

Estimating 2007 Costs of Production
Corn, Conventional, Center Pivot Irrigated, Loamy Soils
 AG-986-12-06
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					
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	217.0000	28.21	_____
Liquid Nitrogen 32%	lb	0.10	375.0000	37.50	_____
HERBICIDES					
Steadfast ATZ	oz	1.31	14.0000	18.34	_____
Atrazine 4L	pt	1.25	2.0000	2.50	_____
CROP SEED					
Corn Seed-Convention	thous	1.51	33.0000	49.83	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Cstm Haul Corn	bu	0.15	175.0000	26.25	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.6327	5.69	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	7.80	0.0974	0.75	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	6.0670	13.47	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Center pivot Irr.	gal	2.22	24.0000	53.28	_____
REPAIR & MAINTENANCE					
Implements	acre	5.35	1.0000	5.35	_____
Tractors	acre	2.40	1.0000	2.40	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Center pivot Irr.	ac-in	1.09	12.0000	13.14	_____
INTEREST ON OP. CAP.	acre	11.22	1.0000	11.22	_____
TOTAL DIRECT EXPENSES				364.39	_____
FIXED EXPENSES					
Implements	acre	12.79	1.0000	12.79	_____
Tractors	acre	18.50	1.0000	18.50	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Center pivot Irr.	each	9000.94	0.0076	69.24	_____
TOTAL FIXED EXPENSES				111.04	_____
TOTAL SPECIFIED EXPENSES				475.43	_____

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Table 2. Estimated resource use and costs for field operations, per acre Corn, Conventional, Center Pivot 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 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	2.08	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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21	28.21
Field Cultivate		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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed-Convention	thous											33.0000	1.51	49.83	49.83
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Steadfast ATZ	oz											14.0000	1.31	18.34	18.34
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50	37.50
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25	26.25
Dry Corn	bu											175.0000	0.19	33.25	33.25
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
Center pivot Irr.	each			1.00	Jun				69.24			0.0076			69.24
Irrigation June	ac-in							22.14		0.03	0.25	4.0000			22.39
Irrigation July	ac-in							22.14		0.03	0.25	4.0000			22.39
Irrigation August	ac-in							22.14		0.03	0.25	4.0000			22.39
TOTALS						21.56	29.01	71.77	82.03	1.00	8.71			251.13	464.21
INTEREST ON OPERATING CAPITAL															11.22
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															475.43

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	217.0000	28.21	_____
Liquid Nitrogen 32%	lb	0.10	375.0000	37.50	_____
HERBICIDES					
Steadfast ATZ	oz	1.31	14.0000	18.34	_____
Atrazine 4L	pt	1.25	2.0000	2.50	_____
CROP SEED					
Corn Seed-Convention	thous	1.51	33.0000	49.83	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Survey Levees-CnSbGs	acre	3.00	1.0000	3.00	_____
Cstm Haul Corn	bu	0.15	175.0000	26.25	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.8202	7.40	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Flood Irr. - Crn-Sor	hour	7.80	0.1086	0.84	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	7.4085	16.44	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Flood Irr. - Crn-Sor	gal	2.22	12.0000	26.64	_____
REPAIR & MAINTENANCE					
Implements	acre	5.53	1.0000	5.53	_____
Tractors	acre	2.91	1.0000	2.91	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Flood Irr. - Crn-Sor	ac-in	0.50	12.0000	6.00	_____
INTEREST ON OP. CAP.	acre	10.53	1.0000	10.53	_____
TOTAL DIRECT EXPENSES				338.38	_____
FIXED EXPENSES					
Implements	acre	13.75	1.0000	13.75	_____
Tractors	acre	22.40	1.0000	22.40	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Flood Irr. - Crn-Sor	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				71.98	_____
TOTAL SPECIFIED EXPENSES				410.36	_____

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**Table 2. Estimated resource use and costs for field operations, per acre Corn, Conventional, Flood 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
0-75-75	acre											1.0000	36.00	36.00		36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21		28.21
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52					4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59					9.07
Corn Seed-Convention	thous											33.0000	1.51	49.83		49.83
Insectide treated	CG thous											33.0000	0.25	8.25		8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Steadfast ATZ	oz											14.0000	1.31	18.34		18.34
Atrazine 4L	pt											2.0000	1.25	2.50		2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26					8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50		37.50
Survey Levees-CnSbGs	acre			1.00	Jun							1.0000	3.00	3.00		3.00
Build Inside Levees				2.00	Jun											
Levee Disk (SL)	8 blade	MFWD 190	0.012			0.63	0.73	0.03	0.17	0.02	0.23					1.79
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Jun	0.35	0.38	0.03	0.03	0.02	0.23					1.02
Tear Down Levees				1.00	Jun											
Levee Splitter (SL)	2 blade	MFWD 105	0.012			0.18	0.19		0.12	0.01	0.11					0.60
Build Inside Levees				2.00	Jul											
Levee Disk (SL)	8 blade	MFWD 190	0.012			0.63	0.73	0.03	0.17	0.02	0.23					1.79
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Jul	0.35	0.38	0.03	0.03	0.02	0.23					1.02
Tear Down Levees				1.00	Jul											
Levee Splitter (SL)	2 blade	MFWD 105	0.012			0.18	0.19		0.12	0.01	0.11					0.60
Build Inside Levees				2.00	Aug											
Levee Disk (SL)	8 blade	MFWD 190	0.012			0.63	0.73	0.03	0.17	0.02	0.23					1.79
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Aug	0.35	0.38	0.03	0.03	0.02	0.23					1.02
Tear Down Levees				1.00	Aug											
Levee Splitter (SL)	2 blade	MFWD 105	0.012			0.18	0.19		0.12	0.01	0.11					0.60
Harvest				1.00	Sep											
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15					20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25		26.25
Dry Corn	bu											175.0000	0.19	33.25		33.25
Harvest				0.75	Sep											
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86					7.22
Flood Irr. - Crn-Sor	each			1.00	Jun							0.0083				25.32
Application 1	ac-in							10.88		0.03	0.28	4.0000				11.16
Application 2	ac-in							10.88		0.03	0.28	4.0000				11.16
Application 3	ac-in							10.88		0.03	0.28	4.0000				11.16
TOTALS						25.04	32.91	38.17	39.07	1.19	10.51			254.13		399.83
INTEREST ON OPERATING CAPITAL																10.53
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																410.36

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	217.0000	28.21	_____
Liquid Nitrogen 32%	lb	0.10	375.0000	37.50	_____
HERBICIDES					
Steadfast ATZ	oz	1.31	14.0000	18.34	_____
Atrazine 4L	pt	1.25	2.0000	2.50	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Corn Seed-Convention	thous	1.51	33.0000	49.83	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Cstm Haul Corn	bu	0.15	175.0000	26.25	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.7358	6.62	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Furrow Irr.	hour	7.80	0.3017	2.36	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	7.0756	15.71	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Furrow Irr.	gal	2.22	12.0000	26.64	_____
REPAIR & MAINTENANCE					
Implements	acre	5.77	1.0000	5.77	_____
Tractors	acre	2.79	1.0000	2.79	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Furrow Irr.	ac-in	0.29	12.0000	3.52	_____
INTEREST ON OP. CAP.	acre	10.68	1.0000	10.68	_____
TOTAL DIRECT EXPENSES				343.48	_____
FIXED EXPENSES					
Implements	acre	14.18	1.0000	14.18	_____
Tractors	acre	21.51	1.0000	21.51	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				71.52	_____
TOTAL SPECIFIED EXPENSES				415.00	_____

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						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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21	28.21
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed-Convention	thous											33.0000	1.51	49.83	49.83
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Steadfast ATZ	oz											14.0000	1.31	18.34	18.34
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50	37.50
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	Jun							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25	26.25
Dry Corn	bu											175.0000	0.19	33.25	33.25
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
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
Application 3	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 4	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						24.19	32.02	35.93	39.50	1.30	11.25			261.43	404.32
INTEREST ON OPERATING CAPITAL															10.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															415.00

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		dollars		dollars	
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GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	217.0000	28.21	_____
Liquid Nitrogen 32%	lb	0.10	375.0000	37.50	_____
HERBICIDES					
Steadfast ATZ	oz	1.31	14.0000	18.34	_____
Atrazine 4L	pt	1.25	2.0000	2.50	_____
IRRIGATION SUPPLIES					
IrrPipe+lray+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Corn Seed Bt	thous	1.76	33.0000	58.08	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Cstm Haul Corn	bu	0.15	175.0000	26.25	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.7358	6.62	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Furrow Irr.	hour	7.80	0.3017	2.36	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	7.0756	15.71	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Furrow Irr.	gal	2.22	12.0000	26.64	_____
REPAIR & MAINTENANCE					
Implements	acre	5.77	1.0000	5.77	_____
Tractors	acre	2.79	1.0000	2.79	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Furrow Irr.	ac-in	0.29	12.0000	3.52	_____
INTEREST ON OP. CAP.	acre	11.02	1.0000	11.02	_____

TOTAL DIRECT EXPENSES				352.07	_____
FIXED EXPENSES					
Implements	acre	14.18	1.0000	14.18	_____
Tractors	acre	21.51	1.0000	21.51	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				71.52	_____
TOTAL SPECIFIED EXPENSES				423.59	_____

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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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21	28.21
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed Bt	thous											33.0000	1.76	58.08	58.08
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Steadfast ATZ	oz											14.0000	1.31	18.34	18.34
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50	37.50
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	Jun							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25	26.25
Dry Corn	bu											175.0000	0.19	33.25	33.25
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
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
Application 3	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 4	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						24.19	32.02	35.93	39.50	1.30	11.25			269.68	412.57
INTEREST ON OPERATING CAPITAL															11.02
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															423.59

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Estimating 2007 Costs of Production
Corn, RR, Furrow Irrigated, Loamy Soils
 AG-990-12-06
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					
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	217.0000	28.21	_____
Liquid Nitrogen 32%	lb	0.10	375.0000	37.50	_____
HERBICIDES					
Roundup Ultra Max	pt	5.97	2.0000	11.94	_____
Atrazine 4L	pt	1.25	4.0000	5.00	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Corn Seed RR	thous	2.04	33.0000	67.32	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Haul Corn	bu	0.15	175.0000	26.25	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.6327	5.69	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Furrow Irr.	hour	7.80	0.3017	2.36	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	6.0670	13.47	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Furrow Irr.	gal	2.22	12.0000	26.64	_____
REPAIR & MAINTENANCE					
Implements	acre	5.35	1.0000	5.35	_____
Tractors	acre	2.40	1.0000	2.40	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Furrow Irr.	ac-in	0.29	12.0000	3.52	_____
INTEREST ON OP. CAP.	acre	11.23	1.0000	11.23	_____

TOTAL DIRECT EXPENSES				359.64	_____
FIXED EXPENSES					
Implements	acre	12.79	1.0000	12.79	_____
Tractors	acre	18.50	1.0000	18.50	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				67.12	_____
TOTAL SPECIFIED EXPENSES				426.76	_____

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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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21	28.21
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed RR	thous											33.0000	2.04	67.32	67.32
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50	37.50
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25	26.25
Dry Corn	bu											175.0000	0.19	33.25	33.25
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
Furrow Irr.	each			1.00	Jun							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
Application 3	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 4	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						21.56	29.01	35.51	38.11	1.20	10.32			281.02	415.53
INTEREST ON OPERATING CAPITAL															11.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															426.76

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Corn, RR, Furrow Irrigated, Clay Soils
 AG-991-12-06
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					
GIN/DRY					
Dry Corn	bu	0.19	150.0000	28.50	_____
FERTILIZERS					
0-75-75	acre	36.00	1.0000	36.00	_____
Urea, Solid (46% N)	lb	0.13	202.0000	26.26	_____
Liquid Nitrogen 32%	lb	0.10	584.0000	58.40	_____
HERBICIDES					
Roundup Ultra Max	pt	5.97	2.0000	11.94	_____
Atrazine 4L	pt	1.25	4.0000	5.00	_____
IRRIGATION SUPPLIES					
IrrPipe+lray+pickup	acre	10.30	1.0000	10.30	_____
CROP SEED					
Corn Seed RR	thous	2.04	33.0000	67.32	_____
Insectide treated CG	thous	0.25	33.0000	8.25	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Haul Corn	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.6327	5.69	_____
Harvesters	hour	9.00	0.1277	1.15	_____
IRRIGATION LABOR					
Furrow Irr.	hour	7.80	0.3017	2.36	_____
HAND LABOR					
Implements	hour	7.80	0.1433	1.12	_____
DIESEL FUEL					
Tractors	gal	2.22	6.0670	13.47	_____
Harvesters	gal	2.22	1.5772	3.50	_____
Furrow Irr.	gal	2.22	12.0000	26.64	_____
REPAIR & MAINTENANCE					
Implements	acre	5.35	1.0000	5.35	_____
Tractors	acre	2.40	1.0000	2.40	_____
Harvesters	acre	2.19	1.0000	2.19	_____
Furrow Irr.	ac-in	0.29	12.0000	3.52	_____
INTEREST ON OP. CAP.	acre	11.79	1.0000	11.79	_____

TOTAL DIRECT EXPENSES				370.65	_____
FIXED EXPENSES					
Implements	acre	12.79	1.0000	12.79	_____
Tractors	acre	18.50	1.0000	18.50	_____
Harvesters	acre	10.51	1.0000	10.51	_____
Furrow Irr.	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				67.12	_____
TOTAL SPECIFIED EXPENSES				437.77	_____

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			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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											217.0000	0.13	28.21	28.21
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed RR	thous											33.0000	2.04	67.32	67.32
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											375.0000	0.10	37.50	37.50
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											175.0000	0.15	26.25	26.25
Dry Corn	bu											175.0000	0.19	33.25	33.25
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
Furrow Irr.	each			1.00	Jun							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
Application 3	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 4	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						21.56	29.01	35.51	38.11	1.20	10.32			281.02	415.53
INTEREST ON OPERATING CAPITAL															11.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															426.76

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			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
0-75-75	acre											1.0000	36.00	36.00	36.00
Urea, Solid (46% N)	lb											202.0000	0.13	26.26	26.26
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	Apr	1.47	1.67	0.14	0.72	0.05	0.52				4.52
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.17	2.61	0.79	1.91	0.18	1.59				9.07
Corn Seed RR	thous											33.0000	2.04	67.32	67.32
Insectide treated	CG thous											33.0000	0.25	8.25	8.25
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
Fert Appl (Liquid)	8R-30	MFWD 190	0.098	1.00	May	2.50	2.86	0.88	1.23	0.14	1.26				8.73
Liquid Nitrogen 32%	lb											584.0000	0.10	58.40	58.40
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Roundup Ultra Max	pt											1.0000	5.97	5.97	5.97
Atrazine 4L	pt											2.0000	1.25	2.50	2.50
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Harvest				1.00	Sep										
Header - Corn	8R-30	240hp	0.127			5.69	10.51	1.25	2.34	0.12	1.15				20.94
Cstm Haul Corn	bu											150.0000	0.15	22.50	22.50
Dry Corn	bu											150.0000	0.19	28.50	28.50
Harvest				0.75	Sep										
Corn Grain Cart	8R30 700 bu	MFWD 190	0.127			1.92	2.79	0.51	1.14	0.09	0.86				7.22
Furrow Irr.	each			1.00	Jun							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
Application 3	ac-in							7.54		0.07	0.59	3.0000			8.13
Application 4	ac-in							7.54		0.07	0.59	3.0000			8.13
TOTALS						21.56	29.01	35.51	38.11	1.20	10.32			291.47	425.98
INTEREST ON OPERATING CAPITAL															11.79
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															437.77

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.