COUNTY: Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam YIELD: AREA: Marana 8.2 Tn / Acre PREVIOUS CROP: DATE: 2/5/99 Cotton, Upland

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Alfalfa	Ton	8.20	\$96.70	\$792.94	\$792.94	
CASH LAND PREPARATION AND GRO Paid Labor (including benefits) Irrigation	OWING EXPENSES (in	cluding sales tax)		24.57	24.57	
Chemicals and Custom Applications Insecticide				7.71	7.71	
Irrigation Water (excluding labor) Water Assessment (See Note Below)	**				180.00	
то	TAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		212.27	
CASH HARVEST AND POST HARVEST	EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled Other/Contract				17.77 12.95	30.71	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				9.69 80.50	90.19	
Other Materials					23.66	
ТО	TAL HARVEST AND P	OST HARVEST EXPENS	SE		144.57	
OPERATING OVERHEAD PICKUP U	ISE				9.88	
OPERATING INTEREST AT 10.0%					18.03	
	TAL CASH OPERATIN ETURNS OVER CASH	IG EXPENSES I OPERATING EXPENSI	ES		\$384.76 \$408.18	

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.

^{**} A water assessment charge of \$40.00 per Acre is included as an ownership cost in Table B.

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional RRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

Item	CASH COST BASI Income and Costs	S (\$/ACRE) Net Returns	TOTAL COST BAS Income and Costs	SIS (\$/ACRE) Net Returns
TOTAL INCOME at \$96.70 / Tn	\$792.94		\$792.94	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$384.76	\$408.18	\$384.76	\$408.18
CASH OVERHEAD EXPENSES Taxes, Housing and Insurance, Farm Machinery General and Office Overhead (5.0% of Total Operating Exp.) General Farm Maintenance (3.0% of Total Operating Exp.)	9.37 19.24 11.54		9.37 19.24 11.54	
Total Cash Overhead Expenses	40.16		40.16	
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	424.91	\$368.03	424.91	\$368.03
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles Stand Establishment (3 year crop)	102.88		65.17 4.02 102.88	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	102.88	\$265.14	172.08	\$195.95
Land Cost / Ownership (100% Equity) Property Taxes (\$540.00 X 16.0% X 0.183) Opportunity Interest on Land (100% X 6.0 X \$540.00) Water Assessment	15.87 40.00		15.87 32.40 40.00	
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	55.87 >	\$209.27	88.27	\$107.68
Management Services (8% of Total Operation Expenses)			30.78	
TOTAL OWNERSHIP COST	198.91		331.28	
TOTAL COST RETURNS TO CAPITAL, MANAGEMENT AND RISK	\$583.67	\$209.27	\$716.04	
RETURNS TO RISK (PROFITS)			 >	\$76.90
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$46.92 \$24.26		\$46.92 \$40.40
BREAK-EVEN PRICE TO COVER TOTAL COST		\$71.18	ı	\$87.32

COUNTY:Pima FARM: Pima County 98 TILLAGE: Conventional WATER SOURCE: Cortaro-Marana CROP: Alfalfa Hay w/Graze ACRES: IRRIGATION SYSTEM: Flood Basin Sandy-Loam 1.0 YIELD: 8.2 Tn / Acre PREVIOUS CROP: 2/5/99 AREA: Marana Cotton, Upland DATE:

	First		Hour	s *	Operati	ng Costs ((\$/ACRE *) Per Opera	tion		Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Mar	Irrigate		0.300		2.05		15.00	17.05	12.0	204.57	G
2	Apr	Swathing	0.180	0.200	2.61	1.36			3.98	7.0	27.84	Н
3	Apr	Raking	0.150	0.167	1.16	1.37			2.53	7.0	17.69	Н
4	Apr	Baling	0.129	0.143	3.54	1.17		3.38	8.09	7.0	56.65	Н
5	Apr	Roadsiding	0.064	0.071	5.57	0.48			6.06	7.0	42.39	Н
6	Aug	Apply Insecticide/Air					4.23	3.48	7.71	1.0	7.71	G
	Ū	Pickup Use40 Mi/Acre	1.333		9.88						9.88	
		Operating Interest at 10.0					18.03				18.03	
TOTAL	L CASH	OPERATING EXPENSES (i	ncludes all	times over)	:						384.76	Т

*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 \$40.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	Y CLASS
Land Preparation (L)	0.00
Growing (G)	212.27
Harvest (H)	144.57
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	27.91
Total (T)	\$384.76

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Yields		\$72.52	\$87.03	\$96.70	\$106.37	\$120.88	Break-even Price
- 25%	6.1	94.99	184.19	243.66	303.13	392.34	57.08
- 10%	7.4	162.51	269.55	340.92	412.28	519.33	50.51
Budgeted	8.2	207.52	326.46	405.75	485.05	603.99	47.22
+ 10%	9.0	252.53	383.37	470.59	557.82	688.65	44.53
+ 25%	10.3	320.05	468.73	567.85	666.96	815.64	41.30
Break-even Y	ield	4.42	3.50	3.07	2.73	2.35	

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: IRRIGATION SYSTEM: Flood Basin Sandy-Loam SOIL: YIELD: AREA: Marana 8.2 Tn / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

Water										
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total
			· · · · · · · · · · · · · · · · · · ·							
MAR C	1.0	6.0	0.30	15.00		2.05				17.05
APR C	1.0	6.0	0.88	15.00	12.88	6.43		3.38		37.70
MAY C	2.0	12.0	1.18	30.00	12.88	8.48		3.38		54.75
JUN C	2.0	12.0	1.18	30.00	12.88	8.48		3.38		54.75
JUL C	2.0	12.0	1.18	30.00	12.88	8.48		3.38		54.75
AUG C	2.0	12.0	1.18	30.00	12.88	8.48	3.48	3.38	4.23	62.46
SEP C	1.0	6.0	0.88	15.00	12.88	6.43		3.38		37.70
OCT C	1.0	6.0	0.88	15.00	12.88	6.43		3.38		37.70
Pickup Use					9.88					9.88
	iterest at 10.0	1							18.03	18.03
Water Asses	ssment			**						
Total	12.0	72.0	7.67	180.00	100.08	55.28	3.48	23.66	22.26	384.76
%				46.78	26.01	14.37	0.90	6.15	5.79	100.00
Total N Total P Total K Total Labo Total Wate		0.0 0.0 0.0 7.7 72.0	- (Diesel Fi Unleade All Direc	d Gas	14.3 Ga 4.0 Ga	ı ,			
FQUIPMEN'	T REQUIREM	MENTS (per	Acre)							
	on, SP PRC		45 Hr	Baler, 3 wire w/mo	otor 0.	.90 Hr	Pickup Trı	ıck, 1/2 Ton	1.33 Hr	
	' LH AND RH		.05 Hr	Tractor, 50 PTO H		.05 Hr		0 PTO HP,	0.90 Hr	
Windrowe	er, 14.0', HS,	SC 1.	.26 Hr	,	,		•	,		
	REQUIREM vine (6500')		cre) 43 TF	Dimethoate	1.	.00 Pt	Water, Dis	trict	72.00 AI	
Harvest	QUIREMENT	``	90 Hr	Irrigators	3.	.60 Hr	Tractor		2.17 Hr	

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

^{**} A water assessment charge of \$40.00 per Acre is included as an ownership cost in Table B.

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Alfalfa Hay w/Graze ACRES: IRRIGATION SYSTEM: Flood Basin SOIL: Sandy-Loam 1.0 8.2 Tn / Acre PREVIOUS CROP: YIELD: AREA: Marana Cotton, Upland DATE: 2/5/99

N	First o.Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Materia Acres/Hr Name	Use and Cost Service Cost Labor Appl. Rate \$ / Unit \$ / Unit Type
1	Mar	12.0 Irrigate		3.33 Water, District	6.00 Al 30.00 AF Irrigators
2	Apr	7.0 Swathing	Windrower, 14.0', HS, SC	5.00	Harvest
3	Apr	7.0 Raking	50 Rake, 9.5' LH AND RH	6.00	Tractor
4	Apr	7.0 Baling	70 Baler, 3 wire w/motor	7.00 Baling Twine (6500)	0.49 TF 6.57 TF Tractor
5	Apr	7.0 Roadsiding	Bale Wagon, SP PRC	14.00	Harvest
6	Aug	1.0 Apply Insecticide/Air	CST Air Spray, 3 Gal Mix	Dimethoate	1.00 Pt 26.50 Ga 4.23 Ac
		Pickup use 40 Mi/Ac	Pickup Truck, 1/2 Ton	0.75	

^{*}NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.