

COST & RETURNS SUMMARY FOR WALNUTS
SAMPLE COSTS TO PRODUCE WALNUTS BY W. SEYMAN
SANTA CLARA COUNTY 1980 D. DOUGLAS
YIELD: 1 TON PER ACRE (DRIED)

*** TEMPORARY BUDGET ***

Walnuts #211

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
WALNUTS	TON	1000.000	1.000	1000.00	
TOTAL RECEIPTS:				1000.00	
2. VARIABLE COSTS:					
PREHARVEST:					
RODENT CONTROL	ACRE	40.000	0.995	39.80	
FERTILIZER & APP	ACRE	60.000	1.000	60.00	
MORA SPRAY	ACRE	16.000	1.000	16.00	
SUCKER CONTROL	ACRE	16.000	1.000	16.00	
IRRIG PUMP TAX	ACIN	1.750	8.000	14.00	
HUSK FLY SPRAY	ACRE	20.000	1.000	20.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			35.35	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			25.78	
MACHINERY LABOR	HOUR	4.400	10.191	44.84	
MACHINE CREW LABOR	HOUR	4.200	0.968	4.07	
IRRIGATION LABOR	HOUR	4.200	4.000	16.80	
INTEREST ON OPERATING CAP.	DOL.	0.14000	109.313	15.72	
TOTAL PREHARVEST COSTS:				307.33	
PREHARVEST COST PER TON				307.3326	
HARVEST:					
PICKING	TON	58.000	1.400	81.20	
HULL & DRY	TON	100.000	1.000	100.00	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			0.96	
MACHINERY LABOR	HOUR	4.400	0.600	2.64	
INTEREST ON OPERATING CAP.	DOL.	0.14000	7.700	1.08	
TOTAL HARVEST COSTS:				185.88	
HARVEST COST PER TON				185.8292	
TOTAL VARIABLE COSTS:				493.21	
VARIABLE COST PER TON				493.2123	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER TON				506.79	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				29.42	
CASH RENT:				100.00	
TOTAL OVERHEAD:				129.42	
OVERHEAD COST PER TON				129.4234	
TOTAL CASH COSTS:				622.64	
TOTAL CASH COST PER TON				622.6357	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER TON				377.36	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			75.42	
TOTAL DEPRECIATION:				75.42	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.14000	742.060	103.82	
TOTAL INTEREST CHARGE:				103.89	
TOTAL FIXED COSTS:				179.31	
FIXED COST PER TON				179.3077	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER TON				801.94	
8. NET RETURNS:					
NET RETURNS PER TON				198.06	

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)
 HANDMADE SPRINKLER IRRIGATION: 8 ACIN PER YEAR
 CASH RENT BASIS
 DATE PRINTED: 02/13/81 HARVEST MONTH: 10

Updated 02/05/81
 BUDGET RECORD NUMBER 277

1980 default data

CASH FLOW & INVESTMENT SUMMARY FOR WALNUTS

SAMPLE COSTS TO PRODUCE WALNUTS
SANTA CLARA COUNTY 1980
YIELD: 1 TON PER ACRE (DRIED)

BY W. SEYMAN
D. DOUGLAS

*** TEMPORARY BUDGET *** BUDGET RECORD NUMBER 277

CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00	500.00	0.00	0.00	1000.00
OPERATING EXPENSES															
ODENT CONTROL	\$/AC	0.00	0.00	0.00	11.44	11.20	5.72	5.72	5.72	0.00	0.00	0.00	0.00	0.00	39.80
FERTILIZER & APP	\$/AC	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00
WORM SPRAY	\$/AC	0.00	0.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
SUCKER CONTROL	\$/AC	0.00	0.00	0.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
IRRIG PUMP TAX	\$/AC	0.00	0.00	0.00	0.00	7.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
HUSK FLY SPRAY	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	20.00
PICKING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.60	40.60	0.00	0.00	0.00	81.20
HULL & DRY	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	0.00	100.00
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	10.65	10.65	5.32	5.32	11.83	1.32	1.32	5.13	0.00	0.00	51.55
INTEREST ON OPER. CAP.	\$/AC	0.00	0.00	0.00	2.52	7.45	1.54	1.28	1.16	1.08	0.00	0.77	0.00	0.00	15.80
TRACTOR COST	\$/AC	0.00	0.00	0.00	8.41	8.41	4.20	4.20	9.28	0.00	0.00	0.84	0.00	0.00	35.35
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	6.65	6.65	3.32	3.32	5.75	0.48	0.48	0.07	0.00	0.00	26.72
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	0.00	8.40	0.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	16.80
TOTAL EXPENSES	\$/AC	0.00	0.00	0.00	39.66	140.20	36.12	39.70	53.74	93.48	92.40	6.81	0.00	0.00	493.21

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	0.00	0.00	0.00	2.42	2.42	1.21	1.21	2.69	0.30	0.30	0.24	0.00	10.79
MCH. CREW LABOR	HR/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.97
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	4.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	8.00

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	TOTAL	FUEL	LUBE	REPAIRS	TOTAL	
TRACTOR 35 HP	3	35.0	9960.	15.	300.	0.60	0.93	0.25	1.78	0.85	0.13	0.25	1.22	0.336
TRACTOR 50 HP	4	50.0	15960.	15.	300.	25.50	39.72	10.69	75.91	20.57	3.09	10.47	34.13	8.928
FORKLIFT*	20	2.0	11400.	15.	200.	1.53	2.38	0.64	4.55	0.61	0.09	0.26	0.96	0.500
IRRIG PUMP 20HP*	21	1.0	0.	25.	6400.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.000
FLATBED TRAILER	44	5.0	3420.	15.	200.	0.20	0.27	0.08	0.55	0.00	0.00	0.07	0.07	0.200
HANDMOVE SPRINK*	54	2.0	0.	10.	5000.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.000
ROLLER	74	10.0	2400.	15.	45.	2.95	3.75	1.10	7.80	0.00	0.00	0.23	0.24	0.917
DISC-HYD OFFSET	79	10.0	7200.	15.	75.	40.50	51.56	15.12	107.18	0.00	0.46	22.81	23.27	7.000
SPD SPRYR 500 6A	91	15.0	18000.	15.	80.	4.14	5.27	1.55	10.96	0.00	0.04	2.14	2.18	0.306

MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE
TOTAL INVESTMENT 2278. 68340.
75.42 103.89 29.42 208.73 22.03 3.81 36.23 62.07

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)
HANDMOVE SPRINKLER IRRIGATION: 8 ACIN PER YEAR
CASH RENT BASIS
DATE PRINTED: 02/13/81

Updated 02/05/81

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 277
SAMPLE COSTS TO PRODUCE WALNUTS BY W. SEYMAN
SANTA CLARA COUNTY 1980 D. DOUGLAS
YIELD: 1 TON PER ACRE (DRIED)

*** TEMPORARY BUDGET ***

FUEL USED IN GALLONS PER HOUR

TRACTOR 35 HP	2.100	
TRACTOR 50 HP	2.400	
FORKLIFT*	1.270	
IRRIG PUMP 20HP*	39.385	(KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
FORKLIFT*	0.635	
DISC-HYD OFFSET	1.320	TRACTOR 50 HP
SPD SPRYR 500 GA	0.706	TRACTOR 35 HP
ROLLER	1.210	TRACTOR 50 HP
FLATBED TRAILER	0.528	TRACTOR 50 HP
HANDMOVE SPRINK*	157.538	IRRIG PUMP 20HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISC-HYD OFFSET	0.000	0.000	0.000	5.280	5.280	2.640	2.640	2.640	0.000	0.000	0.000	0.000	18.480	DIESEL
SPD SPRYR 500 GA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.706	0.000	0.000	0.000	0.000	0.706	GAS
ROLLER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.420	0.000	0.000	0.000	0.000	2.420	DIESEL
NUT SHAKER*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	GAS
FORKLIFT*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.318	0.318	0.000	0.000	0.635	DIESEL
FLATBED TRAILER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.528	0.000	0.528	DIESEL
HANDMOVE SPRINK*	0.000	0.000	0.000	0.000	78.769	0.000	78.769	0.000	0.000	0.000	0.000	0.000	157.538	KWH
TOTALS	0.000	0.000	0.000	5.280	84.049	2.640	81.409	5.766	0.318	0.318	0.528	0.000	22.769	

GALLONS FUEL BY TYPE

0.71 GAS
 0.00 LP
 22.06 DIESEL
 0.00 N. GAS
 157.54 KWHRS

FUEL TYPES

1=GAS
 2=L.P.
 3=DIESEL
 4=N. GAS
 5=ELEC.

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)
 HANDMOVE SPRINKLER IRRIGATION: 8 ACIN PER YEAR

CASH RENT BASIS
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Updated 02/05/81

MACHINERY OPERATIONS SUMMARY
 SAMPLE COSTS TO PRODUCE WALNUTS
 SANTA CLARA COUNTY 1980
 YIELD: 1 TON PER ACRE (DRIED)

BY W. SEYMAN
 D. DOUGLAS

BUDGET RECORD NUMBER 277

*** TEMPORARY BUDGET ***

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
FLATBED TRAILER	4,	44 NOV	1.00	0.726	0.200	0.91	2.42
DISC-HYD OFFSET	4,	79 APR	4.00	2.420	2.000	15.06	49.33
DISC-HYD OFFSET	4,	79 MAY	4.00	2.420	2.000	15.06	49.33
DISC-HYD OFFSET	4,	79 JUNE	2.00	1.210	1.000	7.53	24.66
DISC-HYD OFFSET	4,	79 JULY	2.00	1.210	1.000	7.53	24.66
DISC-HYD OFFSET	4,	79 AUG	2.00	1.210	1.000	7.53	24.66
SPD SPRYR 500 GA	3,	91 AUG	1.00	0.370	0.306	3.40	12.75
ROLLER	4,	74 AUG	2.00	1.109	0.917	4.09	16.37
NUT SHAKER*	4,	31 SEPT	0.50	0.000	0.000	0.00	0.00
FORKLIFT*		20 SEPT	0.50	0.300	0.250	0.48	2.28
NUT SHAKER*	4,	31 OCT	0.50	0.000	0.000	0.00	0.00
FORKLIFT*		20 OCT	0.50	0.300	0.250	0.48	2.28

TOTALS 11.275 8.922 62.07 208.73

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)

HANDMOVE SPRINKLER IRRIGATION: 8 ACIN PER YEAR

CASH RENT BASIS

DATE PRINTED: 02/13/81

Updated 02/05/81

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 277
 SAMPLE COSTS TO PRODUCE WALNUTS BY W. SEYMAN
 SANTA CLARA COUNTY 1980 D. DOUGLAS
 YIELD: 1 TON PER ACRE (DRIED)

*** TEMPORARY BUDGET ***

INCOME ABOVE VARIABLE COSTS WHEN THE PRICE OF WALNUTS AND THE QUANTITY OF WALNUTS		RANGES FROM RANGES FROM		900.00 TO 0.80 TO	1100.00 1.20	
PRICE OF WALNUTS		900.00	950.00	1000.00	1050.00	1100.00

QUANTITY OF WALNUTS	0.80	226.79	266.79	306.79	346.79	386.79
	0.90	316.79	361.79	406.79	451.79	496.79
	1.00	406.79	456.79	506.79	556.79	606.79
	1.10	496.79	551.79	606.79	661.79	716.79
	1.20	586.79	646.79	706.79	766.79	826.79

INCOME ABOVE ALL CASH COSTS WHEN THE PRICE OF WALNUTS AND THE QUANTITY OF WALNUTS		RANGES FROM RANGES FROM		900.00 TO 0.80 TO	1100.00 1.20	
PRICE OF WALNUTS		900.00	950.00	1000.00	1050.00	1100.00

QUANTITY OF WALNUTS	0.80	97.36	137.36	177.36	217.36	257.36
	0.90	187.36	232.36	277.36	322.36	367.36
	1.00	277.36	327.36	377.36	427.36	477.36
	1.10	367.36	422.36	477.36	532.36	587.36
	1.20	457.36	517.36	577.36	637.36	697.36

INCOME ABOVE ALL COSTS WHEN THE PRICE OF WALNUTS AND THE QUANTITY OF WALNUTS		RANGES FROM RANGES FROM		900.00 TO 0.80 TO	1100.00 1.20	
PRICE OF WALNUTS		900.00	950.00	1000.00	1050.00	1100.00

QUANTITY OF WALNUTS	0.80	-81.94	-41.94	-1.94	38.06	78.06
	0.90	8.06	53.06	98.06	143.06	188.06
	1.00	98.06	148.06	198.06	248.06	298.06
	1.10	188.06	243.06	298.06	353.06	408.06
	1.20	278.06	338.06	398.06	458.06	518.06

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)
 HANDMOVE SPRINKLER IRRIGATION: 8 ACIN PER YEAR
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STORED DATA PAGE (NO CALCULATIONS) FOR WALNUTS

BUDGET RECORD NUMBER 277

SAMPLE COSTS TO PRODUCE WALNUTS BY W. SEYMAN
 SANTA CLARA COUNTY 1980 D. DOUGLAS
 YIELD: 1 TON PER ACRE (DRIED)

COSTS AND RETURNS WILL BE
 DIVIDED BY 1.0 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
PRODUCTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	SHARE	UNIT	ITEM	TYPE	XXXX
	NUMBER OF UNITS																	
1 WALNUTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	*****	0.000	3.	63.	2.	0.
OPERATING INPUTS	RATE/UNIT																	
	PRICE																	
	SHARE																	
	UNIT																	
	ITEM																	
	TYPE																	
	HARV																	
	CODE																	
6 RODENT CONTROL	0.00	0.00	0.00	0.29	0.28	0.14	0.14	0.14	0.00	0.00	0.00	0.00	40.000	0.000	7.	263.	3.	0.
7 FERTILIZER & APP	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.000	0.000	7.	356.	3.	0.
8 WORM SPRAY	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.000	0.000	7.	237.	3.	0.
9 SUCKER CONTROL	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	16.000	0.000	7.	340.	3.	0.
10 IRRIG PUMP TAX	0.00	0.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	1.750	0.000	11.	325.	3.	0.
11 HUSK FLY SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	20.000	0.000	7.	234.	3.	0.
12 PICKING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.00	0.00	58.000	0.000	3.	328.	3.	9.
13 HULL & DRY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	100.000	0.000	3.	346.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												# CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE		CODE	
26 DISC-HYD OFFSET	0.00	0.00	0.00	4.00	4.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	79.	4.	0.
27 SPD SPRYR 500 GA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.000	0.000	3.	91.	4.	0.
28 ROLLER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	74.	4.	0.
29 NUT SHAKER*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.000	0.000	4.	31.	4.	9.
30 FORKLIFT*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.000	0.000	0.	20.	4.	9.
41 FLATBED TRAILER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.000	4.000	4.	44.	4.	0.
													SHARE	SHARE	POWER	SYSA		
													FIXED %	VAR %	UNIT <td>CODE</td> <td>LIFT</td> <td></td>	CODE	LIFT	
49 ACIN IRRIG WATER	0.00	0.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	21.	54.	150.	
50 NO. TIMES IRRIG	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00						

EQUIPMENT REQUIREMENTS	NUMBER								PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS								OF COST		CODE		
NONE STORED WITH BUDGET													
COLUMNS --->	2	3	4	5	6	7	8						
LAND REQUIREMENTS	CHARGE		NUMBER	VALUE OR	TAXES	PERENNIAL CROPS							
	METHOD		OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE						
71	2.		30.00	100.00	0.00	0.0	0.00						
ENTERPRISE 2-63 REGION/COUNTY 43 UNASSIGNED 00000 MACH COMP 7 IRRIG SYST 4 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 10													

BASED ON 25-30 ACRES MATURE WALNUTS ON 80 ACRE ORCHARD (24X30)
 HANDMOVE SPRINKLER IRRIGATION: 8 ACIN PER YEAR
 CASH RENT BASIS

Updated 02/05/81

MACHINERY COMPLEMENT 7
 EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE-->	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
325 IRRIG PUMP TAX	237 WORM SPRAY	340 SUCKER CONTROL	328 PICKING	346 HULL & DRY	
234 HUSK FLY SPRAY	356 FERTILIZER & APP				
MACHNRY NAME CHANGE-->	21 IRRIG PUMP 20HP*	44 FLATBED TRAILER			

RM CL	VALUE	RM CL	VALUE	RM CL	VALUE	RM CL	VALUE	RM CL	VALUE
MACH COMP CHGS-->	21.16.	20.00000	79. 2.	10.00000	74. 2.	10.00000			
PARAMETER CHGS-->	10.	4.40000	11.	4.20000	12.	4.20000	18.	2.00000	6.
									0.07370026.
									0.073700

DATE PRINTED: 02/13/81
 1980 default data

Additional Notes: Walnuts
Santa Clara County 1980

Data Base: 25 acres mature (40-50 yr.) walnut orchard
Planted 24 x 30
No replants

A. Production

Variety	Harvest Date	Yield
1. Paynes (50%)	Sept. 15-20	1 Ton/Ac dried
2. Franketts (50%)	3rd week Oct.	1 Ton/ac dried

B. Operating Inputs

Preharvest:

1. Worm spray: coddling moth, cost includes rig rental
2. Rodent ctl.: smoke bombs at end of rows for squirrels following each discing.
3. Sucker ctl.: between first and second irrigations

Harvest:

1. Picking: 700#/bin, 4 bins/Ac = 1.4 Ton/Ac @ \$58.00/Ton
2. Hull & dry: based on dry weight

C. Machinery Requirements

1. Disk
4x mid-April
2x May following fertilizer
2x end May
2x June 2 weeks following worm spray
2x July
2. Speed Spray 1x August Husk fly spray
3. Disk 2x August
4. Roll 2x August Harvest preparation
5. Trunk Shaker 1x September 50% orchard
1x October 50% orchard

D. Irrigation Schedule

1. May 1x @ 4 Acin following first disking in May
2. May 1x @ 4 Acin
3. July 1x @ 4 Acin following June discing