

COOPERATIVE EXTENSION
UNIVERSITY OF CALIFORNIA

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1983

SAMPLE PRODUCTION COSTS

COSTS OF PRODUCING MAYGRAND NECTARINES (EARLY SEASON)

Tulare, Fresno & Kings Counties

by

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and

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Costs given in this sample study are for those of a typical well managed orchard and are not intended to reflect an average of all orchards in Tulare, Fresno and Kings Counties.

This study is based upon a 10 acre block out of a 40 acre total fruit orchard. The same machinery, pump and some other costs are shared on the whole orchard.

Practices listed are based on those considered typical production procedures. Sample costs given for labor, materials, equipment and contract services are based on 1983 figures. Interest and depreciation are based upon the cost of new equipment and recent land purchases. Some costs or practices listed in this study may not be applicable to your situation. The study is intended as a guide only.

For explanation of calculations used for the study refer to the attached cost estimate assumptions or call Agriculture Economics Extension, University of California, Davis, California (916) 752-3563.

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UC Cooperative Extension

10 acres of a 40 acre orchard - 108 trees/acre
 Furrow Irrigation: 44 ac.in. total 50% district water, 50% well water
 Land owner basis Yield: 600 lugs/acre (23 lbs/lug)

Cost Estimate Assumptions:

1. Prune in January:

Labor - 45 min/tree x 108 trees/acre (\div 60 min/hr) = 81 hrs/acre
 81 hrs/acre @ \$5.25/hr = \$425.25/acre
 Brush shredding - contract \$10.00 acre

2. Pest control:

Jan: Basic zinc

3 lb/100 gal of water x 5 (for 500 gal/acre) @ .60/lb = \$ 9.00/acre

Spray oil

1 gal/100 gal of water x 5 (for 500 gal/acre) @ 3.50/gal = 17.50/acre

Parathion (25wp)

2 lb/100 gal of water x 5 (for 500 gal/acre) @ 1.25/lb = 12.50/acre

Basic copper

4 lb/100 gal of water x 5 (for 500 gal/acre) @ 1.10/lb = 22.00/acre

Total dormant materials (1 application) = \$61.00/acre

Dormant spray to control San Jose scale, peach twig borer,
 peach leaf curl, zinc deficiency and over wintering mite eggs.

Feb: Fungicide (benomyl) for brown rot, 1.5 lb/ac @ 13.50/lb = \$ 20.25/acre

Mar: Insecticide at petal fall for thrips, 1.25 lb/ac @ 20.00/lb = 25.00/acre

May: Fungicide (benomyl) for brown rot 1.5 lb/ac @ 13.50/lb = 20.25/acre

Insecticide at pre-harv for thrips 1.25 lb/ac @ 20.00/lb = 25.00/acre

Jul: Miticide 1 lb/acre @ 20.00/lb = 20.00/acre

Total materials for 6 applications = \$171.50/acre

Application - speed sprayer, 500 gal pulled by 65hp diesel tractor

- 1 pass in orchard, each application

3. Tie limbs in February:

Labor & materials, 108 trees/acre @ \$.70/tree = \$75.60/acre

4. Furrow in March, May, July:

Furrower, 2 shovel pulled by 65hp diesel tractor - 1 pass in orchard each month

March - prior to frost

May - after thinning

July - weed control

5. Thin fruit in April:

Labor - 75.6 hrs/acre @ \$5.25/hr = \$396.90/acre

6. Girdle limbs in April:

Labor - 9.75 hrs/acre @ \$5.25/hr = \$51.19/acre

7. Fertilize in May and September:

Materials, May: .5 lbs N/tree x 108 trees/acre @ .34/lb = \$18.36/acre

Sep: .75 lbs N/tree x 108 trees/acre @ .34/lb = 27.54/acre

Total Materials \$45.90/acre

Application - contract \$3.50/acre x 2 applications = \$7.00/acre

8. Disc in May, July, October:

Offset disc pulled by 65hp diesel tractor - 1 pass in orchard each month

May - before furrowing

July - before furrowing

October - before pruning

9: Irrigation:

Furrow irrigation system includes:

Pipeline, \$300/acre x 40 acres	\$12,000
Well, 120 ft, 10-12" casing	<u>2,300</u>
	\$14,300

Pump: 15hp, 70 ft lift, 450 gal/min = 1.0 ac.in./hr \$7,900

Irrigation labor - 1 hr/application/acre

9 irrigations - 44 ac.in. total: 22 ac.in. district water
22 ac.in. well water

District water cost: \$14.00/acre

First irrigation or two is well water, district water used until unavailable, then well water for balance of season.

		well	district
April	1x	4.0	
May	1x	4.0	
June	2x		11.0
July	2x		11.0
August	2x	10.0	
September	1x	<u>4.0</u>	
Total ac.in.		22.0	<u>22.0</u>

An irrigation in March is possible for frost protection.

10. Weed control in May-September and December:

May-Sept: Labor (hoeing and touch up spraying) 1 hr/ac @ \$5.25/hr = \$5.25/acre
Materials - additional spray = \$7.50/acre

December: Materials pre-emergence herbicide \$12.00/acre
Application - contract \$7.00/acre

11. Misc labor:

4 hrs/acre @ \$5.25/hr = \$21.00/acre
1/3 hour charged each month for 12 months

12. Pickup: 25 miles/acre/month

13. Harvest in June:

Yield: 600 packed lugs/acre (23 lbs/lug)

Price: \$7.00/lug (based on 1980 prices)

Contract harvest

Pick: \$1.00/lug x 600 lugs/acre = \$600.00/acre

\$35/bin at 35 carton packout

Haul: \$.10/lug x 600 lugs/acre = 60.00/acre

Misc. Labor: 4 hrs/ac @ \$5.25 = \$21.00/acre

Packing charges: \$2.35/lug

Selling charges: 10% of gross sales price = \$.70/lug

14. Labor rates include benefits:

Machinery operators \$5.90/hr

Irrigators \$5.90/hr

Misc. Labor \$5.25/hr

15. Buildings and equipment:

Farm shop 1500 sq. ft. @ \$12/sq.ft. \$18,000

Tools and shop equipment \$12,285

Proportion allocated to Stone Fruit Orchard = 25% of above

16. Land owned:

Land value \$5500/acre Land tax \$55.00/acre

COST & RETURNS SUMMARY FOR HECTARINES
 COSTS OF PRODUCING MAYGRAND HECTARINES (EARLY SEASON)
 TULARE, FRESNO AND KINGS COUNTIES
 BY J. LARUE, F. YOSHIKAWA, B. BEEDE AND K. KLONSKY

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
NECTARINES	LUGS	7.000	600.000	4200.00	
TOTAL RECEIPTS:				4200.00	
2. VARIABLE COSTS:					
PREHARVEST:					
PRUNING	HOURL	5.250	81.000	425.25	
BRUSH SHREDDING	ACRE	10.000	1.000	10.00	
PEST - DORMANT	ACRE	61.000	1.000	61.00	
TIE - NATALAZOR	TREE	0.700	108.000	75.60	
FUNG - BROWN ROT	ACRE	40.500	1.000	40.50	
INSECT. - THRIPS	ACRE	50.000	1.000	50.00	
THINNING	HOURL	5.250	75.600	396.90	
GIRDLING	HOURL	5.250	9.750	51.19	
NITROGEN	LBS.	0.340	135.000	45.90	
CONTRACT N APPL.	APLC	3.500	2.000	7.00	
DISTRICT WATER	ACRE	14.000	1.000	14.00	
WEED CONTROL	ACRE	12.750	1.000	12.75	
MITTICIDE	LBS.	20.000	1.000	20.00	
PRE-EMERGE HERB	ACRE	12.000	1.000	12.00	
CONTR. HERB APPL	APLC	7.000	1.000	7.00	
MISC. LABOR	HOURL	5.250	4.000	21.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			26.86	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			106.06	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			5.10	
IRRIGATION (POWER-LUBE-REP)	ACRE	1.267	22.000	27.88	
MACHINERY LABOR	HOURL	5.900	24.012	141.67	
IRRIGATION LABOR	HOURL	5.900	7.000	53.10	
INTEREST ON OPERATING CAP.	DOL.	0.14000	568.408	26.99	
TOTAL PREHARVEST COSTS:				1687.76	
PREHARVEST COST PER LUGS				2.8129	
HARVEST:					
CONTRACT PICK	ACRE	1.000	600.000	600.00	
CONTRACT HAUL	LUGS	0.100	600.000	60.00	
PACKING CHARGES	LUGS	2.350	600.000	1410.00	
SELLING CHARGES	LUGS	0.700	600.000	420.00	
MISC HARV LABOR	HOURL	5.250	4.000	21.00	
TOTAL HARVEST COSTS:				2511.00	
HARVEST COST PER LUGS				4.1850	
TOTAL VARIABLE COSTS:				4198.76	
VARIABLE COST PER LUGS				6.9979	
3. INCOME ABOVE VARIABLE COSTS:					
				1.24	
INCOME PER LUGS				0.0021	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				22.60	
REAL PROPERTY TAXES:				55.00	
MISC. OFFICE & BOOKKEEPING (2.50% OF TOTAL VARIABLE COSTS)				104.92	
TOTAL OVERHEAD:				182.52	
OVERHEAD COST PER LUGS				0.3043	
TOTAL CASH COSTS:				4381.33	
TOTAL CASH COST PER LUGS				7.3022	
5. INCOME ABOVE ALL CASH COSTS:					
				-181.33	
INCOME PER LUGS				-0.3022	

OWNERSHIP COSTS:

DEPRECIATION:

MACHINERY & EQUIPMENT	ACRE			74.06
IRRIGATION SYSTEM	ACRE			5.43
BUILDINGS	ACRE			25.90
TREES, VINES OR STAND	ACRE			322.04
TOTAL DEPRECIATION:				427.43

CAPITAL & INTEREST:

MACHINERY & EQUIPMENT	0.14000	595.920		63.43
IRRIGATION SYSTEM	0.14000	55.479		7.77
BUILDINGS	0.10670	447.131		47.71
TREES, VINES OR STAND	0.10670	6440.960		343.62
LAND	0.10670	5500.000		586.85
TOTAL INTEREST CHARGE:				1069.38
TOTAL FIXED COSTS:				1496.81
FIXED COST PER LUGS				2.4947

7. TOTAL OF ABOVE COSTS:	5378.14
TOTAL COST PER LUGS	9.7969

B. NET RETURNS:	-1678.14
NET RETURNS PER LUGS	-2.7969

BASED ON 10 ACRES OF A 40 ACRE ORCHARD - 100 TREES/ACRE
 FURROW IRRIGATION: 44 AC. IN. TOTAL 50% DISTRICT WATER, 50% WELL WATER
 LAND OWNER BASIS YIELD: 600 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83

CASH FLOW & INVESTMENT SUMMARY FOR NECTARINES

BUDGET RECORD NUMBER 47

COSTS OF PRODUCING MAYGRAND NECTARINES (EARLY SEASON)
TULARE, FRESNO AND KINGS COUNTIES
BY J. LARUE, F. YOSHIKAWA, D. CEEDE AND K. KLONSKY

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	200.00	0.00	0.00	0.00	0.00	0.00	0.00	4200.00
OPERATING EXPENSES														
PRUNING	\$/AC	425.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	425.25
BRUSH SHREDDING	\$/AC	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
PEST - DORRAHT	\$/AC	61.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.00
TIE - NATALABOR	\$/AC	0.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.00
FUNG - BROWN ROT	\$/AC	0.00	20.25	0.00	0.00	20.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.50
INSECT. - THRIPS	\$/AC	0.00	0.00	25.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00
THINNING	\$/AC	0.00	0.00	0.00	396.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396.90
GIRDLING	\$/AC	0.00	0.00	0.00	51.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.17
NITROGEN	\$/AC	0.00	0.00	0.00	0.00	18.36	0.00	0.00	0.00	27.54	0.00	0.00	0.00	45.90
CONTRACT N AFFL.	\$/AC	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	3.50	0.00	0.00	0.00	7.00
DISTRICT WATER	\$/AC	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.00	0.00	0.00	0.00	0.00	14.00
WEED CONTROL	\$/AC	0.00	0.00	0.00	0.00	2.55	2.55	2.55	2.55	0.00	0.00	0.00	0.00	12.75
HERBICIDE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	20.00
PRE-EMERGE HERB	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	12.00
CONTR. HERB APPL	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	7.00
MISC. LABOR	\$/AC	1.73	1.73	1.77	1.73	1.73	1.77	1.73	1.73	1.77	1.73	1.73	1.77	21.00
CONTRACT PICK	\$/AC	0.00	0.00	0.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	600.00
CONTRACT HAUL	\$/AC	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00
PACKING CHARGES	\$/AC	0.00	0.00	0.00	0.00	0.00	1410.00	0.00	0.00	0.00	0.00	0.00	0.00	1410.00
SELLING CHARGES	\$/AC	0.00	0.00	0.00	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00	420.00
MISC HARV LABOR	\$/AC	0.00	0.00	0.00	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00
MACHINE LABOR COST	\$/AC	10.47	10.47	14.58	8.85	20.67	8.85	19.04	8.85	8.85	13.31	8.85	8.85	141.67
INTEREST ON OPER. CAP.	\$/AC	29.16	5.33	1.87	10.58	1.39	0.03	10.27	5.27	6.53	2.53	1.47	2.54	76.99
TRACTOR COST	\$/AC	1.24	1.24	4.34	0.60	8.95	0.60	7.71	0.60	0.60	3.38	0.60	0.60	26.86
EQUIPMENT COST	\$/AC	9.05	9.05	9.20	7.92	11.60	7.92	10.46	7.92	7.92	9.18	7.92	7.92	106.06
BLDG OPER. COST	\$/AC	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	5.10
IRRIGATION COST	\$/AC	0.00	0.00	0.00	5.07	5.07	8.00	0.00	12.67	5.07	0.00	0.00	0.00	27.88
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	5.90	5.90	11.60	11.60	11.60	5.90	0.00	0.00	0.00	53.10
TOTAL EXPENSES	\$/AC	548.35	124.12	57.20	488.57	125.40	251.36	90.99	51.22	70.07	30.55	20.40	40.52	4198.76

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
	HR/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MACHINE LABOR	HR/AC	1.78	1.78	2.47	1.50	3.50	1.50	3.23	1.50	1.50	2.26	1.50	1.50	24.01
IRRIGATION LABOR	HR/AC	0.60	0.60	0.60	1.60	1.60	2.00	2.00	2.00	1.60	0.60	0.60	0.60	9.60
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	4.00	4.00	0.00	0.00	10.00	4.00	0.00	0.00	0.00	22.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE														
MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	HRS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE	
						DEPR.	INTER.	TAX	FUEL	LUBE	REPAIRS	TOTAL		
TRACTOR 65HP	4	65.0	20000.	15.	300.	19.56	30.47	8.20	58.23	16.37	2.46	8.03	26.86	5.466
PICKUP 1/2 TON	14	0.5	10000.	7.	435.	36.67	30.30	7.76	74.75	72.00	10.60	12.22	75.02	15.060
IRRIG PUMP 15HP	21	1.0	7900.	25.	6400.	0.99	2.06	0.61	3.67	22.13	0.33	2.20	24.67	22.000
FURROW IRRIG SYS	53	1.0	14300.	10.	5000.	4.43	5.71	1.42	11.55	0.00	0.06	3.15	3.22	22.000
DISC-OFFSET	78	8.0	4000.	15.	100.	4.52	5.75	1.69	11.96	0.00	0.07	3.70	3.77	1.875
SFD SPRTR 500 GA	91	20.0	12500.	15.	60.	12.95	16.43	4.83	34.26	0.60	0.13	6.69	6.02	1.375
FURROWER 25HP/VEL	102	8.0	450.	15.	140.	0.33	0.42	0.12	0.68	0.00	0.01	0.44	0.45	1.719
FARM SHOP	1		4300.	35.		11.57	26.41	4.50	42.48	4.50		0.19	4.69	
TOOLS-SHOP EQUIP	4		3071.	15.		14.33	21.30	3.07	38.70	0.00		0.41	0.41	

MACHINERY & EQUIPMENT	7672.					105.39	138.90	32.20	276.49	115.00	13.87	37.04	165.91	
INVESTMENT & COSTS PER ACRE														
TOTAL INVESTMENT	76721.													

BASED ON 10 ACRES OF A 40 ACRE ORCHARD - 108 TREES/ACRE
 FURROW IRRIGATION: 44 AC. IN. TOTAL 50% DISTRICT WATER, 50% WELL WATER
 LAND OWNER BASIS YIELD: 600 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83
 DATE PRINTED: 02/28/83

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 47
 COSTS OF PRODUCING MAYGRAND NECTARINES (EARLY SEASON)
 TULARE, FRESNO AND KINGS COUNTIES
 BY J. LARUE, F. YOSHIKAWA, B. BEEDE AND K. KLONSKY

INCOME ABOVE VARIABLE COSTS
 WHEN THE PRICE OF NECTARINES RANGES FROM 6.00 TO 8.00
 AND THE QUANTITY OF NECTARINES RANGES FROM 400.00 TO 800.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	6.00	6.50	7.00	7.50	8.00
400.00	-1798.76	-1598.76	-1398.76	-1198.76	-998.76
500.00	-1198.76	-948.76	-698.76	-448.76	-198.76
600.00	-598.76	-298.76	1.24	301.24	601.24
700.00	1.24	351.24	701.24	1051.24	1401.24
800.00	601.24	1001.24	1401.24	1801.24	2201.24

INCOME ABOVE ALL CASH COSTS
 WHEN THE PRICE OF NECTARINES RANGES FROM 6.00 TO 8.00
 AND THE QUANTITY OF NECTARINES RANGES FROM 400.00 TO 800.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	6.00	6.50	7.00	7.50	8.00
400.00	-1981.33	-1781.33	-1581.33	-1381.33	-1181.33
500.00	-1381.33	-1131.33	-881.33	-631.33	-381.33
600.00	-781.33	-481.33	-181.33	118.67	418.67
700.00	-181.33	168.67	518.67	868.67	1218.67
800.00	418.67	818.67	1218.67	1618.67	2018.67

INCOME ABOVE ALL COSTS
 WHEN THE PRICE OF NECTARINES RANGES FROM 6.00 TO 8.00
 AND THE QUANTITY OF NECTARINES RANGES FROM 400.00 TO 800.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	6.00	6.50	7.00	7.50	8.00
400.00	-3478.14	-3278.14	-3078.14	-2878.14	-2678.14
500.00	-2878.14	-2628.14	-2378.14	-2128.14	-1878.14
600.00	-2278.14	-1978.14	-1678.14	-1378.14	-1078.14
700.00	-1678.14	-1328.14	-978.14	-628.14	-278.14
800.00	-1078.14	-678.14	-278.14	121.86	521.86

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 47
 COSTS OF PRODUCING MAYGRAND NECTARINES (EARLY SEASON)
 TULARE, FRESNO AND KINGS COUNTIES
 BY J. LARUE, F. YOSHIKAWA, B. BEEDE AND K. KLONSKY

FUEL USED IN GALLONS PER HOUR

TRACTOR 65HP	3.120
PICKUP 1/2 TON	4.000
IRRIG PUMP 15HP	9.190 (KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.200	
DISC-OFFSET	2.145	
FURROWER 2SHOVEL	1.966	TRACTOR 65HP
SPD SPRYR 500 GA	0.787	TRACTOR 65HP
FURROW IRRIG SYS	202.174 (KWHRS)	IRRIG PUMP 15HP

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISC-OFFSET	0.000	0.000	0.000	0.000	2.145	0.000	2.145	0.000	0.000	2.145	0.000	0.000	6.435	DIESEL
FURROWER 2SHOVEL	0.000	0.000	1.966	0.000	1.966	0.000	1.966	0.000	0.000	0.000	0.000	0.000	5.679	DIESEL
SPD SPRYR 500 GA	0.787	0.787	0.787	0.000	1.573	0.000	0.787	0.000	0.000	0.000	0.000	0.000	4.719	DIESEL
PICKUP 1/2 TON	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	60.000	GAS
FURROW IRRIG SYS	0.000	0.000	0.000	36.759	36.759	0.000	0.000	91.897	36.759	0.000	0.000	0.000	202.174	KWH
TOTALS	5.787	5.787	7.753	41.759	47.443	5.000	9.678	96.897	41.759	7.145	5.000	5.000	77.053	

GALLONS FUEL BY TYPE

60.00 GAS
 0.00 LP
 17.05 DIESEL
 0.00 N. GAS
 202.17 KWHRS

FUEL TYPES

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

MACHINERY OPERATIONS SUMMARY BUDGET RECORD NUMBER 47
 COSTS OF PRODUCING MAYGRAND NECTARINES (EARLY SEASON)
 TULARE, FRESNO AND KINGS COUNTIES
 BY J. LARUE, F. YOSHIKAWA, B. BEEDE AND K. KLONSKY

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL, OIL, FIXED	
						LUB., REP.	COSTS PER ACRE
DISC-OFFSET	4, 78	JULY	1.00	0.756	0.625	4.64	11.31
FURROWER 2SHOVEL	4, 102	JULY	1.00	0.693	0.573	3.25	7.01
SPD SPRYR 500 GA	4, 91	JULY	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	JULY	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	AUG	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	SEPT	25.00	1.500	1.250	7.92	6.23
DISC-OFFSET	4, 78	OCT	1.00	0.756	0.625	4.64	11.31
PICKUP 1/2 TON	14	OCT	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	NOV	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	DEC	25.00	1.500	1.250	7.92	6.23
SPD SPRYR 500 GA	4, 91	JAN	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	JAN	25.00	1.500	1.250	7.92	6.23
SPD SPRYR 500 GA	4, 91	FEB	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	FEB	25.00	1.500	1.250	7.92	6.23
FURROWER 2SHOVEL	4, 102	MAR	1.00	0.693	0.573	3.25	7.01
SPD SPRYR 500 GA	4, 91	MAR	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	MAR	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	APR	25.00	1.500	1.250	7.92	6.23
DISC-OFFSET	4, 78	MAY	1.00	0.756	0.625	4.64	11.31
FURROWER 2SHOVEL	4, 102	MAY	1.00	0.693	0.573	3.25	7.01
SPD SPRYR 500 GA	4, 91	MAY	2.00	0.555	0.458	4.75	16.79
PICKUP 1/2 TON	14	MAY	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	JUNE	25.00	1.500	1.250	7.92	6.23
TOTALS			24.012	19.969	160.09		

INSUFFICIENT STORAGE FOR 00016 254 PRE-EMERGE HERB
INSUFFICIENT STORAGE FOR 00016 53 FURROW IRRIG SYS

STORED DATA PAGE (NO CALCULATIONS) FOR NECTARINES

BUDGET RECORD NUMBER 47

COSTS OF PRODUCING RAYGRAND NECTARINES(EARLY SEASON)
TULARE,FRESNO AND KINGS COUNTIES
BY J. LARUE, F. YOSHIKAWA, B. BEEGE AND K. KLONSKY

COSTS AND RETURNS WILL BE
DIVIDED BY 600.0 LUGS
TO OBTAIN PER LUGS COSTS

LINE	MONTHS												PRICE	SHARE	UNIT	ITEM	TYPE	XXXX	
	1	2	3	4	5	6	7	8	9	10	11	12							
PRODUCTION	NUMBER OF UNITS																		
1 NECTARINES	0.00	0.00	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	27.	51.	2.	0.
OPERATING INPUTS	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV	
														RENT	CODE	CODE	CODE	CODE	
6 PRUNING	01.00	0.00	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 SHREDDING	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.000	0.000	7.	313.	3.	0.
8 FERT - CORNANT	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.000	0.000	7.	206.	3.	0.
9 TIE - RAT&LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.700	0.000	24.	342.	3.	0.
10 FUNG - BROWN ROT	0.00	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.300	0.000	7.	350.	3.	0.
11 INSECT. - THRIPS	0.00	0.00	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.000	0.000	7.	351.	3.	0.
13 THINNING	0.00	0.00	0.00	75.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	339.	3.	0.
15 BIRDING	0.00	0.00	0.00	9.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	341.	3.	0.
17 NITROGEN	0.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00	0.340	0.000	12.	211.	3.	0.
18 CONTRACT N APPL.	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	3.500	0.000	34.	300.	3.	0.
20 DISTRICT WATER	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	14.000	0.000	7.	448.	3.	0.
22 WEED CONTROL	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.00	12.750	0.000	7.	269.	3.	0.
23 MITICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.000	0.000	12.	247.	3.	0.
25 PRE-EMERGE HERB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	12.000	0.000	7.	254.	3.	0.
26 CONTR. HERB APPL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	7.000	0.000	34.	361.	3.	0.
28 MISC. LABOR	0.33	0.33	0.34	0.33	0.33	0.34	0.33	0.33	0.34	0.33	0.33	0.34	0.34	5.250	0.000	8.	252.	3.	0.
29 CONTRACT PICK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.000	0.000	7.	326.	3.	9.
30 CONTRACT HAUL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.100	0.000	27.	327.	3.	9.
31 PACKING CHARGES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.350	0.000	27.	150.	3.	9.
32 SELLING CHARGES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.700	0.000	27.	151.	3.	9.
33 MISC HARV LABOR	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	152.	3.	9.

MACHINERY REQUIREMENTS IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE # CREW POWER EACH TYPE HARV

													LABOR	UNIT	CODE	TYPE	HARV		
																	CODE		
35 DISC-OFFSET	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.000	0.000	4.	76.	4.	0.	
36 FURROWER 2SHOVEL	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	102.	4.	0.	
37 SPD SPRYR 500 GA	1.00	1.00	1.00	0.00	2.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	91.	4.	0.	
39 PICKUP 1/2 TON	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000	0.000	0.	14.	4.	0.	
													SHARE	SHARE	POWER	SYSN			
													FIXED	%	VAR	%	UNIT	CODE	LIFT
49 ACTH IRRIG WATER	0.00	0.00	0.00	4.00	4.00	0.00	0.00	10.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	21.	53.	70.	
50 NO. TIMES IRRIG	0.00	0.00	0.00	1.00	1.00	2.00	2.00	2.00	1.00	0.00	0.00	0.00	0.00						

EQUIPMENT REQUIREMENTS

	NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST		CODE		
52 FARM SHOP	1.000	0.250	0.	1.	5.	0.
53 TOOLS-SHOP EQUIP	1.000	0.250	0.	4.	5.	0.

COLUMNS --->

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE		NUMBER	VALUE OR	TAXES	PERENNIAL CROPS	
	RETRIGD		OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE
71	1.		10.00	5500.00	55.00	20.0	6440.90

ENTERPRISE 2-51 REGION/COUNTY 64 UNASSIGNED 0000 MACH COMP 7 IRRIG SYST 6 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 6

BASED ON 10 ACRES OF A 40 ACRE ORCHARD - 108 TREES/ACRE
 FURROW IRRIGATION: 44 AC. IRR. TOTAL SOX DISTRICT WATER, SOX WELL WATER MACHINERY COMPLEMENT 7
 LAND OWNER BASIS YIELD: 600 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83 EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE->	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
206 FERT - CORNANT	350 FUNG - BROWN ROT	351 INSECT. - THRIPS	342 TIE - RAT&LABOR	313 BRUSH SHREDDING	
339 THINNING	300 CONTRACT N APPL.	440 DISTRICT WATER	269 WEED CONTROL	361 CONTR. HERB APPL	
252 MISC. LABOR	326 CONTRACT PICK	327 CONTRACT HAUL	150 PACKING CHARGES	151 SELLING CHARGES	
152 MISC HARV LABOR					
MACHINRY NAME CHANGE->	4 TRACTOR 65HP	102 FURROWER 2SHOVEL	21 IRRIG PUMP 15HP		

EW CL	VALUE	EW CL	VALUE	EW CL	VALUE	EW CL	VALUE	EW CL	VALUE	EW CL	VALUE
MACH COMP CHGS-->	78. 2. 8.000000	78. 3. 4000.000000	78.13. 4000.000000	4. 2. 65.000000	4. 3.20000.000000	4.13.20000.000000					
	4.16. 65.000000	*** 2. 8.000000	*** 3. 450.000000	***13. 450.000000	53. 2. 1.00000053.	3.14300.000000					
	53.13.14300.000000	91. 2. 20.000000	91. 3.12500.000000	91.13.12500.000000	14. 3.10000.000000	14.13.10000.000000					
	21. 2. 1.000000	21. 3. 7900.000000	21.13. 7900.000000	21.16. 15.000000							
EQDAT COMP CHGS-->	1. 5.18000.000000	1. 6.18000.000000									
PARAMETER CHGS-->	10. 5.900000	12. 5.900000	18. 1.000000	20. 0.025000	11. 5.250000						