COUNTY: Graham FARM: GROP: Sorghum(Milo), Grain ACRES: AREA: Safford Valley YIELD:	raham County Farm 1.0 3,600.0 Lb/Acre	IRRIGA	SOURCE: TION SYSTEM: US CROP:	Both Flood Furrow Barley	TILLAG SOIL: DATE:	E: Double Cropped Sandy-Loam 10/14/96
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 EXPERIENCE Paid Labor (including benefits) Tractor/Self Propelled Irrigation	NSES (including sal	es tax)		33.74 22.71	56.45	
Chemicals & Custom Applications Fertilizers Insecticides Herbicides				27.17 8.57 8.86	44.60	
Farm Machinery and Vehicles Diesel Fuel Repairs & Maint.				19.49 20.03	39.53	
Irrigation (excluding labor) Pump Energy - Elect. Repairs & Maint.				14.48 0.92	15.41	
Water Assessment (See Note Below) Other Purchased Inputs & Services Seed/Transplants	**			9.45	** 9.45	
TOTAL CASH LA	ND PREPARATION AND	GROWING EXPEN	SES	-	165.44	
CASH HARVEST AND POST HARVEST EXPENSES Paid Labor (including benefits)				2.80 1.62	2.80	
Repairs & Maint. Custom Harvest/Post Harvest				1.48	39.10	
TOTAL HARVEST	AND POST HARVEST E	XPENSE		-	45.00	
OPERATING OVERHEAD->PICKUP USE OPERATING INTEREST AT 8.0%				_	9.91 2.65	
	ERATING EXPENSES R CASH OPERATING EX	PENSES		-	\$223.00 \$22.52	

Notes: The above figures do not include ownership costs, see Table 10B on Next Page for detailed cost allocation.

** A water assessment charge of \$17.50/Acre is included in the ownership costs of Table 10B.

COUNTY: Graham FARM: Graham County Farm WATER SOURCE: Both TILLAGE: Double Cropped Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam CROP: 10/14/96 Safford Valley AREA: YIELD: 3,600.0 Lb/Acre PREVIOUS CROP: Barley DATE:

	- CASH COST BASIS (\$/AC		- TOTAL COST BASIS (\$/ACRE) -			
Item	Income & Costs Net Re	turns Income & Costs	Net Returns			
TOTAL INCOME at \$ 0.0682/Lb TOTAL OPERATING EXPENSES RETURN OVER CASH OPERATING EXPENSES	\$245.52 222.99 \$22	\$245.52 222.99	\$22.52			
CASH OVERHEAD EXPENSES Taxes, Housing & Insur., Farm Machinery Wells & Irrig. System Gen. & Off. Overhead (5% of Tot. Oper. Exp.) General Farm Maint. (3% of Tot. Oper. Exp.)	4.04 4.51 11.14 6.69	4.04 4.51 11.14 6.69				
Total Cash Overhead Expenses	26.38	26.38				
Total Cash Oper. & Over. Cost RETURNS OVER CASH OPER. & OVER. EXPENSES.	249.38 (3	249.38	(3.86)			
CAPITAL ALLOCATIONS (100% Equity) Capital Replacement, Machinery & Vehicles Wells & Irrig. System Interest on Equity, Machinery & Vehicles Wells & Irrig. System		22.57 8.03 9.70 3.06				
Total Capital Allocations RETURNS TO LAND, CAPITAL, MANAGEMENT & RISK ——— RETURNS TO LAND, MANAGEMENT & RISK ————————————————————————————————————	>(3	43.36	——>(47.22)			
LAND COSTS / OWNERSHIP (100% Equity) Property Taxes (\$660 X 16% X .10016) Opport. Inter. on Land (100% X 6.0% X \$660) Water Assessment ** Total Land Costs	5.28 17.50 22.78	5.28 19.80 17.50 42.58				
RETURNS TO MANAGEMENT, CAPITAL & RISK — RETURNS TO MANAGEMENT & RISK — RI	>(26	5.65)	>(89.81)			
Management Services (8% of Tot. Oper. Exp.)		17.83				
TOTAL OWNERSHIP COST	49.17	130.17				
TOTAL COST RETURN TO MANAGEMENT, CAPITAL & RISK — RETURN TO RISK (PROFITS)	\$272.17 	\$353.17	>(\$107.65)			
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb) BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST	\$0 \$0	0.0619 0.0136 0.0756	\$0.0619 \$0.0361 \$0.0981			

FARM: Graham County Farm TILLAGE: Double Cropped COUNTY: Graham WATER SOURCE: Both CROP: Sorghum(Milo), Grain ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam 10/14/96 AREA: 3,600.0 Lb/Acre Safford Valley YIELD: PREVIOUS CROP: Barley DATE:

	First		— Hour	s * -	l —	- Operat	ing Costs	(\$/Acre*) —		Tot. Cash		
No.	Month	Operation	Machine	Labor	Fuel/Rps	. Labor	Cust/Ser.	Materials	Total	Times	Expense	Class
1	Jun	Disk	0.300	0.333	3.59	2.80			6.39	1.0	6.39	L
2	Jun	List	0.225	0.250	2.35	2.10			4.45	1.0	4.45	L
3	Jun	Disk Ends	0.030	0.033	0.36	0.28			0.64	4.0	2.56	G
4	Jun	Buck Rows	0.030	0.033	0.26	0.28			0.54	3.0	1.62	G
5	Jun	Preirrigate		0.667	1	4.67			4.67	0.7	3.27	G
6	Jun	Preirrigate		1.000	14.01	7.01			21.02	0.3	6.31	G
7	Jul	Mulch	0.300	0.333	3.51	2.80			6.31	1.0	6.31	L L
8	Jul	Plant	0.300	0.333	4.00	2.80		9.45	16.25	1.0	16.25	L
9	Jul	Remove Cap	0.180	0.200	1.54	1.68			3.22	1.0	3.22	G
10	Jul	Cultivate	0.450	0.500	4.50	4.20			8.70	2.0	17.41	G
11	Jul	Apply Fert/Ground	0.300	0.333	3.70	2.80		27.17	33.67	1.0	33.67	G
12	Jul	Irrigate		0.538	İ	3.77			3.77	0.7	2.64	G
13	Jul	Irrigate		0.806	9.34	5.65			14.99	0.3	4.50	G
14	Jul	Apply Herbicide/Ground			İ		6.00	2.86	8.86	1.0	8.86	G
15	Aug	Cultivate	0.300	0.333	3.00	2.80			5.80	2.0	11.61	G
16	Aug	Irrigate		0.403	İ	2.82			2.82	2.8	7.90	G
17	Aug	Irrigate		0.606	7.00	4.25			11.25	1.2	13.50	G
18	Sep	Apply Insecticide/Air			İ			8.57	8.57	1.0	8.57	G
19	Nov	Combine Harvest			İ		30.10		30.10	1.0	30.10	H
20	Nov	Haul, Custom 36.0 CW			İ		9.00		9.00	1.0	9.00	H
21	Dec	Cut Stalks	0.300	0.333	3.10	2.80			5.90	1.0	5.90	P
22	Dec	Disk Residue	0.300	0.333	3.59	2.80			6.39	1.0	6.39	L
		Pickup Use 40 Mi/Ac	1.330		9.90						9.90	0
		Operating Interest at 8.00%					2.92				2.92	0
		TOTAL CASH OPERATING EXPENSE	S:		\$67.94	\$59.24	\$48.02	\$48.05		_	\$223.25	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 \$17.50/Acre included as ownership cost in Table 10B.

OPERATING COST SUMMARY BY	CLASS	- 1		SENSITI	VITY	OF NET	REVENUES O	VER TOTAL C	ASH EXPENS	ES (\$/Acre	e)
Land Preparation (L)	\$39.79		Prices ->	•		-25%	−10%	Budgeted	+10%	+25%	
Growing (G)	125.62	- 1									
Harvest (H)	39.10	- 1	Yields		- 1	\$0.05	\$0.06	\$0.06	\$0.07	\$0.08	Break-even
Post Harvest (P)	5.90				I						
Marketing (M)	0.00		-25%	2,700.0	- 1	-73.89	-46.27	-27.86	-9.44	18.17	0.07
Operating Overhead (O)	12.82	- 1	-10%	3,240.0	- 1	-53.02	-19.87	2.21	24.31	57.45	0.06
_		- 1	Budgeted	3,600.0	- 1	-39.11	-2.28	22.26	46.82	83.64	0.06
Total (T)	\$223.25	Ĺ	+10%	3,960.0	Ĺ	-25.19	15.31	42.32	69.32	109.83	0.05
		Ĺ	+25%	4,500.0	Ĺ	-4.32	41.70	72.39	103.08	149.12	0.05
		ĺ	Break-eve	n Yield	ĺ	4,611.91	3,646.69	3,200.18	2,851.09	2,450.17	

COUNTY: CROP: AREA:		(Milo), Grain Valley		1	ounty Farm .0 .0 Lb/Acre	IRRIG	SOURCE: ATION SYSTEM: DUS CROP:	Both Flood Furrow Barley	TILLAG SOIL: DATE:	E: Double Sandy- 10/14/	Loam
		Water		ı	-		— Operatin	g Cost (\$/Acre	,		
Month *	Number Irrig.	Applied (Inches)	Total Labor (Hrs)	i	Purchased Water	Fuel, Oil & Repairs	L	Chemicals	Other Purchases	Services	Total
JUN C	1.0	12.0	1.44	ı		11.12	11.11				22.23
JUL C	1.0	8.0	2.88	i		25.19	23.38	30.03	9.45	6.00	94.05
AUG C	2.0	12.0	1.62	i		10.47	12.38				22.85
SEP C	2.0	12.0	0.92	i		4.20	6.50	8.57			19.27
OCT C			0.03	i		0.36	0.28				0.64
NOV C				i						26.50	26.50
DEC C			0.66	i		6.69	5.60				12.29
	Use 40 M	fi/Ac	0.00	'		9.90	0.00				9.90
		est at 8.09	2			3.30				2.91	2.91
	ssessment		•		**					2.72	,
Total	6.0	44.0	7.58			67.94	59.25	38.60	9.45	35.41	210.65
%				i		32.25	28.12	18.32	4.48	16.80	100.00
Total Total Total Total	N P	REQUIREMENT: 123.0 lbs 0.0 lbs 0.0 lbs 7.5 Hrs 44.0 AI	S(/Acre)		TAL ENERGY REG Diesel Fuel Regular Gas RonLead Gas Electricity/Pu All Direct Ene	umping	/Acre) 19.3 Gal 0.0 Gal 4.0 Gal 146.0 KWH 3.6 M BT	U			
		REMENTS (/Acre				10.51	0 70				
		PTO HP, MFWD			Offset Disk, 1			s Lister, 5 B			0.23 Hrs
	ck, 10'				Power Mulcher			s Planter, 4			0.30 Hrs
		, 3 Section Cutter, 4 Ro			Cultivator, Sw Pickup Truck,		1.50 Hr: 1.33 Hr:	s Fertilizer	Injector, 4 R	OW	0.30 Hrs
	_	·			rickup iluck,	1/2 1011					
	LS REQUIR , Distric	REMENTS (/Acre	∍) 30.80	λТ	Water Bum		13.20 AI	Crain Sorch	,,m Cd		10.00 Lb
		d. Ammmonia			Water, Pump Atrazine		1.25 Lb		uii sa		2.00 Lb
LABOR RI		ITS (/Acre)	4.35	Hrs	Irrigators		3.24 Hr	s			

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

^{**} A water assessment charge of \$17.50/Acre included as ownership cost in Table 10B.

COU CRO ARE		raham FARM: orghum(Milo), Grain ACRES afford Valley YIELD	3:	raham County Farm 1.0 3,600.0 Lb/Acre	WATER SO IRRIGATI PREVIOUS	ION SYSTEM: Flo	ch ood Furrow cley	TILLAG SOIL: DATE:	E: Double Sandy 10/14	
No.	First	Times Operation	Equ	uipment/Custom Oper.	Job Rate Acres/Hr	— Mater	rial Use & Co Appl. Rate		vice Cos	
NO.	Month	Times Operation	пР	Self-Prop./Implem.	ACTES/ HI	Name	Appi. Rate	\$/01110	\$/UIIIC	Туре
1	Jun	1.0 Disk	100	Offset Disk, 13.5'	3.00					Tractor
2	Jun			Lister, 5 Bottom	4.00					Tractor
3	Jun			Offset Disk, 13.5'	30.00					Tractor
4	Jun			Rowbuck, 10'	30.00					Tractor
5	Jun	0.7 Preirrigate		•	1.50 Wat	ter, District	12.00 AI	0.00 AF		Irrigator
6	Jun	0.3 Preirrigate				ter, Pump	12.00 AI	14.00 AF		Irrigator
7	Jul	1.0 Mulch	100	Power Mulcher, 4 Rw	3.00	, <u>•</u>				Tractor
8	Jul	1.0 Plant	100	Planter, 4 Row	3.00 Gra	ain Sorghum Sd	10.00 Lb	90.00 CW		Tractor
9	Jul	1.0 Remove Cap	100	Section Harrow, 3 Secti		-				Tractor
10	Jul			Cultivator, Sweep, 4 Rw						Tractor
11	Jul	1.0 Apply Fert/Ground	100	Fertilizer Injector, 4	3.00 82-	-00-00, Anhyd.	A 150.00 Lb	345.00 Tn		Tractor
12	Jul	0.7 Irrigate		•	1.86 Wat	ter, District	8.00 AI	0.00 AF		Irrigator
13	Jul	0.3 Irrigate			1.24 Wat	ter, Pump	8.00 AI	14.00 AF		Irrigator
14	Jul	1.0 Apply Herbicide/Groun	ı	CST Air Spray, 3 Gal Mi	. Atı	razine	1.25 Lb	2.18 Lb	6.00 Ac	-
15	Aug	2.0 Cultivate	100	Cultivator, Sweep, 4 Rw						Tractor
16	Aug	2.8 Irrigate		· ·		ter, District	6.00 AI	0.00 AF		Irrigator
17	Aug	1.2 Irrigate			1.65 Wat	ter, Pump	6.00 AI	14.00 AF		Irrigator
18	Sep	1.0 Apply Insecticide/Air	2		Car	rbaryl	2.00 Lb	4.08 Lb		-
19	Nov	1.0 Combine Harvest		CST Combine Grain Sorgh	ì	_			17.50 Ac	
20	Nov	1.0 Haul, Custom		CST Haul Grain					0.25 CW	
21	Dec	1.0 Cut Stalks	100	Rotary Stalk Cutter, 4	3.00					Tractor
22	Dec			Offset Disk, 13.5'	3.00					Tractor
		Pickup Use 40 Mi/Ac		Pickup Truck, 1/2 Ton	0.75					

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

^{**} A water assessment charge of \$17.50/Acre included as ownership cost in Table 10B.