SAMPLE COSTS TO ESTABLISH AND PRODUCE RIBIER OR CARDINAL TABLE GRAPES CORDON TRAINED, SPUR PRUNED

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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CORDON TRAINED, SPUR-PRUNED TABLE GRAPES Emperor, Flame Seedless, Ruby Seedless, Ribier, etc. Sample Costs to Establish a Vineyard - 1986

Cost Analysis Worksheet

5	are based on a	129 acre un	it, vines spaced	at 81 x 121. ution and insurance.
V 35	include Social	Security, W	orkmen³s Compensa	tion and insurance.

Yield of 300, 23-pound lugs (87/ton), 3.4 tons packed, and 1.6 tons culled.

Tractor and 5.78 per hour Supervisory labor \$

iupervisory labor \$ 5.78 per hour ield labor \$ 4.85 per hour			
fractor \$ 6.48 per hour			
		Costs Per Acre	
_		LOSES PER HERE	
	1st Year	2nd Year	3rd Year
IELD: tons fruit / acre			5
RE-HARVEST COSTS:			
Fumigate	468		
Land Preparation: contract			
4 hrs chisel and labor and		•	
4 hrs disc and float and labor	150		
Rootings: 454 at \$0.37 (+20, 2nd yr)	168	7	
Trim and store @ \$0.08 per rooting	36	2	
Machine planting: \$0.11/vine			
(+1 1/2 hrs labor 2nd year)	50	7	
Stakes (treated): 454 7-ft @ \$1		454	
End posts (treated): 11 8-ft @ \$4.50		50	
ke and set end posts: \$0.18 stakes			
\$4.50 end posts		131	
Wire: #13 high tensile, 2nd yr 82 lbs;			
3rd yr 164 lbs at \$.34/lb.		28	56
String wire and staple: one, 2nd yr;			
two, 3rd yr		25	58
Attach crossarms and braces: 32 hrs la	hor		155
Crossarms: 3 ft. at \$.31, braces at \$			
+ staples, nails, tire wires at \$.84			177
Training and suckering: 40 hrs labor,			•
2nd yr; 10 hrs labor, 3rd yr		194	49
Prune and Tie: 5 hrs labor, 2nd yr;		4.57	***
•		24	58
12 hrs labor, 3rd yr Rabbit control	15	8	J0
	15 20	29	29
Irrigation: 5 hrs labor each year	29	27	23
Water power and/or district tax:			
60 ft pumping 1, 2, 3 1/2 ac. ft.	77	65	114
8 \$32.70	33	65	114
Cultivation & irrigation preparation			
6 hrs labor + 4 hrs tractor, 1st yr;		70	. 79
8 hrs labor + 4 hrs tractor after	60	72	72
Fertilizer: \$.38/lb (25 lbs N, 2nd yr			
and 40 lbs N, 3rd yr + \$5/acre for		43	47
application		13	17
Pest management and disease control		.~	000
includes mildem	17	27	206
bicides: materials and application	35	32	32
ne hand work: 18 hrs			87
Misc. Labor, materials, 1 hr tractor	34	29	34

TOTAL PRE-HARVEST COSTS

1086

1196

1136

Price of fruit to grower is net	value after harves	t	
OVERHEAD COSTS:			
ty taxes	39	39	39
L ice and Business Costs	30	38	30
TOTAL OVERHEAD COSTS	69	69	69
TOTAL CASH COSTS	1155	1265	1284
ACCUMULATED CASH COSTS	1155	2420	3624
DEPRECIATION:			
Building, equipment and irrigation	65	65	65
INTEREST ON INVESTMENT @ 12.5%:		······································	
Building, equipment and irrigation	55	55	55
Land \$3000	375	375	375
Interest in accum. cash cost	144	382	453
TOTAL INTEREST ON INVESTMENT	574	732	883
TOTAL COST FOR THE YEAR	1794	2962	2152
CREDIT FOR PRODUCTION #			
at \$125/ton for 5 tons	-	-	-625
NET COST FOR THE YEAR	1794	2962	1527
ACCUMULATED NET COST	1794	3857	5384

RIBIER OR CARDINGAL GRAPES

Sample Costs for a Mature Vineyard - 1986

Based on a 120-acre unit, vines spaced at 8'x12'. Wages include Social Security Workmen's compensation and insurance. Yield of 522, 23-pound lugs (87/ton), 6.0 tons shipped, 2.0 tons culls.

Tractor and

Supervisory labor \$

5.70 per hour

Field Labor

4.85 per hour

		per hour						
	Labor			Labor Costs p			•	
0	Hours	Labor	Fuel #		laterials		Total	
Operation [per Acre		Repairs	Kind and Qua	intity	Cost	Cost	Los
Pre-harvest Cash Costs:								
Pruning: contract				\$.20/vine, 45		98. 80		
Brush Disposal: contract				alternate mid		7.00	7.00	
Fertilizer				50 lbs N 0 \$.				
				+ \$5/acre app	lication	20.00		
Zinc						3. 50	3.50	
Disease # pest control				Bayleton, Kry				
including mildew				Thiodan and f	ungicide	94.95	94.85	
Disease, pest and zinc								
application costs						68 . 0 0	68.88	
He rbicides				Materials and	appl cost	38.9 2	38.9 2	
Cultivation and irrigation								
preparation	4	22.80	25.92				48.72	
Irrigate	5	24.25					24.25	
Water power and/or district tax	X							
4 ac ft 0 \$32.70							130.88	
Shoot, fruit and leaf								
manipulation	80	388.00					388.00	
Sirdling	14	67.90					67.90	
lisc.	8	38.80	12.96	materials		32.00	83.76	
Interest on operating capital (12.5%						133.21	
TOTAL PRE-HARVEST COSTS	111	541.75	38.88			354.27	1198.91	
Cash overhead:								
Office and business costs							30.00	
County Taxes							38.75	
TOTAL CASH OVERHEAD COSTS							68.75	
TOTAL CASH COSTS							1267.67	
TOTAL CASH COST PER LUG - 522 1	lugs/acre						2.43	
~				Annual Co	ost.			
Investment	p _e	r Acre		Depreciation	Interest 6	12.5%		
	, ,			p				
quipment, buildings & irrigati	on	875.40		65.23	54.71		119.94	
lines, stakes, trellis		5384.00		269.28	336.50		685.78	
and		3000.00			375. 00		375.00	
TOTAL INVESTMENT COSTS		9259.48		334. 43	766.21		1100.64	
TOTAL COSTS PER ACRE							2368.31	
oct nom lun - 522 lung/annn							4 54	

4.54

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Cost per lug - 522 lugs/acre

Cost Per Lug of Packed Fruit

House Packed			Field Packed		
Pre-harvest cost Harvest costs Pick and haul Packinghouse cost, incuding cold storage	.98 2.50	4.54	Pre-harvest cost Harvest costs Pick, pack and supervision Boxes, etc Spread Boxes, swamp, haul	1.40 1.55 .35	4. 54 3. 38
Total		7.94	TOTAL		7.84

Selling commission, Table Grape Commission assessment, inspection and costs of special packing are not included

GRAPES TABLE VARIETY

EQUIPMENT AND BUILDING LIST

		ANNUAL	COST		OVER	HEAD	REPAIR	FLEL.	REPAIR AND
	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:			•		<i></i>				
30 HP wheel diesel	13000	120	1 6 8.33	10	10.83	6.77	1.38	1.9	5 3.25
60 HP wheel diesel	31000	120	258.33	10	25.83	16. 15	2.58	3.9	0 6.48
Disk,tandem 8'	7500	120	62.50	15	4.17	3. 91	3.60		3.68
Border disc	2000	129	16.67	15	1.11	1.94	.96		.96
Springtooth - 8°	1500	120	12.50	. 20	.63	.78	.90		.98
Flat furrower	2800	129	23.33	20	1.17	1.46			
Three-point hitch sprayer									
(198 gallons)	1100	120	9. 17	10	.92	.57	.92		.92
Mower	4900	129	33. 33	10	3. 33	2.08			
3-Wheel Motorcycle	1500	120	12.50	5	2.58	.78			
Pickup	8000	129	66.67	5	13.33	4.17			
Misc. Tools	5000	128	41.67	18	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	120	5.00	18	.50	.31			
Irrigation System	81600	120	680.00	29	34.00	42.50			
Buildings	12000	120	100.00	30	3, 33	6.25			
TAL COST	175079		1458. 99		108.72	91.19	10.26	5.8	5 16.11
50% OF NEW COSTS	105047		875. 40		65.23	54.71	6. 16	3.5	1 9.67

HERBICIDE COSTS FOR GRAPES
Mature Vineyards of all Varieties - 1986

. •			Amount per		Application
2	Problem	Material	Vineyard Acre	Cost/Acre \$	Cost
Jan-Mar	Weeds,	Karmex*	.5 lb	1.65	8.00
	Preemergence	Simazine	.5 lb	1.65	
	and clean-up	Paraquat*	1.0 pt	6.00	
		Surfactant	.2 gal	2.81	
May-June	Maintenance	Roundup*	1 pt	18.00	6.00
		Surfactant	.2 gal	2.81	
				24.92	14.00

Time	Purpose	Material	Amount	Material Cost	Application Cost
Mid April	Powdery Wildew	Bayleton*	4 oz	11.75	8.00
E <u>arl</u> y	Powdery Mildew	Bayleton*	4 oz	11.75	
	Basic Zinc	Zinc 52%	5 1b	3.50	12.50
Bloom	OLR, and GLS	Kryocide*	8 lb	8.80	12.50
Bloom + 14-21 days	Powdery Mildew	Bayleton*	4 oz	11.75	12.50
July-Aug	Leafhopper***	Thiodan*	2.5 lb	10.00	12.50
Pre-harvest	Bunch Rot or	Fungicide	2 appl		
	stem mildew	Dust		40.00	10.00
				97.55	68.00

Registered Trademark

*** Some growers may put on a second leafhopper spray

^{*} Registered Trademark

** May be combined with leafhopper spray

^{****} Materials and rates are not included because of wide variation among growers

PESTICIDE ESTABLISHMENT COSTS All Varieties

1st Year:

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

2nd Year:

Kryocide 81bs Cost = \$8.88 (DLR and BLS)

Thiodan 2.5 lbs Cost = \$18.98(Leafhopper)

3rd Year:

Same as pesticide production cost for that particular variety

Plus \$8.00 application cost

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