



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

**Estimating 2009 Costs of Production
Corn, Conventional, Center Pivot Irrigated, Loamy Soils**

AG-1194-11-08

**Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate**

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
CROP SEED					
Corn Seed Conv.	thous	2.33	33.0000	76.89	_____
ADJUVANTS					
Crop Oil	pt	1.80	2.0000	3.60	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.3194	3.18	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0974	0.84	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.2377	8.41	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Center pivot Irr.	gal	2.60	24.0000	62.40	_____
REPAIR & MAINTENANCE					
Implements	acre	4.16	1.0000	4.16	_____
Tractors	acre	1.27	1.0000	1.27	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Center pivot Irr.	ac-in	1.49	12.0000	17.93	_____
INTEREST ON OP. CAP.	acre	14.15	1.0000	14.15	_____
TOTAL DIRECT EXPENSES				640.19	_____
FIXED EXPENSES					
Implements	acre	9.60	1.0000	9.60	_____
Tractors	acre	9.36	1.0000	9.36	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Center pivot Irr.	each	9060.48	0.0076	69.70	_____
TOTAL FIXED EXPENSES				100.43	_____
TOTAL SPECIFIED EXPENSES				740.62	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, Conventional, Center Pivot Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00		6.00
70-75-75	acre											1.0000	197.79	197.79		197.79
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Corn Seed Conv.	thous											33.0000	2.33	76.89		76.89
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Crop Oil	pt											1.0000	1.80	1.80		1.80
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50		97.50
Agrotain	lburea											325.0000	0.02	7.80		7.80
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Crop Oil	pt											1.0000	1.80	1.80		1.80
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30	500 bu	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Center pivot Irr.	each			1.00	Jun-Aug							0.0076				69.70
Apply Water	ac-in							80.33		0.09	0.84	12.0000				81.17
TOTALS						16.97	21.13	84.49	79.30	0.63	6.10			518.48		726.47
INTEREST ON OPERATING CAPITAL																14.15
TOTAL SPECIFIED COST																740.62

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.

Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Conventional, Center Pivot Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
138	-150	-125	-100	-75	-50	-25	0
144	-131	-105	-79	-52	-26	0	26
151	-110	-82	-55	-27	0	27	55
159	-87	-58	-29	0	29	58	87
167	-61	-30	0	30	61	91	122
176	-32	0	32	64	96	128	161
187	0	34	68	102	136	170	204

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
187	-153	-127	-102	-76	-51	-25	0
196	-133	-107	-80	-53	-27	0	27
205	-112	-84	-56	-28	0	28	56
216	-88	-59	-29	0	29	59	88
228	-62	-31	0	31	62	93	124
241	-33	0	33	66	99	131	164
256	0	35	70	105	140	174	209

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
136	-74	-62	-49	-37	-25	-12	0
142	-65	-52	-39	-26	-13	0	13
150	-54	-41	-27	-14	0	14	27
158	-43	-29	-14	0	14	29	43
167	-30	-15	0	15	30	46	61
177	-16	0	16	32	48	64	80
188	0	17	34	51	69	86	103

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
174	-152	-127	-102	-76	-51	-25	0
182	-133	-106	-80	-53	-27	0	27
191	-111	-84	-56	-28	0	28	56
201	-88	-59	-29	0	29	59	88
212	-62	-31	0	31	62	93	124
224	-33	0	33	65	98	131	163
238	0	35	69	104	139	173	208

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
CROP SEED					
Corn Seed RR	thous	2.70	33.0000	89.10	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.3114	3.10	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0974	0.84	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.1597	8.21	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Center pivot Irr.	gal	2.60	24.0000	62.40	_____
REPAIR & MAINTENANCE					
Implements	acre	4.12	1.0000	4.12	_____
Tractors	acre	1.24	1.0000	1.24	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Center pivot Irr.	ac-in	1.49	12.0000	17.93	_____
INTEREST ON OP. CAP.	acre	14.80	1.0000	14.80	_____
TOTAL DIRECT EXPENSES				668.38	_____
FIXED EXPENSES					
Implements	acre	9.52	1.0000	9.52	_____
Tractors	acre	9.15	1.0000	9.15	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Center pivot Irr.	each	9060.48	0.0076	69.70	_____
TOTAL FIXED EXPENSES				100.14	_____
TOTAL SPECIFIED EXPENSES				768.52	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, RR, Center Pivot Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert 70-75-75	acre			1.00	Mar							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46	1.0000	197.79	197.79		197.79
Plant - Rigid Corn Seed RR	8R-30 thous	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Cstm Ap Grd. Herb	acre			1.00	Apr							33.0000	2.70	89.10		89.10
Bicep II Magnum	qt											1.0000	6.00	6.00		6.00
Cstm Ap Grd. Herb	acre			1.00	Apr							1.5000	9.46	14.19		14.19
Glyphosate Plus	pt											1.0000	6.00	6.00		6.00
Atrazine 4L	pt											2.0000	4.82	9.64		9.64
Cstm Ap Grd Fert	acre			1.00	Apr							2.0000	1.69	3.38		3.38
Urea, Solid (46% N)	lb.											1.0000	6.00	6.00		6.00
Agrotain	lburea											2.0000	4.82	9.64		9.64
Cstm Ap Grd. Herb	acre			1.00	May							3.0000	4.61	13.83		13.83
Callisto 4SC	oz											2.0000	4.82	9.64		9.64
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30	500 bu	0.031	0.75	Sep	0.70	0.65	0.11	0.23	0.02	0.24					1.93
Center pivot Irr.	each	MFWD 190		1.00	Jun-Aug											69.70
Apply Water	ac-in							80.33		0.09	0.84	0.0076				69.70
												12.0000				81.17
TOTALS						16.74	20.92	84.45	79.22	0.63	6.02				546.37	753.72
INTEREST ON OPERATING CAPITAL																14.80
TOTAL SPECIFIED COST																768.52

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, RR, Center Pivot Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
144	-158	-131	-105	-79	-53	-26	0
151	-138	-110	-83	-55	-28	0	28
158	-115	-87	-58	-29	0	29	58
166	-91	-61	-30	0	30	61	91
175	-64	-32	0	32	64	96	128
185	-34	0	34	67	101	135	169
196	0	36	71	107	143	179	214

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
196	-161	-134	-107	-80	-54	-27	0
205	-140	-112	-84	-56	-28	0	28
215	-118	-88	-59	-29	0	29	59
227	-93	-62	-31	0	31	62	93
239	-65	-33	0	33	65	98	130
253	-35	0	35	69	104	138	173
268	0	37	73	110	147	183	220

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
143	-78	-65	-52	-39	-26	-13	0
150	-68	-55	-41	-27	-14	0	14
158	-57	-43	-29	-14	0	14	29
166	-45	-30	-15	0	15	30	45
176	-32	-16	0	16	32	48	64
187	-17	0	17	34	51	68	85
199	0	18	36	54	72	90	108

Landowner Receives 50% of the Crop

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Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
183	-160	-133	-107	-80	-53	-27	0
192	-139	-112	-84	-56	-28	0	28
201	-117	-88	-59	-29	0	29	59
211	-92	-62	-31	0	31	62	92
223	-65	-32	0	32	65	97	130
236	-34	0	34	69	103	137	172
250	0	36	73	109	146	182	218

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Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
CROP SEED					
Corn Seed Bt/RR	thous	2.97	33.0000	98.01	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
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Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.3194	3.18	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0974	0.84	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.2377	8.41	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Center pivot Irr.	gal	2.60	24.0000	62.40	_____
REPAIR & MAINTENANCE					
Implements	acre	4.16	1.0000	4.16	_____
Tractors	acre	1.27	1.0000	1.27	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Center pivot Irr.	ac-in	1.49	12.0000	17.93	_____
INTEREST ON OP. CAP.	acre	15.03	1.0000	15.03	_____
TOTAL DIRECT EXPENSES				677.87	_____
FIXED EXPENSES					
Implements	acre	9.60	1.0000	9.60	_____
Tractors	acre	9.36	1.0000	9.36	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Center pivot Irr.	each	9060.48	0.0076	69.70	_____
TOTAL FIXED EXPENSES				100.43	_____
TOTAL SPECIFIED EXPENSES				778.30	_____

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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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert 70-75-75	acre acre			1.00	Mar							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56
Plant - Rigid Corn Seed Bt/RR	8R-30 thous	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Cstm Ap Grd. Herb	acre			1.00	Apr							33.0000	2.97	98.01		98.01
Bicep II Magnum	qt											1.0000	6.00	6.00		6.00
Cstm Ap Grd. Herb	acre			1.00	Apr							1.5000	9.46	14.19		14.19
Glyphosate Plus	pt											1.0000	6.00	6.00		6.00
Atrazine 4L	pt											2.0000	4.82	9.64		9.64
Cstm Ap Grd Fert	acre			1.00	Apr							2.0000	1.69	3.38		3.38
Urea, Solid (46% N)	lb.											1.0000	6.00	6.00		6.00
Agrotain	lburea											2.0000	4.82	9.64		9.64
Cstm Ap Grd. Herb	acre			1.00	May							3.0000	4.61	13.83		13.83
Glyphosate Plus	pt											1.0000	6.00	6.00		6.00
Callisto 4SC	oz											2.0000	4.82	9.64		9.64
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30	500 bu	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Center pivot Irr.	each	MFWD 190		1.00	Jun-Aug											69.70
Apply Water	ac-in															81.17
						-----		-----		-----		-----				
TOTALS						16.97	21.13	84.49	79.30	0.63	6.10				555.28	763.27
INTEREST ON OPERATING CAPITAL																15.03
TOTAL SPECIFIED COST																778.30

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.

Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Bt/RR, Center Pivot Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
147	-160	-134	-107	-80	-53	-27	0
154	-140	-112	-84	-56	-28	0	28
161	-117	-88	-59	-29	0	29	59
169	-92	-62	-31	0	31	62	92
178	-65	-32	0	32	65	97	130
188	-34	0	34	69	103	137	171
200	0	36	73	109	145	182	218

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
199	-163	-136	-109	-82	-54	-27	0
209	-142	-114	-85	-57	-28	0	28
219	-119	-90	-60	-30	0	30	60
230	-94	-63	-31	0	31	63	94
243	-66	-33	0	33	66	99	133
257	-35	0	35	70	105	140	175
273	0	37	74	112	149	186	223

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
146	-80	-66	-53	-40	-27	-13	0
153	-70	-56	-42	-28	-14	0	14
161	-58	-44	-29	-15	0	15	29
169	-46	-31	-15	0	15	31	46
179	-33	-16	0	16	33	49	65
190	-17	0	17	35	52	69	86
202	0	18	37	55	74	92	110

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
186	-162	-135	-108	-81	-54	-27	0
195	-142	-113	-85	-57	-28	0	28
204	-119	-89	-59	-30	0	30	59
215	-94	-63	-31	0	31	63	94
226	-66	-33	0	33	66	99	132
239	-35	0	35	70	105	139	174
254	0	37	74	111	148	185	222

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2009 Costs of Production Corn, Conventional Furrow Irrigated, Loamy Soils

AG-1197-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Corn Seed Conv.	thous	2.33	33.0000	76.89	_____
ADJUVANTS					
Crop Oil	pt	1.80	2.0000	3.60	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4729	4.70	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.59	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7387	12.31	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.62	1.0000	4.62	_____
Tractors	acre	1.84	1.0000	1.84	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Furrow Irr.	ac-in	0.18	12.0000	2.25	_____
INTEREST ON OP. CAP.	acre	13.79	1.0000	13.79	_____
				614.65	_____
TOTAL DIRECT EXPENSES					
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	13.52	1.0000	13.52	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Furrow Irr.	each	3058.64	0.0083	25.49	_____
				62.09	_____
TOTAL FIXED EXPENSES					
				676.74	_____
TOTAL SPECIFIED EXPENSES					

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, Conventional, Furrow Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00		6.00
70-75-75	acre											1.0000	197.79	197.79		197.79
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Apr	2.73	2.54	0.31	0.95	0.09	0.93					7.46
Row Cond Rdg	26'	MFWD 190	0.059	1.00	Apr	1.74	1.62	0.15	0.76	0.05	0.59					4.86
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Corn Seed Conv.	thous											33.0000	2.33	76.89		76.89
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Crop Oil	pt											1.0000	1.80	1.80		1.80
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50		97.50
Agrotain	lburea											325.0000	0.02	7.80		7.80
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Crop Oil	pt											1.0000	1.80	1.80		1.80
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30 500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Furrow Irr.	each			1.00	Jun-Aug				25.49					0.0083		25.49
Apply Water	ac-in								33.45					0.30	2.59	36.04
TOTALS						21.44	25.29	38.07	36.80	0.99	9.37				531.98	662.95
INTEREST ON OPERATING CAPITAL																13.79
TOTAL SPECIFIED COST																676.74

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Conventional, Furrow Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
131	-143	-120	-96	-72	-48	-24	0
137	-125	-100	-75	-50	-25	0	25
144	-105	-79	-52	-26	0	26	52
151	-83	-55	-28	0	28	55	83
159	-58	-29	0	29	58	87	116
169	-31	0	31	61	92	123	153
179	0	33	65	98	130	163	195

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
178	-146	-122	-97	-73	-49	-24	0
187	-127	-102	-76	-51	-25	0	25
196	-107	-80	-53	-27	0	27	53
206	-84	-56	-28	0	28	56	84
217	-59	-30	0	30	59	89	119
230	-31	0	31	63	94	126	157
244	0	33	67	100	133	167	200

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
147	-80	-67	-53	-40	-27	-13	0
154	-70	-56	-42	-28	-14	0	14
162	-59	-44	-29	-15	0	15	29
170	-47	-31	-16	0	16	31	47
180	-33	-16	0	16	33	49	66
191	-17	0	17	35	52	70	87
203	0	19	37	56	74	93	111

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
166	-145	-121	-97	-73	-48	-24	0
174	-127	-101	-76	-51	-25	0	25
183	-106	-80	-53	-27	0	27	53
192	-84	-56	-28	0	28	56	84
203	-59	-30	0	30	59	89	118
214	-31	0	31	62	94	125	156
227	0	33	66	99	132	166	199

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Corn, RR, Furrow Irrigated, Loamy Soils

AG-1198-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Corn Seed RR	thous	2.70	33.0000	89.10	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.5672	5.63	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.59	_____
HAND LABOR					
Implements	hour	8.60	0.1885	1.62	_____
DIESEL FUEL					
Tractors	gal	2.60	5.1755	13.44	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.82	1.0000	4.82	_____
Tractors	acre	1.95	1.0000	1.95	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Furrow Irr.	ac-in	0.18	12.0000	2.25	_____
INTEREST ON OP. CAP.	acre	14.53	1.0000	14.53	_____
TOTAL DIRECT EXPENSES				646.46	_____
FIXED EXPENSES					
Implements	acre	11.77	1.0000	11.77	_____
Tractors	acre	14.16	1.0000	14.16	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Furrow Irr.	each	3058.64	0.0083	25.49	_____
TOTAL FIXED EXPENSES				63.19	_____
TOTAL SPECIFIED EXPENSES				709.65	=====

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, RR, Furrow Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00		6.00
70-75-75	acre											1.0000	197.79	197.79		197.79
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Apr	2.73	2.54	0.31	0.95	0.09	0.93					7.46
Row Cond Rdg	26'	MFWD 190	0.059	1.00	Apr	1.74	1.62	0.15	0.76	0.05	0.59					4.86
Plant - Rigid	4R-30	2WD 130	0.188	1.00	Apr	3.73	3.16	1.15	2.61	0.37	3.49					14.14
Corn Seed RR	thous											33.0000	2.70	89.10		89.10
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50		97.50
Agrotain	lburea											325.0000	0.02	7.80		7.80
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30 500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Furrow Irr.	each			1.00	Jun-Aug				25.49						0.0083	25.49
Apply Water	ac-in								33.45						0.30	2.59
															12.0000	36.04
TOTALS						22.68	25.93	38.27	37.26	1.18	11.11				559.87	695.12
INTEREST ON OPERATING CAPITAL																14.53
TOTAL SPECIFIED COST																709.65

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, RR, Furrow Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
139	-152	-127	-101	-76	-51	-25	0
146	-132	-106	-79	-53	-26	0	26
153	-111	-83	-56	-28	0	28	56
160	-88	-58	-29	0	29	58	88
169	-61	-31	0	31	61	92	123
178	-32	0	32	65	97	130	162
189	0	34	69	103	138	172	207

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
189	-155	-129	-103	-77	-52	-26	0
198	-135	-108	-81	-54	-27	0	27
208	-113	-85	-57	-28	0	28	57
218	-89	-60	-30	0	30	60	89
230	-63	-31	0	31	63	94	126
244	-33	0	33	66	100	133	166
258	0	35	71	106	141	176	212

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
156	-85	-71	-57	-43	-28	-14	0
164	-74	-60	-45	-30	-15	0	15
172	-63	-47	-31	-16	0	16	31
181	-49	-33	-16	0	16	33	49
192	-35	-17	0	17	35	52	70
203	-18	0	18	37	55	74	92
216	0	20	39	59	79	98	118

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
176	-154	-128	-103	-77	-51	-26	0
185	-134	-107	-81	-54	-27	0	27
194	-113	-85	-56	-28	0	28	56
204	-89	-59	-30	0	30	59	89
215	-63	-31	0	31	63	94	125
227	-33	0	33	66	99	132	165
241	0	35	70	105	140	175	210

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Corn, Bt/RR, Furrow Irrigated, Loamy Soils

AG-1199-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Corn Seed Bt/RR	thous	2.97	33.0000	98.01	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4729	4.70	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.59	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7387	12.31	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.62	1.0000	4.62	_____
Tractors	acre	1.84	1.0000	1.84	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Furrow Irr.	ac-in	0.18	12.0000	2.25	_____
INTEREST ON OP. CAP.	acre	14.67	1.0000	14.67	_____
TOTAL DIRECT EXPENSES				652.33	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	13.52	1.0000	13.52	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Furrow Irr.	each	3058.64	0.0083	25.49	_____
TOTAL FIXED EXPENSES				62.09	_____
TOTAL SPECIFIED EXPENSES				714.42	=====

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, Bt/RR, Furrow Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00		6.00
70-75-75	acre											1.0000	197.79	197.79		197.79
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Apr	2.73	2.54	0.31	0.95	0.09	0.93					7.46
Row Cond Rdg	26'	MFWD 190	0.059	1.00	Apr	1.74	1.62	0.15	0.76	0.05	0.59					4.86
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Corn Seed Bt/RR	thous											33.0000	2.97	98.01		98.01
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50		97.50
Agrotain	lburea											325.0000	0.02	7.80		7.80
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											175.0000	0.22	38.50		38.50
Dry Corn	bu											175.0000	0.19	33.25		33.25
Corn Checkoff	bu											175.0000	0.01	1.75		1.75
Corn Grain Cart	8R30 500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Furrow Irr.	each			1.00	Jun-Aug				25.49						0.0083	25.49
Apply Water	ac-in								33.45						0.30	2.59
															12.0000	36.04
TOTALS						21.44	25.29	38.07	36.80	0.99	9.37				568.78	699.75
INTEREST ON OPERATING CAPITAL																14.67
TOTAL SPECIFIED COST																714.42

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Bt/RR, Furrow Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
141	-154	-128	-102	-77	-51	-26	0
147	-134	-107	-80	-54	-27	0	27
154	-112	-84	-56	-28	0	28	56
162	-88	-59	-29	0	29	59	88
171	-62	-31	0	31	62	93	124
180	-33	0	33	66	98	131	164
191	0	35	70	104	139	174	209

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
191	-156	-130	-104	-78	-52	-26	0
200	-136	-109	-82	-55	-27	0	27
210	-114	-86	-57	-29	0	29	57
221	-90	-60	-30	0	30	60	90
233	-63	-32	0	32	63	95	127
246	-34	0	34	67	101	134	168
261	0	36	71	107	143	178	214

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
157	-86	-71	-57	-43	-29	-14	0
164	-75	-60	-45	-30	-15	0	15
173	-63	-47	-31	-16	0	16	31
182	-50	-33	-17	0	17	33	50
192	-35	-18	0	18	35	53	70
204	-19	0	19	37	56	74	93
217	0	20	40	59	79	99	119

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
178	-156	-130	-104	-78	-52	-26	0
186	-136	-109	-81	-54	-27	0	27
196	-114	-85	-57	-28	0	28	57
206	-90	-60	-30	0	30	60	90
217	-63	-32	0	32	63	95	126
229	-33	0	33	67	100	134	167
243	0	35	71	106	142	177	213

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Corn, RR, Furrow Irrigated, Clay Soils

AG-1200-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
90-75-75	acre	210.83	1.0000	210.83	_____
Urea, Solid (46% N)	lb.	0.30	413.0000	123.90	_____
Agrotain	lburea	0.02	413.0000	9.91	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Corn Seed RR	thous	2.70	33.0000	89.10	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fert	lb	0.07	100.0000	7.50	_____
Haul Corn	bu	0.22	150.0000	33.00	_____
GIN/DRY					
Dry Corn	bu	0.19	150.0000	28.50	_____
Corn Checkoff	bu	0.01	150.0000	1.50	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4729	4.70	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.59	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7387	12.31	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.62	1.0000	4.62	_____
Tractors	acre	1.84	1.0000	1.84	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Furrow Irr.	ac-in	0.18	12.0000	2.25	_____
INTEREST ON OP. CAP.	acre	15.53	1.0000	15.53	_____
TOTAL DIRECT EXPENSES				682.83	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	13.52	1.0000	13.52	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Furrow Irr.	each	3058.64	0.0083	25.49	_____
TOTAL FIXED EXPENSES				62.09	_____
TOTAL SPECIFIED EXPENSES				744.92	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, RR, Furrow Irrigated, Clay Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert 90-75-75	acre			1.00	Mar							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46	1.0000	210.83	210.83		210.83
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Apr	2.73	2.54	0.31	0.95	0.09	0.93					7.46
Row Cond Rdg	26'	MFWD 190	0.059	1.00	Apr	1.74	1.62	0.15	0.76	0.05	0.59					4.86
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Corn Seed RR	thous											33.0000	2.70	89.10		89.10
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											313.0000	0.30	93.90		93.90
Agrotain	lburea											313.0000	0.02	7.51		7.51
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Cstm Ap Air Fert	lb			1.00	May							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Agrotain	lburea											100.0000	0.02	2.40		2.40
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
Corn Grain Cart 8R30	500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											150.0000	0.22	33.00		33.00
Dry Corn	bu											150.0000	0.19	28.50		28.50
Corn Checkoff	bu											150.0000	0.01	1.50		1.50
Furrow Irr.	each			1.00	Jun-Aug				25.49					0.0083		25.49
Apply Water	ac-in								33.45					0.30	2.59	36.04
TOTALS						21.44	25.29	38.07	36.80	0.99	9.37				598.42	729.39
INTEREST ON OPERATING CAPITAL																15.53
TOTAL SPECIFIED COST																744.92

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, RR, Furrow Irrigated, Clay Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
150	-164	-137	-110	-82	-55	-27	0
157	-143	-115	-86	-57	-29	0	29
165	-120	-90	-60	-30	0	30	60
173	-95	-63	-32	0	32	63	95
183	-66	-33	0	33	66	100	133
193	-35	0	35	70	105	140	176
205	0	37	74	112	149	186	223

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
204	-167	-139	-112	-84	-56	-28	0
214	-146	-117	-88	-58	-29	0	29
224	-122	-92	-61	-31	0	31	61
236	-97	-64	-32	0	32	64	97
249	-68	-34	0	34	68	102	136
263	-36	0	36	72	108	144	180
279	0	38	76	114	153	191	229

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
167	-91	-76	-61	-46	-30	-15	0
175	-80	-64	-48	-32	-16	0	16
184	-67	-50	-34	-17	0	17	34
194	-53	-35	-18	0	18	35	53
205	-37	-19	0	19	37	56	75
218	-20	0	20	40	59	79	99
232	0	21	42	63	84	106	127

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
191	-167	-139	-111	-83	-56	-28	0
200	-145	-116	-87	-58	-29	0	29
209	-122	-91	-61	-30	0	30	61
220	-96	-64	-32	0	32	64	96
232	-68	-34	0	34	68	101	135
245	-36	0	36	71	107	143	179
260	0	38	76	114	152	190	227

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2009 Costs of Production Corn, Bt/RR, Furrow Irrigated, Clay Soils

AG-1201-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
90-75-75	acre	210.83	1.0000	210.83	_____
Urea, Solid (46% N)	lb.	0.30	413.0000	123.90	_____
Agrotain	lburea	0.02	413.0000	9.91	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Corn Seed Bt/RR	thous	2.97	33.0000	98.01	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fert	lb	0.07	100.0000	7.50	_____
Haul Corn	bu	0.22	150.0000	33.00	_____
GIN/DRY					
Dry Corn	bu	0.19	150.0000	28.50	_____
Corn Checkoff	bu	0.01	150.0000	1.50	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4729	4.70	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.59	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	4.7387	12.31	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.62	1.0000	4.62	_____
Tractors	acre	1.84	1.0000	1.84	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Furrow Irr.	ac-in	0.18	12.0000	2.25	_____
INTEREST ON OP. CAP.	acre	15.75	1.0000	15.75	_____
TOTAL DIRECT EXPENSES				691.96	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	13.52	1.0000	13.52	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Furrow Irr.	each	3058.64	0.0076	23.53	_____
TOTAL FIXED EXPENSES				60.13	_____
TOTAL SPECIFIED EXPENSES				752.09	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, Bt/RR, Furrow Irrigated, Clay Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18
Cstm Ap Grd Fert 90-75-75	acre			1.00	Mar							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46	1.0000	210.83	210.83		210.83
Disk Bed (Hipper)	8R-30	MFWD 190	0.093	1.00	Apr	2.73	2.54	0.31	0.95	0.09	0.93					7.46
Row Cond Rdg	26'	MFWD 190	0.059	1.00	Apr	1.74	1.62	0.15	0.76	0.05	0.59					4.86
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86
Corn Seed Bt/RR	thous											33.0000	2.97	98.01		98.01
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Atrazine 4L	pt											2.0000	1.69	3.38		3.38
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Urea, Solid (46% N)	lb.											313.0000	0.30	93.90		93.90
Agrotain	lburea											313.0000	0.02	7.51		7.51
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Callisto 4SC	oz											3.0000	4.61	13.83		13.83
Cstm Ap Air Fert	lb			1.00	May							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Agrotain	lburea											100.0000	0.02	2.40		2.40
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20
Haul Corn	bu											150.0000	0.22	33.00		33.00
Dry Corn	bu											150.0000	0.19	28.50		28.50
Corn Checkoff	bu											150.0000	0.01	1.50		1.50
Corn Grain Cart	8R30	500 bu	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57
Furrow Irr.	each	MFWD 190		1.00	Jun-Aug											23.53
Apply Water	ac-in															36.04
TOTALS						21.44	25.29	38.07	34.84	0.99	9.37				607.33	736.34
INTEREST ON OPERATING CAPITAL																15.75
TOTAL SPECIFIED COST																752.09

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.

Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Bt/RR, Furrow Irrigated, Clay Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
153	-167	-139	-111	-83	-56	-28	0
160	-145	-116	-87	-58	-29	0	29
167	-122	-91	-61	-30	0	30	61
176	-96	-64	-32	0	32	64	96
185	-67	-34	0	34	67	101	135
196	-36	0	36	71	107	143	178
208	0	38	76	113	151	189	227

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
207	-170	-141	-113	-85	-57	-28	0
217	-148	-118	-89	-59	-30	0	30
228	-124	-93	-62	-31	0	31	62
239	-98	-65	-33	0	33	65	98
253	-69	-34	0	34	69	103	138
267	-36	0	36	73	109	146	182
284	0	39	77	116	155	194	232

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
170	-93	-77	-62	-46	-31	-15	0
178	-81	-65	-49	-32	-16	0	16
187	-68	-51	-34	-17	0	17	34
197	-54	-36	-18	0	18	36	54
208	-38	-19	0	19	38	57	76
221	-20	0	20	40	60	80	101
235	0	21	43	64	86	107	128

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
193	-169	-141	-113	-84	-56	-28	0
202	-147	-118	-88	-59	-29	0	29
212	-124	-93	-62	-31	0	31	62
223	-98	-65	-33	0	33	65	98
235	-69	-34	0	34	69	103	137
249	-36	0	36	73	109	145	181
264	0	38	77	115	154	192	231

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2009 Costs of Production Corn, RR, Flood Irrigated, Loamy Soils

AG-1202-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate

Jason Kelley, Extension Agronomist – Wheat and Feed Grains

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
CROP SEED					
Corn Seed RR	thous	2.70	33.0000	89.10	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Survey Levees-CrnSoy	acre	5.00	1.0000	5.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4094	4.08	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Flood Irr. - Crn-Sor	hour	8.60	0.1086	0.93	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.9944	10.39	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Flood Irr. - Crn-Sor	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.30	1.0000	4.30	_____
Tractors	acre	1.55	1.0000	1.55	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Flood Irr. - Crn-Sor	ac-in	0.32	12.0000	3.86	_____
INTEREST ON OP. CAP.	acre	14.22	1.0000	14.22	_____
TOTAL DIRECT EXPENSES				631.27	_____
FIXED EXPENSES					
Implements	acre	10.36	1.0000	10.36	_____
Tractors	acre	11.39	1.0000	11.39	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Flood Irr. - Crn-Sor	each	3058.64	0.0083	25.49	_____
TOTAL FIXED EXPENSES				59.01	_____
TOTAL SPECIFIED EXPENSES				690.28	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, RR, Flood Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70					7.75	
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76					7.18	
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00		6.00	
70-75-75	acre											1.0000	197.79	197.79		197.79	
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46					5.56	
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75					9.86	
Corn Seed RR	thous											33.0000	2.70	89.10		89.10	
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00	
Bicep II Magnum	qt											1.5000	9.46	14.19		14.19	
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00	
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64	
Atrazine 4L	pt											2.0000	1.69	3.38		3.38	
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00	
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50		97.50	
Agrotain	lburea											325.0000	0.02	7.80		7.80	
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00		6.00	
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64	
Callisto 4SC	oz											3.0000	4.61	13.83		13.83	
Survey Levees-CrnSoy	acre			1.00	May							1.0000	5.00	5.00		5.00	
Build Levees	8 blade	MFWD 190	0.012	2.00	Jun-Aug	0.73	0.68	0.06	0.37	0.02	0.25					2.09	
Blade-Box	6'-7'	2WD 130	0.020	2.00	Jun-Aug	0.80	0.67	0.02	0.02	0.04	0.40					1.91	
Tear Down Levees	8 blade	MFWD 190	0.012	2.00	Jun-Aug	0.73	0.68	0.06	0.37	0.02	0.25					2.09	
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27					24.20	
Haul Corn	bu											175.0000	0.22	38.50		38.50	
Dry Corn	bu											175.0000	0.19	33.25		33.25	
Corn Checkoff	bu											175.0000	0.01	1.75		1.75	
Corn Grain Cart	8R30 500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32					2.57	
Flood Irr. - Crn-Sor	each			1.00	Jun-Aug											25.49	
Apply Water	ac-in															35.99	
TOTALS						19.23	23.16	39.36	35.85	0.74	7.09				551.37	676.06	
INTEREST ON OPERATING CAPITAL																14.22	
TOTAL SPECIFIED COST																690.28	

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, RR, Flood Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
135	-148	-123	-99	-74	-49	-25	0
142	-129	-103	-77	-52	-26	0	26
149	-108	-81	-54	-27	0	27	54
156	-85	-57	-28	0	28	57	85
164	-60	-30	0	30	60	90	120
174	-32	0	32	63	95	127	158
184	0	34	67	101	134	168	201

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
184	-151	-126	-100	-75	-50	-25	0
193	-131	-105	-79	-53	-26	0	26
202	-110	-83	-55	-28	0	28	55
213	-87	-58	-29	0	29	58	87
224	-61	-31	0	31	61	92	122
237	-32	0	32	65	97	129	162
252	0	34	69	103	137	172	206

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
147	-80	-67	-54	-40	-27	-13	0
155	-70	-56	-42	-28	-14	0	14
162	-59	-44	-30	-15	0	15	30
171	-47	-31	-16	0	16	31	47
181	-33	-16	0	16	33	49	66
192	-17	0	17	35	52	70	87
204	0	19	37	56	74	93	112

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
172	-150	-125	-100	-75	-50	-25	0
180	-131	-105	-78	-52	-26	0	26
188	-110	-82	-55	-27	0	27	55
198	-87	-58	-29	0	29	58	87
209	-61	-30	0	30	61	91	122
221	-32	0	32	64	97	129	161
234	0	34	68	102	137	171	205

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Corn, Bt/RR, Flood Irrigated, Loamy Soils

AG-1203-11-08

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
70-75-75	acre	197.79	1.0000	197.79	_____
Urea, Solid (46% N)	lb.	0.30	325.0000	97.50	_____
Agrotain	lburea	0.02	325.0000	7.80	_____
HERBICIDES					
Bicep II Magnum	qt	9.46	1.5000	14.19	_____
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Atrazine 4L	pt	1.69	2.0000	3.38	_____
Callisto 4SC	oz	4.61	3.0000	13.83	_____
CROP SEED					
Corn Seed Bt/RR	thous	2.97	33.0000	98.01	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Survey Levees-CrnSoy	acre	5.00	1.0000	5.00	_____
Haul Corn	bu	0.22	175.0000	38.50	_____
GIN/DRY					
Dry Corn	bu	0.19	175.0000	33.25	_____
Corn Checkoff	bu	0.01	175.0000	1.75	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.4094	4.08	_____
Harvesters	hour	9.92	0.1277	1.27	_____
IRRIGATION LABOR					
Flood Irr. - Crn-Sor	hour	8.60	0.1086	0.93	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.9944	10.39	_____
Harvesters	gal	2.60	1.8070	4.70	_____
Flood Irr. - Crn-Sor	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.30	1.0000	4.30	_____
Tractors	acre	1.55	1.0000	1.55	_____
Harvesters	acre	2.59	1.0000	2.59	_____
Flood Irr. - Crn-Sor	ac-in	0.32	12.0000	3.86	_____
INTEREST ON OP. CAP.	acre	14.44	1.0000	14.44	_____
TOTAL DIRECT EXPENSES				640.40	_____
FIXED EXPENSES					
Implements	acre	10.36	1.0000	10.36	_____
Tractors	acre	11.39	1.0000	11.39	_____
Harvesters	acre	11.77	1.0000	11.77	_____
Flood Irr. - Crn-Sor	each	3058.64	0.0083	25.49	_____
TOTAL FIXED EXPENSES				59.01	_____
TOTAL SPECIFIED EXPENSES				699.41	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Corn, Bt/RR, Flood Irrigated, Loamy Soils, 2009

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	2.43	2.35	0.65	1.62	0.07	0.70				7.75
Chisel Plow(Folding)	24'	MFWD 190	0.076	1.00	Nov	2.22	2.07	0.69	1.44	0.07	0.76				7.18
Cstm Ap Grd Fert	acre			1.00	Mar							1.0000	6.00	6.00	6.00
70-75-75	acre											1.0000	197.79	197.79	197.79
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Mar	1.61	1.56	0.32	1.61	0.04	0.46				5.56
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Apr	2.49	2.52	0.95	2.15	0.18	1.75				9.86
Corn Seed Bt/RR	thous											33.0000	2.97	98.01	98.01
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Bicep II Magnum	qt											1.5000	9.46	14.19	14.19
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Atrazine 4L	pt											2.0000	1.69	3.38	3.38
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Urea, Solid (46% N)	lb.											325.0000	0.30	97.50	97.50
Agrotain	lburea											325.0000	0.02	7.80	7.80
Survey Levees-CrnSoy	acre			1.00	May							1.0000	5.00	5.00	5.00
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Callisto 4SC	oz											3.0000	4.61	13.83	13.83
Build Levees	8 blade	MFWD 190	0.012	2.00	Jun-Aug	0.73	0.68	0.06	0.37	0.02	0.25				2.09
Blade-Box	6'-7'	2WD 130	0.020	2.00	Jun-Aug	0.80	0.67	0.02	0.02	0.04	0.40				1.91
Tear Down Levees	8 blade	MFWD 190	0.012	2.00	Jun-Aug	0.73	0.68	0.06	0.37	0.02	0.25				2.09
Header - Corn	8R-30	275hp	0.127	1.00	Sep	7.29	11.77	1.40	2.47	0.12	1.27				24.20
Haul Corn	bu											175.0000	0.22	38.50	38.50
Dry Corn	bu											175.0000	0.19	33.25	33.25
Corn Checkoff	bu											175.0000	0.01	1.75	1.75
Corn Grain Cart	8R30 500 bu	MFWD 190	0.031	1.00	Sep	0.93	0.86	0.15	0.31	0.03	0.32				2.57
Flood Irr. - Crn-Sor	each			1.00	Jun-Aug							0.0083			25.49
Apply Water	ac-in							35.06		0.10	0.93				35.99
TOTALS						19.23	23.16	39.36	35.85	0.74	7.09			560.28	684.97
INTEREST ON OPERATING CAPITAL															14.44
TOTAL SPECIFIED COST															699.41

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.

Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Corn, Bt/RR, Flood Irrigated, Loamy Soils, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
138	-150	-125	-100	-75	-50	-25	0
144	-131	-105	-79	-52	-26	0	26
151	-110	-82	-55	-27	0	27	55
159	-87	-58	-29	0	29	58	87
167	-61	-30	0	30	61	91	122
177	-32	0	32	64	96	129	161
187	0	34	68	102	136	170	204

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
187	-153	-128	-102	-77	-51	-26	0
196	-134	-107	-80	-53	-27	0	27
205	-112	-84	-56	-28	0	28	56
216	-88	-59	-29	0	29	59	88
228	-62	-31	0	31	62	93	124
241	-33	0	33	66	99	132	164
256	0	35	70	105	140	175	209

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
150	-82	-68	-54	-41	-27	-14	0
157	-71	-57	-43	-29	-14	0	14
165	-60	-45	-30	-15	0	15	30
174	-48	-32	-16	0	16	32	48
184	-33	-17	0	17	33	50	67
195	-18	0	18	36	53	71	89
208	0	19	38	57	76	95	113

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides, Insecticides, and Aerial Application Costs.

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.46	3.64	3.82	4.00	4.19	4.37	4.55
	Net Returns above Variable Costs (\$/acre)						
174	-152	-127	-102	-76	-51	-25	0
183	-133	-106	-80	-53	-27	0	27
192	-112	-84	-56	-28	0	28	56
201	-88	-59	-29	0	29	59	88
212	-62	-31	0	31	62	93	124
225	-33	0	33	65	98	131	163
238	0	35	69	104	139	173	208

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.