COUNTY: Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Sorghum(Milo), Grain ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 YIELD: 2/5/99 AREA: Marana 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Winter DATE:

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Grain	Pound	3,200.00	\$0.11	\$352.00	\$352.00	
CASH LAND PREPARATION AND ( Paid Labor (including benefits)  Tractor/Self Propelled  Irrigation	GROWING EXPENSES (inc	cluding sales tax)		13.69 12.12	25.81	
Chemicals and Custom Application Fertilizer Herbicide	ons			30.14 13.37	43.51	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				6.02 12.74	18.76	
Irrigation Water (excluding labor) Water Assessment (See Note Be					75.00	
Other Purchased Inputs & Seed/Transplants				11.97	11.97	
	TOTAL CASH LAND PRE	PARATION AND GROW	'ING EXPENSES		175.05	
CASH HARVEST AND POST HARV	EST EXPENSES					
Paid Labor (including benefits) Tractor/Self Propelled				1.74	1.74	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				1.04 1.79	2.84	
Custom Harvest/Post Harvest					64.70	
	TOTAL HARVEST AND P	OST HARVEST EXPENS	SE		69.28	
	JP USE				7.41	
OPERATING INTEREST AT 10.0%					6.28	
	TOTAL CASH OPERATIN RETURNS OVER CASH	IG EXPENSES I OPERATING EXPENS	ES		\$258.03 \$93.97	

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

<sup>\*\*</sup> 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: Sorghum(Milo), Grain AREA: Marana YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Winter DATE: 2/5/99

lia-m-	CASH COST BASI		TOTAL COST BASIS (\$/ACRE)		
Item	Income and Costs	Net Returns	Income and Costs	Net Returns	
TOTAL INCOME at \$0.11 / Lb	\$352.00		\$352.00		
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$258.03	\$93.97	\$258.03	\$93.97	
		ψ93.91		ψ95.91	
CASH OVERHEAD EXPENSES  Taxes, Housing and Insurance, Farm Machinery	2.37		2.37		
General and Office Overhead (5.0% of Total Operating Exp.)	12.90		12.90		
General Farm Maintenance (3.0% of Total Operating Exp.)	7.74		7.74		
Total Cash Overhead Expenses	23.01		23.01		
Total Cash Operating and Overhead Cost	281.04		281.04		
RETURNS OVER CASH OPER. AND OVER. EXPENSES		\$70.96		\$70.96	
CAPITAL ALLOCATIONS (100% Equity)			40.00		
Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			13.80 6.43		
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK -	>	\$70.96	20.23		
RETURNS TO LAND, MANAGEMENT AND RISK			>	\$50.73	
Land Cost / Ownership (100% Equity)					
Property Taxes (\$540.00 X 16.0% X 0.183)	15.87		15.87		
Opportunity Interest on Land (100% X 6.0 X \$540.00)			32.40		
Water Assessment	40.00		40.00		
Total Land Costs	55.87	<b>4.</b>	88.27		
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	>	\$15.09 	>	(\$37.54)	
			20.64	\· ·/	
Management Services (8% of Total Operation Expenses)			20.64		
TOTAL OWNERSHIP COST	78.88		152.16		
TOTAL COST	\$336.91	<b>0</b> 45.00	\$410.18		
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	\$15.09 	>	(\$58.18)	
KETOKRO TO KIOK (FROTTIO)				(\$00.10)	
BREAK-EVEN PRICE TO COVER OPERATING COST ( PER Lb )		\$0.08		\$0.08	
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.02		\$0.05	
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.11	l	\$0.13	

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Sorghum(Milo), Grain ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 1.0 YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: 2/5/99 AREA: Marana Wheat, Winter DATE:

	First		Hour	s *	Operati	ng Costs (	\$/ACRE *) Per Opera		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor Cu	st/Serv. Materials	Total	Times	Expenses	Class
1	Jun	Disk	0.225	0.250	3.78	2.05		5.82	1.0	5.82	L
2	Jun	List	0.180	0.200	2.67	1.64		4.30	1.0	4.30	L
3	Jun	Plant	0.225	0.250	2.66	2.05	11.97	16.67	1.0	16.67	L
4	Jun	Disk Ends	0.023	0.025	0.38	0.20		0.58	3.0	1.75	G
5	Jun	Buck Rows	0.022	0.025	0.09	0.20		0.29	3.0	0.87	G
6	Jun	Apply Herbicide/Ground	0.112	0.125	1.09	1.02	13.37	15.48	1.0	15.48	G
7	Jun	Irrigate		0.294		2.01	12.50	14.51	4.0	58.02	G
8	Jul	Cultivate	0.164	0.182	1.08	1.49		2.57	2.0	5.13	G
9	Jul	Irrigate/Run Fertilizer		0.300		2.05	27.57	29.62	2.0	59.23	G
10	Oct	Prepare Ends	0.011	0.013	0.19	0.11		0.30	1.0	0.30	Н
11	Oct	Combine Harvest					52.20	52.20	1.0	52.20	Н
12	Oct	Haul, Custom 50 CW					12.50	12.50	1.0	12.50	Н
13	Nov	Cut Stalks 50 CW	0.180	0.200	2.65	1.64		4.28	1.0	4.28	Р
14	Dec	Disk Residue 50 CW	0.300	0.333	5.03	2.73		7.76	1.0	7.76	L
		Pickup Use30 Mi/Acre	1.000		7.41					7.41	
		Operating Interest at 10.0					6.28			6.28	
TOTAI	CASH	OPERATING EXPENSES (i	ncludes all	times over)	· :					258.03	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 B	Y CLASS
Land Preparation (L)	34.56
Growing (G)	140.49
Harvest (H)	65.00
Post Harvest (P)	4.28
Marketing (M)	0.00
Operating Overhead (O)	13.69
Total (T)	\$258.03

SENSITIVITY	OF THE NET	REVENUES C	N/FR TOTAL	CASH EXPENSES (\$/A	CRE

SENSITIVITY OF THE NET REVENUES OVER TOTAL CASH EXPENSES (\$/ACRE)										
Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%				
Yields		\$0.08	\$0.10	\$0.11	\$0.12	\$0.14	Break-even Price			
- 25%	2,400.0	-43.43	-3.83	22.57	48.97	88.57	0.10			
- 10%	2,880.0	-14.22	33.30	64.98	96.66	144.18	0.09			
Budgeted	3,200.0	5.25	58.05	93.25	128.45	181.25	0.08			
+ 10%	3,520.0	24.73	82.81	121.53	160.25	218.33	0.08			
+ 25%	4,000.0	53.93	119.93	163.93	207.93	273.93	0.07			
Break-even	Yield	3,113.67	2,449.47	2,144.50	1,907.06	1,635.45				

COUNTY:Pima FARM: Pima County 98 WATER SOURCE: Cortaro-Marana TILLAGE: Conventional CROP: Sorghum(Milo), Grain AREA: Marana YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Winter 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	
WIOTILIT	irrigations	(IIICHES)	Labor (HIS)	vvalei	and Repairs	Labor	Cileillicais	ruicilases	Services	TOLAI	
JUN C	1.0	5.0	1.17	12.50	10.65	9.17	13.37	11.97		57.66	
JUL C	2.0	10.0	1.01	25.00	2.61	7.44	15.07			50.13	
AUG C	2.0	10.0	0.64	25.00	0.46	4.46	15.07			44.99	
SEP C	1.0	5.0	0.29	12.50		2.01				14.51	
OCT C			0.01		0.19	0.11			32.35	32.65	
NOV C			0.10		1.32	0.82			32.35	34.49	
DEC C			0.43		6.36	3.55				9.90	
	30 Mi/Acre			·	7.41					7.41	
	nterest at 10.0	1							6.28	6.28	
Water Asse	essment			**							
Total	6.0	30.0	3.66	75.00	29.01	27.56	3 43.51	11.97	70.98	258.03	
%				29.07	11.24	10.68	16.86	4.64	27.51	100.00	
Total N Total P Total K Total K Total K Total Lab Total Wat		106.2 0.0 0.0 3.7 30.0	S ( per Acre)	Diesel Fu Unleaded All Direct	Gas	10.4 G 3.0 G	al				
EQUIPME1	NT REQUIREM	MENTS ( per	Acre)								
Directed	Spray Rig, 8	`` 0.	11 Hr	Lister, 7 Bottom	0	.18 Hr	Offset Dis	k, 16.5'	0.60 Hr		
	ruck, 1/2 Ton		00 Hr	Planter, Drill Type,		.22 Hr		ıltivator, 6 Rw	0.33 Hr		
	talk Cutter, 4 F		18 Hr	Rowbuck, 10'		.07 Hr		50 PTO HP,	0.07 Hr		
Tractor,	70 PTO HP,	0.	55 Hr	Tractor, 100 PTO H	P 0	.11 Hr	Tractor, 1	50 PTO HP	0.96 Hr		
•											
	S REQUIREM										
	), URAN 32, Lo	qd `` 30.	cre) 00 Ga 00 Al	Bromoxynil	1	.50 Pt	Grain Sor	ghum Sd	12.00 Lb		
32-00-00 Water, D	), URAN 32, Lo	qd 30. 30.	00 <sup>°</sup> Ga	Bromoxynil	1	.50 Pt	Grain Sor	ghum Sd	12.00 Lb		

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

<sup>\*\*</sup> 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: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam PREVIOUS CROP: Wheat, Winter DATE: 2/5/99

No	First o.MonthTi	mes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Jse and Cost Appl. Rate	 e \$ / Unit	Service Cost \$ / Unit	Labor Type
1	Jun	1.0 Disk	150 Offset Disk, 16.5'	4.00		-			Tractor
2	Jun	1.0 List	150 Lister, 7 Bottom	5.00					Tractor
3	Jun	1.0 Plant	70 Planter, Drill Type, 6 Row	4.00	Grain Sorghum Sd	12.00 Lb	95.00 CW	/	Tractor
4	Jun	3.0 Disk Ends	150 Offset Disk, 16.5'	40.00	-				Tractor
5	Jun	3.0 Buck Rows	50 Rowbuck, 10'	40.00					Tractor
6	Jun	1.0 Apply Herbicide/Groun	d100 Directed Spray Rig, 8	8.00	Bromoxynil	1.50 Pt	67.93 Ga	a	Tractor
7	Jun	4.0 Irrigate	, , ,	3.40	Water, District	5.00 AI	30.00 AF	=	Irrigators
8	Jul	2.0 Cultivate	70 Rolling Cultivator, 6 Rw	5.50					Tractor
9	Jul	2.0 Irrigate/Run Fertilizer		3.33	Water, District	5.00 AI	30.00 AF	=	Irrigators
		· ·			32-00-00, URAN 32,	15.00 Ga	173.00 Tr	า	· ·
10	Oct	1.0 Prepare Ends	150 Offset Disk, 16.5'	80.00					Tractor
11	Oct	1.0 Combine Harvest	CST Combine Grain Sorghum					37.50 Ac	
12	Oct	1.0 Haul, Custom	CST Haul Grain					0.25 C	
13	Nov	1.0 Cut Stalks	150 Rotary Stalk Cutter, 4 Row	5.00					Tractor
14	Dec	1.0 Disk Residue	150 Offset Disk, 16.5'	3.00					Tractor
		Pickup use 30 Mi/Ac	Pickup Truck, 1/2 Ton	1.00					
		•	•						

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