COUNTY: Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Wheat, Durum ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Marana YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	5,000.00	\$0.08	\$375.00	\$375.00	
CASH LAND PREPARATION AND Paid Labor (including benefits) Tractor/Self Propelled Irrigation	GROWING EXPENSES (in	cluding sales tax)		13.61 12.28	25.89	
Chemicals and Custom Applicat Fertilizer	ions			55.41	55.41	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				6.57 13.27	19.84	
Irrigation Water (excluding labor Water Assessment (See Note B					90.00	
Other Purchased Inputs & Seed/Transplants				26.46	26.46	
	TOTAL CASH LAND PRE	PARATION AND GROW	/ING EXPENSES		217.60	
CASH HARVEST AND POST HAR	VEST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				0.11	0.11	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.06 0.13	0.19	
Custom Harvest/Post Harvest					72.45	
	TOTAL HARVEST AND F	OST HARVEST EXPEN	SE		72.75	
OPERATING OVERHEAD PICK	UP USE				4.94	
OPERATING INTEREST AT 10.0%)				8.84	
	TOTAL CASH OPERATIN				\$304.13	
	RETURNS OVER CASI	H OPERATING EXPENS	ES		\$70.87	

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 CROP: Wheat, Durum ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Marana YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

	CASH COST BASIS	S (\$/ACDE)	TOTAL COST BASIS (\$/ACRE)				
ltem	Income and Costs	Net Returns	Income and Costs Net Returns				
TOTAL INCOME at \$0.08 / Lb	\$375.00		\$375.00				
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$304.13	\$70.87	\$304.13 \$70.87				
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.)	2.27 15.21 9.12		2.27 15.21 9.12				
Total Cash Overhead Expenses	26.60		26.60				
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	330.73	\$44.27	330.73 \$44.27				
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			13.00 5.55				
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$44.27	18.55 \$25.72				
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 >	(\$11.60)	 88.27 > (\$62.55)				
Management Services (8% of Total Operation Expenses)			24.33				
TOTAL OWNERSHIP COST	82.48		157.75				
TOTAL COST	\$386.60		\$461.88				
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	(\$11.60)	(\$86.88)				
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.06 \$0.02	\$0.06 \$0.03	—			
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.02	\$0.03 \$0.09				

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: TILLAGE: Conventional Cortaro-Marana ACRES: CROP: Wheat, Durum 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Marana YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

	First		Operating Costs (\$/ACRE *) Per Operation						Tot. Cash			
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv. N	/laterials	Total	Times	Expenses	Class
1	Nov	Apply Fert/Ground	0.075	0.083	0.47	0.68		25.27	26.42	1.0	26.42	G
2	Nov	Disk	0.225	0.250	3.78	2.05			5.82	2.0	11.64	L
3	Dec	List	0.180	0.200	2.67	1.64			4.30	1.0	4.30	L
4	Dec	Shape Beds	0.180	0.200	1.30	1.64			2.93	1.0	2.93	L
5	Dec	Plant	0.277	0.308	2.52	2.52		26.46	31.50	1.0	31.50	L
6	Dec	Disk Ends	0.011	0.013	0.19	0.11			0.30	1.0	0.30	G
7	Dec	Buck Rows	0.023	0.025	0.12	0.20			0.33	1.0	0.33	G
8	Dec	Irrigate		0.600		4.09		30.00	34.09	1.0	34.09	G
9	Mar	Irrigate		0.300		2.05		15.00	17.05	2.0	34.09	G
10	Mar	Irrigate/Run Fertilizer		0.300		2.05		30.07	32.11	2.0	64.23	G
11	May	Prepare Ends	0.011	0.013	0.19	0.11			0.30	1.0	0.30	Н
12	May	Combine Harvest					57.45		57.45	1.0	57.45	Н
13	May	Haul, Custom 60 CW					15.00		15.00	1.0	15.00	Н
14	Jun	Disk Residue 60 CW	0.300	0.333	5.03	2.73			7.76	1.0	7.76	L
		Pickup Use20 Mi/Acre	0.667		4.94						4.94	
		Operating Interest at 10.0		I			8.84				8.84	
TOTAL	L CASH	OPERATING EXPENSES (i	ncludes all	times over):	•						304.13	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	/ CLASS
Land Preparation (L)	58.14
Growing (G)	159.46
Harvest (H)	72.75
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	13.78
Total (T)	\$304.13

SENSITIVITY	OF THE	NET DEVE	NI IES OV	ED TOTAL	CASHEYE	ENISES (\$/A	CBE)
SLINSIIIVIII		INC I INC VE	INULS OV	LK IOIAL	CASHEAR	LINGLO (\$/A	

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)										
Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%				
Yields		\$0.06	\$0.07	\$0.08	\$0.08	\$0.09	Break-even Price			
- 25%	3,750.0	-76.15	-33.97	-5.84	22.28	64.47	0.08			
- 10%	4,500.0	-44.88	5.75	39.50	73.25	123.87	0.07			
Budgeted	5,000.0	-24.03	32.22	69.72	107.22	163.47	0.06			
+ 10%	5,500.0	-3.18	58.70	99.95	141.20	203.07	0.06			
+ 25%	6,250.0	28.10	98.41	145.29	192.16	262.47	0.05			
Break-even Yield		5,576.21	4,391.48	3,846.64	3,422.08	2,935.99				

COUNTY:Pima CROP: Wheat, Durum

AREA: Marana

FARM: Pima County 98 ACRES: 1.0

YIELD:

WATER SOURCE: IRRIGATION SYSTEM: Flood Furrow 5,000.0 Lb / Acre PREVIOUS CROP:

Cortaro-Marana Cotton, Upland

TILLAGE: Conventional SOIL: Sandy-Loam

DATE: 2/5/99

		Water		Operating Costs (\$/ACRE *)							
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
NOV P			0.33		4.25	2.73	25.27			32.24	
DEC P	1.0	12.0	1.60	30.00	10.56	12.25		26.46		79.27	
MAR C	1.0	6.0	0.30	15.00		2.05	15.07			32.11	
APR C	2.0	12.0	0.60	30.00		4.09	15.07			49.16	
MAY C	1.0	6.0	0.31	15.00	0.19	2.15			12.60	29.94	
JUN C			0.33		5.03	2.73			59.85	67.61	
Pickup Use:				ļ	4.94				0.04	4.94	
	terest at 10.0			**					8.84	8.84	
Water Asses	ssment										
Total	5.0	36.0	3.47	90.00	24.97	26.00	55.41	26.46	81.29	304.13	
%				29.59	8.21	8.55	18.22	8.70	26.73	100.00	
TOTAL RES Total N Total P Total K Total Labo Total Wate		QUIREMENT 138.2 40.0 0.0 3.5 36.0	S (per Acre)	TOTAL ENE Diesel Fi Unleade All Direct	d Gas	9.8 Ga 2.0 Ga	al				
	T REQUIREM										
Bed Shap			.18 Hr	Fertilizer Broadcas		.08 Hr	Grain Drill		0.28 Hr		
Lister, 7 E Rowbuck		_	.18 Hr .02 Hr	Offset Disk, 16.5' Tractor, 60 PTO F	-	.77 Hr .30 Hr		uck, 1/2 Ton '0 PTO HP	0.67 Hr 0.08 Hr		
	00 PTO HP,	_	18 Hr	Tractor, 150 PTO		.95 Hr	Tractor, 7	UPIONE	U.U6 HI		
MATERIALS	REQUIREM	ENT (per A	cre)								
16-20-00			00 [°] Lb	32-00-00, URAN 3	32, Lqd 30	.00 Ga	Durum Wi	neat Sd, Cert	120.00 Lb		
Water, Di	strict	36.	.00 AI								
LABOR REC	QUIREMENT		80 Hr	Tractor	1	.67 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: Wheat, Durum ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Marana YIELD: 5,000.0 Lb / Acre PREVIOUS CROP: Cotton, Upland DATE: 2/5/99

No	First o.Month	Times Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		se and Cos Appl. R	t ate \$ / Unit	Service Cost \$ / Unit	Labor Type
1	Nov	1.0 Apply Fert/Ground	70 Fertilizer Broadcaster,	12.00	16-20-00, Dry	200.00 Lb	240.67 T	'n	Tractor
2	Nov	2.0 Disk	150 Offset Disk, 16.5'	4.00	·				Tractor
3	Dec	1.0 List	150 Lister, 7 Bottom	5.00					Tractor
4	Dec	1.0 Shape Beds	100 Bed Shaper, 6 Rw	5.00					Tractor
5	Dec	1.0 Plant	60 Grain Drill, 12'	3.25	Durum Wheat Sd, Cert	120.00 Lb	21.00 C\	N	Tractor
6	Dec	1.0 Disk Ends	150 Offset Disk, 16.5'	80.00					Tractor
7	Dec	1.0 Buck Rows	60 Rowbuck, 10'	40.00					Tractor
8	Dec	1.0 Irrigate		1.67	Water, District	12.00 A	I 30.00 A	F	Irrigators
9	Mar	2.0 Irrigate		3.33	Water, District	6.00 A	I 30.00 A	F	Irrigators
10	Mar	2.0 Irrigate/Run Fertilizer		3.33	Water, District	6.00 A	I 30.00 A	F	Irrigators
		G			32-00-00, URAN 32,	15.00 Ga	a 173.00 T	'n	· ·
11	May	1.0 Prepare Ends	150 Offset Disk, 16.5'	80.00					Tractor
12	May	1.0 Combine Harvest	CST Combine Wheat					37.50 Ad	
13	May	1.0 Haul, Custom	CST Haul Grain					0.25 C	;
14	Jun	1.0 Disk Residue	150 Offset Disk, 16.5'	3.00					Tractor
		Pickup use 20 Mi/Ac	Pickup Truck, 1/2 Ton	1.50					

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