

Estimating 2008 Costs of Production
Grain Sorghum, Center Pivot Irrigated, Loamy Soils

AG-1074-11-07

Pam Guling, Agricultural Economics Associate
Scott Stiles, Instructor/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	44.95	1.0000	44.95	_____
Urea, Solid (46% N)	lb	0.20	293.0000	58.60	_____
HERBICIDES					
Atrazine 4L	pt	1.38	4.0000	5.52	_____
Dual II Magnum	pt	12.77	1.5000	19.16	_____
CROP SEED					
Sorghum Concep Trt	lb	1.34	6.5000	8.71	_____
Insecticide Seed Trt	lbseed	0.94	6.5000	6.11	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	3.0000	14.76	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Haul Sorghum	bu	0.15	110.0000	16.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.4459	4.21	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0487	0.42	_____
HAND LABOR					
Implements	hour	8.19	0.1015	0.83	_____
DIESEL FUEL					
Tractors	gal	2.33	4.4674	10.41	_____
Harvesters	gal	2.33	1.2617	2.94	_____
Center pivot Irr.	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	1.72	1.0000	1.72	_____
Center pivot Irr.	ac-in	1.39	6.0000	8.40	_____
INTEREST ON OP. CAP.	acre	8.92	1.0000	8.92	_____
TOTAL DIRECT EXPENSES				251.53	_____
FIXED EXPENSES					
Implements	acre	10.07	1.0000	10.07	_____
Tractors	acre	13.15	1.0000	13.15	_____
Harvesters	acre	8.13	1.0000	8.13	_____
Center pivot Irr.	each	8866.29	0.0076	68.20	_____
TOTAL FIXED EXPENSES				99.55	_____
TOTAL SPECIFIED EXPENSES				351.08	_____

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Table 2. Estimated resource use and costs for field operations, per acre Grain Sorghum, Center Pivot Irrigated, Loamy Soils Arkansas, 2008, University of Arkansas

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 Harrow	28'	MFWD 225	0.070	1.00	Nov	2.20	2.36	0.59	1.53	0.07	0.66				7.34
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.03	2.18	0.66	1.44	0.07	0.72				7.03
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	4.92	4.92	4.92
0-60-70	acre											1.0000	44.95	44.95	44.95
Cstm Ap Grd Fert	acre											1.0000	4.92	4.92	4.92
Urea, Solid (46% N)	lb											98.0000	0.20	19.60	19.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Mar	2.49	2.67	0.28	0.92	0.09	0.89				7.25
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Mar	1.52	1.63	0.14	0.71	0.05	0.54				4.54
Plant & Pre-Rigid	8R-30	MFWD 170	0.101	1.00	Apr	2.43	2.74	1.18	2.80	0.20	1.79				10.94
Sorghum Concep Trt	lb											6.5000	1.34	8.71	8.71
Atrazine 4L	pt											2.0000	1.38	2.76	2.76
Dual II Magnum	pt											1.5000	12.77	19.16	19.16
Insecticide Seed Trt	lbseed											6.5000	0.94	6.11	6.11
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Atrazine 4L	pt											2.0000	1.38	2.76	2.76
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
Urea, Solid (46% N)	lb											195.0000	0.20	39.00	39.00
Harvest				1.00	Sep										
Header Wheat/Sorghum	25' Rigid 240hp		0.102			4.66	8.13	0.51	0.95	0.10	0.97				15.22
Cstm Haul Sorghum	bu											110.0000	0.15	16.50	16.50
Center pivot Irr.	each			1.00	Jun				68.20			0.0076			68.20
Application 1	ac-in							6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in							6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in							6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in							6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in							6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in							6.06		0.00	0.07	1.0000			6.13
TOTALS						16.80	21.28	40.05	78.27	0.69	6.43			179.33	342.16
INTEREST ON OPERATING CAPITAL															8.92
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															351.08

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AG-1074-11-07

Estimating 2008 Costs of Production
Grain Sorghum, Flood Irrigated, Loamy Soils
 AG-1075-11-07
Pam Guiling, Agricultural Economics Associate
Scott Stiles, Instructor/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	44.95	1.0000	44.95	_____
Urea, Solid (46% N)	lb	0.20	293.0000	58.60	_____
HERBICIDES					
Atrazine 4L	pt	1.38	4.0000	5.52	_____
Dual II Magnum	pt	12.77	1.5000	19.16	_____
CROP SEED					
Sorghum Concep Trt	lb	1.34	6.5000	8.71	_____
Insecticide Seed Trt	lbseed	0.94	6.5000	6.11	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	3.0000	14.76	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Haul Sorghum	bu	0.15	110.0000	16.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.4685	4.43	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Flood Irr. - Crn-Sor	hour	8.19	0.0543	0.44	_____
HAND LABOR					
Implements	hour	8.19	0.1015	0.83	_____
DIESEL FUEL					
Tractors	gal	2.33	4.6568	10.85	_____
Harvesters	gal	2.33	1.2617	2.94	_____
Flood Irr. - Crn-Sor	gal	2.33	6.0000	13.98	_____
REPAIR & MAINTENANCE					
Implements	acre	3.71	1.0000	3.71	_____
Tractors	acre	1.81	1.0000	1.81	_____
Harvesters	acre	1.72	1.0000	1.72	_____
Flood Irr. - Crn-Sor	ac-in	0.30	6.0000	1.80	_____
INTEREST ON OP. CAP.	acre	8.56	1.0000	8.56	_____
TOTAL DIRECT EXPENSES				231.37	_____
FIXED EXPENSES					
Implements	acre	10.23	1.0000	10.23	_____
Tractors	acre	13.73	1.0000	13.73	_____
Harvesters	acre	8.13	1.0000	8.13	_____
Flood Irr. - Crn-Sor	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				57.03	_____
TOTAL SPECIFIED EXPENSES				288.40	_____

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**Table 2. Estimated resource use and costs for field operations, per acre Grain Sorghum, Flood Irrigated, Loamy Soils
Arkansas, 2008, University of Arkansas**

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 Harrow	28'	MFWD 225	0.070	1.00	Nov	2.20	2.36	0.59	1.53	0.07	0.66					7.34
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.03	2.18	0.66	1.44	0.07	0.72					7.03
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	4.92	4.92		4.92
0-60-70	acre											1.0000	44.95	44.95		44.95
Cstm Ap Grd Fert	acre											1.0000	4.92	4.92		4.92
Urea, Solid (46% N)	lb											98.0000	0.20	19.60		19.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.47	1.57	0.33	1.72	0.04	0.44					5.53
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Mar	2.49	2.67	0.28	0.92	0.09	0.89					7.25
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Mar	1.52	1.63	0.14	0.71	0.05	0.54					4.54
Plant & Pre-Rigid	8R-30	MFWD 170	0.101	1.00	Apr	2.43	2.74	1.18	2.80	0.20	1.79					10.94
Sorghum Concep Trt	lb											6.5000	1.34	8.71		8.71
Atrazine 4L	pt											2.0000	1.38	2.76		2.76
Dual II Magnum	pt											1.5000	12.77	19.16		19.16
Insecticide Seed Trt	lbseed											6.5000	0.94	6.11		6.11
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02		5.02
Atrazine 4L	pt											2.0000	1.38	2.76		2.76
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92		4.92
Urea, Solid (46% N)	lb											195.0000	0.20	39.00		39.00
Survey Levees-CnSbGs	acre			1.00	Jun								3.00			
Build Inside Levees				2.00	Jun											
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003			0.18	0.19	0.01	0.05	0.00	0.07					0.50
Blade-Scraper	8'-10'	MFWD 105		1.00	Jun											
Tear Down Levees				1.00	Jun											
Levee Splitter (1/80	8 blade	MFWD 150	0.004			0.08	0.10		0.03	0.00	0.04					0.25
Build Inside Levees				2.00	Jul											
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003			0.18	0.19	0.01	0.05	0.00	0.07					0.50
Blade-Scraper	8'-10'	MFWD 105		1.00	Jul											
Tear Down Levees				1.00	Aug											
Levee Splitter (1/80	8 blade	MFWD 150	0.004			0.08	0.10		0.03	0.00	0.04					0.25
Harvest				1.00	Sep											
Header Wheat/Sorghum	25' Rigid	240hp	0.102			4.66	8.13	0.51	0.95	0.10	0.97					15.22
Cstm Haul Sorghum	bu											110.0000	0.15	16.50		16.50
Flood Irr. - Crn-Sor	each			1.00	Jun				24.94			0.0083				24.94
Application 1	ac-in							7.89		0.02	0.22	3.0000				8.11
Application 2	ac-in							7.89		0.02	0.22	3.0000				8.11
TOTALS						17.32	21.86	19.49	35.17	0.72	6.67			179.33		279.84
INTEREST ON OPERATING CAPITAL																8.56
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																288.40

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Estimating 2008 Costs of Production
Grain Sorghum, Furrow Irrigated, Loamy Soils
 AG-1076-11-07
 Pam Guling, Agricultural Economics Associate
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 Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-70	acre	44.95	1.0000	44.95	_____
Urea, Solid (46% N)	lb	0.20	293.0000	58.60	_____
HERBICIDES					
Atrazine 4L	pt	1.38	4.0000	5.52	_____
Dual II Magnum	pt	12.77	1.5000	19.16	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Sorghum Concep Trt	lb	1.34	6.5000	8.71	_____
Insecticide Seed Trt	lbseed	0.94	6.5000	6.11	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	3.0000	14.76	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Haul Sorghum	bu	0.15	110.0000	16.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.5491	5.18	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.1508	1.24	_____
HAND LABOR					
Implements	hour	8.19	0.1015	0.83	_____
DIESEL FUEL					
Tractors	gal	2.33	5.4760	12.76	_____
Harvesters	gal	2.33	1.2617	2.94	_____
Furrow Irr.	gal	2.33	6.0000	13.98	_____
REPAIR & MAINTENANCE					
Implements	acre	4.12	1.0000	4.12	_____
Tractors	acre	2.11	1.0000	2.11	_____
Harvesters	acre	1.72	1.0000	1.72	_____
Furrow Irr.	ac-in	0.17	6.0000	1.06	_____
INTEREST ON OP. CAP.	acre	9.03	1.0000	9.03	_____
TOTAL DIRECT EXPENSES				245.57	_____
FIXED EXPENSES					
Implements	acre	11.47	1.0000	11.47	_____
Tractors	acre	16.08	1.0000	16.08	_____
Harvesters	acre	8.13	1.0000	8.13	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				60.62	_____
TOTAL SPECIFIED EXPENSES				306.19	_____

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Arkansas, 2008, University of Arkansas**

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 Harrow	28'	MFWD 225	0.070	1.00	Nov	2.20	2.36	0.59	1.53	0.07	0.66				7.34
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.03	2.18	0.66	1.44	0.07	0.72				7.03
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	4.92	4.92	4.92
0-60-70	acre											1.0000	44.95	44.95	44.95
Cstm Ap Grd Fert	acre											1.0000	4.92	4.92	4.92
Urea, Solid (46% N)	lb											98.0000	0.20	19.60	19.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Mar	2.49	2.67	0.28	0.92	0.09	0.89				7.25
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Mar	1.52	1.63	0.14	0.71	0.05	0.54				4.54
Plant & Pre-Rigid	8R-30	MFWD 170	0.101	1.00	Apr	2.43	2.74	1.18	2.80	0.20	1.79				10.94
Sorghum Concep Trt	lb											6.5000	1.34	8.71	8.71
Atrazine 4L	pt											2.0000	1.38	2.76	2.76
Dual II Magnum	pt											1.5000	12.77	19.16	19.16
Insecticide Seed Trt	lbseed											6.5000	0.94	6.11	6.11
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Atrazine 4L	pt											2.0000	1.38	2.76	2.76
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
Urea, Solid (46% N)	lb											195.0000	0.20	39.00	39.00
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.73	2.93	0.43	1.40	0.10	0.97				8.46
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			4.66	8.13	0.51	0.95	0.10	0.97				15.22
Cstm Haul Sorghum	bu											110.0000	0.15	16.50	16.50
Furrow Irr.	each			1.00	Jun				24.94			0.0083			24.94
Application 1	ac-in							7.52		0.07	0.62	3.0000			8.14
Application 2	ac-in							7.52		0.07	0.62	3.0000			8.14
TOTALS						19.53	24.21	19.16	36.41	0.90	8.22			189.63	297.16
INTEREST ON OPERATING CAPITAL															9.03
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															306.19

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 AG-1077-11-07
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Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-50-60	acre	39.28	1.0000	39.28	_____
Urea, Solid (46% N)	lb	0.20	239.0000	47.80	_____
HERBICIDES					
Atrazine 4L	pt	1.38	4.0000	5.52	_____
Dual II Magnum	pt	12.77	1.5000	19.16	_____
CROP SEED					
Sorghum Concep Trt	lb	1.34	4.5000	6.03	_____
Insecticide Seed Trt	lbseed	0.94	4.5000	4.23	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	3.0000	14.76	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Haul Sorghum	bu	0.15	90.0000	13.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.4459	4.21	_____
Harvesters	hour	9.45	0.1021	0.97	_____
HAND LABOR					
Implements	hour	8.19	0.1015	0.83	_____
DIESEL FUEL					
Tractors	gal	2.33	4.4674	10.41	_____
Harvesters	gal	2.33	1.2617	2.94	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	1.72	1.0000	1.72	_____
INTEREST ON OP. CAP.	acre	7.15	1.0000	7.15	_____
TOTAL DIRECT EXPENSES				188.95	_____
FIXED EXPENSES					
Implements	acre	10.07	1.0000	10.07	_____
Tractors	acre	13.15	1.0000	13.15	_____
Harvesters	acre	8.13	1.0000	8.13	_____
TOTAL FIXED EXPENSES				31.35	_____
TOTAL SPECIFIED EXPENSES				220.30	_____

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**Table 2. Estimated resource use and costs for field operations, per acre Grain Sorghum, Non-Irrigated, Mixed Soils
Arkansas, 2008, University of Arkansas**

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 Harrow	28'	MFWD 225	0.070	1.00	Nov	2.20	2.36	0.59	1.53	0.07	0.66					7.34
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Mar	2.03	2.18	0.66	1.44	0.07	0.72					7.03
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	4.92	4.92		4.92
0-50-60	acre											1.0000	39.28	39.28		39.28
Cstm Ap Grd Fert	acre											1.0000	4.92	4.92		4.92
Urea, Solid (46% N)	lb											80.0000	0.20	16.00		16.00
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.47	1.57	0.33	1.72	0.04	0.44					5.53
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Mar	2.49	2.67	0.28	0.92	0.09	0.89					7.25
Row Cond (Harrow)Rdg	26'	MFWD 190	0.057	1.00	Mar	1.52	1.63	0.14	0.71	0.05	0.54					4.54
Plant & Pre-Rigid	8R-30	MFWD 170	0.101	1.00	Apr	2.43	2.74	1.18	2.80	0.20	1.79					10.94
Sorghum Concep Trt	lb											4.5000	1.34	6.03		6.03
Atrazine 4L	pt											2.0000	1.38	2.76		2.76
Dual II Magnum	pt											1.5000	12.77	19.16		19.16
Insecticide Seed Trt	lbseed											4.5000	0.94	4.23		4.23
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02		5.02
Atrazine 4L	pt											2.0000	1.38	2.76		2.76
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92		4.92
Urea, Solid (46% N)	lb											159.0000	0.20	31.80		31.80
Harvest				1.00	Sep											
Header Wheat/Sorghum	25' Rigid 240hp		0.102			4.66	8.13	0.51	0.95	0.10	0.97					15.22
Cstm Haul Sorghum	bu											90.0000	0.15	13.50		13.50
TOTALS						16.80	21.28	3.69	10.07	0.64	6.01			155.30		213.15
INTEREST ON OPERATING CAPITAL																7.15
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																220.30

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.

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