COUNTY: Maricopa FARM: MacCROP: Sorghum(Milo), Grain ACRES: AREA: Salt River Project YIELD:	aricopa County Farm 1.0 3,600.0 Lb/Acre		WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	SRP Flood Furrow Wheat, Durum	TILLAGE: SOIL: DATE:	Double Cropped Sandy-Loam 10/03/96
Item	Unit	Quantity	Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Grain	Pound	3,600.00	\$0.0682	\$245.52	\$245.52	
CASH LAND PREPARATION AND GROWING EXPERPANCE Paid Labor (including benefits) Tractor/Self Propelled	ISES (including sal	es tax)		12.00	24.79	
Irrigation Other/Contract				12.61 0.18		
Chemicals & Custom Applications Fertilizers Insecticides Herbicides				51.18 13.51 5.63	70.32	
Farm Machinery and Vehicles Diesel Fuel Repairs & Maint.				6.67 9.24	15.90	
Irrigation Water (excluding labor) Water Assessment (See Note Below) Other Purchased Inputs & Services	**				10.00 ** 9.45	
Seed/Transplants TOTAL CASH LA	ID PREPARATION AND	GROWING EX	PENSES	9.45	130.47	
CASH HARVEST AND POST HARVEST EXPENSES						
Paid Labor (including benefits) Tractor/Self Propelled Farm Machinery and Vehicles				2.29	2.29	
Diesel Fuel Repairs & Maint.				1.06 1.28	_,	
Custom Harvest/Post Harvest TOTAL HARVEST	AND POST HARVEST E	XPENSE		_	41.00	
OPERATING OVERHEAD->PICKUP USE OPERATING INTEREST AT 8.0%					7.43 2.36	
	RATING EXPENSES CASH OPERATING EX	PENSES		=	\$185.89 \$59.63	

Notes: The above figures do not include ownership costs, see Table 11B on Next Page for detailed cost allocation.

** A water assessment charge of \$10.17/Acre is included in the ownership costs of Table 11B.

COUNTY: Maricopa FARM: Maricopa County Far CROP: Sorghum(Milo), Grain ACRES: 1.0 AREA: Salt River Project YIELD: 3,600.0 Lb/Acre	IRRIGA	SOURCE: SRP TION SYSTEM: Flood F US CROP: Wheat,	urrow SOIL:	: Double Cropped Sandy-Loam 10/03/96
		SIS (\$/ACRE) -		ASIS (\$/ACRE) -
Item	Income & Costs	Net Returns	Income & Costs	Net Returns
TOTAL INCOME at \$ 0.0682/Lb	\$245.52		\$245.52	
TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	185.88	\$59.63	185.88 	\$59.63
CASH OVERHEAD EXPENSES				
Taxes, Housing & Insur., Farm Machinery	2.16		2.16	
Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	9.29		9.29	
General Farm Maint. (3% of Tot. Oper. Exp.)	5.58		5.58 	
Total Cash Overhead Expenses	17.03		17.03	
Total Cash Oper. & Over. Cost RETURNS OVER CASH OPER. & OVER. EXPENSES.	202.92	42.59	202.92	42.59
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery & Vehicles Interest on Equity, Machinery & Vehicles			1 1 12.15 1 5.24	
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK ———— RETURNS TO LAND, MANAGEMENT & RISK —————		> 42.59	17.38	—> 25.21
LAND COSTS / OWNERSHIP (100% Equity)			1	
Property Taxes (\$702 X 16% X .12601)	7.07		7.07	
Opport. Inter. on Land (100% X 6.0% X \$702)			21.06	
Water Assessment **	10.17		10.17	
Total Land Costs	17.24		38.30	
RETURNS TO MANAGEMENT, CAPITAL & RISK — RETURNS TO MANAGEMENT & RISK —		> 25.35	<u> </u>	 >(13.09)
Management Services (8% of Tot. Oper. Exp.)			 14.87	,
TOTAL OWNERSHIP COST	34.28		87.59	
TOTAL COST	======== \$220.16		=====================================	
DETIIDN TO MANAGEMENT CADITAL & DICK		> \$25.35		
RETURN TO RISK (PROFITS)				—>(\$27.96)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$0.0516		\$0.0516
BREAK-EVEN PRICE TO COVER OWNERSHIP COST		\$0.0095		\$0.0243
BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.0611		\$0.0759

COUNTY: Maricopa FARM: Maricopa County Farm WATER SOURCE: SRP TILLAGE: Double Cropped CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Salt River Project YIELD: 3,600.0 Lb/Acre PREVIOUS CROP: Wheat, Durum DATE: 10/03/96

First — Hour				rs * -	ı ———	- Operat	ing Costs			Tot. Cash	1	
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Jun	Disk	0.170	0.189	2.71	1.59			4.30	2.0	8.59	
2	Jul	List	0.158	0.175	1.86	1.47			3.33	1.0	3.33	L
3	Jul	Plant	0.225	0.250	3.03	2.10		9.45	14.58	1.0	14.58	L
4	Jul	Apply Insecticide/Air			I		6.00	7.51	13.51	1.0	13.51	G
5	Jul	Buck Rows	0.022	0.050	0.14	0.39			0.53	1.0	0.53	G
6	Jul	Irrigate/Run Fertilizer		0.600	I	4.20		51.18	55.38	1.0	55.38	G
7	Jul	Apply Herbicide/Ground	0.090	0.100	0.85	0.84		5.63	7.32	1.0	7.32	G
8	Jul	Cultivate	0.075	0.083	0.68	0.70			1.38	2.0	2.75	G
9	Aug	Irrigate		0.300	I	2.10		2.50	4.60	4.0	18.40	G
10	Oct	Prepare Ends	0.045	0.050	0.49	0.42			0.91	1.0	0.91	H
11	Oct	Combine Harvest			1		30.00		30.00	1.0	30.00	H
12	Oct	Haul, Custom 44.0 CW			I		11.00		11.00	1.0	11.00	H
13	Nov	Cut Stalks	0.200	0.222	1.85	1.87			3.72	1.0	3.72	P
14	Nov	Disk Residue	0.300	0.333	3.27	2.80			6.07	1.0	6.07	L
		Pickup Use 30 Mi/Ac	1.000		7.43						7.43	0
		Operating Interest at 8.0	0%				2.37				2.37	0
		TOTAL CASH OPERATING EXPEN	SES:		\$25.68	\$27.07	\$49.37	\$83.77			\$185.89	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 \$10.17/Acre included as ownership cost in Table 11B.

OPERATING COST SUMMARY BY Land Preparation (L)	\$32.56	I	Prices ->	SENSIT	'IVITY 	OF NET P -25%	REVENUES OV -10%	ER TOTAL CAS Budgeted	H EXPENSES	S (\$/Acre) +25%	
Growing (G) Harvest (H) Post Harvest (P)	97.88 41.91 3.72		Yields		ļ.	\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even
Marketing (M) Operating Overhead (O)	0.00 9.80		-25% -10%	2,700.0	<u> </u>	-36.37 -15.59	-8.75 17.54	9.66 39.64	28.07 61.74	55.69 94.88	0.06 0.05
Total (T)	\$185.88		Budgeted +10%	3,600.0 3,960.0	-	-13.39 -1.74 12.10	35.08 52.61	59.63 79.62	84.18 106.62	121.01 147.14	0.05 0.04
IOCAI (I)	9163.66		+25% Break-eve	4,500.0	ļ	32.88 3,645.38	78.91	109.60	140.29	186.33 1.932.56	0.04

COUNTY: CROP: AREA:	•	Milo), Grain er Project		1.0	-	IRRI	R SOUR GATION IOUS C	SYSTE		l Furrow :, Durum		ole Cropped dy-Loam 03/96
		Water		1			_ 0	perati	ing Cost	(\$/Acre) —		
Month *	Number Irrig.	Applied (Inches)	Total Labor (Hrs)	j I	Purchased Water	Fuel, Oil & Repairs	Lab		Chemical	Other	s Service	s Total
JUN C			0.37	1		5.41	3.	18				8.59
JUL C	1.0	12.0	1.34	i		7.22	10.		64.32	9.45	6.00	97.40
AUG C	2.0	12.0	0.60	i		,		20	01.02	5.15	0.00	4.20
SEP C	2.0	12.0	0.60	-	10.00			20				14.20
OCT C	2.0	12.0	0.05	-	10.00	0.49		42			4.75	5.66
NOV C			0.55	!		5.12		67			23.75	33.54
	20 M	/3 -	0.55	ı			4.	0/			23.75	
-	Use 30 Mi	•				7.43					0 00	7.43
-	-	st at 8.0%			**						2.33	2.33
Water A	ssessment				**							
Total	5.0	36.0	3.52	1	10.00	25.68	27.	08	64.32	9.45	36.83	173.35
ફ				į	5.76	14.81	15.	62	37.10	5.45	21.24	100.00
TOTAL R	ESOURCES R	REQUIREMENTS	(/Acre)	тота	AT. ENERGY R	EQUIREMENTS (/	Acre)					
Total		152.2 lbs	(,11020)		esel Fuel		8.8	Gal				
Total		0.0 lbs			egular Gas		0.0	Gal				
Total		0.0 lbs			onLead Gas		3.0	Gal				
		3.5 Hrs		INC	Mileau Gas		3.0	Gai				
	Labor				1 5:		1 (14 DE				
Total	Water	36.0 AI		A	ll Direct E	nergy	1.6	м вт	ru			
EQUIPME	NT REQUIRE	MENTS (/Acre										
Tract	or, 150 PT	O HP, MFWD			set Disk,					ctor, 125 PTO		0.38 Hrs
Liste	r, 7 Botto	om	0.16 H	rs Gra	ain Drill,	16'		0.23	Hrs Tra	ctor, 80 PTO	HP, MFWD	0.02 Hrs
Rowbu	ck, 10'		0.02 H	rs Tra	actor, 100	PTO HP, MFWD		0.79	Hrs Dir	ected Spray R	ig, 16 Row	0.09 Hrs
Rolli	ng Cultiva	tor, 6 Rw	0.15 H	rs Off	set Disk,	13.5'				ary Stalk Cut		0.20 Hrs
	p Truck, 1		1.00 H	rs	,						,	
MATERIA	LS REQUIRE	MENTS (/Acre)									
	Sorghum S		, 10.00 L	o Die	sulfoton			1.00	Pt. Wat	er, District		36.00 AI
	-00, URAN		43.00 G		camba			0.50		, 22302200		20.00 111
LABOR R	EQUIREMENT	S(/Acre)										
Tract	-		1.70 H	rs Oth	ner			0.03	Hrs Irr	igators		1.80 Hrs

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

^{**} A water assessment charge of \$10.17/Acre included as ownership cost in Table 11B.

Jul 2.0 Cultivate

10 Oct 1.0 Prepare Ends

12 Oct 1.0 Haul, Custom

14 Nov 1.0 Disk Residue

13 Nov 1.0 Cut Stalks

11 Oct 1.0 Combine Harvest

Pickup Use 30 Mi/Ac

9 Aug 4.0 Irrigate

Tractor

Tractor

Tractor

Tractor

Irrigator

COU CRO ARE	P:	Maricopa Sorghum(Milo), Grain Salt River Project		Maricopa County Farm 1.0 3,600.0 Lb/Acre	IRI	RIGATION SYSTEM: F	RP 'lood Furrow Theat, Durum	SOIL	Sand	le Cropped y-Loam 3/96
No.	Firs	t h Times Operation	Eq:		Job Rate		al Use & Co. Appl. Rate	st — Ser \$/Unit	rvice Cos \$/Unit	t Labor Type
	Tun	2.0 Disk	150	Offset Disk, 18'	5.30					Tractor
2		1.0 List		Lister, 7 Bottom	5.70					Tractor
3		1.0 Plant		Grain Drill, 16'		Grain Sorghum Sd	10.00 Lb	90.00 CW		Tractor
4	Jul	1.0 Apply Insecticid	e/Air	CST Air Spray, 3 Gal Mi		Disulfoton	1.00 Pt	57.21 Ga	6.00 Ac	
5		1.0 Buck Rows		Rowbuck, 10'	40.00					Tractor Other
6	Jul	1.0 Irrigate/Run Fer	tiliz		1.67	Water, District 32-00-00, URAN 32		0.00 AF 205.00 Tn		Irrigator
7	Jul	1.0 Apply Herbicide/	Groun100	Directed Spray Rig, 16	10.00	Dicamba	0.50 Pt	85.76 Ga		Tractor

20.00

4.50

3.00

1.00

3.33 Water, District

6.00 AI

100 Rolling Cultivator, 6 R 12.00

CST Combine Grain Sorgh

Pickup Truck, 1/2 Ton

100 Offset Disk, 13.5'

CST Haul Grain

100 Offset Disk, 13.5'

100 Rotary Stalk Cutter, 4

ARIZONA COOPERATIVE EXTENSION Department of Aq & Resource Economics The University of Arizona F 5/39

0.00 AF

17.50 Ac 0.25 CW

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

^{**} A water assessment charge of \$10.17/Acre included as ownership cost in Table 11B.