

COST & RETURNS SUMMARY FOR KIWIFRUIT
 TULARE, FRESNO & KINGS COUNTIES 1981
 BY J. LARUE, F. YOSHIKAWA & B. BEEDE, FARM ADVISORS - P. THOMAS SRA

KW-VS-81-5

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
KIWIFRUIT	FLAT	9.500	1942.000	18449.00	
TOTAL RECEIPTS:				18449.00	
2. VARIABLE COSTS:					
PREHARVEST:					
PRE-EMERGE HERB.	ACRE	30.000	1.000	30.00	
WEED CONTROL	ACRE	30.000	1.000	30.00	
PEST CONTROL	ACRE	20.000	1.000	20.00	
NITROGEN	LBS.	0.350	100.000	35.00	
DORMANT PRUNE	HOUR	5.000	80.500	402.50	
BRUSH SHREDDING	ACRE	10.000	1.000	10.00	
PRUNE-TIE-SUCKER	HOUR	5.000	11.500	57.50	
P-T-S MATERIALS	ACRE	10.000	1.000	10.00	
MISC. LABOR	HOUR	5.000	5.004	25.02	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			3.41	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			96.03	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			7.83	
IRRIGATION (POWER-LUBE-REP)	ACIN	4.105	30.700	126.04	
MACHINERY LABOR	HOUR	5.650	18.811	106.28	
IRRIGATION LABOR	HOUR	5.650	6.300	35.60	
INTEREST ON OPERATING CAP.	DOL.	0.14000	552.045	75.22	
TOTAL PREHARVEST COSTS:				1071.02	
PREHARVEST COST PER FLAT				0.5515	
HARVEST:					
PICK	FLAT	0.250	1942.000	485.50	
PACK	FLAT	2.250	1942.000	4369.50	
HAULING	FLAT	0.050	1942.000	97.10	
STORAGE -3 MOS	FLAT	0.750	1942.000	1456.50	
SELLING CHARGES	FLAT	0.950	1942.000	1844.90	
TOTAL HARVEST COSTS:				8253.50	
HARVEST COST PER FLAT				4.2500	
TOTAL VARIABLE COSTS:				9324.52	
VARIABLE COST PER FLAT				4.8015	
3. INCOME ABOVE VARIABLE COSTS:					
				9124.48	
INCOME PER FLAT				4.6985	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				9.10	
REAL PROPERTY TAXES:				50.00	
MISC. OFFICE & BOOKKEEPING (2.50% OF TOTAL VARIABLE COSTS)				233.11	
TOTAL OVERHEAD:				292.21	
OVERHEAD COST PER FLAT				0.1505	
TOTAL CASH COSTS:				9616.73	
TOTAL CASH COST PER FLAT				4.9520	
5. INCOME ABOVE ALL CASH COSTS:					
				8832.27	
INCOME PER FLAT				4.5480	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			40.01	
IRRIGATION SYSTEM	ACRE			132.18	
BUILDINGS	ACRE			298.90	
TREES, VINES OR STAND	ACRE			355.27	
TOTAL DEPRECIATION:				826.87	
CAPITAL & INTEREST:					
MACHINERY&EQUIPMENT		0.14000	250.895	35.13	
IRRIGATION SYSTEM		0.14000	730.417	102.26	
BUILDINGS		0.10670	1812.131	193.35	
TREES, VINES OR STAND		0.10670	10673.000	569.40	
LAND		0.10670	5500.000	586.85	
TOTAL INTEREST CHARGE:				1486.99	
TOTAL FIXED COSTS:				2313.86	
FIXED COST PER FLAT				1.1915	
7. TOTAL OF ABOVE COSTS:					
				11930.59	
TOTAL COST PER FLAT				6.1435	
8. NET RETURNS:					
				6518.41	
NET RETURNS PER FLAT				3.3365	

5 ACRES KIWIFRUIT OF 40 ACRE ORCHARD OR VINEYARD
 FOGGER/MISTER IRRIGATION SYSTEM - WELL WATER
 LANDOWNER BASIS NO FROST PROTECTION
 DATE PRINTED: 11/20/81 HARVEST MONTH: 11

UC Cooperative Extension

UPDATED 11/20/81
 BUDGET RECORD NUMBER 202

CASH FLOW & INVESTMENT SUMMARY FOR KIWI FRUIT

BUDGET RECORD NUMBER 202

PRODUCTION COSTS FOR KIWI FRUIT
TULARE, FRESNO & KINGS COUNTIES 1981
BY J. LARUE, F. YOSHIKAWA & B. BEEDE, FARM ADVISORS - P. THOMAS SRA

MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

CATEGORY	UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL RECEIPTS	\$/AC										18449.00			18449.00
OPERATING EXPENSES														
PRE-EMERGE HERB.	\$/AC					6.00	6.00	6.00	6.00	6.00		30.00		30.00
WEED CONTROL	\$/AC					6.00	6.00	6.00	6.00	6.00				30.00
PEST CONTROL	\$/AC					6.00	6.00	20.00						20.00
NITROGEN	\$/AC					7.00	7.00	7.00	7.00	7.00				35.00
DORMANT PRUNE	\$/AC	402.50												402.50
BRUSH SHREDDING	\$/AC	10.00												10.00
PRUNE-TIE-SUCKER	\$/AC					11.50	11.50	11.50	11.50	11.50				57.50
P-T-S MATERIALS	\$/AC					2.00	2.00	2.00	2.00	2.00				10.00
MISC. LABOR	\$/AC	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	25.02
PICK	\$/AC											485.50		485.50
PACK	\$/AC										6369.50			4369.50
HAULING	\$/AC											97.10		97.10
STORAGE -3 MOS	\$/AC											1456.50		1456.50
SELLING CHARGES	\$/AC											1844.90		1844.90
MACHINE LABOR COST	\$/AC	8.48	8.48	8.48	10.77	8.48	8.48	8.48	8.48	8.48	8.48	10.77	8.48	106.28
INTEREST ON OPER. CAP.	\$/AC	49.81	1.98	1.75	2.51	4.31	4.28	4.32	2.55	1.58	0.36	0.01	2.36	75.82
TRACTOR COST	\$/AC					1.70						1.70		3.41
EQUIPMENT COST	\$/AC	7.92	7.92	7.92	8.42	7.92	7.92	7.92	7.92	7.92	7.92	8.42	7.92	96.03
BLDG OPER. COST	\$/AC	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	7.83
IRRIGATION COST	\$/AC				6.16	13.96	23.81	24.22	23.81	20.12	9.85	4.11		126.04
IRRIG LABOR COST	\$/AC				1.69	3.95	6.78	6.78	6.78	5.65	2.83	1.13		35.60
TOTAL EXPENSES	\$/AC	481.44	21.11	20.89	33.99	67.85	80.51	100.95	78.77	72.98	32.17	32.37	21.49	9324.52

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

	HR/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MACHINE LABOR	HR/AC	1.50	1.50	1.50	1.91	1.50	1.50	1.50	1.50	1.50	1.50	1.91	1.50	18.81
IRRIGATION LABOR	HR/AC				0.30	0.70	1.20	1.20	1.20	1.00	0.50	0.20		6.30
IRRIG. WATER APPLIED	ACIN				1.50	3.40	5.80	5.90	5.80	4.90	2.40	1.00		30.70

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 65HP	4	65.0	16000.	15.	300.	2.11	3.29	0.88	6.28	2.21	0.33	0.87	3.41	0.737
PICKUP 1/2 TON	14	0.5	10000.	7.	435.	36.69	30.30	7.76	74.75	72.00	10.80	12.22	95.02	15.000
WELL PUMP 71/2HP	21	0.2	1900.	10.	750.	36.40	28.16	8.62	73.18	55.84	0.84	13.10	69.78	151.232
MISTER IRIG SYS#	56	0.2	5000.	10.	750.	95.78	74.10	22.68	192.57	0.00	1.10	55.15	56.26	151.232
DISC-OFFSET	78	10.0	3000.	15.	100.	1.21	1.54	0.45	3.21	0.00	0.02	0.99	1.01	0.670
FARM SHOP	1		2250.	35.		11.57	26.41	4.50	42.48	4.50		0.19	4.69	
TOOLS-SHOP EQUIP	4		1536.	15.		14.33	21.30	3.07	38.70	0.00		0.41	0.41	
TRELLIS	74		13650.	10.		273.00	145.65	27.30	445.95	0.00		2.73	2.73	

MACHINERY & EQUIPMENT	10667.					471.10	330.74	75.27	877.11	134.55	13.09	85.66	233.30
INVESTMENT & COSTS PER ACRE													
TOTAL INVESTMENT	53336.												

5 ACRES KIWI FRUIT OF 40 ACRE ORCHARD OR VINEYARD
FOGGER/MISTER IRRIGATION SYSTEM - WELL WATER
LANDOWNER BASIS NO FROST PROTECTION
DATE PRINTED: 11/20/81

UC Cooperative Extension

UPDATED 11/20/81

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 202
 PRODUCTION COSTS FOR KIWIFRUIT
 TULARE, FRESNO & KINGS COUNTIES 1981
 BY J. LARUE, F. YOSHIKAWA & B. BEEDE, FARM ADVISORS - P. THOMAS SRA

FUEL USED IN GALLONS PER HOUR

TRACTOR 65HP	3.120	
PICKUP 1/2 TON	4.000	
WELL PUMP 71/2HP	6.263	(KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.200	
DISC-OFFSET	1.716	
MISTER IRIG SYS*	947.134 (KWHRS)	TRACTOR 65HP WELL PUMP 71/2HP

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	1.150	0.000	0.000	0.000	0.000	0.000	0.000	1.150	0.000	2.299	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
MISTER IRIG SYS*	0.000	0.000	0.000	46.277	104.894	178.937	182.023	178.937	151.171	74.043	30.851	0.000	947.134	KWH
TOTALS	5.000	5.000	5.000	52.427	109.894	183.937	187.023	183.937	156.171	79.043	37.001	5.000	62.299	

GALLONS FUEL BY TYPE

60.00 GAS
 0.00 LP
 2.30 DIESEL
 0.00 N. GAS

947.13 KWHRS
 5 ACRES KIWIFRUIT OF 40 ACRE ORCHARD OR VINEYARD
 FOGGER/MISTER IRRIGATION SYSTEM - WELL WATER
 LANDOWNER BASIS NO FROST PROTECTION
 DATE PRINTED: 11/20/81

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

UPDATED 11/20/81

MACHINERY OPERATIONS SUMMARY
 PRODUCTION COSTS FOR KIWIFRUIT
 TULARE, FRESNO & KINGS COUNTIES 1981
 BY J. LARUE, F. YOSHIKAWA & B. BEEDE, FARM ADVISORS - P. THOMAS SRA

BUDGET RECORD NUMBER 202

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR	MACHINE HOURS	FUEL, OIL, FIXED		
						LUB., REP. PER ACRE	COSTS PER ACRE	
PICKUP 1/2 TON	14	DEC	25.00	1.500	1.250	7.92	6.23	
PICKUP 1/2 TON	14	JAN	25.00	1.500	1.250	7.92	6.23	
PICKUP 1/2 TON	14	FEB	25.00	1.500	1.250	7.92	6.23	
PICKUP 1/2 TON	14	MAR	25.00	1.500	1.250	7.92	6.23	
DISC-OFFSET	4,	78	APR	0.67	0.405	0.335	2.21	4.74
PICKUP 1/2 TON	14	APR	25.00	1.500	1.250	7.92	6.23	
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	
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	
PICKUP 1/2 TON	14	OCT	25.00	1.500	1.250	7.92	6.23	
DISC-OFFSET	4,	78	NOV	0.67	0.405	0.335	2.21	4.74
PICKUP 1/2 TON	14	NOV	25.00	1.500	1.250	7.92	6.23	
TOTALS				18.811	15.670	99.44	84.24	

5 ACRES KIWIFRUIT OF 40 ACRE ORCHARD OR VINEYARD
 FOGGER/MISTER IRRIGATION SYSTEM - WELL WATER
 LANDOWNER BASIS NO FROST PROTECTION
 DATE PRINTED: 11/20/81

UPDATED 11/20/81

UC Cooperative Extension

INSUFFICIENT STORAGE FOR 0001GE 475 BRUSH SHREDDING
INSUFFICIENT STORAGE FOR 0001GE 350 PEST CONTROL
INSUFFICIENT STORAGE FOR 0001GE 56 MISTER IRIG SYS*
INSUFFICIENT STORAGE FOR 0001GE 74 TRELLIS

STORED DATA PAGE (NO CALCULATIONS) FOR KIWIFRUIT

BUDGET RECORD NUMBER 202

PRODUCTION COSTS FOR KIWIFRUIT
TULARE, FRESNO & KINGS COUNTIES 1981
BY J. LARUE, F. YOSHIKAWA & B. BEEDE, FARM ADVISORS - P. THOMAS SRA

COSTS AND RETURNS WILL BE
DIVIDED BY 1942.0 FLAT
TO OBTAIN PER FLAT COSTS

Table with columns: LINE, PRODUCTION, OPERATING INPUTS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, PRICE, SHARE, UNIT, ITEM, TYPE, XXXX. Rows include 1 KIWIFRUIT, 15 PRE-EMERGE HERB., 16 WEED CONTROL, 17 PEST CONTROL, 18 NITROGEN, 19 DORMANT PRUNE, 20 BRUSH SHREDDING, 21 PRUNE-TIE-SUCKER, 22 P-T-S MATERIALS, 25 MISC. LABOR, 31 PICK, 32 PACK, 33 HAULING, 34 STORAGE - 3 NOS, 35 SELLING CHARGES.

Table with columns: MACHINERY REQUIREMENTS, IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE, # CREW, POWER, MACH, TYPE, HARV. Rows include 26 DISC-OFFSET, 30 PICKUP 1/2 TON, 49 IN IRRIG WATER, 5 TIMES IRRIG.

Table with columns: EQUIPMENT REQUIREMENTS, NUMBER UNITS, PROPORT OF COST, XXX, EQUIP CODE, TYPE, XXXX. Rows include 52 FARM SHOP, 53 TOOLS-SHOP EQUIP, 54 TRELLIS COLUMNS --->, LAND REQUIREMENTS, 71 ENTERPRISE 2-48 REGION/COUNTY 64 UNASSIGNED 00000 MACH COMP 7 IRIG SYST 5 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 11.

5 ACRES KIWIFRUIT OF 40 ACRE ORCHARD OR VINEYARD
FOGGER/MISTER IRRIGATION SYSTEM - WELL WATER
LANDOWNER BASIS NO FROST PROTECTION

UPDATED 11/20/81
MACHINERY COMPLEMENT 7
EQUIPMENT COMPLEMENT 1

Table with columns: LINE CHANGE, GENERAL NAME CHANGE->, MACHNRY NAME CHANGE->. Rows include 99 DORMANT PRUNE, 296 PICK, 297 PACK, 298 HAULING, 299 STORAGE -3 NOS, 393 P-T-S MATERIALS, 269 WEED CONTROL, 448 DISTRICT WATER, 394 PRE-EMERGE HERB., 352 MISC. LABOR, 300 CONTRACT N APPL., 261 SELLING CHARGES, 48 KIWIFRUIT, 203 VINES, 206 PRUNE-TIE-SUCKER, 4 TRACTOR 65HP, 102 FURROWER 25HOVEL, 21 WELL PUMP 71/2HP, 53 FURROW IRIG SYS*.

Table with columns: MACH COMP CHGS-->, RW CL, VALUE, RW CL, VALUE, RW CL, VALUE, RW CL, VALUE, RW CL, VALUE, RW CL, VALUE. Rows include 78. 2., 10.000000, 78. 3., 3000.000000, 78.13., 3000.000000, 4. 2., 65.000000, 4. 3., 16000.000000, 4.13., 16000.000000, 4.16., 65.000000, 2., 8.000000, 3., 450.000000, 13., 450.000000, 21. 3., 1900.000000, 21.13., 1900.000000, 21.16., 7.500000, 53. 3., 13300.000000, 53.13., 13300.000000, 91. 2., 20.000000, 91. 3., 12500.000000, 91.13., 12500.000000, 14. 3., 10000.000000, 14.13., 10000.000000, 21. 2., 0.203000, 53. 2., 1.000000, 21.10., 10.000000, 21. 9., 750.000000, 21.11., 0.115000, 53.10., 20.000000, 53. 9., 720.000000, 53.11., 0.265000, 21. 4., 10.000000, 21. 5., 0.825000, 21.14., 5.000000, 21.15., 6300.000000, 22. 2., 0.160000, 22. 3., 2000.000000, 22. 4., 10.000000, 22. 5., 0.825000, 22. 9., 625.000000, 22.10., 20.000000, 22.13., 2000.000000, 22.14., 5.000000, 22.15., 12500.000000, 22.16., 5.000000, 56. 2., 0.203000, 56. 3., 5000.000000, 56. 9., 750.000000, 56.10., 10.000000, 56.13., 5000.000000, 56.15., 6300.000000, 56.11., 0.115000, 1. 6., 18000.000000, 74. 2., 1.000000, 74. 3., 22.000000, 74. 5., 13650.000000, 74. 6., 13650.000000, 74. 7., 10.000000, 74. 8., 0.000000, 74. 9., 0.010000, 74.10., 0.000000, 74.11., 0.000000, 10., 5.650000, 12., 5.650000, 18., 0.100000, 28., 0.025000.

Production Costs for Kiwifruit

Tulare, Fresno and Kings Counties 1981

By J. LaRue, F. Yoshikawa and B. Beede, Farm Advisors - P. Thomas, SRA

5 acres Kiwifruit of 40 acre orchard or vineyard
Fogger/mister irrigation system - well water
Land owner basis No frost protection

Cost Estimate Assumptions

1. See Establishment budgets #321-324
2. Weed control:
 - November - pre-emergence herbicide (berms only)
Materials + contract application \$30.00/acre
 - May - Sept. - hand hoeing and other means of weed control (berms only)
\$30.00/acre
\$30/acre for 5 months or \$6.00/acre each month
 - April & Nov. - disc centers, between berms
offset disc pulled by 65 hp diesel tractor -
(covers 10' in pass - only 2/3 of vineyard)
3. Pest control in July:
 - Control for OLR (omnivorous leaf roller) ~~see page 11~~
Materials + contract application \$20.00/acre
4. Fertilizer:
 - Nitrogen is injected into the irrigation system
Costs divided equally among months May-September
100 lbs N/acre or 20 lbs each month
Cost of nitrogen \$.35/lb
5. Irrigation:
 - All of the water is pumped from a well with 7-1/2 hp pump. Assuming 100 ft lift needed to bring water to the surface plus 35 ft. lift (15 PSI) additional pressure needed for the mister/fogger system for a total of 135 ft lift.
 - The irrigation system and pump is assumed to be only used for the Kiwifruit and not used for the other crops grown.
 - Two 4 gallon emitters used for a total of 8 gal/hr/vine
8 gal/hr/vine x 12 hrs = 96 gal/tree x 138 vines/acre = 13,248 gal/ac/irrig.

Irrigation Schedule:

Month	days apart	# irrig	gal/A	ac.in/A
April	10	3x	39,744	1.46
May	4	7x	92,736	3.42
June	2-3	12x	158,976	5.85
July	2-3	12x	158,976	5.85
August	2-3	12x	158,976	5.85
September	3	10x	132,480	4.88
October	6	5x	66,240	2.44
November	15	2x	26,496	.99
		63x	834,624	30.74

Note: 1 acre inch = 27,154 gallons
Irrigation labor: .1 hrs/application/acre

6. Prune, tie, sucker:

January - Dormant prune

35 min/vine x 138 vines/acre ($\div 60$ min/hr) = 80.5 hrs/acre

80.5 hrs/acre @ \$5.00/hr = \$402.50/acre

Brush shredding - contract \$10.00/acre

May through September - Prune, tie, sucker

5 min/vine x 138 vines/acre ($\div 60$ min/hr) == 11.5 hrs/acre

11.5 hrs/acre @ \$5.00/hr = \$57.50/acre

Materials costs - \$10/acre for each year

Costs divided equally among months May through September

7. Harvest in November:

Assuming full production in 7th year and partial production in years 3-6.

<u>year</u>	<u>tons/acre</u>	<u>%cull</u>	<u>Packed flats/acre</u>
3	.25	30	50
4	2.00	25	428
5	4.00	20	914
6	6.5	15	1,578
7	8.00	15	1,942

Price: \$9.50/packed flat

Harvest costs:

	<u>\$/acre</u>					
	<u>per flat</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>
Picking	.25	12.50	107.00	228.50	394.50	485.50
Packing	2.25	112.50	963.00	2,056.50	3,550.50	4,369.50
Hauling	.05	2.50	21.40	45.70	78.90	97.10
Storage	.75	37.50	321.00	685.50	1,183.50	1,456.50
.25/flat/mo for 3 months						
Selling	.95	47.50	406.60	868.30	1,499.10	1,844.90
10% selling price						
Total	4.25	212.50	1,819.00	3,884.50	6,706.50	8,253.50

8. Misc labor:

5 hrs/acre @ \$5.00/hr = \$25/acre

25 min charged each month for 12 months

(.417 hr)

9. Pickup: costs based on 25 miles/acre/month

10. Labor rates include benefits:

Machinery operators \$5.65/hr

Irrigators \$5.65/hr

Misc. labor \$5.00/hr

11. Buildings and equipment:

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

Tools and shop equipment \$12,285

Proportion allocated to Kiwifruit is 25% of above

12. Land owned:

Land value \$5,500/acre Land tax \$50.00/acre

13. Bookkeeping and misc office: 2.5% of total variable costs

14. Machinery costs calculated by computer:

For self-propelled machinery and implements, the width, speed, field efficiency and number of passes in the orchard are all used in determining the number of hours necessary to complete an operation. Tractor hours are then calculated by taking into consideration all implements pulled.

Per hour cost of depreciation, interest, taxes, insurance, repairs, fuel, and lube are calculated by the computer using purchase price, annual hours of usage, years of life, etc. and this rate is multiplied by the total hours of usage for each machine and equipment.

15. Establishment costs/acre

year 1	Budget Record #321	\$ 4,223	
year 2	Budget Record #322	1,981	
year 3	Budget Record #323	2,146	(harvest costs not included)
year 4	Budget Record #324	<u>2,323</u>	(harvest costs not included)
		\$ 10,673	