COUNTY: Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Solum Barley ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: AREA: YIELD: 3,000.0 Lb / Acre PREVIOUS CROP: DATE: 2/17/99 Marana Cotton, Upland

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	3,000.00	\$0.06	\$189.00	\$189.00	
CASH LAND PREPARATION AND Paid Labor (including benefits) Tractor/Self Propelled Irrigation	GROWING EXPENSES (inc	cluding sales tax)		9.18 10.26	19.45	
Chemicals and Custom Applicat Fertilizer	ions			14.71	14.71	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				4.07 8.20	12.27	
Irrigation Water (excluding labor Water Assessment (See Note Both					40.00	
Other Purchased Inputs & Seed/Transplants				7.98	7.98	
	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		94.40	
CASH HARVEST AND POST HAR	VEST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				0.20	0.20	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.08 0.15	0.22	
Custom Harvest/Post Harvest					38.10	
	TOTAL HARVEST AND P	OST HARVEST EXPEN	SE		38.53	
	UP USE				7.41	
OPERATING INTEREST AT 10.0%					1.86	
	TOTAL CASH OPERATIN				\$142.20	
	RETURNS OVER CASH	I OPERATING EXPENS	ES		\$46.80	

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

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

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Solum Barley ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Marana YIELD: 3,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/17/99

Itam	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
Item		Net Returns	
TOTAL OPERATING SYPENIORS	\$189.00		\$189.00
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$142.20	\$46.80	\$142.20 \$46.80
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.)	1.48 7.11 4.27		1.48 7.11 4.27
Total Cash Overhead Expenses	12.86		12.86
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	155.06	\$33.94	155.06 \$33.94
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			8.44 4.44
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$33.94	12.88
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)	15.87		15.87 32.40
Water Assessment	40.00		40.00
Total Land Costs	55.87		88.27
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	>	(\$21.93)	(\$67.21)
Management Services (8% of Total Operation Expenses)			11.38
TOTAL OWNERSHIP COST	68.73		125.38
TOTAL COST	\$210.93		**************************************
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	(\$21.93)	> (\$78.59)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.05 \$0.02	\$0.05 \$0.04
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.02	\$0.04 \$0.09

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Solum Barley ACRES: Sandy-Loam 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: AREA: Marana YIELD: 3,000.0 Lb / Acre PREVIOUS CROP: 2/17/99 Cotton, Upland DATE:

	First		Hour	s *	Operati	ng Costs (\$/ACRE *) Per Ope	Tot. Cash			
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	ıst/Serv. Materials	Total	Times		Class
1	Nov	Apply Fert/Ground	0.075	0.083	0.53	0.68	14.71	15.92	1.0	15.92	G
2	Nov	Disk	0.225	0.250	3.78	2.05		5.82	1.0	5.82	L
3	Nov	List	0.237	0.263	1.92	2.15		4.08	1.0	4.08	L
4	Dec	Plant	0.225	0.250	2.15	2.05	7.98	12.18	1.0	12.18	L
5	Dec	Buck Rows	0.023	0.025	0.11	0.20		0.32	1.0	0.32	G
6	Dec	Irrigate		0.752		5.13	20.00	25.13	2.0	50.26	G
7	Apr	Prepare Ends	0.023	0.025	0.22	0.20		0.43	1.0	0.43	Н
8	May	Harvest					37.85	37.85	1.0	37.85	Н
9	May	Haul 0					0.25	0.25	1.0	0.25	Н
10	May	Disk Residue 1 CW	0.225	0.250	3.78	2.05		5.82	1.0	5.82	L
	,	Pickup Use30 Mi/Acre	1.000		7.41					7.41	
		Operating Interest at 10.0					1.86			1.86	
TOTAL	TOTAL CASH OPERATING EXPENSES (includes all times over): 142.20 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 \$40.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY E	BY CLASS	SENSITIVIT	Y OF THE I	NET REVE	NUES OVE	R TOTAL CA	SH EXPENS	SES (\$/ACRE	≣)
Land Preparation (L)	27.90	Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	
Growing (G) Harvest (H)	66.50 38.53	Yields		\$0.05	\$0.06	\$0.06	\$0.07	\$0.08 E	Break-even Price
Post Harvest (P)	0.00	- 25%	2,250.0	-27.22	-5.96	8.21	22.39	43.65	0.06
Marketing (M)	0.00	- 10%	2,700.0	-11.74	13.77	30.78	47.79	73.31	0.05
Operating Overhead (O)	9.27	Budgeted	3,000.0	-1.42	26.93	45.83	64.73	93.08	0.05
	=========	+ 10%	3,300.0	8.90	40.09	60.88	81.67	112.85	0.04
Total (T)	\$142.20	+ 25%	3,750.0	24.39	59.82	83.45	107.07	142.51	0.04
		Break-even	Yield	3,041.24	2,385.95	2,086.26	1,853.46	1,587.71	

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Solum Barley ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam SOIL: AREA: Marana YIELD: 3,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/17/99

Water				Operating Costs (\$/ACRE *)								
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labo	Chom	nicals	Other Purchases	Services	Total	
MOTILI	irrigations	(inches)	Labor (nrs)	water	and Repairs	Labo	Chen	ilicais	Pulchases	Services	TOLAI	
NOV P			0.60		6.23	4.8	8	14.71			25.82	
DEC P	1.0	8.0	1.03	20.00	2.27	7.3	8		7.98		37.63	
MAR C	1.0	8.0	0.75	20.00		5.1	3				25.13	
APR C			0.03		0.22	0.2	0				0.43	
MAY C			0.25		3.78	2.0	5			38.10	43.57	
Pickup Use:	30 Mi/Acre				7.41						7.41	
	iterest at 10.0)								1.86	1.86	
Water Asses	ssment			**								
Total	2.0	16.0	2.65	40.00	19.91	19.6	35	14.71	7.98	39.96	142.20	
%				28.13	14.00	13.8		10.34	5.61	28.10	100.00	
Total P Total K Total Labo Total Wat		0.0 0.0 2.7 16.0		Unleaded All Direct			Gal И BTU					
		10.0										
EQUIPMEN	T REQUIREM	MENTS (per	Acre)									
	Broadcaster,		08 Hr	Grain Drill, 14'	().22 Hr	Lis	ster, 5 B	ottom	0.24 Hr		
Offset Dis	sk, 13.5'	0.	02 Hr	Offset Disk, 16.5'	().45 Hr	Pic	ckup Tru	uck, 1/2 Ton	1.00 Hr		
Rowbuck	, 10'	0.	02 Hr	Tractor, 70 PTO H	IP, ().25 Hr	Tra	actor, 10	00 PTO HP,	0.33 Hr		
Tractor, 1	50 PTO HP	0.	45 Hr									
MATERIAL		CNT / nos As										
46-00-00	REQUIREM , Urea 46		ore) 00 Lb	Solum Barley	40	0.00 Lb	Wa	ater, Dis	strict	16.00 AI		
LABOR REG	QUIREMENT	(per Acre)										
Irrigators		´´ ´1.	50 Hr	Tractor	•	1.15 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 ACRES: CROP: Solum Barley IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 3,000.0 Lb / Acre PREVIOUS CROP: AREA: Marana YIELD: Cotton, Upland DATE: 2/17/99

N	First o.MonthT	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Use and Cos Appl. R	t ate \$ / Unit	Service Cost \$ / Unit	Labor Type
1	Nov	1.0 Apply Fert/Ground	100 Fertilizer Broadcaster,	12.00	46-00-00, Urea 46	109.00 Lb	257.00	Γn	Tractor
2	Nov	1.0 Disk	150 Offset Disk, 16.5'	4.00					Tractor
3	Nov	1.0 List	100 Lister, 5 Bottom	3.80					Tractor
4	Dec	1.0 Plant	70 Grain Drill, 14'	4.00	Solum Barley	40.00 Lb	19.00 C	W	Tractor
5	Dec	1.0 Buck Rows	70 Rowbuck, 10'	40.00	•				Tractor
6	Dec	2.0 Irrigate		1.33	Water, District	8.00 A	30.00 A	۸F	Irrigators
7	Apr	1.0 Prepare Ends	100 Offset Disk, 13.5'	40.00	•				Tractor
8	May	1.0 Harvest	CST Combine Barley					37.50 Ac	;
9	May	1.0 Haul	CST Haul Grain					0.25 C	· •
10	May	1.0 Disk Residue	150 Offset Disk, 16.5'	4.00					Tractor
	,	Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00					

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