

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
ALFALFA HAY	TON	100.000	2.000	200.00	
TOTAL RECEIPTS:				200.00	
2. VARIABLE COSTS:					
PREHARVEST:					
CUSTOM LANDLEVEL	ACRE	15.000	1.000	15.00	
CUSTOM CHISEL	ACRE	20.000	1.000	20.00	
SINGLE-SUPR PHOS	TON	130.000	0.250	32.50	
SULPHUR	TON	106.000	0.125	13.25	
CUSTOM FERT APP	ACRE	3.500	2.000	7.00	
PRE-PLANT HERB	QT.	3.000	3.000	9.00	
CUSTOM DISC	ACRE	15.000	4.000	60.00	
ALFALFA HAY SEED	LBS.	2.750	20.000	55.00	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			2.16	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			0.33	
IRRIGATION (POWER-LUBE-REP)	ACIN	1.809	36.000	65.14	
IRRIGATION LABOR	HOUR	3.500	5.010	17.54	
INTEREST ON OPERATING CAP.	DOL.	0.14000	159.581	21.93	
TOTAL PREHARVEST COSTS:				318.85	
PREHARVEST COST PER TON				159.4255	
HARVEST:					
WIRE	TON	3.000	2.000	6.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			5.99	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			7.03	
MACHINERY LABOR	HOUR	3.500	3.651	12.78	
INTEREST ON OPERATING CAP.	DOL.	0.14000	5.133	0.22	
TOTAL HARVEST COSTS:				32.52	
HARVEST COST PER TON				16.2582	
TOTAL VARIABLE COSTS:				351.37	
VARIABLE COST PER TON				175.6842	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER TON				-151.37	
				-75.6842	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				4.67	
REAL PROPERTY TAXES:				6.00	
MISC. OFFICE & BOOKKEEPING (1.00% OF TOTAL VARIABLE COSTS)				3.51	
TOTAL OVERHEAD:				14.19	
OVERHEAD COST PER TON				7.0939	
TOTAL CASH COSTS:				365.56	
TOTAL CASH COST PER TON				182.7781	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER TON				-165.56	
				-82.7781	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			13.00	
IRRIGATION SYSTEM	ACRE			28.07	
BUILDINGS	ACRE			6.63	
TOTAL DEPRECIATION:				47.70	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.14000	114.950	16.09	
IRRIGATION SYSTEM		0.14000	321.661	45.03	
BUILDINGS		0.10670	88.453	9.44	
LAND		0.10670	600.000	64.02	
TOTAL INTEREST CHARGE:				134.58	
TOTAL FIXED COSTS:				182.28	
FIXED COST PER TON				91.1419	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER TON				547.84	
				273.9199	
8. NET RETURNS:					
NET RETURNS PER TON				-347.84	
				-173.9199	

160 ACRES ALFALFA ON 320 ACRE RANCH
 MANAGEMENT FEE OF 5% OF CASH COSTS MAY BE INCLUDED IF APPLICABLE
 8 YEAR STARD -- 2 TON YIELD 1ST YEAR - 8 TON IN YEARS 2 THRU 8
 DATE PRINTED: 11/09/80 HARVEST MONTH: 9
 updated 11/09/80 BUDGET RECORD NUMBER 195

1980 default data

CASH FLOW & INVESTMENT SUMMARY FOR ALFALFA HAY

BUDGET RECORD NUMBER 195

COST OF ESTABLISHING ALFALFA HAY BY D. MARCUM, FARM ADVISOR - P. THOMAS, SRA
 FALL RIVER VALLEY AND BIG VALLEY (SHASTA-LASSEN) 1980
 WHEEL LINE SPRINKLER -- LAND OWNER BASIS

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	100.00	0.00	100.00	0.00	0.00	0.00	200.00
OPERATING EXPENSES														
CUSTOM LANDLEVEL	\$/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 CHISEL	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	20.00
SINGLE-SUPR PHOS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.50	0.00	0.00	32.50
SULPHUR	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.00	13.25
CUSTOM FERT APP	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	7.00
PRE-PLANT HERB	\$/AC	0.00	0.00	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00
CUSTOM DISC	\$/AC	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	60.00
ALFALFA HAY SEED	\$/AC	0.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
WIRE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	0.00	0.00	0.00	6.00
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	0.00	6.01	0.00	3.38	0.00	3.38	0.00	0.00	0.00	12.78
INTEREST ON OPER. CAP.	\$/AC	0.00	0.00	0.00	0.00	6.16	0.64	0.63	0.19	0.00	15.03	0.00	0.00	22.65
TRACTOR COST	\$/AC	0.00	0.00	0.00	0.00	3.92	0.00	1.03	0.00	1.03	0.00	0.00	0.00	5.99
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	0.00	2.16	0.00	3.52	0.00	3.52	0.00	0.00	0.00	9.19
BLDG OPER. COST	\$/AC	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.33
IRRIGATION COST	\$/AC	0.00	0.00	0.00	0.00	14.48	14.48	14.48	14.48	7.24	0.00	0.00	0.00	65.14
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	0.00	7.01	4.68	2.34	2.34	1.17	0.00	0.00	0.00	17.54
TOTAL EXPENSES	\$/AC	0.00	0.00	0.00	0.00	143.74	19.85	28.43	17.06	19.40	132.83	0.00	0.00	351.37

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	0.00	0.00	0.00	0.00	1.72	0.00	0.97	0.00	0.97	0.00	0.00	0.00	
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	0.00	2.00	1.34	0.67	0.67	0.33	0.00	0.00	0.00	
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	0.00	8.00	8.00	8.00	8.00	4.00	0.00	0.00	0.00	36.00

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					TOTAL	HRS PER ACRE
						DEPR.	INTER.	TAX \$INS	FUEL	LUBE	REPAIRS	TOTAL			
TRAC 30HP USED	1	30.0	2000.	20.	600.	0.11	0.19	0.06	0.36	1.02	0.15	0.18	1.35	0.736	
TRAC 40HP USED	2	40.0	4000.	20.	600.	0.52	0.94	0.27	1.73	3.29	0.49	0.86	4.64	1.785	
SP BALE PICKUP*	19	8.0	12000.	10.	100.	2.50	2.45	0.68	5.63	0.77	0.12	0.77	1.66	0.250	
IRR PUMP 75 HP*	22	2.0	25000.	25.	3200.	11.33	23.49	6.96	41.78	39.98	0.60	6.34	46.92	39.600	
SWATHER	34	12.0	10000.	15.	100.	2.90	3.70	1.08	7.68	1.48	0.22	1.57	3.28	0.481	
CULTIPACKER	47	10.0	1860.	15.	70.	0.26	0.33	0.10	0.68	0.00	0.00	0.11	0.12	0.160	
SPIKE HARROW	71	10.0	1150.	15.	200.	0.14	0.18	0.05	0.36	0.00	0.01	0.27	0.28	0.398	
SPRAYER	93	15.0	2040.	15.	100.	0.47	0.60	0.18	1.25	0.00	0.01	0.26	0.26	0.385	
GRAIN DRILL	105	10.0	6000.	15.	60.	1.91	2.43	0.71	5.06	0.00	0.03	1.36	1.39	0.317	
SIDE DELIV RAKE	124	8.0	2400.	15.	150.	0.49	0.63	0.18	1.30	0.00	0.03	1.70	1.73	0.509	
SIDEROVE TOW*	129	1.0	30000.	10.	5000.	16.74	21.54	5.35	43.63	0.00	0.36	17.86	18.22	39.600	
BALERS WIRE*	140	5.5	7800.	15.	50.	3.44	4.33	1.28	9.05	0.00	0.01	0.36	0.37	0.364	
HAY STORAGE	42		17550.	20.		4.94	6.44	1.10	12.47	0.00		0.05	0.05		
FARM SHOP	1		3750.	35.		0.60	1.38	0.23	2.21	0.23		0.01	0.24		
TOOLS-SHOP EQUIP	4		3750.	15.		1.09	1.63	0.23	2.95	0.00		0.03	0.03		

MACHINERY & EQUIPMENT 608. 47.44 70.24 18.45 136.13 46.77 2.02 31.74 80.54

INVESTMENT & COSTS PER ACRE
 TOTAL INVESTMENT 129300.

160 ACRES ALFALFA ON 320 ACRE RANCH
 MANAGEMENT FEE OF 5% OF CASH COSTS MAY BE INCLUDED IF APPLICABLE
 8 YEAR STARD -- 2 TON YIELD 1ST YEAR - 6 TON IN YEARS 2 THRU 8

updated: 11/29/80
 UC Cooperative Extension

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 195
 COST OF ESTABLISHING ALFALFA HAY BY D. MARCUM, FARM ADVISOR - P. THOMAS, SRA
 FALL RIVER VALLEY AND BIG VALLEY (SHASTA-LASSEN) 1980
 WHEEL LINE SPRINKLER -- LAND OWNER BASIS

FUEL USED IN GALLONS PER HOUR

TRAC 30HP USED	1.440	
TRAC 40HP USED	1.920	
SP BALE PICKUP*	3.200	
IRR PUMP 75 HP*	8.951	(KWHRS)
SWATHER	3.200	

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
SP BALE PICKUP*	0.400	
SWATHER	0.770	
SPRAYER	0.812	TRAC 40HP USED
CULTIPACKER	0.338	TRAC 40HP USED
SPIKE HARROW	0.840	TRAC 40HP USED
GRAIN DRILL	0.670	TRAC 40HP USED
CULTIPACKER	0.253	TRAC 30HP USED
BALER3 WIRE*	0.384	TRAC 40HP USED
SIDE DELIV RAKE	0.403	TRAC 30HP USED
SIDEROVE TOW*	354.462	IRR PUMP 75 HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
SPRAYER	0.000	0.000	0.000	0.000	0.812	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.812	DIESEL
CULTIPACKER	0.000	0.000	0.000	0.000	0.338	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.338	DIESEL
SPIKE HARROW	0.000	0.000	0.000	0.000	0.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.840	DIESEL
GRAIN DRILL	0.000	0.000	0.000	0.000	0.670	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.670	DIESEL
CULTIPACKER	0.000	0.000	0.000	0.000	0.253	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.253	DIESEL
SWATHER	0.000	0.000	0.000	0.000	0.000	0.000	0.770	0.000	0.770	0.000	0.000	0.000	1.541	DIESEL
BALER3 WIRE*	0.000	0.000	0.000	0.000	0.000	0.000	0.384	0.000	0.384	0.000	0.000	0.000	0.768	DIESEL
SIDE DELIV RAKE	0.000	0.000	0.000	0.000	0.000	0.000	0.403	0.000	0.403	0.000	0.000	0.000	0.807	DIESEL
SP BALE PICKUP*	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.400	0.000	0.000	0.000	0.800	DIESEL
SIDE TOW*	0.000	0.000	0.000	0.000	78.769	78.769	78.769	78.769	39.385	0.000	0.000	0.000	354.462	KWH
TOTALS	0.000	0.000	0.000	0.000	81.682	78.769	80.727	78.769	41.342	0.000	0.000	0.000	6.828	

GALLONS FUEL BY TYPE
 0.00 GAS
 0.00 LP
 6.83 DIESEL
 0.00 N. GAS
 354.46 KWHRS

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

MACHINERY OPERATIONS SUMMARY BUDGET RECORD NUMBER 195
 COST OF ESTABLISHING ALFALFA HAY BY D. MARCUM, FARM ADVISOR - P. THOMAS, SRA
 FALL RIVER VALLEY AND BIG VALLEY (SHASTA-LASSEN) 1980
 WHEEL LINE SPRINKLER -- LAND OWNER BASIS

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR S	MACHINE HOURS	FUEL, OIL, LUB., REP. PER ACRE	FIXED COSTS PER ACRE
SPRAYER	2,	93 MAY	1.00	0.465	0.385	1.36	1.66
CULTIPACKER	2,	47 MAY	1.00	0.193	0.160	0.57	0.85
SPIKE HARROW	2,	71 MAY	1.00	0.481	0.398	1.42	0.79
GRAIN DRILL	2,	105 MAY	1.00	0.384	0.317	2.30	5.40
CULTIPACKER	1,	47 MAY	1.00	0.193	0.160	0.44	0.76
SWATHER		34 JULY	1.00	0.000	0.241	1.64	3.84
BALER3 WIRE*	2,	140 JULY	1.00	0.220	0.182	0.70	4.72
SIDE DELIV RAKE	1,	124 JULY	1.00	0.308	0.255	1.38	0.79
SP BALE PICKUP*		19 JULY	1.00	0.150	0.125	0.83	2.81
SWATHER		34 SEPT	1.00	0.000	0.241	1.64	3.84
BALER3 WIRE*	2,	140 SEPT	1.00	0.220	0.182	0.70	4.72
SIDE DELIV RAKE	1,	124 SEPT	1.00	0.308	0.255	1.38	0.79
SP BALE PICKUP*		19 SEPT	1.00	0.150	0.125	0.83	2.81
TOTALS				3.074	3.024	15.18	33.76

160 ACRES ALFALFA ON 320 ACRE RANCH
 MANAGEMENT FEE OF 5% OF CASH COSTS MAY BE INCLUDED IF APPLICABLE
 8 YEAR STARD -- 2 TON YIELD 1ST YEAR - 6 TON IN YEARS 2 THRU 8

Updated: 11/09/80

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 195
 COST OF ESTABLISHING ALFALFA HAY BY D. MARCUM, FARM ADVISOR - P. THOMAS, SRA
 FALL RIVER VALLEY AND BIG VALLEY (SHASTA-LASSEN) 1980
 WHEEL LINE SPRINKLER -- LAND OWNER BASIS

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY		RANGES FROM RANGES FROM		80.00 TO 0.00 TO	120.00 4.00	
PRICE OF ALFALFA HAY		PRICE OF ALFALFA HAY				
		80.00	90.00	100.00	110.00	120.00

QUANTITY OF ALFALFA HAY	0.00 *	-351.37	-351.37	-351.37	-351.37	-351.37
	*					
	1.00 *	-271.37	-261.37	-251.37	-241.37	-231.37
	*					
	2.00 *	-191.37	-171.37	-151.37	-131.37	-111.37
*						
3.00 *	-111.37	-81.37	-51.37	-21.37	8.63	
*						
4.00 *	-31.37	8.63	48.63	88.63	128.63	
*						

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY		RANGES FROM RANGES FROM		80.00 TO 0.00 TO	120.00 4.00	
PRICE OF ALFALFA HAY		PRICE OF ALFALFA HAY				
		80.00	90.00	100.00	110.00	120.00

QUANTITY OF ALFALFA HAY	0.00 *	-365.56	-365.56	-365.56	-365.56	-365.56
	*					
	1.00 *	-285.56	-275.56	-265.56	-255.56	-245.56
	*					
	2.00 *	-205.56	-185.56	-165.56	-145.56	-125.56
*						
3.00 *	-125.56	-95.56	-65.56	-35.56	-5.56	
*						
4.00 *	-45.56	-5.56	34.44	74.44	114.44	
*						

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY		RANGES FROM RANGES FROM		80.00 TO 0.00 TO	120.00 4.00	
PRICE OF ALFALFA HAY		PRICE OF ALFALFA HAY				
		80.00	90.00	100.00	110.00	120.00

QUANTITY OF ALFALFA HAY	0.00 *	-547.84	-547.84	-547.84	-547.84	-547.84
	*					
	1.00 *	-467.84	-457.84	-447.84	-437.84	-427.84
	*					
	2.00 *	-387.84	-367.84	-347.84	-327.84	-307.84
*						
3.00 *	-307.84	-277.84	-247.84	-217.84	-187.84	
*						
4.00 *	-227.84	-187.84	-147.84	-107.84	-67.84	
*						

160 ACRES ALFALFA ON 320 ACRE RANCH
 MANAGEMENT FEE OF 5% OF CASH COSTS MAY BE INCLUDED IF APPLICABLE
 8 YEAR STARD -- 2 TON YIELD 1ST YEAR - 6 TON IN YEARS 2 THRU 8

Updated 11/07/80

STORED DATA PAGE (NO CALCULATIONS) FOR ALFALFA HAY

BUDGET RECORD NUMBER 195

COST OF ESTABLISHING ALFALFA HAY BY D. MARCUM, FARM ADVISOR - P. THOMAS, SRA
FALL RIVER VALLEY AND BIG VALLEY (SHASTA-LASSEN) 1980
WHEEL LINE SPRINKLER -- LAND OWNER BASIS

COSTS AND RETURNS WILL BE DIVIDED BY 2.0 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 ALFALFA HAY	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	100.000	0.000	3.	9.	2.	0.
OPERATING INPUTS	RATE/UNIT																	
													PRICE	SHARE	UNIT	ITEM	TYPE	HARV
														RENT	CODE	CODE		CODE
6 CUSTOM LANDLEVEL	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.	296.	3.	0.
7 CUSTOM CHISEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	20.000	0.000	7.	297.	3.	0.
8 SINGLE-SUPR PHOS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	130.000	0.000	3.	219.	3.	0.
9 SULPHUR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	106.000	0.000	3.	224.	3.	0.
10 CUSTOM FERT APP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	3.500	0.000	7.	278.	3.	0.
11 PRE-PLANT HERB	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.000	0.000	14.	265.	3.	0.
12 CUSTOM DISC	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	15.000	0.000	7.	281.	3.	0.
13 ALFALFA HAY SEED	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.750	0.000	12.	109.	3.	0.
14 WIRE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	3.000	0.000	3.	383.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												M CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE		CODE	
27 SPRAYER	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	93.	4.	0.
29 CULTIPACKER	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	47.	4.	0.
30 SPIKE HARROW	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	71.	4.	0.
31 GRAIN DRILL	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	105.	4.	0.
32 CULTIPACKER	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	1.	47.	4.	0.
33 SWATHER	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	0.	34.	4.	9.
34 8' WIRE*	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	2.	140.	4.	9.
35 5' DELIV RAKE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	1.	124.	4.	9.
36 5' SALE PICKUP*	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	0.	19.	4.	9.
													SHARE	SHARE	POWER	SYST		
													FIXED %	VAR %	UNIT	CODE	LIFT	
49 ACIN IRRIG WATER	0.00	0.00	0.00	0.00	8.00	8.00	8.00	8.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	22.	129.	75.
50 NO. TIMES IRRIG	0.00	0.00	0.00	0.00	6.00	4.00	2.00	2.00	1.00	0.00	0.00	0.00						

EQUIPMENT REQUIREMENTS	NUMBER				PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF	COST	CODE					
51 HAY STORAGE	2.000	1.000	0.	42.	5.	0.			
52 FARM SHOP	1.000	0.750	0.	1.	5.	0.			
53 TOOLS-SHOP EQUIP	1.000	0.750	0.	4.	5.	0.			

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE	NUMBER	VALUE OR	TAXES	PERENNIAL	CROPS	
	METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE	
71	1.	160.00	600.00	6.00	0.0	0.00	
ENTERPRISE 2- 9 REGION/COUNTY 61 UNASSIGNED 00000 MACH COMP 2 IRRIG SYST 2 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 9							

160 ACRES ALFALFA ON 320 ACRE RANCH
MANAGEMENT FEE OF 5% OF CASH COSTS MAY BE INCLUDED IF APPLICABLE
8 YEAR STARD -- 2 TON YIELD 1ST YEAR - 6 TON IN YEARS 2 THRU 8

updated 11/09/80

MACHINERY COMPLEMENT 2
EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE-->	296	CUSTOM LANDLEVEL	297	CUSTOM CHISEL	278	CUSTOM FERT APP					
MACHNRY NAME CHANGE-->	2	TRAC 40HP USED	1	TRAC 30HP USED							
LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE					
RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE
MACH COMP CHGS-->	2. 3. 4000.000000	2.13. 4000.000000	2.14. 3.000000	47. 2. 10.000000	71. 2. 10.000000	*** 5. 0.750000					
	*** 2. 5.500000	*** 3.30000.000000	***13.30000.000000	1. 3. 2000.000000	1.13. 2000.000000	*** 3. 6000.000000					
	***13. 6000.000000	19. 2. 8.000000	19. 3.12000.000000	19.13.12000.000000	22. 3.25000.000000	22.13.25000.000000					
	34. 3.10000.000000	34.13.10000.000000	1.14. 3.000000								
EQUAT COMP CHGS-->	1. 5. 5000.000000	1. 6. 5000.000000	4. 5. 5000.000000	4. 6. 5000.000000							
PARAMETER CHGS-->	10. 3.500000	11. 3.500000	12. 3.500000	18. 0.334000	28. 0.010000						

19 default data

Cost of Establishing Alfalfa Hay by D. Marcum, Farm Advisor - P. Thomas, SRA
 Fall River Valley and Big Valley (Shasta-Lassen) 1980
 Wheel Line Sprinkler - Land owner basis

160 acres Alfalfa on 320 acre ranch

Management fee of 5% of cash costs may be included if applicable

8 year stand -- 2 ton yield 1st year - 6 ton yield in years 2 through 8

Additional notes

1. A grain crop is usually harvested mid-summer prior to alfalfa planting.
 Land preparation for alfalfa begins in August - land sits through the winter and is planted the following spring.
2. Land preparation in August (listed in October to have a 1 year seedling cycle in the budget):
 Land level - custom \$ 15.00/acre
 Chisel - custom \$ 20.00/acre
 Disc - custom 2 passes @ \$ 15.00/acre = \$ 30.00/acre
3. Fertilizer applied to soil surface in August (on budget in October):
 Materials 0-20-0 Single Superphos. 1/4 ton/acre (500 lb) @ \$130/ton = \$32.50/ac
 Elemental Sulfur 1/8 ton/acre (250 lb) @ \$106/ton = \$13.25/ac
 Application - custom 2 applications @ \$3.50/acre = \$ 7.00/ac
4. Preplant Herbicide in May:
 Materials 3 qt/acre Balan @ \$12.00/gal = \$ 9.00/acre
 Applied with sprayer pulled by 40hp diesel tractor - 1 pass over field
 Incorporate - custom disc 2 passes @ \$15.00/acre = \$30.00/acre
5. Prepare seedbed in May:
 Cultipacker pulled by 40hp diesel tractor - 1 pass over field
 Spike Harrow pulled by 40hp diesel tractor - 1 pass over field
6. Plant in May:
 Seed (Vernal Alfalfa) 20 lb/acre @ \$2.75/lb = \$55.00/acre
 Plant with grain drill using legume seed attachment and pulled by 40hp diesel tractor - 1 pass over field
 Cover seed with cultipacker pulled by 30hp diesel tractor - 1 pass over field
7. Irrigation - wheel line sprinkler (1/4 mile)
 Irrigation system (from machinery complement) = Side Move Tow
 Pump - 75 hp, 75 feet lift
 15 irrigations - 36 ac in total broken down as follows:
 May 6x 8 ac in total
 June 4x 8 ac in total
 July 2x 8 ac in total
 Aug 2x 8 ac in total
 Sept 1x 4 ac in total
 36 ac in total
 Irrigation labor - .334 hrs/application
8. Labor Rates:
 Irrigator \$3.50/hr (includes benefits)
 Machinery labor costs of \$3.50/hr should be ignored if owner-operator runs machinery. They have been included to reflect opportunity costs.

9. Harvest in July and September:
 Yield: July 1 ton, September 1 ton
 Price: \$100.00/ton (FOB ranch)
 Operations for 1 cutting:
 Self propelled Swather - 1 pass over field
 Baler (3 wire) pulled by 40hp diesel tractor - 1 pass over field
 Side delivery rake pulled by 30hp diesel tractor - 1 pass over field
 Self propelled Bale pickup - 1 pass over field
 Wire costs @ \$3.00/ton harvested
10. Equipment:
 Hay storage - two 3000 sq ft units used only for alfalfa
 Farm shop - \$5000 3/4 of costs for alfalfa, 1/4 for grain
 Tools - \$5000 3/4 of costs for alfalfa, 1/4 for grain
11. Management fee: 5% of cash costs if applicable
12. P.G.&E. power rates used - REA may be used if applicable
13. Land Owned:
 Land value \$600.00/acre - Land tax \$6.00/acre
14. Machinery and equipment costs are determined by a combination of machinery use and labor requirements.
15. Both 30hp and 40hp tractors purchased used.
16. See Budget Record Number 363 for production (years 2 to 8).