COUNTY: Pinal FARM: Pinal County Farm CAID TILLAGE: Conventional WATER SOURCE: ACRES: CROP: Alfalfa Hay w/Graze 1.0 IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam AREA: Maricopa YIELD: 7.4 Tn/Acre PREVIOUS CROP: Alfalfa Hay w/Gr DATE: 10/08/96

	•				_		
Item		Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
NCOME ->	Alfalfa	Ton	7.40	\$82.0000	\$606.80		
	Grazing	Head Days	250.00	0.1300	32.50	\$639.30	
ASH LAND	PREPARATION AND GROWING EXPENSE	S (including sa	les tax)				
Paid I	Labor (including benefits)	_				62.90	
	Tractor/Self Propelled				0.38		
	Irrigation				62.52		
Chemic	cals & Custom Applications					14.38	
	Herbicides				14.38		
Farm M	Machinery and Vehicles					8.61	
	Diesel Fuel				5.05		
	Repairs & Maint.				3.56		
Irriga	ation Water (excluding labor)					250.13	
	Assessment (See Note Below) **					**	
Other	Purchased Inputs & Services					5.51	
	Seed/Transplants				5.51		
	TOTAL CASH LAND	PREPARATION AND	GROWING EXPE	NSES		341.53	
ASH HARVE	EST AND POST HARVEST EXPENSES						
Paid I	Labor (including benefits)					37.67	
	Tractor/Self Propelled				22.47		
	Other/Contract				15.19		
Farm N	Machinery and Vehicles					69.35	-
	Diesel Fuel				18.13		
	Repairs & Maint.				51.22		
Other	Materials					27.59	
	TOTAL HARVEST AN	D POST HARVEST I	EXPENSE			134.61	
PERATING	OVERHEAD->PICKUP USE					10.25	
	INTEREST AT 8.0%					0.17	
	TOTAL CASH OPERA	TING EXPENSES				====== \$486.57	=======
	RETURNS OVER O					\$152.73	

Notes: The above figures do not include ownership costs, see Table 5B on Next Page for detailed cost allocation.

** A water assessment charge of \$18.75/Acre is included in the ownership costs of Table 5B.

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Table 5B. Allocation of Ownership Costs; Alfalfa Hay Production, 1996

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COUNTY: Pinal FARM: Pinal County Farm CROP: Alfalfa Hay w/Graze ACRES: 1.0 AREA: Maricopa YIELD: 7.4 Tn/Acre	IRRIGA	SOURCE: CAID FION SYSTEM: Flood E US CROP: Alfalfa		: Conventional Sandy-Loam 10/08/96
Item	- CASH COST BA	SIS (\$/ACRE) - Net Returns	- TOTAL COST BA	SIS (\$/ACRE) - Net Returns
TOTAL INCOME at \$ 82.0000/Tn + 2nd Crop TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$639.30 486.56	\$152.73	\$639.30 486.56	\$152.73
CASH OVERHEAD EXPENSES Taxes, Housing & Insur., Farm Machinery Gen. & Off. Overhead (5% of Tot. Oper. Exp.) General Farm Maint. (3% of Tot. Oper. Exp.)	10.45 24.32 14.60		10.45 24.32 14.60	
Total Cash Overhead Expenses Total Cash Oper. & Over. Cost	49.37 535.94		49.37 535.94	
RETURNS OVER CASH OPER. & OVER. EXPENSES. CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery & Vehicles Interest on Equity, Machinery & Vehicles Stand Establishment (3 Year Crop) Total Capital Allocations	143.97 143.97	103.35	70.75 5.57 143.97 	103.35
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK — RETURNS TO LAND, MANAGEMENT & RISK —		-> (40.61)	1	—>(116.93)
LAND COSTS / OWNERSHIP (100% Equity) Property Taxes (\$372 X 16% X .16455) Opport. Inter. on Land (100% X 6.0% X \$372) Water Assessment **	9.79 18.75		9.79 22.32 18.75	
Total Land Costs RETURNS TO MANAGEMENT, CAPITAL & RISK ————————————————————————————————————	28.54	->(69.15)	50.86	—>(167.79)
Management Services (8% of Tot. Oper. Exp.)			38.92	
TOTAL OWNERSHIP COST	221.89		359.45 ======	
TOTAL COST RETURN TO MANAGEMENT, CAPITAL & RISK ————————————————————————————————————	\$708.45	->(\$69.15)	\$846.02 I	—>(\$206.72)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Tn) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$61.36 \$29.98 \$91.34	 	\$61.36 \$48.57 \$109.93

COUNTY: Pinal TILLAGE: Conventional FARM: Pinal County Farm WATER SOURCE: CAID Alfalfa Hay w/Graze ACRES: 1.0 IRRIGATION SYSTEM: Flood Basin CROP: SOIL: Sandy-Loam AREA: Maricopa YIELD: 7.4 Tn/Acre PREVIOUS CROP: Alfalfa Hay w/Gr DATE: 10/08/96

	First		— Hou	rs * -	-		Operat:	ing Costs	(\$/Acre*) —			Tot. Cash	1
No.	Month	Operation	Machine	Labor	Fu	el/Rps.	Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Feb	Irrigate		0.455	ī		3.19		15.83	19.02	8.0	152.16	G
2	Mar	Irrigate/Run Herbicide		0.455	1		3.19		20.62	23.81	3.0	71.43	G
3	Feb	Rerun Borders	0.500	0.556	1	2.76	3.90			6.66	3.0	19.98	G
4	Mar	Swathing	0.180	0.200	1	2.46	1.40			3.86	8.0	30.89	Н
5	Mar	Raking	0.150	0.167	1	1.41	1.40			2.81	8.0	22.45	н
6	Mar	Baling	0.150	0.167	1	3.64	1.40		3.45	8.49	8.0	67.92	н
7	Mar	Roadsiding	0.064	0.071	1	1.16	0.50			1.66	8.0	13.29	Н
8	Jun	Irrigate		0.562	1		3.94		19.00	22.94	4.0	91.76	G
9	0ct	Renovate	0.180	0.200	1	1.16	1.68			2.84	0.1	0.28	G
10	0ct	Plant	0.225	0.250	1	2.15	2.10		55.13	59.38	0.1	5.94	L
		Pickup Use 40 Mi/Ac	1.330			10.25						10.25	0
		Operating Interest at 8.00)%					0.17				0.17	0
		TOTAL CASH OPERATING EXPENS	SES:		\$	88.22	\$100.53	\$0.17	\$297.61			\$486.53	T

* NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The 'Tot. Cash Expense' column and the 'TOTAL CASH OPERATING EXPENSES:' row include all operations, all times over. Classes are defined below.

A water assessment charge of \$18.75/Acre included as ownership cost in Table 5B.

OPERATING COST SUMMARY BY	CLASS	1		SENSI	TIVIT	Y OF NET	REVENUES O	VER TOTAL C	ASH EXPENS	SES (\$/Acr	e)
Land Preparation (L)	\$5.93	-	Prices ->		1	-25%	-10%	Budgeted	+10%	+25%	
Growing (G)	335.61	-									
Harvest (H)	134.55	-	Yields		1	\$61.50	\$73.80	\$82.00	\$90.20	\$102.50	Break-even
Post Harvest (P)	0.00				I—						
Marketing (M)	0.00	-	-25%	5.5	- 1	-111.56	-43.29	2.21	47.72	115.98	81.60
Operating Overhead (O)	10.42	-	-10%	6.6	1	-63.48	18.43	73.04	127.65	209.57	71.03
		1	Budgeted	7.4	1	-31.42	59.59	120.27	180.95	271.97	65.74
Total (T)	\$486.52	1	+10%	8.1	1	0.62	100.74	167.49	234.24	334.36	61.42
		-	+25%	9.2	1	48.70	162.48	238.33	314.18	427.95	56.23
		-	Break-even	Yield	1	8.12	6.32	5.51	4.88	4.17	

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COUNTY: CROP: AREA:	-	ay w/Graze	FARM: Pinal ACRES: YIELD:	County Farm 1.0 7.4 Tn/Acre	IRR	ER SOU IGATIO VIOUS	N SYS	TEM:	CAID Flood B Alfalfa	asin Hay w/Gr	SOIL:	Conventional Sandy-Loam 10/08/96
		Water		1			perat	ing C	ost (\$/	Acre) —		
	Number	Applied	Total	Purchased	Fuel, Oil	·	рстас	-11g C	000 (4/)	Other		
Month *	Irrig.	(Inches)	Labor (Hrs)	Water	& Repairs	Lab	or	Chem	icals	Purchases	Servic	es Total
FEB C	1.0	5.0	1.01	15.83	2.76	7.	09					25.68
MAR C	1.0	5.0	1.06	15.83	8.67	7.	90	4	.79	3.45		40.64
APR C	2.0	10.0	1.51	31.66	8.67	11.	09			3.45		54.86
MAY C	3.0	15.0	1.97	47.49	8.67	14.	27	4	.79	3.45		78.67
JUN C	2.0	12.0	2.28	38.00	11.43	16.	48			3.45		69.36
JUL C	2.0	11.0	1.62	j 34.83	8.67	11.	84	4	.79	3.45		63.57
AUG C	1.0	6.0	1.16	i 19.00	8.67	8.	65			3.45		39.77
SEP C	1.0	5.0	1.61	15.83	11.43	11.				3.45		42.50
OCT C	1.0	5.0	1.10	15.83	9.00		28			8.96		42.07
NOV C	1.0	5.0	0.45	15.83			19					19.02
	Use 40 Mi				10.25							10.25
		t at 8.0%									0.1	
	ssessment			**							· · -	
Total	15.0	79.0	13.80	I 250.13	88.22	100.	56	14	. 37	33.11	0.1	7 486.56
ફ		, , , ,		51.40	18.13	20.			. 95	6.80	0.0	
TOTAL R	ESOURCES R	EQUIREMENTS	(/Acre)	TOTAL ENERGY I	REQUIREMENTS (/	Acre)						
Total	N	0.0 lbs		Diesel Fuel		24.3	Gal					
Total	P	0.0 lbs		Regular Gas		0.0	Gal					
Total	K	0.0 lbs		NonLead Gas		4.0	Gal					
Total	Labor	13.8 Hrs										
Total	Water	79.0 AI		All Direct H	Energy	3.8	M B	TU				
EQUIPME	NT REQUIRE	MENTS (/Acre)									
Tracto	or, 70 PT	O HP, MFWD	3.92 Hrs	Border Disk, 6	6' Disk		1.50	Hrs \	Windrow	er, 14.0', H	S, SC	1.44 Hrs
Rake,	9.5' LH A	ND RH	1.20 Hrs	Baler, 3 wire	w/motor					gon, SP PRC		0.51 Hrs
		O HP, MFWD	0.02 Hrs	,	•					rill, 16'	,	0.02 Hrs
	p Truck, 1		1.33 Hrs	· · ·	,					,		
MATERIA	LS REQUIRE	MENTS (/Acre)									
	, District		79.00 AI	EPTC			4.20	Pt 1	Baling 1	Wire (6500')	4.00 TF
	fa Sd, Cer		2.50 Lb						_	,	•	
LABOR RI	EQUIREMENT	S(/Acre)										
Irriga	ators		8.92 Hrs	Harvest			2.17	Hrs !	Tractor			2.72 Hrs

^{*} NOTE: P = Previous Year C = Current Year N = Next Year

^{**} A water assessment charge of \$18.75/Acre included as ownership cost in Table 5B.

COUNTY: Pinal

_* NOTE:

TILLAGE: Conventional

CRO	P: A	Alfalfa Hay w/G	raze ACRES:	1.0	IRRIGA'	TION SYSTEM:	Flood Basin	SOIL:	Sandy-Loam
ARE	A: M	Maricopa	YIELD:	7.4 In/Acre	PREVIO	US CROP:	Alfalfa Hay	w/Gr DATE:	10/08/96
	First	:	E	quipment/Custom Oper.	Job Rate	Mater	ial Use & Co	st — Service	Cost Labor
No.	Month	Times Operat	ion HP	Self-Prop./Implem.	Acres/Hr	Name	Appl. Rate	\$/Unit \$/Un	nit Type
1	Feb	8.0 Irrigate			2.20 Water	, District	5.00 AI	38.00 AF	Irrigator
2	Mar	3.0 Irrigate/R	un Herbicid		2.20 Water EPTC	, District	5.00 AI 1.40 Pt	38.00 AF 26.08 Ga	Irrigator
3	Feb	3.0 Rerun Bord	ers 70	Border Disk, 6' Disk	1.80				Irrigator
4	Mar	8.0 Swathing		Windrower, 14.0', HS, S	5.00				Harvest
5	Mar	8.0 Raking	70	Rake, 9.5' LH AND RH	6.00				Tractor
6	Mar	8.0 Baling	70	Baler, 3 wire w/motor	6.00 Baling	g Wire (650	0 0.50 TF	6.57 TF	Tractor
7	Mar	8.0 Roadsiding		Bale Wagon, SP PRC W/Sq	14.00				Harvest
8	Jun	4.0 Irrigate			1.78 Water	, District	6.00 AI	38.00 AF	Irrigator
9	Oct	0.1 Renovate	50	Spring Tooth Renovator,	5.00				Tractor
10	Oct	0.1 Plant Pickup Use		Grain Drill, 16' Pickup Truck, 1/2 Ton	4.00 Alfal: 0.75	fa Sd, Cert	25.00 Lb	210.00 CW	Tractor

WATER SOURCE:

CAID

Machine times, labor times, and material rates are for one time over the designated acreage.

FARM: Pinal County Farm

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^{**} A water assessment charge of \$18.75/Acre included as ownership cost in Table 5B.