COUNTY: Pinal FARM: CROP: Sorghum(Milo), Grain ACRES: AREA: Maricopa YIELD:	Pinal County Farm 1.0 3,600.0 Lb/Acre	:	WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	CAID Flood Furrow Wheat, Durum	TILLAGE SOIL: DATE:	: Double Cropped Sandy-Loam 10/08/96
Item	Unit	Quantit	y Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -> Grain	Pound	3,600.0	0 \$0.0682	\$245.52	\$245.52	
CASH LAND PREPARATION AND GROWING EX	PENSES (including sal	les tax)				
Paid Labor (including benefits)					45.12	
Tractor/Self Propelled				16.23		
Irrigation				28.89		
Chemicals & Custom Applications					57.26	
Fertilizers				57.26		
Farm Machinery and Vehicles					16.29	
Diesel Fuel				7.03		
Repairs & Maint.				9.26		
Irrigation Water (excluding labor	r)				139.33	
Water Assessment (See Note Below)					**	
Other Purchased Inputs & Services					9.45	
Seed/Transplants				9.45		
TOTAL CASH I	LAND PREPARATION AND	GROWING E	XPENSES		267.46	
CASH HARVEST AND POST HARVEST EXPENSI	<b>ES</b>					
Paid Labor (including benefits)					1.89	
Tractor/Self Propelled				1.89		
Farm Machinery and Vehicles					1.98	
Diesel Fuel				0.95		
Repairs & Maint.				1.03		
Custom Harvest/Post Harvest					39.10	
TOTAL HARVE:	ST AND POST HARVEST I	EXPENSE			42.98	
OPERATING OVERHEAD->PICKUP USE					7.69	
OPERATING INTEREST AT 8.0%					4.25	
TOTAL CASH (	OPERATING EXPENSES				\$322.37	
RETURNS O	VER CASH OPERATING EX	XPENSES		(	\$76.85)	

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

\*\* A water assessment charge of \$ 9.38/Acre is included in the ownership costs of Table 11B.

ARIZONA COOPERATIVE EXTENSION

Department of Ag & Resource Economics

The University of Arizona F 6/46

BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)

BREAK-EVEN PRICE TO COVER OWNERSHIP COST

BREAK-EVEN PRICE TO COVER TOTAL COST

\$0.0895

\$0.0265

\$0.1160

COUNTY: Pinal FARM: Pinal County Farm WATER SOURCE: CAID TILLAGE: Double Cropped CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandv-Loam 3,600.0 Lb/Acre 10/08/96 AREA: Maricopa YIELD: PREVIOUS CROP: Wheat, Durum DATE: - CASH COST BASIS (\$/ACRE) -- TOTAL COST BASIS (\$/ACRE) -Item Income & Costs Net Returns Income & Costs Net Returns \$245.52 \$245.52 TOTAL INCOME at \$ 0.0682/Lb TOTAL OPERATING EXPENSES 322.37 322.37 RETURN OVER CASH OPERATING EXPENSES \$76.85) \$76.85) CASH OVERHEAD EXPENSES Taxes, Housing & Insur., Farm Machinery 1.95 1.95 Gen. & Off. Overhead (5% of Tot. Oper. Exp.) 16.11 16.11 General Farm Maint. (3% of Tot. Oper. Exp.) 9.67 9.67 27.73 27.73 Total Cash Overhead Expenses Total Cash Oper. & Over. Cost 350.11 350.11 RETURNS OVER CASH OPER. & OVER. EXPENSES. 104.59) 104.59) CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery & Vehicles 10.90 Interest on Equity, Machinery & Vehicles 5.57 Total Capital Allocations 16.47 RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK ---104.59) RETURNS TO LAND, MANAGEMENT & RISK -121.06) LAND COSTS / OWNERSHIP (100% Equity) Property Taxes (\$372 X 16% X .16455) 4.89 4.89 Opport. Inter. on Land (100% X 6.0% X \$372) 11.16 Water Assessment \*\* 9.38 9.38 Total Land Costs 14.27 25.43 RETURNS TO MANAGEMENT, CAPITAL & RISK -118.86) RETURNS TO MANAGEMENT & RISK -146.49) Management Services ( 8% of Tot. Oper. Exp.) 25.78 TOTAL OWNERSHIP COST 42.01 95.43 \_\_\_\_\_ \_\_\_\_\_ TOTAL COST \$364.38 \$417.80 RETURN TO MANAGEMENT, CAPITAL & RISK -\$118.86) -> ( RETURN TO RISK (PROFITS) -\$172.28)

ARIZONA COOPERATIVE EXTENSION
Department of Ag & Resource Economics
The University of Arizona F 6/46

\$0.0895

\$0.0116

\$0.1012

COUNTY:	Pinal	FARM: F	Pinal County Farm	WATER SOURCE:	CAID	TILLAGE:	Double Cropped
CROP:	Sorghum(Milo), Grain	ACRES:	1.0	IRRIGATION SYSTEM:	Flood Furrow	SOIL:	Sandy-Loam
AREA:	Maricopa	YIELD:	3,600.0 Lb/Acre	PREVIOUS CROP:	Wheat, Durum	DATE:	10/08/96

	First		rs * -	ı <del></del>	- Operat	Tot. Cash						
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Jun	Apply Fert/Ground	0.075	0.083	0.46	0.70		32.81	33.97	1.0	33.97	G
2	Jun	Disk	0.225	0.250	2.54	2.10			4.64	1.0	4.64	L
3	Jun	List	0.180	0.200	1.82	1.68			3.50	1.0	3.50	L
4	Jun	Mulch	0.300	0.333	3.30	2.80			6.10	1.0	6.10	L
5	Jun	Plant	0.180	0.200	2.18	1.68		9.45	13.31	1.0	13.31	L
6	Jun	Buck Rows	0.225	0.250	1.29	2.10			3.39	1.0	3.39	G
7	Jun	Irrigate		0.750	l	5.26		25.33	30.59	1.0	30.59	G
8	Jul	Cultivate	0.164	0.182	1.08	1.53			2.61	2.0	5.23	G
9	Jul	Irrigate/Run Fertilizer		0.562	I	3.94		27.15	31.09	3.0	93.27	G
10	Sep	Irrigate		0.562	I	3.94		19.00	22.94	3.0	68.82	G
11	Oct	Prepare Ends	0.022	0.025	0.25	0.21			0.46	1.0	0.46	H
12	Oct	Combine Harvest			l		30.10		30.10	1.0	30.10	H
13	Oct	Haul, Custom 36.0 CW			I		9.00		9.00	1.0	9.00	H
14	Nov	Cut Stalks	0.180	0.200	1.74	1.68			3.42	1.0	3.42	P
15	Nov	Disk Residue	0.225	0.250	2.54	2.10			4.64	1.0	4.64	L
		Pickup Use 30 Mi/Ac	1.000		7.68						7.68	0
		Operating Interest at 8.00	)%				4.24				4.24	0
		TOTAL CASH OPERATING EXPENS	SES:		\$25.97	\$47.01	\$43.34	\$206.04			\$322.36	T

<sup>\*</sup> 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 \$ 9.38/Acre included as ownership cost in Table 11B.

OPERATING COST SUMMARY BY	CLASS	l	SE	ENSITIV	ITY OF NET	REVENUES	OVER TOTAL	CASH EXPE	NSES (\$/Ac	re)
Land Preparation (L)	\$32.18	Prices ->	•	1	-25%	-10%	Budgeted	+10%	+25%	
Growing (G)	235.26	<del></del>								
Harvest (H)	39.55	Yields		1	\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even
Post Harvest (P)	3.41			-						
Marketing (M)	0.00	−25%	2,700.	.0	-173.50	-145.88	-127.47	-109.05	-81.43	0.11
Operating Overhead (O)	11.92	-10%	3,240.	.0	-152.33	-119.18	-97.09	-74.99	-41.84	0.09
	<del></del>	Budgeted	3,600.	.0	-138.21	-101.38	-76.83	-52.28	-15.45	0.08
Total (T)	\$322.35	+10%	3,960.	.0	-124.09	-83.58	-56.58	-29.57	10.93	0.08
	1	+25%	4,500.	.0	-102.92	-56.88	-26.19	4.49	50.52	0.07
	1	Break-eve	n Yield	i	7,124.78	5,650.62	4,965.67	4,428.82	3,810.82	

ARIZONA COOPERATIVE EXTENSION

Department of Ag & Resource Economics

The University of Arizona F 6/46

	-	Iilo), Grain			ounty Farm 1.0 0.0 Lb/Acre	IR	TER SOUR RIGATION EVIOUS C	SYSTE		od Fu	ırrow Ourum		uble Croppe ndy-Loam /08/96
-		Water					o	perati	ing Cos	t (\$/	'Acre) —		
Month *	Number Irrig.	Applied (Inches)	Total Labor (Hrs	)	Purchased Water	Fuel, Oil & Repairs		_	Chemic		Other Purchases	s Servic	es Total
JUN C	0.5	4.0	1.46	ı	12.67	9.85	11.	80	32.8	1	4.73		71.8
JUL C	1.5	10.0	1.52	1	31.67	3.90	11.	52	8.1	5	4.73		59.9
AUG C	2.0	12.0	1.12	1	38.00		7.	88	16.3	0			62.1
SEP C	2.0	12.0	1.12	i	38.00		7.	88					45.8
OCT C	1.0	6.0	0.58	i	19.00	0.25	4.	15				13.2	5 36.6
NOV C			0.22	i		2.14		89				13.2	
DEC C			0.22	i		2.14		89					4.0
Pickup Us	se 30 Mi	/Ac		•		7.68							7.6
-		t at 8.0%										4.2	
Water Ass	_				**								
Total	7.0	44.0	6.27	1	139.33	25.97	47.	01	57.2	6	9.45	30.7	5 309.7
용				- 1	44.97	8.38	15.	17	18.4	8	3.05	9.9	2 100.0
TOTAL RES	SOURCES R	EQUIREMENTS	(/Acre)	Т	OTAL ENERGY RE	EQUIREMENTS	(/Acre)						
Total N	N	150.7 lbs			Diesel Fuel		8.3	Gal					
Total H	₽	50.0 lbs			Regular Gas		0.0	Gal					
Total F	K	0.0 lbs			NonLead Gas		3.0	Gal					
Total I	Labor	6.2 Hrs											
Total V	Water	44.0 AI			All Direct En	nergy	1.5	м вт	U				
EQUIPMENT	r REQUIRE	MENTS (/Acre	)										
Tractor	r, 70 PI	O HP, MFWD	0.81	Hrs	Fertilizer B	roadcaster,	Towed	0.08	B Hrs	Tract	or, 100 PTC	HP, MFWD	1.13 Hrs
Offset	Disk, 13	3.5'	0.47	Hrs	Lister, 7 Bot	ttom		0.18	Hrs	Power	Mulcher, 4	l Rw	0.30 Hr
Planter	r, 6 Row		0.18	Hrs	Rowbuck, 10'			0.23	Hrs :	Rolli	.ng Cultivat	or, 4 Rw	0.33 Hr
Rotary	Stalk Cu	tter, 4 Row	0.18	Hrs	Pickup Truck	, 1/2 Ton			) Hrs		-	·	
MATERIALS	S REQUIRE	MENTS (/Acre											
16-20-0	00, Dry		250.00	Lb	Grain Sorghur	n Sd		10.00	) Lb	Water	, District		44.00 AI
82-00-0	00, Anhyd	l. Ammmonia	135.00	Lb									
LABOR REQ	QUIREMENT	S(/Acre)											
Tractor	r		2.16	Hrs	Irrigators			4.12	2 Hrs				

ARIZONA COOPERATIVE EXTENSION Department of Ag & Resource Economics The University of Arizona F 6/46

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

<sup>\*\*</sup> A water assessment charge of \$ 9.38/Acre included as ownership cost in Table 11B.

COUNTY: Pinal

13 Oct 1.0 Haul, Custom

15 Nov 1.0 Disk Residue

Pickup Use 30 Mi/Ac

14 Nov 1.0 Cut Stalks

TILLAGE: Double Cropped

0.25 CW

Tractor

Tractor

		-							
ARE		Sorghum(Milo), Grain Maricopa	ACRES: YIELD:		IRRIGATION SYSTEM PREVIOUS CROP:		Flood Furrow Wheat, Durum		
No.	First Month	: n Times Operation	E¢ HP	quipment/Custom Oper. Self-Prop./Implem.	Job Rate Acres/Hr	— Mate	rial Use & Co Appl. Rate		vice Cost Labor \$/Unit Type
1	Jun	1.0 Apply Fert/Ground	d 70	Fertilizer Broadcaster,	12.00 16-20	-00, Dry	250.00 Lb	250.00 Tn	Tractor
2	Jun	1.0 Disk	100	Offset Disk, 13.5'	4.00	, <u>-</u>			Tractor
3	Jun	1.0 List	100	Lister, 7 Bottom	5.00				Tractor
4	Jun	1.0 Mulch	100	Power Mulcher, 4 Rw	3.00				Tractor
5	Jun	1.0 Plant	70	Planter, 6 Row	5.00 Grain	Sorghum Sd	10.00 Lb	90.00 CW	Tractor
6	Jun	1.0 Buck Rows	70	Rowbuck, 10'	4.00				Tractor
7	Jun	1.0 Irrigate			1.33 Water	, District	8.00 AI	38.00 AF	Irrigator
8	Jul	2.0 Cultivate	70	Rolling Cultivator, 4 R	5.50				Tractor
9	Jul	3.0 Irrigate/Run Fer	tiliz		1.78 Water	, District	6.00 AI	38.00 AF	Irrigator
					82-00	-00, Anhyd.	A 45.00 Lb	345.00 Tn	
10	Sep	3.0 Irrigate			1.78 Water	, District	6.00 AI	38.00 AF	Irrigator
11	Oct	1.0 Prepare Ends	100	Offset Disk, 13.5'	40.00				Tractor
12	Oct	1.0 Combine Harvest		CST Combine Grain Sorgh				1	7.50 Ac

5.00

4.00

1.00

WATER SOURCE:

CAID

CST Haul Grain

100 Offset Disk, 13.5'

100 Rotary Stalk Cutter, 4

Pickup Truck, 1/2 Ton

FARM: Pinal County Farm

ARIZONA COOPERATIVE EXTENSION

Department of Ag & Resource Economics

The University of Arizona F 6/46

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

<sup>\*\*</sup> A water assessment charge of \$ 9.38/Acre included as ownership cost in Table 11B.