

TITLE: PRODUCTION COSTS & RETURNS FOR WINE GRAPES 1980  
 IN NORTH COAST COUNTIES  
 (NAPA, SONOMA, MENDOCINO)

GR-NC-80-2

Grapes # 371

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
<b>1. GROSS RECEIPTS FROM PRODUCTION:</b>					
GRAPES, WINE	TON	552.000	4.000	2208.00	
TOTAL RECEIPTS:				\$ 2208.00	
<b>2. VARIABLE COSTS:</b>					
<b>PREHARVEST:</b>					
PRUNING	hour	5.250	30.000	157.50	
BRUSH REMOVAL	ACRE	7.000	1.000	7.00	
TYE OR PROP	hour	5.250	4.000	21.00	
PWDY MILDEW CTL	LBS.	0.070	50.000	3.50	
PEST MNGT	GAL.	0.207	300.000	62.10	
NITROGEN	LBS.	0.250	30.000	7.50	
SUCKERING	hour	5.250	10.000	52.50	
WINTER WEED CTL	ACRE	16.000	1.000	16.00	
SEASONAL LABOR	ACRE	10.000	1.000	10.00	
FOREMAN	hour	6.250	10.000	62.50	
SUMMER WEED CTL	ACRE	12.000	1.000	12.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			11.31	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			25.26	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			5.73	
IRRIGATION (POWER-LUBE-REP)	ACIN	4.868	12.000	58.42	
MACHINERY LABOR	hour	6.250	10.527	65.79	
IRRIGATION LABOR	hour	5.250	2.000	10.50	
INTEREST ON OPERATING CAP.	DOL.	0.130	399.417	51.12	
TOTAL PREHARVEST COSTS:				\$ 639.73	
PREHARVEST COST PER TON				\$ 159.9327	
<b>HARVEST:</b>					
CUSTOM HARVEST	TON	60.000	4.000	240.00	
FOREMAN	ACRE	25.000	1.000	25.00	
MISCL EXPENSE	ACRE	15.000	1.000	15.00	
CUSTOM HAULING	TON	12.000	4.000	48.00	
INTEREST ON OPERATING CAP.	DOL.	0.130	54.667	7.11	
TOTAL HARVEST COSTS:				\$ 335.11	
HARVEST COST PER TON				\$ 83.7767	
TOTAL VARIABLE COSTS:				\$ 974.84	
VARIABLE COST PER TON				\$ 243.7093	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				\$ 1233.16	
INCOME PER TON				\$ 308.2907	
<b>4. CASH OVERHEAD:</b>					
REAL PROPERTY TAXES:				248.00	
MISC. OFFICE & BOOKKEEPING ( 10.00% OF TOTAL VARIABLE COSTS)				97.48	
TOTAL CASH OVERHEAD:				\$ 345.48	
OVERHEAD COST PER TON				86.3709	
<b>5. INCOME ABOVE ALL CASH COSTS:</b>				\$ 887.68	
INCOME PER TON				\$ 221.9197	
<b>6. OWNERSHIP COSTS:</b>					
<b>DEPRECIATION:</b>					
MACHINERY & EQUIPMENT	ACRE			25.97	
IRRIGATION SYSTEM	ACRE			7.36	
BUILDINGS	ACRE			41.07	
TREES, VINES OR STAND	ACRE			261.73	
TOTAL DEPRECIATION:				\$ 336.14	
<b>CAPITAL &amp; INTEREST:</b>					
MACHINERY & EQUIPMENT		0.130	219.849	28.58	
IRRIGATION SYSTEM		0.130	96.710	12.57	
BUILDINGS		0.100	338.250	33.82	
TREES, VINES OR STAND		0.100	7852.000	392.60	
LAND		0.100	6000.000	600.00	
TOTAL INTEREST CHARGE:				\$ 1067.58	
TOTAL FIXED COSTS:				\$ 1403.71	
FIXED COST PER TON				350.9286	
<b>7. TOTAL OF ABOVE COSTS:</b>				\$ 2724.04	
TOTAL COST PER TON				681.0088	
<b>8. NET RETURNS:</b>				\$ -516.04	
NET RETURNS PER TON				-129.0088	

BASED ON A 40 ACRE VINEYARD, WITH CANE PRUNED  
 KELLIS SYSTEM AND SPRINKLER PROTECTION  
 413 VINES PER ACRE

UPDATED 03/06/80

BUDGET IDENTIFICATION NUMBER 2474900230 732 1  
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BUDGET RECORD NUMBER 371  
 HARVEST MONTH: 12

UC Cooperative Extension

1979 default data

PRODUCTION COSTS & RETURNS FOR WINE GRAPES  
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COSTS AND RETURNS WILL BE  
 DIVIDED BY 4.0 TON  
 TO OBTAIN PER TON COSTS

LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	SHARE	UNIT	ITEM	TYPE	XXXX	
PRODUCTION	NUMBER OF UNITS																		
1 GRAPES, WINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	52.00	0.00	3.	47.	2.	0.	
OPERATING INPUTS	RATE/UNIT																		
														PRICE	SHARE	UNIT	ITEM	TYPE	HARV
															RENT	CODE	CODE		CODE
6 PRUNING	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	340.	3.	0.	
7 BRUSH REMOVAL	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.000	0.000	7.	313.	3.	0.	
8 TYE OR PROP	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	342.	3.	0.	
9 POWDRY MILDEW CTL	0.00	0.00	0.00	25.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.070	0.000	12.	239.	3.	0.	
10 PEST MNGT	0.00	0.00	0.00	0.00	150.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.207	0.000	5.	240.	3.	0.	
11 NITROGEN	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.250	0.000	12.	211.	3.	0.	
12 SUCKERING	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	273.	3.	0.	
13 WINTER WEED CTL	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.000	0.000	7.	250.	3.	0.	
14 SEASONAL LABOR	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	10.000	0.000	7.	330.	3.	0.	
15 CUSTOM HARVEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	60.000	0.000	3.	304.	3.	9.	
16 FOREMAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	25.000	0.000	7.	334.	3.	9.	
17 MISCL EXPENSE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	15.000	0.000	7.	400.	3.	9.	
18 CUSTOM HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	12.000	0.000	3.	306.	3.	9.	
19 FOREMAN	2.00	0.00	3.00	1.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	6.250	0.000	8.	334.	3.	0.	
20 SUMMER WEED CTL	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	12.000	0.000	7.	249.	3.	0.	
MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												M CREW	POWER	MACH	TYPE	HARV		
													LABOR	UNIT	CODE		CODE		
26 4ROW-CULTIVATOR	0.00	0.00	1.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	5.	73.	4.	0.	
27 WD SPRYR 500 GAL	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	5.	89.	4.	0.	
28 DUSTER 4 ROW	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	5.	87.	4.	0.	
29 PICKUP 1/2 TON	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	0.000	0.000	0.	14.	4.	0.	
													SHARE	SHARE	POWER	SYSH			
													FIXED %	VAR %	UNIT	CODE	LIFT		
49 ACIN IRRIG WATER	0.00	0.00	3.00	3.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.	57.	100.	
50 NO. TIMES IRRIG	0.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00							

EQUIPMENT REQUIREMENTS

	NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST	CODE			
51 FARM SHOP	1.000	0.600	0.	2.	5.	0.
52 MISCL ORCH EQUIP	2.000	1.000	0.	55.	5.	0.
53 GONDOLA	2.000	1.000	0.	13.	5.	0.

LAND REQUIREMENTS

CHARGE	NUMBER	VALUE OR	TAXES	PERENNIAL CROPS
METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE COST/ACRE
1.	40.00	6000.00	248.00	30.0 7852.00

BASED ON A 40 ACRE VINEYARD, WITH CANE PRUNED  
 TRELLIS SYSTEM AND SPRINKLER PROTECTION  
 413 VINES PER ACRE

MACHINERY COMPLEMENT 7  
 EQUIPMENT COMPLEMENT 1

UPDATED 03/06/80

LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
GENERAL NAME CHANGE-->250 WINTER WEED CTL	249 SUMMER WEED CTL	240 PEST MNGT	273 SUCKERING	
EQUIP NAME CHANGE---> 13 GONDOLA				

RM CL	VALUE	RM CL	VALUE	RM CL	VALUE	RM CL	VALUE	RM CL	VALUE	RM CL	VALUE
MACH COMP CHGS-->33.13.	1900.000000										
EQUAT COMP CHGS-->13.5.	3750.000000	13.6.	3750.000000	13.7.	10.000000						
PARAMETER CHGS-->6.	0.130000	10.	6.250000	12.	5.250000	18.	0.500000	28.	0.100000		

1979 default data

PRODUCTION COSTS & RETURNS FOR WINE GRAPES

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MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

CATEGORY	UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2208.00	0.00	0.00	2208.00
OPERATING EXPENSES														
PRUNING	\$/AC	157.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	157.50
BRUSH REMOVAL	\$/AC	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
TYE OR PROP	\$/AC	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00
PWDY MILDW CTL	\$/AC	0.00	0.00	0.00	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
PEST MNGT	\$/AC	0.00	0.00	0.00	0.00	31.05	0.00	31.05	0.00	0.00	0.00	0.00	0.00	62.10
NITROGEN	\$/AC	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.50
SUCKERING	\$/AC	0.00	0.00	0.00	0.00	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.50
WINTER WEED CTL	\$/AC	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
SEASONAL LABOR	\$/AC	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
CUSTOM HARVEST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.00	0.00	0.00	240.00
FOREMAN	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	25.00
MISCL EXPENSE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	15.00
CUSTOM HAULING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	48.00
FOREMAN	\$/AC	12.50	0.00	18.75	6.25	12.50	0.00	12.50	0.00	0.00	0.00	0.00	0.00	62.50
SUMMER WEED CTL	\$/AC	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
MACHINE LABOR COST	\$/AC	3.75	3.75	6.09	10.60	14.15	3.75	4.96	3.75	3.75	3.75	3.75	3.75	65.79
INTEREST ON OPER. CAP.	\$/AC	22.61	2.92	5.95	3.61	8.93	2.86	3.60	0.26	0.19	7.23	0.06	0.00	58.23
TRACTOR COST	\$/AC	0.00	0.00	1.27	3.73	5.65	0.00	0.66	0.00	0.00	0.00	0.00	0.00	11.31
EQUIPMENT COST	\$/AC	1.96	1.96	2.18	2.47	2.82	1.96	2.10	1.96	1.96	1.96	1.96	1.96	25.26
BLDG OPER. COST	\$/AC	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	5.73
IRRIGATION COST	\$/AC	0.00	0.00	14.61	14.61	0.00	14.61	14.61	0.00	0.00	0.00	0.00	0.00	58.42
IRRIG LABOR COST	\$/AC	0.00	0.00	2.63	2.63	0.00	2.63	2.63	0.00	0.00	0.00	0.00	0.00	10.50
TOTAL EXPENSES	\$/AC	213.29	30.10	67.94	46.11	129.84	48.28	72.58	6.45	6.38	341.42	6.25	6.19	974.84

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

	HR/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MACHINE LABOR	HR/AC	0.60	0.60	0.97	1.70	2.26	0.60	0.79	0.60	0.60	0.60	0.60	0.60	10.53
IRRIGATION LABOR	HR/AC	0.00	0.00	0.50	0.50	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	2.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	3.00	3.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	12.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE	
						DEPR.	INTER.	TAX \$/INS	TOTAL	FUEL	LUBE	REPAIRS		TOTAL
TRACTOR 80 HP	5	80.0	17300.	15.	300.	9.36	13.54	1.74	24.65	6.49	0.97	3.84	11.31	3.024
PICKUP 1/2 TON	14	0.5	7500.	7.	435.	11.01	8.44	1.03	20.48	17.28	2.59	3.67	23.54	6.000
IRR PUMP 75 HP*	23	2.0	11368.	25.	3200.	0.78	1.51	0.21	2.50	20.68	0.31	0.50	21.48	6.000
PERM SET SPRINK*	57	2.0	125750.	20.	5000.	6.58	11.07	1.51	19.15	0.00	0.72	36.21	36.94	6.000
4ROW-CULTIVATOR	73	10.0	1700.	15.	50.	2.53	2.99	0.42	5.95	0.00	0.02	0.84	0.86	1.236
DUSTER 4 ROW	87	10.0	1000.	15.	50.	1.45	1.69	0.24	3.38	0.00	0.01	0.58	0.59	1.193
WD SPRYR 500 GAL	89	35.0	4200.	15.	50.	1.62	1.91	0.27	3.80	0.00	0.01	0.27	0.27	0.320
FARM SHOP	2		21600.	35.		13.89	29.70	5.40	48.99	5.40		0.23	5.63	
MISCL ORCH EQUIP	55		3000.	8.		8.44	4.13	0.75	13.31	0.00		0.09	0.09	
GONDOLA	13		7500.	10.		18.75	0.00	1.88	20.63	0.00		0.00	0.00	

MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE 5023. 74.40 74.98 13.45 162.83 49.85 4.63 46.24 100.72

TOTAL INVESTMENT 200938.

BASED ON A 40 ACRE VINEYARD, WITH CANE PRUNED  
TRELLIS SYSTEM AND SPRINKLER PROTECTION  
413 VINES PER ACRE

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