



COOPERATIVE EXTENSION SERVICE

University of Arkansas

Grain Sorghum, Mixed Soils, Arkansas

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

Table 1. Estimated costs per acre, Grain Sorghum, Mixed Soils, Arkansas, 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROPS SEED					
Grain sorg. safened	lb	1.20	7.0000	8.40	_____
CUSTOM WORK					
Cstm ap grd fert dry	ac	3.50	2.0000	7.00	_____
Cstm Haul	cwt	0.27	42.9000	11.58	_____
Custom dry sorghum	cwt	0.27	42.9000	11.58	_____
HERBICIDES					
Bicep	pint	4.45	4.0000	17.80	_____
FERTILIZER & LIME					
19-19-19	lb	0.12	210.0000	25.41	_____
Urea 46%	lb	0.12	130.0000	15.60	_____
OPERATOR LABOR					
Implements	hour	6.55	0.8727	5.72	_____
Self-Propelled Eq.	hour	6.55	0.2352	1.54	_____
DIESEL FUEL					
Tractors	gal	0.70	6.2024	4.34	_____
Self-Propelled Eq.	gal	0.70	2.8761	2.01	_____
REPAIR & MAINTENANCE					
Implements	acre	2.29	1.0000	2.29	_____
Tractors	acre	4.90	1.0000	4.90	_____
Self-Propelled Eq.	acre	4.75	1.0000	4.75	_____
INTEREST ON OP. CAP.	acre	4.61	1.0000	4.61	_____
TOTAL DIRECT EXPENSES				127.54	_____
FIXED EXPENSES					
Implements	acre	5.74	1.0000	5.74	_____
Tractors	acre	8.68	1.0000	8.68	_____
Self-Propelled Eq.	acre	17.40	1.0000	17.40	_____
TOTAL FIXED EXPENSES				31.82	_____
TOTAL SPECIFIED EXPENSES				159.36	_____

*Estimating 1997
Production Costs
In Arkansas*

*Tony E. Windham
Craig D. Brown*

AG-478-10-96



*Linking People
to Research*

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Table 2. Estimated resource use and costs per acre for field operations, Grain Sorghum, Mixed Soils, Arkansas, 1997.

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'	180	0.082	1.00	Nov	1.48	1.45	0.44	1.24	0.098	0.64				5.26
Disk, medium cut	26.41'	180	0.082	1.00	Mar	1.48	1.45	0.44	1.24	0.098	0.64				5.26
Cstm ap grd fert dry ac				1.00	Mar							1.0000	3.50	3.50	3.50
19-19-19	lb											210.0000	0.12	25.41	25.41
Field cultivator	25.5'	180	0.054	1.00	Mar	0.98	0.96	0.20	0.53	0.065	0.42				3.09
Plntr hbox + sprdir	20'	145	0.127	1.00	Apr	1.75	1.59	0.60	1.53	0.292	1.91				7.37
Grain sorg. safened	lb											7.0000	1.20	8.40	8.40
Bicep	pint			0.50	Apr							4.0000	4.45	17.80	17.80
Water tank	1000gal	170	0.131	0.06	Apr			0.01	0.01	0.009	0.06				0.08
Row cult 8ra30"	20'	145	0.129	1.00	May	1.78	1.61	0.30	0.60	0.155	1.01				5.30
Cstm ap grd fert dry ac				1.00	May							1.0000	3.50	3.50	3.50
Urea 46%	lb											130.0000	0.12	15.60	15.60
Row cult 8ra30"	20'	145	0.129	1.00	Jun	1.78	1.61	0.30	0.60	0.155	1.01				5.30
Combine, 4wd, sorg.	20'		0.206	1.00	Sep			6.77	17.40	0.235	1.54				25.70
Cstm 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						9.24	8.68	9.06	23.14	1.108	7.26			97.38	154.75
INTEREST ON OPERATING CAPITAL															4.61
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															159.36

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.



COOPERATIVE EXTENSION SERVICE

University of Arkansas

Grain Sorghum, Flood Irrigation, Loamy Soils, Arkansas

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

Table 1. Estimated costs per acre, Grain Sorghum, Flood Irrigated, Loamy Soils, Arkansas, 1997.

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROPS SEED					
Grain sorg. safened	lb	1.20	7.0000	8.40	_____
CUSTOM WORK					
Cstm ap grd fert dry	ac	3.50	2.0000	7.00	_____
Cstm laser survey	ac	2.50	1.0000	2.50	_____
Cstm Haul	cwt	0.27	64.3000	17.36	_____
Custom dry sorghum	cwt	0.27	64.3000	17.36	_____
HERBICIDES					
Bicep	pint	4.45	4.0000	17.80	_____
FERTILIZER & LIME					
19-19-19	lb	0.12	210.0000	25.41	_____
Urea 46%	lb	0.12	200.0000	24.00	_____
OPERATOR LABOR					
Implements	hour	6.55	0.9938	6.51	_____
Self-Propelled Eq.	hour	6.55	0.2352	1.54	_____
IRRIGATION LABOR					
Flood irrigation	hour	6.55	0.8400	5.50	_____
DIESEL FUEL					
Tractors	gal	0.70	7.0851	4.96	_____
Self-Propelled Eq.	gal	0.70	2.8761	2.01	_____
Flood irrigation	gal	0.70	8.5400	5.98	_____
REPAIR & MAINTENANCE					
Implements	acre	2.42	1.0000	2.42	_____
Tractors	acre	5.61	1.0000	5.61	_____
Self-Propelled Eq.	acre	4.75	1.0000	4.75	_____
Flood irrigation	acre	2.87	1.0000	2.87	_____
INTEREST ON OP. CAP.	acre	5.57	1.0000	5.57	_____
TOTAL DIRECT EXPENSES				167.56	_____
FIXED EXPENSES					
Implements	acre	6.12	1.0000	6.12	_____
Tractors	acre	9.94	1.0000	9.94	_____
Self-Propelled Eq.	acre	17.40	1.0000	17.40	_____
Flood irrigation	acre	15.19	1.0000	15.19	_____
TOTAL FIXED EXPENSES				48.64	_____
TOTAL SPECIFIED EXPENSES				216.20	_____

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Table 2. Estimated resource use and costs per acre for field operations, Grain Sorghum, Flood Irrigated, Loamy Soils, Arkansas, 1997.

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'	180	0.082	1.00	Nov	1.48	1.45	0.44	1.24	0.098	0.64				5.26
Disk, medium cut	26.41'	180	0.082	1.00	Mar	1.48	1.45	0.44	1.24	0.098	0.64				5.26
Cstm ap grd fert dry ac				1.00	Mar							1.0000	3.50	3.50	3.50
19-19-19	lb											210.0000	0.12	25.41	25.41
Field cultivator	25.5'	180	0.054	1.00	Mar	0.98	0.96	0.20	0.53	0.065	0.42				3.09
Plntr hbox + sprdir	20'	145	0.127	1.00	Apr	1.75	1.59	0.60	1.53	0.292	1.91				7.37
Grain sorg. safened	lb											7.0000	1.20	8.40	8.40
Bicep	pint			0.50	Apr							4.0000	4.45	17.80	17.80
Water tank	1000gal	170	0.131	0.06	Apr			0.01	0.01	0.009	0.06				0.08
Cstm laser survey	ac			1.00	May							1.0000	2.50	2.50	2.50
Row cult 8ra30"	20'	145	0.129	1.00	May	1.78	1.61	0.30	0.60	0.155	1.01				5.30
Cstm ap grd fert dry ac				1.00	May							1.0000	3.50	3.50	3.50
Urea 46%	lb											200.0000	0.12	24.00	24.00
Row cult 8ra30"	20'	145	0.129	1.00	Jun	1.78	1.61	0.30	0.60	0.155	1.01				5.30
Levee disk	9'	160	0.196	0.15	Jun	0.44	0.41	0.05	0.13	0.035	0.23				1.26
Blade rear mount	8'	85	0.645	0.05	Jun	0.30	0.30	0.01	0.07	0.039	0.25				0.93
Flood irrigation	ac in			1.00	Jun				5.06	8.68	0.480	3.14			16.88
Levee disk	9'	160	0.196	0.10	Jul	0.29	0.27	0.03	0.09	0.024	0.15				0.84
Flood irrigation	ac in			1.00	Jul				3.79	6.51	0.360	2.36			12.66
Levee disk	9'	160	0.196	0.10	Aug	0.29	0.27	0.03	0.09	0.024	0.15				0.84
Combine, 4wd, sorg.	20'		0.206	1.00	Sep				6.77	17.40	0.235	1.54			25.70
Cstm Haul	cwt			1.00	Sep							64.3000	0.27	17.36	17.36
Custom dry sorghum	cwt			1.00	Sep							64.3000	0.27	17.36	17.36
TOTALS						10.57	9.94	18.03	38.71	2.069	13.55			119.83	210.63
INTEREST ON OPERATING CAPITAL															5.57
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															216.20

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