COUNTY: Maricopa Sorghum(Milo), Grain CROP:

Salt River Project

AREA:

ACRES: YIELD:

FARM: Maricopa County 98 1.0

3,200.0 Lb / Acre

WATER SOURCE: IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP:

Salt River Project Wheat, Durum

TILLAGE: Double Cropped SOIL: Sandy-Loam

DATE: 2/2/99

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 Other/ Contract	GROWING EXPENSES (in	cluding sales tax)		13.91 17.55 0.24	31.70	
Chemicals and Custom Applicat Fertilizer Insecticide Herbicide	ions			43.50 13.63 6.84	63.97	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				6.16 9.69	15.86	
Irrigation Water (excluding labor Water Assessment (See Note B					10.00	
Other Purchased Inputs & Seed/Transplants				10.05	10.05	
CACILLIADVECT AND DOCT HAD	TOTAL CASH LAND PRE	EPARATION AND GROW	/ING EXPENSES		131.58	
CASH HARVEST AND POST HAR' Paid Labor (including benefits) Tractor/Self Propelled	VEST EXPENSES			2.65	2.65	
Farm Machinery and Vehicles Diesel Fuel Repairs and Maintenance				0.98 1.30	2.28	
Custom Harvest/Post Harvest					60.40	
	TOTAL HARVEST AND F	POST HARVEST EXPEN	SE		65.33	
OPERATING OVERHEAD PICK OPERATING INTEREST AT 10.0%	UP USE				7.64 7.35	
	TOTAL CASH OPERATIN RETURNS OVER CASI	NG EXPENSES H OPERATING EXPENS	ES		\$211.90 \$140.10	

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

^{**} A water assessment charge of \$10.00 per Acre is included as an ownership cost in Table B.

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Double Cropped CROP: Sorghum(Milo), Grain AREA: Salt River Project VIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Durum DATE: 2/2/99

ltem	CASH COST BASI	S (\$/ACRE) Net Returns	TOTAL COST BASIS (\$/ACRE) Income and Costs Net Returns
TOTAL INCOME at \$0.11 / Lb TOTAL OPERATING EXPENSES	\$352.00 \$211.90		\$352.00 \$211.90
RETURN OVER CASH OPERATING EXPENSES	Φ∠11.90	\$140.10	\$211.90
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 10.60 6.36		2.27 10.60 6.36
Total Cash Overhead Expenses	19.23		19.23
Total Cash Operating and Overhead Cost RETURNS OVER CASH OPER. AND OVER. EXPENSES	231.13	\$120.87	231.13 \$120.87
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery and Vehicles Interest on Equity, Machinery and Vehicles			12.65 5.51
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK RETURNS TO LAND, MANAGEMENT AND RISK	>	\$120.87	18.16
Land Cost / Ownership (100% Equity) Property Taxes (\$619.00 X 16.0% X 0.141) Opportunity Interest on Land (100% X 6.0 X \$619.00) Water Assessment	6.99 10.00		6.99 18.57 10.00
Total Land Costs RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO MANAGEMENT AND RISK	16.99 >	\$103.88	35.56
			\$67.15
Management Services (8% of Total Operation Expenses)			16.95
TOTAL OWNERSHIP COST	36.22		89.90
TOTAL COST	\$248.12	_	\$301.80
RETURNS TO CAPITAL, MANAGEMENT AND RISK RETURNS TO RISK (PROFITS)	>	\$103.88 	\$50.20
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.07 \$0.01	\$0.07 \$0.03
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.08	\$0.09

COUNTY: Maricopa FARM: Maricopa County 98 WATER SOURCE: TILLAGE: Double Cropped Salt River Project CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Durum DATE: 2/2/99

	First		Hours	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	Jun	Disk	0.170	0.189	2.71	1.84			4.55	2.0	9.10	L
2	Jul	List	0.158	0.175	1.78	1.71			3.49	1.0	3.49	L
3	Jul	Plant	0.225	0.250	3.18	2.44		10.05	15.67	1.0	15.67	L
4	Jul	Apply Insecticide/Air					4.23	9.40	13.63	1.0	13.63	G
5	Jul	Buck Rows	0.022	0.050	0.13	0.49			0.62	1.0	0.62	G
6	Jul	Irrigate/Run Fertilizer		0.600		5.85		43.50	49.35	1.0	49.35	G
7	Jul	Apply Herbicide/Ground	0.090	0.100	0.83	0.97		6.84	8.64	1.0	8.64	G
8	Jul	Cultivate	0.075	0.083	0.67	0.81			1.48	2.0	2.97	G
9	Aug	Irrigate		0.300		2.92		2.50	5.42	4.0	21.70	G
10	Oct	Prepare Ends	0.045	0.050	0.47	0.49			0.96	1.0	0.96	Н
11	Oct	Combine Harvest					49.40		49.40	1.0	49.40	Н
12	Oct	Haul, Custom 44 CW					11.00		11.00	1.0	11.00	Н
13	Nov	Cut Stalks 44 CW	0.200	0.222	1.81	2.16			3.97	1.0	3.97	Р
14	Nov	Disk Residue 44 CW	0.300	0.333	3.16	3.25			6.41	1.0	6.41	L
		Pickup Use30 Mi/Acre	1.000		7.64						7.64	
		Operating Interest at 10.0					7.35				7.35	
	TOTAL CASH OPERATING EXPENSES (includes all times over):											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 \$10.00 per Acre is included as an ownership cost in Table B.

OPERATING COST SUMMARY BY	Y CLASS
Land Preparation (L)	34.67
Growing (G)	96.91
Harvest (H)	61.36
Post Harvest (P)	3.97
Marketing (M)	0.00
Operating Overhead (O)	14.99
Total (T)	\$211.90

OFNIOITIVUTY OF	THE NET DEVENUE	OVED TOTAL	0 4 0 LL EV/DENOEO (6/4 0DE)
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	2.35	41.95	68.35	94.75	134.35	0.08
- 10%	2,880.0	32.15	79.67	111.35	143.03	190.55	0.07
Budgeted	3,200.0	52.02	104.82	140.02	175.22	228.02	0.07
+ 10%	3,520.0	71.89	129.97	168.69	207.41	265.49	0.06
+ 25%	4,000.0	101.69	167.69	211.69	255.69	321.69	0.06
Break-even	Yield	2,362.10	1,866.14	1,636.99	1,457.97	1,252.50	

COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Double Cropped CROP: Sorghum(Milo), Grain ACRES: IRRIGATION SYSTEM: Flood Furrow 1.0 SOIL: Sandy-Loam AREA: Salt River Project YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Durum DATE: 2/2/99

		Water		Operating Costs (\$/ACRE *)							
Month *	Number Irrigations	Applied (inches)	Total Labor (Hrs)	Purchased Water	Fuel, Oil and Repairs	Labor	Chemicals	Other Purchases	Services	Total	
JUN C JUL C	1.0	12.0	0.38 1.34		5.42 7.28	3.68 13.07	59.74	10.05	4.23	9.10 94.37	
AUG C SEP C OCT C	2.0 2.0	12.0 12.0	0.60 0.60 0.05	10.00	0.47	5.85 5.85 0.49			7.75	5.85 15.85 8.71	
Operating Ir	30 Mi/Acre nterest at 10.0		0.56	l	4.97 7.64	5.41			52.65 7.35	63.03 7.64 7.35	
Water Asse	ssment			**							
Total %	5.0	36.0	3.52	10.00	25.78 12.17	34.35 16.21		10.05 4.74	71.98 33.97	211.90 100.00	
TOTAL RES Total N Total P Total K Total Labo Total Wat		152.2 0.0 0.0 3.5 36.0	S (per Acre)	TOTAL ENE Diesel Fu Unleade All Direct	d Gas	8.8 Ga 3.0 Ga	al				
EQUIPMEN	IT REQUIREM	IENTS (per	Acre)								
Offset Dis Rolling C Tractor,	Spray Rig, 16 sk, 13.5' ultivator, 6 Rw 80 PTO HP, 150 PTO HP,	0. v 0. 0.	09 Hr 35 Hr 15 Hr 02 Hr 34 Hr	Grain Drill, 14' Offset Disk, 18' Rotary Stalk Cutte Tractor, 100 PTO I	0 r, 4 Row 0	.22 Hr .34 Hr .20 Hr .79 Hr	Rowbuck,	uck, 1/2 Ton	0.16 Hr 1.00 Hr 0.02 Hr 0.38 Hr		
	S REQUIREM										
	, URAN 32, Lo rghum Sd		00 Ga 00 Lb	Dicamba Water, District		.50 Pt .00 Al	Disulfoton	ı	1.00 Pt		
LABOR REG	QUIREMENT		80 Hr	Other	0	.03 Hr	Tractor		1.70 Hr		

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

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COUNTY:Maricopa FARM: Maricopa County 98 WATER SOURCE: Salt River Project TILLAGE: Double Cropped CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 3,200.0 Lb / Acre PREVIOUS CROP: Wheat, Durum DATE: 2/2/99

N	First o.Month	Times	Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr				 \$/Un	_	ervice Cost \$ / Unit	Labor Type
1	Jun	2.0	Disk	150 Offset Disk, 18'	5.30							Tractor
2	Jul	1.0	List	125 Lister, 7 Bottom	5.70							Tractor
3	Jul	1.0	Plant	125 Grain Drill, 14'	4.00	Grain Sorghum Sd	10.00	Lb	95.00 (CW		Tractor
4	Jul	1.0	Apply Insecticide/Air	CST Air Spray, 3 Gal Mix		Disulfoton	1.00	Pt	71.08	Ga	4.23 Ac	
5	Jul	1.0	Buck Rows	80 Rowbuck, 10'	40.00							Tractor
												Other
6	Jul	1.0	Irrigate/Run Fertilizer		1.67	Water, District	12.00	ΑI	0.00	AF		Irrigators
						32-00-00, URAN 32,	43.00 (Ga 1	173.00	Tn		
7	Jul	1.0	Apply Herbicide/Ground	I 100 Directed Spray Rig, 16	10.00	Dicamba	0.50	Pt 1	103.50	Ga		Tractor
8	Jul	2.0	Cultivate	100 Rolling Cultivator, 6 Rw	12.00							Tractor
9	Aug	4.0	Irrigate	_	3.33	Water, District	6.00	ΑI	5.00	AF		Irrigators
10	Oct	1.0	Prepare Ends	100 Offset Disk, 13.5'	20.00							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	100 Rotary Stalk Cutter, 4 Row	4.50							Tractor
14	Nov	1.0	Disk Residue	100 Offset Disk, 13.5'	3.00							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.