

**Estimating 2003 Costs of Production**

**Grain Sorghum, Non-Irrigated,  
Mixed Soils**

AG-752-12-02

**Tony E. Windham, Extension Economist - Management**  
**James Marshall, Extension Economist**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Grain sorg. safened	lb	1.18	6.0000	7.08	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	2.0000	8.00	_____
Custom haul	cwt	0.27	42.9000	11.58	_____
Custom dry sorghum	cwt	0.27	42.9000	11.58	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	300.0000	33.00	_____
Urea 46%	lb	0.09	160.0000	14.40	_____
FUNGICIDE & SEED TR.					
GaUCHo	lb	0.73	6.0000	4.38	_____
HERBICIDES					
Atrazine	pint	1.34	4.0000	5.36	_____
Dual II	pt	8.00	1.5000	12.00	_____
OPERATOR LABOR					
Implements	hour	6.70	0.2380	1.59	_____
Tractors	hour	6.70	0.5324	3.56	_____
Self-Propelled Eq.	hour	6.70	0.2500	1.67	_____
DIESEL FUEL					
Tractors	gal	0.90	4.7024	4.23	_____
Self-Propelled Eq.	gal	0.90	2.0600	1.85	_____
REPAIR & MAINTENANCE					
Implements	acre	2.31	1.0000	2.31	_____
Tractors	acre	3.40	1.0000	3.40	_____
Self-Propelled Eq.	acre	4.06	1.0000	4.06	_____
INTEREST ON OP. CAP.	acre	3.16	1.0000	3.16	_____
				-----	
TOTAL DIRECT EXPENSES				133.26	_____
FIXED EXPENSES					
Implements	acre	4.29	1.0000	4.29	_____
Tractors	acre	7.65	1.0000	7.65	_____
Self-Propelled Eq.	acre	13.64	1.0000	13.64	_____
				-----	
TOTAL FIXED EXPENSES				25.59	_____
				-----	
TOTAL SPECIFIED EXPENSES				158.86	_____

Visit our web site at <http://www.aragriculture.org>

**Table 2. Estimated resource use and costs for field operations per acre, Grain Sorghum, Non-Irrigated, Mixed Soils, 2003**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Chisel plow	21'	MFWD190	0.092	1.00	Mar	1.65	1.71	0.17	0.33	0.119	0.80				4.66
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00	4.00
9-23-30	lb											300.0000	0.11	33.00	33.00
Field cultivator	25.5'	MFWD190	0.054	1.00	Mar	0.96	1.00	0.20	0.42	0.070	0.47				3.07
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	1.71	1.66	1.19	2.00	0.304	2.04				8.62
Grain sorg. safened	lb											6.0000	1.18	7.08	7.08
Atrazine	pint											4.0000	1.34	5.36	5.36
Dual II	pt											1.5000	8.00	12.00	12.00
Gaucho	lb											6.0000	0.73	4.38	4.38
Water tank	1000 gal	170	0.131	0.06	Apr	0.09	0.05	0.00	0.01	0.001	0.01				0.16
Cstm ap grd fert dry	acre			1.00	May							1.0000	4.00	4.00	4.00
Urea 46%	lb											160.0000	0.09	14.40	14.40
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	1.74	1.69	0.29	0.49	0.167	1.12				5.35
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			5.92	13.64	0.250	1.67				21.24
Custom haul	cwt			1.00	Sep							42.9000	0.27	11.58	11.58
Custom dry sorghum	cwt			1.00	Sep							42.9000	0.27	11.58	11.58
TOTALS						7.64	7.65	8.23	17.94	1.020	6.83			107.38	155.69
INTEREST ON OPERATING CAPITAL															3.16
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															158.86

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

**Estimating 2003 Costs of Production**

**Grain Sorghum, Flood Irrigated,  
Loamy Soils**

AG-753-12-02

**Tony E. Windham, Extension Economist - Management**  
**James Marshall, Extension Economist**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Grain sorg. safened	lb	1.18	7.0000	8.26	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	2.0000	8.00	_____
Cstm lsr surv soy&gs	acre	1.25	1.0000	1.25	_____
Custom haul	cwt	0.27	64.0000	17.28	_____
Custom dry sorghum	cwt	0.27	64.0000	17.28	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	300.0000	33.00	_____
Urea 46%	lb	0.09	250.0000	22.50	_____
FUNGICIDE & SEED TR.					
Gaucho	lb	0.73	6.0000	4.38	_____
HERBICIDES					
Atrazine	pint	1.34	4.0000	5.36	_____
Dual II	pt	8.00	1.5000	12.00	_____
OPERATOR LABOR					
Implements	hour	6.70	0.2705	1.81	_____
Tractors	hour	6.70	0.7111	4.76	_____
Self-Propelled Eq.	hour	6.70	0.2500	1.67	_____
IRRIGATION LABOR					
Flood irrig	hour	6.70	0.0700	0.46	_____
DIESEL FUEL					
Tractors	gal	0.90	6.0287	5.42	_____
Self-Propelled Eq.	gal	0.90	2.0600	1.85	_____
Flood irrig	gal	0.90	7.0000	6.30	_____
REPAIR & MAINTENANCE					
Implements	acre	2.50	1.0000	2.50	_____
Tractors	acre	4.31	1.0000	4.31	_____
Self-Propelled Eq.	acre	4.06	1.0000	4.06	_____
Flood irrig	ac-in	0.21	7.0000	1.50	_____
INTEREST ON OP. CAP.	acre	3.67	1.0000	3.67	_____
TOTAL DIRECT EXPENSES				167.68	_____
FIXED EXPENSES					
Implements	acre	4.77	1.0000	4.77	_____
Tractors	acre	9.69	1.0000	9.69	_____
Self-Propelled Eq.	acre	13.64	1.0000	13.64	_____
Flood irrig	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				44.44	_____
TOTAL SPECIFIED EXPENSES				212.12	_____

Visit our web site at <http://www.aragriculture.org>

University of Arkansas, United States Department of Agriculture and County Governments cooperating

The Arkansas Cooperative Extension Service offers its programs to all eligible person regardless

of race, color, national origin, religion, gender, age, or disability, marital or veteran's status, or any other legally protected status, and is an Equal Opportunity Employer

**Table 2. Estimated resource use and costs for field operations per acre, Grain Sorghum, Flood Irrigated, Loamy Soils, 2003**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Chisel plow	21'	MFWD190	0.092	1.00	Mar	1.65	1.71	0.17	0.33	0.119	0.80				4.66
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00	4.00
9-23-30	lb											300.0000	0.11	33.00	33.00
Field cultivator	25.5'	MFWD190	0.054	1.00	Mar	0.96	1.00	0.20	0.42	0.070	0.47				3.07
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	1.71	1.66	1.19	2.00	0.304	2.04				8.62
Grain sorg. safened	lb											7.0000	1.18	8.26	8.26
Atrazine	pint											4.0000	1.34	5.36	5.36
Dual II	pt											1.5000	8.00	12.00	12.00
Gaucho	lb											6.0000	0.73	4.38	4.38
Water tank	1000 gal	170	0.131	0.06	Apr	0.09	0.05	0.00	0.01	0.001	0.01				0.16
Cstm lsr surv soy&gs	acre			1.00	May							1.0000	1.25	1.25	1.25
Cstm ap grd fert dry	acre			1.00	May							1.0000	4.00	4.00	4.00
Urea 46%	lb											250.0000	0.09	22.50	22.50
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	1.74	1.69	0.29	0.49	0.167	1.12				5.35
Levee disk-build	9'	2WD 170	0.196	0.15	Jun	0.44	0.43	0.05	0.11	0.038	0.25				1.29
Blade, rear mount	8'	2WD 105	0.645	0.05	Jun	0.30	0.29	0.01	0.05	0.041	0.28				0.94
Flood irrig	ac-in			1.00	Jun			4.46	16.33	0.040	0.26	4.0000			21.05
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jun	0.29	0.28	0.03	0.07	0.025	0.17				0.86
Levee disk-build	9'	2WD 170	0.196	0.15	Jul	0.44	0.43	0.05	0.11	0.038	0.25				1.29
Blade, rear mount	8'	2WD 105	0.645	0.05	Jul	0.30	0.29	0.01	0.05	0.041	0.28				0.94
Flood irrig	ac-in			1.00	Jul			3.34		0.030	0.20	3.0000			3.54
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Aug	0.29	0.28	0.03	0.07	0.025	0.17				0.86
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			5.92	13.64	0.250	1.67				21.24
Custom haul	cwt			1.00	Sep							64.0000	0.27	17.28	17.28
Custom dry sorghum	cwt			1.00	Sep							64.0000	0.27	17.28	17.28
TOTALS						9.74	9.69	16.23	34.74	1.301	8.72			129.31	208.44
INTEREST ON OPERATING CAPITAL															3.67
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															212.12

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.