COUNTY: CROP: AREA:	Greenlee Sorghum(Milo), Grain Duncan Valley	ACRES:	nlee County Far 1.0 ,000.0 Lb/Acre		WATER SOURCE: IRRIGATION SYSTEM PREVIOUS CROP:	DEastN : Flood Furrow Cotton, Upland	SOIL:	Conventional Sandy-Loam 10/04/96
Ite	em		Unit	Quantit	y Price /Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME -	-> Grain		Pound	7,000.0	0 \$0.0682	\$477.40	\$477.40	
CASH LAN	ND PREPARATION AND GRO	WING EXPENSE	S (including sa	les tax)				
Paid	d Labor (including ben						54.16	
	Tractor/Self Prope	elled				37.36		
	Irrigation					16.80		
Cher	micals & Custom Applic	ations					90.65	
	Fertilizers					75.60		
	Insecticides					13.52		
	Herbicides					1.54		
Farn	m Machinery and Vehicl	.es					27.21	
	Diesel Fuel					14.26		
	Repairs & Maint.					12.96		
Irri	igation (excluding lab	or)					45.53	
	Natural Gas/Pumpin	ng				39.96		
	Repairs & Maint.					5.57		
Othe	er Purchased Inputs &	Services					9.45	
	Seed/Transplants					9.45		
	TOTA	AL CASH LAND	PREPARATION AND	GROWING E	XPENSES		227.00	
CASH HAR	RVEST AND POST HARVEST	EXPENSES						
Paid	d Labor (including ben						4.48	
	Tractor/Self Prope					4.48		
Farn	m Machinery and Vehicl	.es					4.53	
	Diesel Fuel					2.59		
	Repairs & Maint.					1.94		
Cust	tom Harvest/Post Harve	est					59.50	
	TOTA	L HARVEST AN	D POST HARVEST	EXPENSE			68.5	
OPERATIN	NG OVERHEAD->PICKUP US	SE.					9.91	
OPERATIN	NG INTEREST AT 9.0%						6.59	
	TOTA	L CASH OPERA	TING EXPENSES			===	\$312.01	
	RE	TURNS OVER C	ASH OPERATING E	XPENSES			\$165.39	

Notes: The above figures do not include ownership costs, see Table 8B on Next Page for detailed cost allocation.

ARIZONA COOPERATIVE EXTENSION

Department of Ag & Resource Economics

The University of Arizona F10/15

COUNTY: Greenlee FARM: Greenlee County Farm WATER SOURCE: **DEastN** TILLAGE: Conventional Sorghum (Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow Sandy-Loam CROP: SOIL: 10/04/96 AREA · Duncan Valley YTELD. 7,000 0 Lb/Acre PREVIOUS CROP. Cotton, Upland DATE

AREA: Duncan Valley YIELD: 7,000.0 Lb/Acr	e PREVIOUS CROP: Cotton	, Upland DATE:	10/04/96
Item	- CASH COST BASIS (\$/ACRE) - Income & Costs Net Returns	- TOTAL COST BASIS	S (\$/ACRE) - Net Returns
TOTAL INCOME at \$ 0.0682/Lb TOTAL OPERATING EXPENSES	\$477.40 312.00	\$477.40 312.00	
RETURN OVER CASH OPERATING EXPENSES	\$165.39	-	\$165.39
CASH OVERHEAD EXPENSES		i	
Taxes, Housing & Insur., Farm Machinery	3.15	3.15	
Wells & Irrig. System Gen. & Off. Overhead (5% of Tot. Oper. Exp.)	2.66	2.66	
<pre>Gen. & Off. Overhead (5% of Tot. Oper. Exp.) General Farm Maint. (3% of Tot. Oper. Exp.)</pre>	15.60 9.36	15.60 9.36	
General Farm Maint. (3% Of 10t. Oper. Exp.)	9.30	J 9.36	
Total Cash Overhead Expenses	30.77	30.77	
Total Cash Oper. & Over. Cost	342.77	342.77	
RETURNS OVER CASH OPER. & OVER. EXPENSES.	134.62	į	134.62
CAPITAL ALLOCATIONS (100% Equity)			
Capital Replacement, Machinery & Vehicles		16.48	
Wells & Irrig. System		32.16	
Interest on Equity, Machinery & Vehicles		8.51	
Wells & Irrig. System		7.97	
Total Capital Allocations		65.11	
RETURNS TO LAND CAPITAL MANAGEMENT & RISK	———> 134.62	i	
RETURNS TO LAND, MANAGEMENT & RISK		>	69.50
LAND COSTS / OWNERSHIP (100% Equity)		ł	
Property Taxes (\$480 X 16% X .06830)	5.24	5.24	
Opport. Inter. on Land (100% X 6.0% X \$480)		28.80	
m + 1 = 1 0 +			
Total Land Costs RETURNS TO MANAGEMENT, CAPITAL & RISK ————————————————————————————————————	5.24 	34.04	
RETURNS TO MANAGEMENT, CAPITAL & RISK —			35.46
		!	
Management Services (8% of Tot. Oper. Exp.)		24.96	
TOTAL OWNERSHIP COST	36.01	154.89	
TOTAL COST	\$348.02	======= \$466.89	
RETURN TO MANAGEMENT CAPITAL & RISK	> \$129.37		
RETURN TO RISK (PROFITS)		·	\$10.50
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)	\$0.0445	1	\$0.0445
BREAK-EVEN PRICE TO COVER OWNERSHIP COST	\$0.0051	1	\$0.0221
BREAK-EVEN PRICE TO COVER TOTAL COST	\$0.0497	1	\$0.0667

Table 8C. Variable Operating Costs; Grain Sorghum, 1996

TILLAGE: Conventional COUNTY: Greenlee FARM: Greenlee County Farm WATER SOURCE: DEastN CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandv-Loam 10/04/96 AREA: Duncan Valley YIELD: 7,000.0 Lb/Acre PREVIOUS CROP: Cotton, Upland DATE:

	First		— Hou:	rs * -		- Operat	ing Costs	(\$/Acre*) —			Tot. Cash	
No.	Month	Operation	Machine	Labor	Fuel/Rps			Materials	Total	Times	Expense	Class
1	Feb	Rip	0.300	0.333	2.90	2.80			5.70	2.0	11.39	L
2	Mar	Disk	0.180	0.200	1.97	1.68			3.65	1.0	3.65	L
3	Mar	Landplane	0.257	0.286	2.58	2.41			4.99	1.0	4.99	L
4	Apr	Apply Fert/Ground	0.060	0.067	0.54	0.56		39.38	40.48	1.0	40.48	G
5	Apr	List	0.180	0.200	1.88	1.68			3.56	1.0	3.56	L
6	Apr	Buck Rows	0.030	0.033	0.26	0.28			0.54	1.0	0.54	G
7	Apr	Preirrigate		0.629	11.38	5.29			16.67	1.0	16.67	G
8	May	Mulch	0.150	1.670	1.28	14.04			15.32	1.0	15.32	L
9	May	Plant	0.257	0.286	3.43	2.41		9.45	15.29	1.0	15.29	L
10	May	Remove Cap	0.150	0.167	1.28	1.40			2.68	1.0	2.68	G
11	Jun	Cultivate	0.450	0.500	4.71	4.20			8.91	1.0	8.91	G
12	Jun	Irrigate/Run Fertilizer		0.314	5.69	2.64		36.23	44.56	1.0	44.56	G
13	Jun	Apply Herbicide/Ground	0.150	0.167	1.51	1.40		1.54	4.45	1.0	4.45	G
14	Jun	Irrigate		0.211	5.69	1.77			7.46	5.0	37.30	G
15	Aug	Apply Insecticide/Air		i			6.00	7.52	13.52	1.0	13.52	G
16	Nov	Prepare Ends	0.030	0.033 j	0.33	0.28			0.61	1.0	0.61	H
17	Nov	Combine Harvest		į			42.00		42.00	1.0	42.00	H
18	Nov	Haul, Custom 70.0 CW		į			17.50		17.50	1.0	17.50	H
19	Dec	Cut Stalks	0.450	0.500	4.20	4.20			8.40	1.0	8.40	P
20	Dec	Disk Residue	0.180	0.200	1.97	1.68			3.65	1.0	3.65	L
		Pickup Use 40 Mi/Ac	1.330	•	9.90						9.90	0
		Operating Interest at 9.00%					7.84				7.84	0
		TOTAL CASH OPERATING EXPENSE	S:		\$87.17	\$58.60	\$73.34	\$94.12			\$313.23	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.

OPERATING COST SUMMARY BY Land Preparation (L)	CLASS \$57.85	Prices ->		VITY 	OF NET R -25%	EVENUES OV	ER TOTAL CAS Budgeted	SH EXPENSES +10%	S (\$/Acre) +25%	
Growing (G)	169.11 60.10	Yields			\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Desch com
Harvest (H) Post Harvest (P)	8.39	ileids		¦	\$0.05	\$0.06	\$0.06	\$0.07	ŞU.U8	Break-even
Marketing (M)	0.00	-25%	5,250.0	i	-27.56	26.14	61.95	97.75	151.46	0.05
Operating Overhead (O)	17.74	-10%	6,300.0	Ţ	15.86	80.31	123.28	166.25	230.69	0.04
		Budgeted	7,000.0	ı	44.82	116.43	164.17	211.91	283.52	0.04
Total (T)	\$313.22	+10%	7,700.0	- 1	73.77	152.54	205.06	257.57	336.34	0.04
		+25%	8,750.0	-	117.20	206.72	266.39	326.07	415.58	0.03
		Break-eve	n Yield	- 1	5,916.34	4,743.24	4,189.45	3,751.45	3,242.90	

ARIZONA COOPERATIVE EXTENSION
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Greenlee Sorghum(Milo), Grain Duncan Valley	_	WATER SOURCE: IRRIGATION SYSTEM: PREVIOUS CROP:	Flood Furrow	TILLAGE: SOIL: DATE:	Conventional Sandy-Loam 10/04/96

	1			:		- 1 0:1	• •			t (\$/Acre) ———		
	Number	Applied	Total	!	Purchased	Fuel, Oil				Other		
Month *	Irrig.	(Inches)	Labor (Hrs)	ı	Water	& Repairs	Labo	r	Chemic	als Purchases	Services	s Total
FEB C			0.66	1		5.79	5.6	50				11.39
MAR C			0.48	i		4.55	4.0	9				8.64
APR C	1.0	12.0	0.92	i		14.06	7.8	81	39.3	18		61.26
MAY C			2.12	Ì		6.00	17.8	15		9.45		33.30
JUN C	2.0	12.0	1.19	i		17.60	10.0	2	37.7	'7		65.39
JUL C	2.0	12.0	0.42	i		11.38	3.5	55				14.93
AUG C	2.0	12.0	0.42	i		11.38	3.5	55	7.5	52	6.00	28.45
NOV C			0.03	i		0.33	0.2	28			35.00	35.61
DEC C			0.70	i		6.17	5.8	19				12.05
Pickup Us	se 40 M	i/Ac		•		9.90						9.90
-		st at 9.0%									7.87	7.87
Total	7.0	48.0	6.97	1		87.17	58.6	<u></u>	84.6	57 9.45	48.87	288.80
%				i		30.18	20.3	80	29.3	3.27	16.92	100.00
TOTAL RES	SOURCES	REQUIREMENTS	(/Acre)	Т	OTAL ENERGY R	EOUIREMENTS (/Acre)					
Total N		212.0 lbs	,		Diesel Fuel	~ '	15.4	Gal				
Total I	?	60.0 lbs			Regular Gas		0.0	Gal				
Total F	K	0.0 lbs			NonLead Gas		4.0	Gal				
Total I	Labor	6.9 Hrs										
Total W	Water	48.0 AI			Natural Gas/	Pumping	103.7	Ther	ms			
					All Direct E		13.0	M BT				
EOUIPMEN'	r REOUIR	EMENTS (/Acre)									
		TO HP, MFWD		Hrs	V-Ripper, 5	Shnk		0.60	Hrs	Offset Disk, 12'		0.39 Hr
	ne 12'X				Fertilizer B		Towed			Lister, 5 Bottom		0.18 Hr
Rowbuck		-			Section Harr					Planter, 4 Row		0.26 Hr
	ıltivato	r. 4Rw	0.45							Rotary Stalk Cutter	. 2 Row	0.45 Hr
	Truck,	•	1.33								,	
MATERIALS	REQUIR	EMENTS (/Acre)									
16-20-0	-	•••	300.00	Lb	Water, Pump			48.00	AI	Grain Sorghum Sd		10.00 Lb
		d. Ammmonia	200.00		2,4-d			1.00		Dimethoate		2.00 Pt
LABOR REG		TS(/Acre)			Irrigators				Hrs			

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

COUNTY: Greenlee FARM: Greenlee County Farm WATER SOURCE: **DEastN** TILLAGE: Conventional Sorghum(Milo), Grain ACRES: Sandy-Loam CROP: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: 7,000.0 Lb/Acre 10/04/96 AREA: Duncan Valley YIELD: PREVIOUS CROP: Cotton, Upland DATE:

	First	t	Eq	uipment/Custom Oper.	Job Ra	te — Mater	ial Use & Cost	t — Serv	ice Cost Labor
No.	Month	h Times Operation	HP	Self-Prop./Implem.	Acres/	Ir Name	Appl. Rate	\$/Unit	\$/Unit Type
1	Feb	2.0 Rip	100	V-Ripper, 5 Shnk	3.00				Tractor
2	Mar	1.0 Disk	100	Offset Disk, 12'	5.00				Tractor
3	Mar	1.0 Landplane	100	Landplane 12'X 45'	3.50				Tractor
4	Apr	1.0 Apply Fert/Ground	100	Fertilizer Broadcaster,	15.00	16-20-00, Dry	300.00 Lb	250.00 Tn	Tractor
5	Apr	1.0 List	100	Lister, 5 Bottom	5.00				Tractor
6	Apr	1.0 Buck Rows	100	Rowbuck, 10'	30.00				Tractor
7	Apr	1.0 Preirrigate			1.59	Water, Pump	12.00 AI	11.38 AF	Irrigator
8	May	1.0 Mulch	100	Section Harrow, 3 Secti	6.00				Tractor
9	May	1.0 Plant	100	Planter, 4 Row	3.50	Grain Sorghum Sd	10.00 Lb	90.00 CW	Tractor
10	May	1.0 Remove Cap	100	Section Harrow, 3 Secti	6.00				Tractor
11	Jun	1.0 Cultivate	100	Sled Cultivator, 4Rw	2.00				Tractor
12	Jun	1.0 Irrigate/Run Fertil:	ĹZ		3.18	Water, Pump	6.00 AI	11.38 AF	Irrigator
						82-00-00, Anhyd	. A 200.00 Lb	345.00 Tn	
13	Jun	1.0 Apply Herbicide/Grow	ın100	Saddle Tk Sprayer, 2 Tk	6.00	2,4-d	1.00 Pt	11.71 Ga	Tractor
14	Jun	5.0 Irrigate			4.75	Water, Pump	6.00 AI	11.38 AF	Irrigator
15	Aug	1.0 Apply Insecticide/A	ir	CST Air Spray, 3 Gal Mi		Dimethoate	2.00 Pt	28.63 Ga	6.00 Ac
16	Nov	1.0 Prepare Ends	100	Offset Disk, 12'	30.00				Tractor
17	Nov	1.0 Combine Harvest		CST Combine Wheat					17.50 Ac
18	Nov	1.0 Haul, Custom		CST Haul Grain					0.25 CW
19	Dec	1.0 Cut Stalks	100	Rotary Stalk Cutter, 2	2.00				Tractor
20	Dec	1.0 Disk Residue	100	Offset Disk, 12'	5.00				Tractor
		Pickup Use 40 Mi/A	2	Pickup Truck, 1/2 Ton	0.75				

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

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