

COST & RETURNS SUMMARY FOR ALFALFA HAY
 COSTS AND RETURNS TO PRODUCE ALFALFA HAY
 MADERA COUNTY 1981
 YIELD: 7.5 TON PER ACRE (6 CUTTINGS)

BY RON VARGAS, FARM ADVISOR

AF-VN-81-4

*** SCS BUDGET ***

Alfalfa Hay # 199

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
ALFALFA HAY	TON	115.000	7.500	862.50	
TOTAL RECEIPTS:				862.50	
2. VARIABLE COSTS:					
PREHARVEST:					
HERBICIDE	LBS.	4.250	3.000	12.75	
CUSTOM AIR HERB	ACRE	4.000	1.000	4.00	
IRRIG DIST WATER	ACIN	0.580	42.000	24.36	
SINGLE-SUPR PHOS	LBS.	0.059	450.000	26.55	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			1.74	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			0.63	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			2.87	
MACHINERY LABOR	HOUR	6.000	0.315	1.89	
IRRIGATION LABOR	HOUR	5.000	7.000	35.00	
INTEREST ON OPERATING CAP.	DOL.	0.07370	54.888	3.99	
TOTAL PREHARVEST COSTS:				113.78	
PREHARVEST COST PER TON				15.1705	
HARVEST:					
CUSTOM SWATHING	ACRE	6.000	7.000	42.00	
CUSTOM RAKING	ACRE	3.000	7.000	21.00	
CUSTOM TURN	ACRE	1.750	2.000	3.50	
CUSTOM BALE	TON	9.000	7.500	67.50	
ROADSIDE	TON	2.900	7.500	21.75	
INTEREST ON OPERATING CAP.	DOL.	0.07370	43.385	3.20	
TOTAL HARVEST COSTS:				158.95	
HARVEST COST PER TON				21.1930	
TOTAL VARIABLE COSTS:				272.73	
VARIABLE COST PER TON				36.3635	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER TON				589.77	
				78.6365	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				0.63	
REAL PROPERTY TAXES:				22.50	
TOTAL OVERHEAD:				23.13	
OVERHEAD-COST-PER-TON				3.0838	
TOTAL CASH COSTS:					
TOTAL CASH COST PER TON				295.85	
				39.4473	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER TON				566.65	
				75.5527	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			1.55	
BUILDINGS	ACRE			14.62	
TREES, VINES OR STAND	ACRE			108.00	
TOTAL DEPRECIATION:				124.17	
CAPITAL & INTEREST:					
MACHINERY & EQUIPMENT		0.07370	15.375	1.13	
BUILDINGS		0.07370	287.528	21.19	
TREES, VINES OR STAND		0.07370	324.000	11.94	
LAND		0.07370	2000.000	142.40	
TOTAL INTEREST CHARGE:				181.66	
TOTAL FIXED COSTS:				305.84	
FIXED COST PER TON				40.7784	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER TON				601.69	
				80.2257	
8. NET RETURNS:					
NET RETURNS PER TON				260.81	
				34.7743	

BASED ON 80 ACRES ALFALFA ON 320 ACRE FARM
 IRRIGATION: 42 ACIN PER YEAR
 LAND OWNERSHIP BASIS 7% INTEREST RATE
 DATE PRINTED: 02/05/81 HARVEST MONTH: 11
 1980 default data

Updated 2/5/81

BUDGET RECORD NUMBER 199 UC COOPERATIVE EXTENSION

*** SCS BUDGET ***

CASH FLOW & INVESTMENT SUMMARY FOR ALFALFA HAY

COSTS AND RETURNS TO PRODUCE ALFALFA HAY

BY RON VARGAS, FARM ADVISOR

BUDGET RECORD NUMBER 199

MADERA COUNTY

1981

YIELD: 7.5 TON PER ACRE

(6 CUTTINGS)

MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

CATEGORY	UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	143.75	143.75	143.75	143.75	143.75	143.75	0.00	0.00	862.50
OPERATING EXPENSES														
HERBICIDE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.75	12.75
CUSTOM AIR HERB	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00
IRRIG DIST WATER	\$/AC	0.00	0.00	0.00	3.48	3.48	3.48	3.48	3.48	3.48	3.48	0.00	0.00	24.36
SINGLE-SUPR PHOS	\$/AC	0.00	0.00	0.00	28.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.55
CUSTOM SWATHING	\$/AC	0.00	0.00	0.00	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	0.00	42.00
CUSTOM RAKING	\$/AC	0.00	0.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0.00	21.00
CUSTOM TURN	\$/AC	0.00	0.00	0.00	0.00	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	3.50
CUSTOM BALE	\$/AC	0.00	0.00	0.00	0.00	11.25	11.25	11.25	11.25	11.25	11.25	0.00	0.00	67.50
ROADSIDE	\$/AC	0.00	0.00	0.00	0.00	3.63	3.63	3.63	3.63	3.63	3.63	0.00	0.00	21.75
MACHINE LABOR COST	\$/AC	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89
INTEREST ON OPER. CAP.	\$/AC	0.00	0.00	0.00	1.69	1.28	1.06	0.81	0.61	0.40	0.20	0.00	1.13	7.19
TRACTOR COST	\$/AC	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74
EQUIPMENT COST	\$/AC	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63
BLDG OPER. COST	\$/AC	0.00	0.00	0.00	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	2.87
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.00	0.00	35.00
TOTAL EXPENSES	\$/AC	0.00	0.00	0.00	41.65	36.05	35.84	33.83	33.63	33.43	33.23	9.32	18.20	272.73

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

MACHINE LABOR	HR/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MACHINE LABOR	HR/AC	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	7.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	0.00	0.00	42.00

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 & INS	TOTAL	FUEL	LUBE	REPAIRS	TOTAL	
TRACTOR 75 HP	4	75.0	17400.	20.	600.	0.36	0.35	0.19	0.89	0.99	0.15	0.60	1.74	0.286
D/RT APPLIC.	69	12.0	4520.	15.	60.	1.19	0.79	0.44	2.42	0.00	0.01	0.62	0.63	0.260
S/EE IRR SYS*	128	2.0	0.	10.	5000.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.000
FARM SHOP	2		21060.	35.		6.77	10.67	2.63	20.07	2.63		0.11	2.75	
TOOLS-SHOP EQUIP	4		6143.	15.		3.58	3.68	0.77	8.03	0.00		0.10	0.10	
STORAGE SHED	8		13163.	35.		4.23	6.67	1.65	12.55	0.00		0.02	0.02	
FUELTANK 550 GAL	18		234.	30.		0.04	0.17	0.03	0.24	0.00		0.00	0.00	
MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE			781.			16.17	22.32	5.70	44.20	3.62	0.16	1.46	5.24	
TOTAL INVESTMENT			62519.											

BASED ON 80 ACRES ALFALFA ON 320 ACRE FARM

FLOOD IRRIGATION: 42-ACIN-PER-YEAR

LAND OWNERSHIP BASIS 7% INTEREST RATE

DATE PRINTED: 02/05/81

Updated 2/5/81

MACHINERY OPERATIONS SUMMARY
 COSTS AND RETURNS TO PRODUCE ALFALFA HAY
 MADERA COUNTY 1981
 YIELD: 7.5 TON PER ACRE (6 CUTTINGS)

BUDGET RECORD NUMBER 199
 BY RON VARGAS, FARM ADVISOR

*** SCS BUDGET ***

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR S	MACHINE HOURS	FUEL, OIL, LUB., REP. PER ACRE	FIXED COSTS PER ACRE
DRY FERT APPLIC.	4,	69 APR	1.00	0.315	0.260	2.37	3.31

TOTALS 0.315 0.260 2.37 3.31

BASED ON 80 ACRES ALFALFA ON 320 ACRE FARM
 FLOOD IRRIGATION: 42 ACIN PER YEAR
 LAND OWNERSHIP BASIS 7% INTEREST RATE
 DATE PRINTED: 02/05/81

UC Cooperative Extension
Updated 2/5/81

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 199
 COSTS AND RETURNS TO PRODUCE ALFALFA HAY BY RON VARGAS, FARM ADVISOR
 MADERA COUNTY 1981
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*** SCS BUDGET ***

FUEL USED IN GALLONS PER HOUR

TRACTOR 75 HP 3.600

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED
 MACHINE GALLONS POWER UNIT

 DRY FERT APPLIC. 1.031 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
DRY FERT APPLIC.	0.000	0.000	0.000	1.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.031	DIESEL
TOTALS	0.000	0.000	0.000	1.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.031	

GALLONS FUEL BY TYPE
 0.00 GAS
 0.00 LP
 1.03 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 320 ACRE FARM
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RANGING ANALYSIS FOR BUDGET RECORD NUMBER 199
 COSTS AND RETURNS TO PRODUCE ALFALFA HAY BY RON VARGAS, FARM ADVISOR
 MADERA COUNTY 1981
 YIELD: 7.5 TON PER ACRE (6 CUTTINGS)

INCOME ABOVE VARIABLE COSTS
 WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY

	PRICE OF ALFALFA HAY	RANGES FROM	103.50 TO	126.50	
		RANGES FROM	6.00 TO	9.00	
	103.50	109.25	115.00	120.75	126.50

	6.00 *	348.27	382.77	417.27	451.77
	*				486.27
	6.75 *	425.90	464.71	503.52	542.34
	*				581.15
QUANTITY OF ALFALFA HAY	7.50 *	503.52	546.65	589.77	632.90
	*				676.02
	8.25 *	581.15	628.59	676.02	723.46
	*				770.90
	9.00 *	658.77	710.52	762.27	814.02
	*				865.77

INCOME ABOVE ALL CASH COSTS
 WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY

	PRICE OF ALFALFA HAY	RANGES FROM	103.50 TO	126.50	
		RANGES FROM	6.00 TO	9.00	
	103.50	109.25	115.00	120.75	126.50

	6.00 *	325.15	359.65	394.15	428.65
	*				463.15
	6.75 *	402.77	441.58	480.40	519.21
	*				558.02
QUANTITY OF ALFALFA HAY	7.50 *	480.40	523.52	566.65	609.77
	*				652.90
	8.25 *	558.02	605.46	652.90	700.33
	*				747.77
	9.00 *	635.65	687.40	739.15	790.90
	*				842.65

INCOME ABOVE ALL COSTS
 WHEN THE PRICE OF ALFALFA HAY AND THE QUANTITY OF ALFALFA HAY

	PRICE OF ALFALFA HAY	RANGES FROM	103.50 TO	126.50	
		RANGES FROM	6.00 TO	9.00	
	103.50	109.25	115.00	120.75	126.50

	6.00 *	19.31	53.81	88.31	122.81
	*				157.31
	6.75 *	96.93	135.74	174.56	213.37
	*				252.18
QUANTITY OF ALFALFA HAY	7.50 *	174.56	217.68	260.81	303.93
	*				347.06
	8.25 *	252.18	299.62	347.06	394.49
	*				441.93
	9.00 *	329.81	381.56	433.31	485.06
	*				536.81

BASED ON 80 ACRES ALFALFA ON 320 ACRE FARM
 FLOOD IRRIGATION: 42 ACIN PER YEAR
 LAND OWNERSHIP BASIS 7% INTEREST RATE
 DATE PRINTED: 02/05/81

Updated 2/5/81
 UC Cooperative Extension

STORED DATA PAGE (NO CALCULATIONS) FOR ALFALFA HAY

BUDGET RECORD NUMBER 199

COSTS AND RETURNS TO PRODUCE ALFALFA HAY BY RON VARGAS, FARM ADVISOR

COSTS AND RETURNS WILL BE DIVIDED BY 7.5 TON TO OBTAIN PER TON COSTS

MADERA COUNTY 1981

YIELD: 7.5 TON PER ACRE (6 CUTTINGS)

LINE	1 JAN	2 FEB	3 MAR	4 APR	5 MAY	6 JUN	7 JUL	8 AUG	9 SEP	10 OCT	11 NOV	12 DEC	13 PRICE	14 SHARE RENT	15 UNIT CODE	16 ITEM CODE	17 TYPE	18 XXXX
PRODUCTION	NUMBER OF UNITS																	
1 ALFALFA HAY	0.00	0.00	0.00	0.00	1.25	1.25	1.25	1.25	1.25	1.25	0.00	0.00	115.000	0.000	3.	9.	2.	0.

OPERATING INPUTS	RATE/UNIT												PRICE	SHARE RENT	UNIT CODE	ITEM CODE	TYPE	HARV CODE
3 HERBICIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	4.250	0.000	12.	250.	3.	0.
4 CUSTOM AIR HERB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	4.000	0.000	7.	373.	3.	0.
5 IRRIG DIST WATER	0.00	0.00	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	0.00	0.00	0.580	0.000	11.	323.	3.	0.
6 SINGLE-SUPR-PHOS	0.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.059	0.000	12.	219.	3.	0.
7 CUSTOM SWATHING	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	6.000	0.000	7.	314.	3.	9.
8 CUSTOM RAKING	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	3.000	0.000	7.	293.	3.	9.
9 CUSTOM TURN	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.750	0.000	7.	319.	3.	9.
10 CUSTOM BALE	0.00	0.00	0.00	0.00	1.25	1.25	1.25	1.25	1.25	1.25	0.00	0.00	9.000	0.000	3.	291.	3.	9.
11 ROADSIDE	0.00	0.00	0.00	0.00	1.25	1.25	1.25	1.25	1.25	1.25	0.00	0.00	2.900	0.000	3.	295.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												# CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE	CODE	CODE	
26 DRY FERT APPLIC.	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	69.	4.	0.
49 ACIN IRRIG WATER	0.00	0.00	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	0.00	0.00	1.00	1.00	0.	128.	0.	
50 NO. TIMES IRRIG	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00						

EQUIPMENT REQUIREMENTS	NUMBER UNITS	PROPORTY OF COST	XXX	EQUIP CODE	TYPE	XXXX
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	1.000	0.500	0.	18.	5.	0.

REQUIREMENTS	2 CHARGE METHOD	3	4 NUMBER OF ACRES	5 VALUE OR COST/ACRE	6 TAXES PER ACRE	7 PERENNIAL CROPS YRS LIFE	8 COST/ACRE
71 ENTERPRISE 2- 9 REGION/COUNTY 20 UNASSIGNED	1.		80.00	2000.00	22.50	3.0	324.00

BASED ON 80 ACRES ALFALFA ON 320 ACRE FARM
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 LAND OWNERSHIP BASIS 7% INTEREST RATE

updated 2/5/81

MACHINERY COMPLEMENT 2
 EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE	LINE CHANGE	VALUE	RW CL	LINE CHANGE	VALUE	RW CL	LINE CHANGE	VALUE	RW CL	LINE CHANGE	VALUE	RW CL	LINE CHANGE	VALUE	RW CL
PARAMETER CHGS-->10.	319	6.000000	11.	295	4.900000	12.	10	5.000000	6.	26	0.073700	26.	26	0.073700	

DATE PRINTED: 02/05/81

1980 default data

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

Data Base: Budget 197
Costs and Returns to Produce Alfalfa Hay
Madera County
(Based on 80 acres alfalfa on 160 acre farm)
By Ronald Vargas, Farm Advisor

Changes:

Farmsize: 320 acres
Alfalfa: 80 acres

Machinery complement: 2

See Budget Record Number 198 for establishment costs.