

Estimating 2005 Costs of Production Grain Sorghum, Center Pivot Irrigated, Loamy Soils

AG-871-12-04

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	1.13	7.0000	7.91	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	2.0000	8.00	_____
Custom haul	cwt	0.27	64.0000	17.28	_____
FERTILIZER & LIME					
0-40-80	lb	0.12	100.0000	12.70	_____
Urea 46%	lb	0.15	250.0000	37.50	_____
FUNGICIDE & SEED TR.					
Gaucho	oz	10.89	0.5700	6.20	_____
HERBICIDES					
Atrazine	pint	1.30	4.0000	5.20	_____
Dual II	pt	12.39	1.5000	18.58	_____
OPERATOR LABOR					
Implements	hour	7.26	0.2380	1.72	_____
Tractors	hour	7.26	0.5324	3.86	_____
Self-Propelled Eq.	hour	7.26	0.2500	1.81	_____
IRRIGATION LABOR					
Center pivot irrg.	hour	7.26	0.0320	0.23	_____
DIESEL FUEL					
Tractors	gal	1.35	4.7024	6.34	_____
Self-Propelled Eq.	gal	1.35	2.0600	2.78	_____
Center pivot irrg.	gal	1.35	8.0000	10.80	_____
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	_____
Center pivot irrg.	ac in	0.86	4.0000	3.45	_____
INTEREST ON OP. CAP.	acre	3.40	1.0000	3.40	_____
TOTAL DIRECT EXPENSES				157.59	_____
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	_____
Center pivot irrg.	acre	51.03	1.0000	51.03	_____
TOTAL FIXED EXPENSES				76.62	_____
TOTAL SPECIFIED EXPENSES				234.22	_____

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 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, Center Pivot Irrigated, Loamy Soils, Arkansas, 2005

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.86	1.52	0.44	1.01	0.106	0.77				5.62
Chisel plow	21'	MFWD190	0.092	1.00	Mar	2.09	1.71	0.17	0.33	0.119	0.86				5.17
Cstm ap grd fert dry acre 0-40-80	lb			1.00	Mar							1.0000	4.00	4.00	4.00
Field cultivator	25.5'	MFWD190	0.054	1.00	Mar	1.23	1.00	0.20	0.42	0.070	0.50	100.0000	0.12	12.70	12.70
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	2.19	1.66	1.19	2.00	0.304	2.21				9.28
Grain sorg. safened	lb											7.0000	1.13	7.91	7.91
Atrazine	pint											4.0000	1.30	5.20	5.20
Dual II	pt											1.5000	12.39	18.58	18.58
Gaucho	oz											0.5700	10.89	6.20	6.20
Water tank	1000 gal	170	0.131	0.06	Apr	0.12	0.05	0.00	0.01	0.001	0.01				0.20
Cstm ap grd fert dry acre Urea 46%	lb			1.00	May							1.0000	4.00	4.00	4.00
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	2.23	1.69	0.29	0.49	0.167	1.21	250.0000	0.15	37.50	37.50
Center pivot irrg.	ac in			1.00	Jun			3.56	51.03	0.008	0.05	1.0000			54.65
Center pivot irrg.	ac in			1.00	Jul			3.56		0.008	0.05	1.0000			3.62
Center pivot irrg.	ac in			1.00	Jul			3.56		0.008	0.05	1.0000			3.62
Center pivot irrg.	ac in			1.00	Aug			3.56		0.008	0.05	1.0000			3.62
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			6.84	13.64	0.250	1.81				22.31
Custom haul	cwt			1.00	Sep							64.0000	0.27	17.28	17.28
TOTALS						9.75	7.65	23.41	68.97	1.052	7.64			113.38	230.82
INTEREST ON OPERATING CAPITAL															3.40
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															234.22

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Estimating 2005 Costs of Production Grain Sorghum, Flood Irrigated, Loamy Soils

AG-872-12-04

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	1.13	7.0000	7.91	_____
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	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	300.0000	33.00	_____
Urea 46%	lb	0.15	250.0000	37.50	_____
FUNGICIDE & SEED TR.					
Gaucho	oz	10.89	0.5700	6.20	_____
HERBICIDES					
Atrazine	pint	1.30	4.0000	5.20	_____
Dual II	pt	12.39	1.5000	18.58	_____
OPERATOR LABOR					
Implements	hour	7.26	0.2705	1.96	_____
Tractors	hour	7.26	0.7111	5.16	_____
Self-Propelled Eq.	hour	7.26	0.2500	1.81	_____
IRRIGATION LABOR					
Flood irrig	hour	7.26	0.0700	0.50	_____
DIESEL FUEL					
Tractors	gal	1.35	6.0287	8.13	_____
Self-Propelled Eq.	gal	1.35	2.0600	2.78	_____
Flood irrig	gal	1.35	7.0000	9.45	_____
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	4.33	1.0000	4.33	_____
TOTAL DIRECT EXPENSES				181.48	_____
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				225.92	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Grain Sorghum, Flood Irrigated, Loamy Soils, Arkansas, 2005

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.86	1.52	0.44	1.01	0.106	0.77				5.62
Chisel plow	21'	MFWD190	0.092	1.00	Mar	2.09	1.71	0.17	0.33	0.119	0.86				5.17
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	1.23	1.00	0.20	0.42	0.070	0.50				3.37
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	2.19	1.66	1.19	2.00	0.304	2.21				9.28
Grain sorg. safened	lb											7.0000	1.13	7.91	7.91
Atrazine	pint											4.0000	1.30	5.20	5.20
Dual II	pt											1.5000	12.39	18.58	18.58
Gaicho	oz											0.5700	10.89	6.20	6.20
Water tank	1000 gal	170	0.131	0.06	Apr	0.12	0.05	0.00	0.01	0.001	0.01				0.20
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	0.15	37.50	37.50
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	2.23	1.69	0.29	0.49	0.167	1.21				5.94
Levee disk-build	9'	2WD 170	0.196	0.15	Jun	0.57	0.43	0.05	0.11	0.038	0.27				1.44
Blade, rear mount	8'	2WD 105	0.645	0.05	Jun	0.39	0.29	0.01	0.05	0.041	0.30				1.05
Flood irrig	ac-in			1.00	Jun			6.26	16.33	0.040	0.29	4.0000			22.88
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jun	0.38	0.28	0.03	0.07	0.025	0.18				0.96
Levee disk-build	9'	2WD 170	0.196	0.15	Jul	0.57	0.43	0.05	0.11	0.038	0.27				1.44
Blade, rear mount	8'	2WD 105	0.645	0.05	Jul	0.39	0.29	0.01	0.05	0.041	0.30				1.05
Flood irrig	ac-in			1.00	Jul			4.69		0.030	0.21	3.0000			4.91
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Aug	0.38	0.28	0.03	0.07	0.025	0.18				0.96
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			6.84	13.64	0.250	1.81				22.31
Custom haul	cwt			1.00	Sep							64.0000	0.27	17.28	17.28
TOTALS						12.45	9.69	20.31	34.74	1.301	9.45			134.93	221.58
INTEREST ON OPERATING CAPITAL															4.33
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															225.92

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Estimating 2005 Costs of Production Grain Sorghum, Furrow Irrigated Loamy Soils

AG-873-12-04

Tony E. Windham, Extension Economist - Management
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Grain sorg. safened	lb	1.13	7.0000	7.91	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	2.0000	8.00	_____
Custom haul	cwt	0.27	64.0000	17.28	_____
FERTILIZER & LIME					
0-40-80	lb	0.12	100.0000	12.70	_____
Urea 46%	lb	0.15	250.0000	37.50	_____
FUNGICIDE & SEED TR.					
Gaucho	oz	10.89	0.5700	6.20	_____
HERBICIDES					
Atrazine	pint	1.30	4.0000	5.20	_____
Dual II	pt	12.39	1.5000	18.58	_____
MISC. IRRIGATION					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
OPERATOR LABOR					
Implements	hour	7.26	0.2380	1.72	_____
Tractors	hour	7.26	0.5324	3.86	_____
Self-Propelled Eq.	hour	7.26	0.2500	1.81	_____
IRRIGATION LABOR					
Furrow irrigation	hour	7.26	0.1500	1.08	_____
DIESEL FUEL					
Tractors	gal	1.35	4.7024	6.34	_____
Self-Propelled Eq.	gal	1.35	2.0600	2.78	_____
Furrow irrigation	gal	1.35	6.0000	8.10	_____
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	_____
Furrow irrigation	ac in	0.21	6.0000	1.29	_____
INTEREST ON OP. CAP.	acre	3.50	1.0000	3.50	_____

TOTAL DIRECT EXPENSES				159.44	_____
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	_____
Furrow irrigation	acre	16.33	1.0000	16.33	_____

TOTAL FIXED EXPENSES				41.92	_____

TOTAL SPECIFIED EXPENSES				201.37	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Grain Sorghum, Furrow Irrigated, Loamy Soils, Arkansas, 2005

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.86	1.52	0.44	1.01	0.106	0.77				5.62
Chisel plow	21'	MFWD190	0.092	1.00	Mar	2.09	1.71	0.17	0.33	0.119	0.86				5.17
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00	4.00
0-40-80	lb											100.0000	0.12	12.70	12.70
Field cultivator	25.5'	MFWD190	0.054	1.00	Mar	1.23	1.00	0.20	0.42	0.070	0.50				3.37
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	2.19	1.66	1.19	2.00	0.304	2.21				9.28
Grain sorg. safened	lb											7.0000	1.13	7.91	7.91
Atrazine	pint											4.0000	1.30	5.20	5.20
Dual II	pt											1.5000	12.39	18.58	18.58
Gaicho	oz											0.5700	10.89	6.20	6.20
Water tank	1000 gal	170	0.131	0.06	Apr	0.12	0.05	0.00	0.01	0.001	0.01				0.20
Cstm ap grd fert dry	acre			1.00	May							1.0000	4.00	4.00	4.00
Urea 46%	lb											250.0000	0.15	37.50	37.50
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	2.23	1.69	0.29	0.49	0.167	1.21				5.94
Flex irrigation tube	acre			1.00	May							1.0000	5.75	5.75	5.75
Furrow irrigation	ac in			1.00	Jun			4.69	16.33	0.075	0.54	3.0000			21.56
Furrow irrigation	ac in			1.00	Jul			4.69		0.075	0.54	3.0000			5.23
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			6.84	13.64	0.250	1.81				22.31
Custom haul	cwt			1.00	Sep							64.0000	0.27	17.28	17.28
TOTALS						9.75	7.65	18.55	34.27	1.170	8.49			119.13	197.86
INTEREST ON OPERATING CAPITAL															3.50
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															201.37

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Estimating 2005 Costs of Production Grain Sorghum, Non-Irrigated Mixed Soils

AG-874-12-04

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	1.13	6.0000	6.78	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	2.0000	8.00	_____
Custom haul	cwt	0.27	42.9000	11.58	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	300.0000	33.00	_____
Urea 46%	lb	0.15	160.0000	24.00	_____
FUNGICIDE & SEED TR.					
Gaucho	oz	10.89	0.5700	6.20	_____
HERBICIDES					
Atrazine	pint	1.30	4.0000	5.20	_____
Dual II	pt	12.39	1.5000	18.58	_____
OPERATOR LABOR					
Implements	hour	7.26	0.2380	1.72	_____
Tractors	hour	7.26	0.5324	3.86	_____
Self-Propelled Eq.	hour	7.26	0.2500	1.81	_____
DIESEL FUEL					
Tractors	gal	1.35	4.7024	6.34	_____
Self-Propelled Eq.	gal	1.35	2.0600	2.78	_____
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	3.65	1.0000	3.65	_____
TOTAL DIRECT EXPENSES				143.33	_____
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				168.93	_____

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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, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.86	1.52	0.44	1.01	0.106	0.77				5.62
Chisel plow	21'	MFWD190	0.092	1.00	Mar	2.09	1.71	0.17	0.33	0.119	0.86				5.17
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	1.23	1.00	0.20	0.42	0.070	0.50				3.37
Plntr hbox + sprydir	20'	2WD 150	0.127	1.00	Apr	2.19	1.66	1.19	2.00	0.304	2.21				9.28
Grain sorg. safened	lb											6.0000	1.13	6.78	6.78
Atrazine	pint											4.0000	1.30	5.20	5.20
Dual II	pt											1.5000	12.39	18.58	18.58
Gaucho	oz											0.5700	10.89	6.20	6.20
Water tank	1000 gal	170	0.131	0.06	Apr	0.12	0.05	0.00	0.01	0.001	0.01				0.20
Cstm ap grd fert dry	acre			1.00	May							1.0000	4.00	4.00	4.00
Urea 46%	lb											160.0000	0.15	24.00	24.00
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	2.23	1.69	0.29	0.49	0.167	1.21				5.94
Combine 4WD Grn Sorg	25'		0.200	1.00	Sep			6.84	13.64	0.250	1.81				22.31
Custom haul	cwt			1.00	Sep							42.9000	0.27	11.58	11.58
TOTALS						9.75	7.65	9.16	17.94	1.020	7.40			113.35	165.28
INTEREST ON OPERATING CAPITAL															3.65
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															168.93

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.