

**Estimating 2007 Costs of Production**  
**Grain Sorghum, Furrow Irrigated, Loamy Soils**  
 AG-995-12-06  
**Rob Hogan, Jr., Extension Economist**  
**H. Scott Stiles, Extension Economist**  
**Jason Kelley, Extension Agronomist – Wheat and Feed Grains**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-70	acre	30.71	1.0000	30.71	_____
Urea, Solid (46% N)	lb	0.13	293.0000	38.09	_____
HERBICIDES					
Atrazine 4L	pt	1.25	4.0000	5.00	_____
Dual II Magnum	pt	13.46	1.5000	20.19	_____
IRRIGATION SUPPLIES					
IrrPipe+lax+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Sorghum Concep Trt	lb	1.36	6.5000	8.89	_____
Insecticide Seed Trt	lbseed	0.94	6.5000	6.11	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	3.0000	15.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Cstm Haul Sorghum	bu	0.15	110.0000	16.50	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.5491	4.94	_____
Harvesters	hour	9.00	0.1021	0.92	_____
IRRIGATION LABOR					
Furrow Irr.	hour	7.80	0.1508	1.18	_____
HAND LABOR					
Implements	hour	7.80	0.1015	0.79	_____
DIESEL FUEL					
Tractors	gal	2.22	5.4760	12.16	_____
Harvesters	gal	2.22	1.2617	2.80	_____
Furrow Irr.	gal	2.22	6.0000	13.32	_____
REPAIR & MAINTENANCE					
Implements	acre	3.87	1.0000	3.87	_____
Tractors	acre	2.08	1.0000	2.08	_____
Harvesters	acre	1.76	1.0000	1.76	_____
Furrow Irr.	ac-in	0.29	6.0000	1.76	_____
INTEREST ON OP. CAP.	acre	7.57	1.0000	7.57	_____
TOTAL DIRECT EXPENSES				209.94	_____
FIXED EXPENSES					
Implements	acre	10.99	1.0000	10.99	_____
Tractors	acre	16.06	1.0000	16.06	_____
Harvesters	acre	8.41	1.0000	8.41	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				60.78	_____
TOTAL SPECIFIED EXPENSES				270.72	_____

Visit our web site at: <http://www.uaex.edu>

View or print all of the Arkansas crop budgets at [http://www.uaex.edu/depts/ag\\_economics/crop\\_budgets.htm](http://www.uaex.edu/depts/ag_economics/crop_budgets.htm)

University of Arkansas, United States Department of Agriculture and County Governments Cooperating.

The Arkansas Cooperative Extension Service offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability, marital or veteran 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, Furrow Irrigated, Loamy Soils  
Arkansas, 2007, University of Arkansas**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Nov	2.08	2.17	0.57	1.51	0.07	0.63				6.96
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	1.95	2.23	0.61	1.36	0.07	0.69				6.84
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	5.00	5.00	5.00
0-60-70	acre											1.0000	30.71	30.71	30.71
Cstm Ap Grd Fert	acre											1.0000	5.00	5.00	5.00
Urea, Solid (46% N)	lb											98.0000	0.13	12.74	12.74
Field Cultivate	32'	MFWD 225	0.046	1.00	Mar	1.39	1.44	0.31	1.64	0.04	0.42				5.20
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Mar	2.39	2.73	0.29	0.94	0.09	0.84				7.19
Row Cond (Harrow)	26'	MFWD 190	0.057	1.00	Mar	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant & Pre Rigid	8R-30	MFWD 170	0.101	1.00	Apr	2.33	2.81	1.06	2.55	0.20	1.70				10.45
Sorghum Concep Trt	lb											6.5000	1.36	8.89	8.89
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Dual II Magnum	pt											1.5000	13.46	20.19	20.19
Insecticide Seed Trt	lbseed											6.5000	0.94	6.11	6.11
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Cstm Ap Grd Fert	acre			1.00	May							1.0000	5.00	5.00	5.00
Urea, Solid (46% N)	lb											195.0000	0.13	25.35	25.35
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.63	3.01	0.42	1.39	0.10	0.93				8.38
IrrPipe+lay+pickup	acre			1.00	May							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header Wheat/Sorghum	25' Rigid	240hp	0.102			4.56	8.41	0.47	0.88	0.10	0.92				15.24
Cstm Haul Sorghum	bu											110.0000	0.15	16.50	16.50
Furrow Irr.	each			1.00	Jun				25.32			0.0083			25.32
Application 1	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 2	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						18.80	24.47	18.95	36.31	0.90	7.83			156.79	263.15
INTEREST ON OPERATING CAPITAL															7.57
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															270.72

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.