

**Estimating 2007 Costs of Production**  
**Grain Sorghum, Center Pivot Irrigated, Loamy Soils**  
 AG-993-12-06  
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FERTILIZERS</b>					
0-60-70	acre	30.71	1.0000	30.71	_____
Urea, Solid (46% N)	lb	0.13	293.0000	38.09	_____
<b>HERBICIDES</b>					
Atrazine 4L	pt	1.25	4.0000	5.00	_____
Dual II Magnum	pt	13.46	1.5000	20.19	_____
<b>CROP SEED</b>					
Sorghum Concep Trt	lb	1.36	6.5000	8.89	_____
Insecticide Seed Trt	lbseed	0.94	6.5000	6.11	_____
<b>CUSTOM HIRE</b>					
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	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.00	0.4459	4.01	_____
Harvesters	hour	9.00	0.1021	0.92	_____
<b>IRRIGATION LABOR</b>					
Center pivot Irr.	hour	7.80	0.0487	0.36	_____
<b>HAND LABOR</b>					
Implements	hour	7.80	0.1015	0.79	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.22	4.4674	9.92	_____
Harvesters	gal	2.22	1.2617	2.80	_____
Center pivot Irr.	gal	2.22	12.0000	26.64	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.45	1.0000	3.45	_____
Tractors	acre	1.69	1.0000	1.69	_____
Harvesters	acre	1.76	1.0000	1.76	_____
Center pivot Irr.	ac-in	1.09	6.0000	6.60	_____
INTEREST ON OP. CAP.	acre	7.40	1.0000	7.40	_____
				-----	
<b>TOTAL DIRECT EXPENSES</b>				212.83	_____
<b>FIXED EXPENSES</b>					
Implements	acre	9.60	1.0000	9.60	_____
Tractors	acre	13.05	1.0000	13.05	_____
Harvesters	acre	8.41	1.0000	8.41	_____
Center pivot Irr.	each	9000.94	0.0076	69.24	_____
				-----	
<b>TOTAL FIXED EXPENSES</b>				100.30	_____
				-----	
<b>TOTAL SPECIFIED EXPENSES</b>				313.13	_____

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**Table 2. Estimated resource use and costs for field operations, per acre Grain Sorghum, Center Pivot Irrigated, Loamy Soils Arkansas, 2007, University of Arkansas**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	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
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
Center pivot Irr.	each			1.00	Jun				69.24			0.0076			69.24
Application 1	ac-in							5.54		0.00	0.06	1.0000			5.60
Application 2	ac-in							5.54		0.00	0.06	1.0000			5.60
Application 3	ac-in							5.54		0.00	0.06	1.0000			5.60
Application 4	ac-in							5.54		0.00	0.06	1.0000			5.60
Application 5	ac-in							5.54		0.00	0.06	1.0000			5.60
Application 6	ac-in							5.54		0.00	0.06	1.0000			5.60
TOTALS						16.17	21.46	36.69	78.84	0.69	6.08			146.49	305.73
INTEREST ON OPERATING CAPITAL															7.40
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															313.13

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.