

**COST & RETURNS SUMMARY FOR ALFALFA HAY**  
**ESTABLISHMENT COSTS OF ALFALFA HAY** BY RON VARGAS, FARM ADVISOR  
 MADERA COUNTY 1981  
 LAND OWNERSHIP BASIS

\*\*\* TEMPORARY BUDGET \*\*\*

*Alfalfa Hay #*  
*# 196*

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
<b>1. GROSS RECEIPTS FROM PRODUCTION:</b>					
TOTAL RECEIPTS:				0.00	
<b>2. VARIABLE COSTS:</b>					
PREHARVEST:					
PRE-MERGE HERB	ACRE	6.800	1.000	6.80	
HERBICIDE APP	ACRE	9.250	1.000	9.25	
ALFALFA SEED	LBS.	2.150	20.000	43.00	
CUSTOM AIR SEED	ACRE	4.000	1.000	4.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			14.76	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			2.87	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			2.87	
MACHINERY LABOR	HOUR	6.000	2.158	12.95	
INTEREST ON OPERATING CAP.	DOL.	0.14000	2.647	0.35	
TOTAL PREHARVEST COSTS:				96.85	
PREHARVEST COST PER ACRE				96.8515	
HARVEST:					
TOTAL HARVEST COSTS:				0.00	
HARVEST COST PER ACRE				0.0000	
TOTAL VARIABLE COSTS:				96.85	
VARIABLE COST PER ACRE				96.8515	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>					
INCOME PER ACRE				-96.85	
				-96.8515	
<b>4. OVERHEAD:</b>					
PERSONAL PROPERTY TAXES:				7.26	
REAL PROPERTY TAXES:				22.50	
TOTAL OVERHEAD:				29.76	
OVERHEAD COST PER ACRE				29.7644	
TOTAL CASH COSTS:				126.62	
TOTAL CASH COST PER ACRE				126.6159	
<b>5. INCOME ABOVE ALL CASH COSTS:</b>					
INCOME PER ACRE				-126.62	
				-126.6159	
<b>6. OWNERSHIP COSTS:</b>					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			16.50	
BUILDINGS	ACRE			16.62	
TOTAL DEPRECIATION:				31.12	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.14000	179.795	25.17	
BUILDINGS		0.10670	287.528	30.68	
LAND		0.10670	2000.000	213.40	
TOTAL INTEREST CHARGE:				269.25	
TOTAL FIXED COSTS:				300.37	
FIXED COST PER ACRE				300.3703	
<b>7. TOTAL OF ABOVE COSTS:</b>					
TOTAL COST PER ACRE				426.99	
				426.9862	
<b>8. NET RETURNS:</b>					
NET RETURNS PER ACRE				-426.99	
				-426.9862	

BASED ON 80 ACRES ALFALFA ON 160 ACRE FARM  
 NO IRRIGATION: FALL PLANTING  
 INTEREST RATE: 14% (SHORT), 10.67% (LONG)  
 DATE PRINTED: 02/13/81 HARVEST MONTH: 10  
 1980 default data

UPDATED 2/5/81  
 BUDGET RECORD NUMBER 196

\*\*\* TEMPORARY BUDGET \*\*\*

CASH FLOW & INVESTMENT SUMMARY FOR ALFALFA HAY  
 ESTABLISHMENT COSTS OF ALFALFA HAY  
 MADERA COUNTY  
 LAND OWNERSHIP BASIS

BY RON VARGAS, FARM ADVISOR

BUDGET RECORD NUMBER 196

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	0.00	0.00	0.00	0.00	0.00
OPERATING EXPENSES															
PRE-ERGE HERB	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.00	0.00	6.80
HERBICIDE APP	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.25	0.00	0.00	9.25
ALFALFA SEED	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.00	0.00	0.00	43.00
CUSTOM AIR SEED	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.90	3.05	0.00	0.00	12.95
INTEREST ON OPER. CAP.	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.03	0.00	0.00	0.35
TRACTOR COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.25	2.52	0.00	0.00	14.76
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	0.43	0.00	0.00	2.87
BLDG OPER. COST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.00	0.00	2.87
TOTAL EXPENSES	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.35	70.51	0.00	0.00	96.85

MONTHLY IRRIGATION AND LABOR REQUIREMENTS															
MACHINE LABOR	HR/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.51	0.00	0.00	2.16

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 75 HP	4	75.0	17400.	20.	300.	2.36	4.28	1.22	7.87	3.23	0.48	1.38	5.10	0.935
TRACTOR 120 HP	7	120.0	36000.	20.	300.	5.37	9.73	2.77	17.88	5.68	0.85	3.14	9.67	1.027
CHISEL	42	8.0	3600.	15.	75.	1.17	1.49	0.44	3.10	0.00	0.01	0.63	0.64	0.404
CULTIPACKER	48	12.0	2280.	15.	30.	0.61	0.78	0.23	1.61	0.00	0.00	0.10	0.10	0.133
DISC OFFSET HDTY	62	18.0	9720.	15.	50.	4.07	5.18	1.52	10.77	0.00	0.03	1.35	1.38	0.347
SPRINGTOOTH	76	12.0	2400.	15.	75.	0.55	0.70	0.21	1.46	0.00	0.01	0.32	0.33	0.286
4 WH PLANE 16X60	86	16.0	14520.	15.	80.	1.99	2.53	0.74	5.26	0.00	0.01	0.29	0.29	0.182
FLOAT	88	12.0	1260.	15.	100.	0.13	0.16	0.05	0.34	0.00	0.00	0.05	0.05	0.170
DISK BORDER SGLE	135	12.0	780.	15.	50.	0.24	0.31	0.09	0.65	0.00	0.00	0.08	0.09	0.260
FARM SHOP	2		21060.	35.		6.77	15.45	2.63	24.85	2.63		0.11	2.75	
TOOLS-SHOP EQUIP	4		6143.	15.		3.58	5.33	0.77	9.68	0.00		0.10	0.10	
STORAGE SHED	8		13163.	35.		4.23	9.66	1.65	15.53	0.00		0.02	0.02	
FUELTANK 550 GAL	18		234.	30.		0.04	0.25	0.03	0.32	0.00		0.00	0.00	

MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE	1607.	31.12	55.85	12.34	99.31	11.54	1.39	7.57	20.50
TOTAL INVESTMENT	128559.								

BASED ON 80 ACRES ALFALFA ON 160 ACRE FARM  
 NO IRRIGATION: FALL PLANTING  
 INTEREST RATE: 14% (SHORT), 10.67% (LONG)  
 DATE PRINTED: 02/13/81

UPDATED 2/5/81

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 196  
 ESTABLISHMENT COSTS OF ALFALFA HAY BY RON VARGAS, FARM ADVISOR  
 MADERA COUNTY 1981  
 LAND OWNERSHIP BASIS

FUEL USED IN GALLONS PER HOUR

TRACTOR 75 HP 3.600  
 TRACTOR 120 HP 5.760

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
CHISEL	2.562	TRACTOR 120 HP
DISC OFFSET HDY	1.100	TRACTOR 120 HP
4 WH PLANE 16X60	1.152	TRACTOR 120 HP
DISK BORDER SGLE	1.031	TRACTOR 75 HP
FLOAT	0.672	TRACTOR 75 HP
SPRINGTOOTH	1.134	TRACTOR 75 HP
CULTIPACKER	0.528	TRACTOR 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
CHISEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.562	0.000	0.000	0.000	2.562	DIESEL
DISC OFFSET HDY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.200	0.000	0.000	0.000	2.200	DIESEL
4 WH PLANE 16X60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.152	0.000	0.000	0.000	1.152	DIESEL
DISK BORDER SGLE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.031	0.000	0.000	0.000	1.031	DIESEL
FLOAT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.672	0.000	0.000	0.000	0.672	DIESEL
SPRINGTOOTH	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.134	0.000	0.000	1.134	DIESEL
CULTIPACKER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.528	0.000	0.000	0.528	DIESEL
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.618	1.662	0.000	0.000	9.280	

GALLONS FUEL BY TYPE

0.00 GAS  
 0.00 LP  
 9.28 DIESEL  
 0.00 N. GAS  
 0.00 KWHR

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

BASED ON 80 ACRES ALFALFA ON 160 ACRE FARM  
 NO IRRIGATION: FALL PLANTING  
 INTEREST RATE: 14% (SHORT), 10.67% (LONG)  
 DATE PRINTED: 02/13/81

UPDATED 2/5/81

MACHINERY OPERATIONS SUMMARY BUDGET RECORD NUMBER 196  
 ESTABLISHMENT COSTS OF ALFALFA HAY BY RON VARGAS, FARM ADVISOR  
 MADERA COUNTY 1981  
 LAND OWNERSHIP BASIS

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR	MACHINE HOURS	FUEL, OIL, LUB., REP. PER ACRE	FIXED COSTS PER ACRE
CHISEL	7, 42	SEPT	1.00	0.489	0.404	4.83	10.84
DISC OFFSET HDY	7, 62	SEPT	2.00	0.420	0.347	4.98	17.41
4 WH PLANE 16X60	7, 86	SEPT	1.00	0.220	0.182	2.18	8.75
DISK BORDER SGLE	4, 135	SEPT	1.00	0.315	0.260	1.65	3.06
FLOAT	4, 88	SEPT	1.00	0.205	0.170	1.07	1.91
SPRINGTOOTH	4, 76	OCT	1.00	0.347	0.286	2.04	4.11
CULTIPACKER	4, 48	OCT	1.00	0.161	0.133	0.90	2.85
TOTALS			2.158	1.783	1.482	17.63	48.93

BASED ON 80 ACRES ALFALFA ON 160 ACRE FARM  
 NO IRRIGATION: FALL PLANTING  
 INTEREST RATE: 14% (SHORT), 10.67% (LONG)  
 DATE PRINTED: 02/13/81

UPDATED 2/5/81

## STORED DATA PAGE (NO CALCULATIONS) FOR ALFALFA HAY

BUDGET RECORD NUMBER 196

ESTABLISHMENT COSTS OF ALFALFA HAY BY RON VARGAS, FARM ADVISOR  
 MADERA COUNTY 1981  
 LAND OWNERSHIP BASIS

COSTS AND RETURNS WILL BE  
 DIVIDED BY 1.0 ACRE  
 TO OBTAIN PER ACRE COSTS

LINE PRODUCTION	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 RENT	UNIT CODE	ITEM CODE	TYPE	XXXX
1 ALFALFA HAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.000	0.000	3.	9.	2.	0.
OPERATING INPUTS																		
	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
													RENT	CODE	CODE	CODE	CODE	
6 PRE-MERGE HERB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	6.800	0.000	7.	254.	3.	0.
7 HERBICIDE APP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	9.250	0.000	7.	358.	3.	0.
8 ALFALFA SEED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	2.150	0.000	12.	10.	3.	0.
9 CUSTON AIR SEED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	4.000	0.000	7.	371.	3.	0.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												M CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE	CODE	CODE	
26 CHISEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	7.	42.	4.	0.
27 DISC OFFSET HDY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.000	0.000	7.	62.	4.	0.
28 4 WH PLANE 16X60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	7.	86.	4.	0.
29 DISK BORDER SGL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	135.	4.	0.
30 FLOAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	88.	4.	0.
31 SPRINGTOOTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	76.	4.	0.
32 CULTIPACKER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	48.	4.	0.

EQUIPMENT REQUIREMENTS	NUMBER UNITS OF COST												PROPERT	XXX	EQUIP	TYPE	XXXX		
													UNITS	OF COST	CODE	CODE	CODE		
51 FARM SHOP													1.000	0.500	0.	2.	5.	0.	
52 TOOLS-SHOP EQUIP													1.000	0.500	0.	4.	5.	0.	
53 STORAGE SHED													1.000	0.500	0.	8.	5.	0.	
54 FUELTANK 550 GAL COLUMNS --->													1.000	0.500	0.	18.	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.		80.00	2000.00	22.50	0.0	0.00												
ENTERPRISE 2-	9	REGION/COUNTY	20	UNASSIGNED	00000	MACH COMP	1	IRIG SYST	0	UNASSIGNED	0	EQUIP SET	1	HARVEST MONTH	10				

BASED ON 80 ACRES ALFALFA ON 160 ACRE FARM  
 NO IRRIGATION: FALL PLANTING  
 INTEREST RATE: 14% (SHORT), 10.67% (LONG)

UPDATED 2/5/81

MACHINERY COMPLEMENT 1  
 EQUIPMENT COMPLEMENT 1

\*\*\*NO NAME CHANGES HAVE BEEN STORED WITH THIS BUDGET\*\*\*

	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE
MACH COMP CHGS-->2.	2.		8.000000												
PARAMETER CHGS-->10.		11.	6.000000		12.	4.900000		6.	5.000000		26.	0.073700			0.073700

DATE PRINTED: 02/13/81

1980 default data

Additional Notes: Alfalfa Hay Establishment  
Madera County 1981  
By Ronald Vargas, Farm Advisor

A. Operating Inputs

1. Pre-emergence herbicide: Eptom @  $2\frac{1}{2}$  pts./Ac

B. Machinery Requirements

1. 120 HP Tractor
  - a. Chisel 1x September
  - b. Disk 2x " "
  - c. Landplane 1x " "
2. 75 HP Tractor
  - a. Border disk 1x " "
  - b. Float 1x " "
  - c. Cultipacker 1x October following planting

C. See Budget Record Number 197 for production costs.