108.33	10	10.83	6.77	1.30	1.9	5 3.2
60 HP wheel diesel	31000	128	258.33	10	25.83	16. 15	2.58	3.9	6.4
Disk,tandem 8'	7500	120	62.50	15	4. 17	3. 91	3.60		3.6
Border disc	2000	120	16.67	15	1.11	1.64	.96		.90
Springtooth - 8'	1500	120	12.50	20	.63	.78	.90		.9
Flat furrower	2899	128	23.33	. 20	1.17	1.46			
Three-point hitch sprayer									
(100 gallons)	1100	128	9. 17	10	.92	.57	.92		.9
Mower	4800	128	33.33	10	3.33	2.08		•	
3-Wheel Motorcycle	1500	128	12.50	5	2.50	.78			
Pickup	8000	120	66.67	5	13.33	4.17			
Misc. Tools	5000	120	41.67	10	4.17	2.60			
Cane cutters	2679	128	22.33	10	2.23	1.40			
2 tool bars	800	120	6.67	10	.67	.42			
Air compressor	600	129	5.00	10	. 50	.31			
Irrigation System	81600	120	680.00	20	34.00	42.58			
Buildings	12000	120	100.00	30	3. 33	6.25			
TOTAL COST	175079		1458. 99		108.72	91.19	18.26	5.8	5 16.11
60% OF NEW COSTS	105847		875. 40		65.23	54.71	6. 16	3.5	1 9.67

MERBICIOE COSTS FOR GRAPES

•			Amou	ınt per		Application
Ďate * -	Problem	Material	Vine	yard Acre	Cost/Acre \$	Cost
	Weeds, Preemergence and clean-up	Karmex# Simazine Paraquat# Surfactant	.5 .5 1. <b>0</b> .2	1b	1.65 1.65 6. <b>99</b> 2.81	8.00
May-June	Mainténance	Roundup# Surfactant		pt gal	1 <b>0.00</b> 2.81	5. <b>89</b>
					24.92	14.98

OI & HEVILE	vineyard - 1986				
<b>.</b> .				Material	Application
line	Purpose	Material	Amount	Cost	Cost
Mid April	Powdery Mildew	Bayleton*	4 oz	11.75	8.00
loom	Powdery Mildew	Bayleton*	6 oz	17.63	•
	OLR, and GLS	Kryocide*	8 1b	8.80	
	Growth Regulator	Gibberellin	12 gm	13.44	
	Bunch Rot	Fungicide	****	25.00	12.50
	Leaf hopper	Thiodan*	2.5 lb	10.00	
<b></b>	Powdery Mildew	Bayleton*	6 oz	17.63	
	Growth Regulator	Gibberellin	35 da	35.84	12.50
nd Set	Growth Regulator	Gibberellin	32 gm	35.84	12.50
uly-Aug	Leafhopper	Lannate*	1 lb	14.00	8.00
re-harvest	Bunch Rot	Fungicide	2 appl		
		Dust		40.00	10.00

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<sup>\*\*</sup> May be combined with leafhopper spray

<sup>\*\*\*</sup> Some growers may put on a second leafhopper spray
\*\*\*\* Materials and rates are not included because of wide variation among growers

PESTÍCIDE ESTABLISHMENT COSTS All Varieties

1st Year:

81 bs Cost = \$8.88 + \$8.89 application and GLS)

2nd Year:

Kryocide 81bs Cost = \$8.89(DLR and BLS)

Plus \$8.00 application cost Thiodan 2.5 lbs Cost = \$10.00

3rd Year:

(Leafhopper)

Same as pesticide production cost for that particular variety

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