COUNTY: CROP: AREA:	Pima Alfalfa Hay w/Graze Marana	FARM: ACRES: YIELD:	Pima	1.0 8.3			WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	C-MID Flood Basin Alfalfa Hay	TILLAGE: SOIL: DATE:	Conventional Sandy-Loam 10/14/96
It	em			Ü	nit	Quantity	y Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME	-> Alfalfa			T	on	8.30	\$82.0000	\$680.60	\$680.60	
CASH LA	ND PREPARATION AND GRO	OWING EX	PENSES	S (incl	uding sal	es tax)				
Pai	d Labor (including be	nefits)							25.23	
	Irrigation							25.23		
Che	micals & Custom Appli	cations							8.74	
	Insecticides							8.74		
	m Machinery and Vehic								0.00	
Irr	igation Water (exclud	ing labo	r)						198.00	
	TOTA	AL CASH	LAND I	PREPARA	TION AND	GROWING EX	KPENSES	•	231.97	
CASH HA	RVEST AND POST HARVES	r expensi	ES							
Pai	d Labor (including be	nefits)							31.54	
	Tractor/Self Prope							18.25		
	Other/Contract							13.29		
Far	m Machinery and Vehic	les							53.89	
	Diesel Fuel							12.71		
	Repairs & Maint.							41.18		
Oth	er Materials								23.66	
	TOTA	AL HARVE	ST ANI	POST	HARVEST E	XPENSE		•	109.09	
OPERATI	NG OVERHEAD->PICKUP U	SE							10.04	
OPERATI	NG INTEREST AT 9.0%								0.14	
	тота	AL CASH (	OPERAT	TING EX	PENSES			:	\$351.25	========
					RATING EX	PENSES			\$329.35	

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

COUNTY: Pima FARM: Pima County Farm WATER SOURCE: C-MID TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: 1.0 Sandy-Loam IRRIGATION SYSTEM: Flood Basin SOIL: 8.3 Tn/Acre 10/14/96 AREA: Marana YIELD: PREVIOUS CROP: Alfalfa Hay DATE:

ANDA. Marana 11910. 0.5 In/AC	re ingvious choi. Ailaii	a nay DAIE: 10/14/50
	- CASH COST BASIS (\$/ACRE) -	- TOTAL COST BASIS (\$/ACRE) -
Item	Income & Costs Net Returns	Income & Costs Net Returns
TOTAL INCOME at \$ 82.0000/Tn	\$680.60	\$680.60
TOTAL OPERATING EXPENSES	351.24	i 351.24
RETURN OVER CASH OPERATING EXPENSES	\$329.35	\$329.35
CASH OVERHEAD EXPENSES		\{
Taxes, Housing & Insur., Farm Machinery	7.88	i 7.88
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	17.56	17.56
General Farm Maint. (3% of Tot. Oper. Exp.)	10.54	1 10.54
General Palm Maine. ( 30 of 10t. Oper. Exp.)	10.34	
Total Cash Overhead Expenses	35.98	35.98
Total Cash Oper. & Over. Cost	387.23	387.23
RETURNS OVER CASH OPER. & OVER. EXPENSES.	293.36	293.36
CAPITAL ALLOCATIONS (100% Equity)		
Capital Replacement, Machinery & Vehicles		54.54
Interest on Equity, Machinery & Vehicles		33.38
	91.96	) 3.38   91.96
Stand Establishment ( 3 Year Crop)	91.96	91.96 
Total Capital Allocations	91.96	149.88
RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK	<del></del>	
RETURNS TO LAND, MANAGEMENT & RISK -		<del> </del>
LAND COSTS / OWNERSHIP (100% Equity)		
Property Taxes (\$540 X 16% X .14778)	12.76	12.76
	12.70	32.40
Opport. Inter. on Land (100% X 6.0% X \$540)		1 32.40 1 ———
Total Land Costs	12.76	45.16
RETURNS TO MANAGEMENT, CAPITAL & RISK	12.70	1 43.10
RETURNS TO MANAGEMENT, CAPITAL & RISK	7 188.04	> 98.31
		1
Management Services ( 8% of Tot. Oper. Exp.)		28.09
TOTAL OWNERSHIP COST	140.71	259.13
	=======	=======
TOTAL COST RETURN TO MANAGEMENT, CAPITAL & RISK ————————————————————————————————————	\$491.95	\$610.38
RETURN TO MANAGEMENT, CAPITAL & RISK —	<b>&gt;</b> \$188.64	1
RETURN TO RISK (PROFITS)		
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Tn)	\$42.31	\$42.31
BREAK-EVEN PRICE TO COVER OWNERSHIP COST	\$16.95	\$31.22
BREAK-EVEN PRICE TO COVER TOTAL COST	\$59.27	\$73.53
	,	, ,,,,,,,,

Table 5C. Variable Operating Costs; Alfalfa Hay, 1996

COUNTY:	Pima	FARM:	Pima County	Farm	WATER SOURCE:	C-MID	TILLAGE:	Conventional
CROP:	Alfalfa Hay w/Graze	ACRES:	1.0		IRRIGATION SYSTEM:	Flood Basin	SOIL:	Sandy-Loam
AREA:	Marana	YIELD:	8.3	Tn/Acre	PREVIOUS CROP:	Alfalfa Hay	DATE:	10/14/96

	First		— Hours * -   — Operating Costs (\$/Acre*) —								Tot. Cash			
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class		
1	Mar	Irrigate		0.300	1	2.10		16.50	18.60	12.0	223.20	G		
2	Apr	Swathing	0.180	0.200	2.40	1.40			3.80	7.0	26.63	H		
3	Apr	Raking	0.150	0.167	1.16	1.40			2.56	7.0	17.93	H		
4	Apr	Baling	0.129	0.143	3.06	1.20		3.38	7.64	7.0	53.49	H		
5	Apr	Roadsiding	0.064	0.071	1.07	0.50			1.57	7.0	11.00	H		
6	Aug	Apply Insecticide/Air			1		6.00	2.74	8.74	1.0	8.74	G		
		Pickup Use 40 Mi/Ac	1.330		10.04						10.04	0		
		Operating Interest at 9.00%					0.14				0.14	0		
		TOTAL CASH OPERATING EXPENSE	S:		\$63.93	\$56.70	\$6.14	\$224.40			\$351.17	T		

<sup>\*</sup> 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.

OPERATING COST SUMMARY BY	CLASS	Τ		SENS	ITIVIT	Y OF NET	REVENUES	OVER TOTAL	CASH EXPE	NSES (\$/Acı	re)
Land Preparation (L)	\$0.00	- [	Prices ->		1	-25%	-10%	Budgeted	+10%	+25%	
Growing (G)	231.94	- 1									
Harvest (H)	109.04	- 1	Yields		1	\$61.50	\$73.80	\$82.00	\$90.20	\$102.50	Break-even
Post Harvest (P)	0.00	- 1			I						
Marketing (M)	0.00	- 1	-25%	6.2	1	58.92	135.49	186.54	237.58	314.15	52.03
Operating Overhead (O)	10.18	- 1	-10%	7.4	1	119.13	211.02	272.27	333.52	425.40	45.55
		- 1	Budgeted	8.3	1	159.27	261.36	329.42	397.48	499.57	42.30
Total (T)	\$351.17	- 1	+10%	9.1	1	199.42	311.71	386.58	461.45	573.75	39.65
		Τ	+25%	10.3	1	259.63	387.24	472.31	557.39	685.00	36.47
		Τ	Break-even	Yield	1	5.00	3.99	3.51	3.14	2.70	

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	_	ay w/Graze	FARM: Pima ACRES: YIELD:		ounty Farm 1.0 8.3 Tn/Acre	IRR	ER SOUF IGATION VIOUS O	1 SY	STEM: Flood E			Conventional Convention Conventio	am
		Water		1			— Or	era	ting Cost (\$/	Acre) —			
Month *	Number Irrig.	Applied (Inches)	Total Labor (Hrs)	į	Purchased Water	Fuel, Oil & Repairs	Labo		Chemicals	Other Purchases	Service	es To	tal
MAR C	1.0	6.0	0.30	ı	16.50		2.1	LO				1	8.60
APR C	1.0	6.0	0.88	1	16.50	7.70	6.6	51		3.38		3-	4.19
MAY C	2.0	12.0	1.18	Ĺ	33.00	7.70	8.7	71		3.38		5	2.79
JUN C	2.0	12.0	1.18	i	33.00	7.70	8.7			3.38		5:	2.79
JUL C	2.0	12.0	1.18	i	33.00	7.70	8.7	71		3.38		5	2.79
AUG C	2.0	12.0	1.18	i	33.00	7.70	8.7		2.74	3.38	6.00	_	1.53
SEP C	1.0	6.0	0.88	i	16.50	7.70	6.6		_,	3.38			4.19
OCT C	1.0	6.0	0.88	i	16.50	7.70	6.6			3.38			4.19
	se 40 Mi			'		10.04	•	-		3.33		_	0.04
		t at 9.0%	;			20.01					0.14		0.14
Total	12.0	72.0	7.66	1	198.00	63.93	56.7	77	2.74	23.66	6.14	1 35	1.25
8				i	56.37	18.20	16.1		0.78	6.73	1.74		0.00
TOTAL RE	SOURCES R	EQUIREMENTS	(/Acre)	ī	OTAL ENERGY RI	EQUIREMENTS (//	Acre)						
Total	N	0.0 lbs			Diesel Fuel		14.7	Ga	1				
Total	P	0.0 lbs			Regular Gas		0.0	Ga	1				
Total	K	0.0 lbs			NonLead Gas		4.0	Ga	1				
Total	Labor	7.6 Hrs											
Total	Water	72.0 AI			All Direct E	nergy	2.5	M	BTU				
EQUIPMEN	T REQUIRE	MENTS (/Acre	·)										
Windro	wer, 14.0	', HS, SC	1.26 H	rs	Tractor, 50	PTO HP, MFWD		1.	05 Hrs Rake,	9.5' LH AND	RH	1.05	Hrs
• • • •			0.90 H	rs	Baler, 3 wire	e w/motor		0.	90 Hrs Bale	Wagon, SP PRO	2	0.45	Hrs
	Truck, 1	•	1.33 H	rs	,	·				<i>,</i>			
	S REQUIRE	MENTS (/Acre	72.00 A	I	Baling Wire	(6500')		3.	43 TF Dimet	thoate		1.00	Pt
LABOR REQUIREMENTS (/Acre) Irrigators			3.60 н	rs	Harvest			1.	90 Hrs Tract	cor		2.17	—— Hrs

<sup>\*</sup> NOTE: P = Previous Year C = Current Year N = Next Year

Table 5E. Schedule of Operations; Alfalfa Hay, 1996 Page 18

COUNTY CROP: AREA:	<pre>f: Pima    Alfalfa Hay w/Graze    Marana</pre>	FARM: Pima County Farm ACRES: 1.0 YIELD: 8.3 Tn/Acre	WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	C-MID Flood Basin Alfalfa Hay	TILLAGE: Conventional SOIL: Sandy-Loam DATE: 10/14/96
	rst onth Times Operation	Equipment/Custom Oper. HP Self-Prop./Implem.	Job Rate — Mater Acres/Hr Name	ial Use & Cost — Appl. Rate \$/Uni	
	or 7.0 Baling or 7.0 Roadsiding ug 1.0 Apply Insecticio	Windrower, 14.0', HS, 50 Rake, 9.5' LH AND RH 70 Baler, 3 wire w/motor Bale Wagon, SP PRC de/Air CST Air Spray, 3 Gal M Mi/Ac Pickup Truck, 1/2 Ton	6.00 7.00 Baling Wire (650 14.00	6.00 AI 33.00 0 0.49 TF 6.57 1.00 Pt 20.90	Harvest Tractor TF Tractor Harvest

<sup>\*</sup> NOTE: Machine times, labor times, and material rates are for one time over the designated acreage.

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