

# Estimating 2008 Costs of Production Soybean, Full Season, Non-Irrigated, Roundup Ready

AG-1096-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.0000	11.28	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.64	45.0000	28.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	3.0000	15.06	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	25.0000	3.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2832	2.68	_____
Harvesters	hour	9.45	0.1021	0.97	_____
HAND LABOR					
Implements	hour	8.19	0.0942	0.77	_____
DIESEL FUEL					
Tractors	gal	2.33	3.0011	7.00	_____
Harvesters	gal	2.33	1.4457	3.37	_____
REPAIR & MAINTENANCE					
Implements	acre	3.01	1.0000	3.01	_____
Tractors	acre	1.16	1.0000	1.16	_____
Harvesters	acre	2.03	1.0000	2.03	_____
INTEREST ON OP. CAP.	acre	6.27	1.0000	6.27	_____
				-----	
TOTAL DIRECT EXPENSES				153.71	_____
FIXED EXPENSES					
Implements	acre	8.06	1.0000	8.06	_____
Tractors	acre	8.87	1.0000	8.87	_____
Harvesters	acre	9.58	1.0000	9.58	_____
				-----	
TOTAL FIXED EXPENSES				26.51	_____
				-----	
TOTAL SPECIFIED EXPENSES				180.22	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Non-Irrigated, Roundup Ready, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed RR	lb											45.0000	0.64	28.80	28.80
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							25.0000	0.15	3.75	3.75
TOTALS						13.56	18.45	3.01	8.06	0.47	4.42			126.45	173.95
INTEREST ON OPERATING CAPITAL															6.27
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															180.22

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Non-Irrigated, Roundup Ready, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
14	-70	-58	-47	-35	-23	-12	0
16	-63	-51	-38	-25	-13	0	13
17	-55	-41	-28	-14	0	14	28
19	-46	-30	-15	0	15	30	46
21	-34	-17	0	17	34	51	68
24	-19	0	19	38	57	76	95
27	0	22	44	66	88	109	131

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
19	-70	-59	-47	-35	-23	-12	0
21	-64	-51	-38	-25	-13	0	13
23	-56	-42	-28	-14	0	14	28
25	-46	-31	-15	0	15	31	46
28	-34	-17	0	17	34	51	68
32	-19	0	19	39	58	77	96
36	0	22	44	66	88	110	133

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
16	-70	-58	-47	-35	-23	-12	0
17	-63	-51	-38	-25	-13	0	13
19	-55	-42	-28	-14	0	14	28
21	-46	-31	-15	0	15	31	46
23	-34	-17	0	17	34	51	68
26	-19	0	19	38	57	77	96
30	0	22	44	66	88	110	132

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
18	-70	-59	-47	-35	-23	-12	0
20	-64	-51	-38	-25	-13	0	13
21	-56	-42	-28	-14	0	14	28
24	-46	-31	-15	0	15	31	46
26	-34	-17	0	17	34	51	68
30	-19	0	19	38	58	77	96
34	0	22	44	66	88	110	132

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

## Estimating 2008 Costs of Production Soybean, Full Season, Furrow Irrigation, Roundup Ready

AG-1097-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybean**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.0000	11.28	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.64	45.0000	28.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	3.0000	15.06	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.4895	4.62	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3771	3.10	_____
HAND LABOR					
Implements	hour	8.19	0.0942	0.77	_____
DIESEL FUEL					
Tractors	gal	2.33	5.0182	11.70	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Furrow Irr.	gal	2.33	15.0000	34.95	_____
REPAIR & MAINTENANCE					
Implements	acre	3.87	1.0000	3.87	_____
Tractors	acre	1.92	1.0000	1.92	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Furrow Irr.	ac-in	0.17	15.0000	2.65	_____
INTEREST ON OP. CAP.	acre	8.59	1.0000	8.59	_____
				-----	
TOTAL DIRECT EXPENSES				218.29	_____
FIXED EXPENSES					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	14.73	1.0000	14.73	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
				-----	
TOTAL FIXED EXPENSES				60.11	_____
				-----	
TOTAL SPECIFIED EXPENSES				278.40	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Furrow Irrigation, Roundup Ready, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed RR	lb											45.0000	0.64	28.80	28.80
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Furrow Irr.	each			1.00	Jun										24.94
Application 1	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 2	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 3	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
Application 4	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
Application 5	ac-in			1.00	Aug			7.52		0.07	0.62	3.0000			8.14
TOTALS						19.02	24.31	41.47	35.80	1.06	9.46			139.75	269.81
INTEREST ON OPERATING CAPITAL															8.59
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															278.40

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**Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Furrow Irrigated, Roundup Ready, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
20	-99	-82	-66	-49	-33	-16	0
22	-89	-71	-54	-36	-18	0	18
24	-78	-58	-39	-19	0	19	39
27	-64	-43	-21	0	21	43	64
30	-48	-24	0	24	48	72	96
33	-27	0	27	54	81	108	135
38	0	31	62	93	123	154	185

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
27	-99	-83	-66	-50	-33	-17	0
30	-90	-72	-54	-36	-18	0	18
32	-78	-59	-39	-20	0	20	39
36	-65	-43	-22	0	22	43	65
40	-48	-24	0	24	48	72	96
45	-27	0	27	54	81	109	136
51	0	31	62	93	125	156	187

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
23	-99	-82	-66	-49	-33	-16	0
25	-89	-72	-54	-36	-18	0	18
27	-78	-59	-39	-20	0	20	39
30	-65	-43	-22	0	22	43	65
33	-48	-24	0	24	48	72	96
37	-27	0	27	54	81	108	135
42	0	31	62	93	124	155	186

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
25	-99	-83	-66	-50	-33	-17	0
28	-90	-72	-54	-36	-18	0	18
30	-78	-59	-39	-20	0	20	39
33	-65	-43	-22	0	22	43	65
37	-48	-24	0	24	48	72	96
42	-27	0	27	54	81	108	136
48	0	31	62	93	124	155	187

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

# Estimating 2008 Costs of Production

## Soybean, Full Season, Border Irrigation, Roundup Ready

AG-1098-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FERTILIZERS</b>					
0-18-36	lb	0.17	200.0000	34.60	_____
<b>FUNGICIDES</b>					
Folicur	oz	2.05	4.0000	8.20	_____
<b>HERBICIDES</b>					
Glyphosate Plus	pt	1.88	6.0000	11.28	_____
<b>INSECTICIDES</b>					
Orthene 90S	lb	8.59	1.0000	8.59	_____
<b>IRRIGATION SUPPLIES</b>					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
<b>SEED/PLANTS</b>					
Soybean Seed RR	lb	0.64	45.0000	28.80	_____
<b>CUSTOM HIRE</b>					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	3.0000	15.06	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.45	0.2850	2.70	_____
Harvesters	hour	9.45	0.1021	0.97	_____
<b>IRRIGATION LABOR</b>					
Border Irr,	hour	8.19	0.2413	1.96	_____
<b>HAND LABOR</b>					
Implements	hour	8.19	0.0942	0.77	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.33	3.0167	7.04	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Border Irr,	gal	2.33	12.0000	27.96	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.01	1.0000	3.01	_____
Tractors	acre	1.17	1.0000	1.17	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Border Irr,	ac-in	0.17	12.0000	2.12	_____
<b>INTEREST ON OP. CAP.</b>	acre	7.99	1.0000	7.99	_____
				-----	
<b>TOTAL DIRECT EXPENSES</b>				<b>200.84</b>	_____
<b>FIXED EXPENSES</b>					
Implements	acre	8.07	1.0000	8.07	_____
Tractors	acre	8.92	1.0000	8.92	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Border Irr,	each	2993.11	0.0083	24.94	_____
				-----	
<b>TOTAL FIXED EXPENSES</b>				<b>51.51</b>	_____
				-----	
<b>TOTAL SPECIFIED EXPENSES</b>				<b>252.35</b>	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Border Irrigation, Roundup Ready 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed RR	lb											45.0000	0.64	28.80	28.80
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.50	Jul	0.05	0.05		0.01	0.00	0.02				0.13
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Border Irr,	each			1.00	Jun				24.94			0.0083			24.94
Application 1	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 2	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 3	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
Application 4	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
TOTALS						13.61	18.50	33.09	33.01	0.72	6.40			139.75	244.36
INTEREST ON OPERATING CAPITAL															7.99
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															252.35

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**Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Border Irrigated, Roundup Ready, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
19	-91	-76	-60	-45	-30	-15	0
20	-82	-66	-49	-33	-16	0	16
22	-72	-54	-36	-18	0	18	36
24	-59	-39	-20	0	20	39	59
27	-44	-22	0	22	44	66	88
31	-25	0	25	49	74	99	124
35	0	28	57	85	113	142	170

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
25	-91	-76	-61	-46	-30	-15	0
27	-82	-66	-49	-33	-16	0	16
30	-72	-54	-36	-18	0	18	36
33	-59	-40	-20	0	20	40	59
36	-44	-22	0	22	44	66	88
41	-25	0	25	50	75	100	125
47	0	29	57	86	114	143	172

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
21	-91	-76	-61	-45	-30	-15	0
23	-82	-66	-49	-33	-16	0	16
25	-72	-54	-36	-18	0	18	36
27	-59	-39	-20	0	20	39	59
30	-44	-22	0	22	44	66	88
34	-25	0	25	50	74	99	124
39	0	28	57	85	114	142	170

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
23	-91	-76	-61	-45	-30	-15	0
25	-82	-66	-49	-33	-16	0	16
28	-72	-54	-36	-18	0	18	36
31	-59	-40	-20	0	20	40	59
34	-44	-22	0	22	44	66	88
38	-25	0	25	50	75	99	124
44	0	29	57	86	114	143	171

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

## Estimating 2008 Costs of Production

### Soybean, Full Season, Center Pivot, Roundup Ready

AG-1099-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FERTILIZERS</b>					
0-18-36	lb	0.17	200.0000	34.60	_____
<b>FUNGICIDES</b>					
Folicur	oz	2.05	4.0000	8.20	_____
<b>HERBICIDES</b>					
Glyphosate Plus	pt	1.88	6.0000	11.28	_____
<b>INSECTICIDES</b>					
Orthene 90S	lb	8.59	1.0000	8.59	_____
<b>SEED/PLANTS</b>					
Soybean Seed RR	lb	0.64	45.0000	28.80	_____
<b>CUSTOM HIRE</b>					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	3.0000	15.06	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.45	0.2832	2.68	_____
Harvesters	hour	9.45	0.1021	0.97	_____
<b>IRRIGATION LABOR</b>					
Center pivot Irr.	hour	8.19	0.0649	0.56	_____
<b>HAND LABOR</b>					
Implements	hour	8.19	0.0942	0.77	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.33	3.0011	7.00	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Center pivot Irr.	gal	2.33	16.0000	37.28	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.01	1.0000	3.01	_____
Tractors	acre	1.16	1.0000	1.16	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Center pivot Irr.	ac-in	1.39	8.0000	11.20	_____
INTEREST ON OP. CAP.	acre	8.38	1.0000	8.38	_____
<b>TOTAL DIRECT EXPENSES</b>				207.86	_____
<b>FIXED EXPENSES</b>					
Implements	acre	8.06	1.0000	8.06	_____
Tractors	acre	8.87	1.0000	8.87	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Center pivot Irr.	each	8866.29	0.0083	73.89	_____
<b>TOTAL FIXED EXPENSES</b>				100.40	_____
<b>TOTAL SPECIFIED EXPENSES</b>				308.26	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Center Pivot, Roundup Ready, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed RR	lb											45.0000	0.64	28.80	28.80
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Center pivot Irr.	each			1.00	Jun							0.0083			73.89
Application 1	ac-in			1.00	May			6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in			1.00	Jul			6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in			1.00	Jul			6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in			1.00	Aug			6.06		0.00	0.07	1.0000			6.13
Application 8	ac-in			1.00	Aug			6.06		0.00	0.07	1.0000			6.13
TOTALS						13.56	18.45	51.49	81.95	0.54	4.98			129.45	299.88
INTEREST ON OPERATING CAPITAL															8.38
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															308.26

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Center Pivot Irrigated, Roundup Ready, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
19	-94	-78	-63	-47	-31	-16	0
21	-85	-68	-51	-34	-17	0	17
23	-74	-56	-37	-19	0	19	37
25	-61	-41	-20	0	20	41	61
28	-45	-23	0	23	45	68	91
32	-26	0	26	51	77	102	128
36	0	29	59	88	117	147	176

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
26	-94	-79	-63	-47	-31	-16	0
28	-85	-68	-51	-34	-17	0	17
31	-75	-56	-37	-19	0	19	37
34	-62	-41	-21	0	21	41	62
38	-46	-23	0	23	46	69	92
42	-26	0	26	52	77	103	129
49	0	30	59	89	118	148	178

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
21	-94	-78	-63	-47	-31	-16	0
23	-85	-68	-51	-34	-17	0	17
25	-74	-56	-37	-19	0	19	37
28	-61	-41	-20	0	20	41	61
31	-46	-23	0	23	46	68	91
35	-26	0	26	51	77	103	128
40	0	29	59	88	118	147	177

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
24	-94	-79	-63	-47	-31	-16	0
26	-85	-68	-51	-34	-17	0	17
29	-74	-56	-37	-19	0	19	37
32	-62	-41	-21	0	21	41	62
35	-46	-23	0	23	46	69	91
40	-26	0	26	52	77	103	129
46	0	30	59	89	118	148	177

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Estimating 2008 Costs of Production**  
**Soybean, Full Season, Flood Irrigation, Roundup Ready**

AG-1100-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	6.0000	11.28	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.64	45.0000	28.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	3.0000	15.06	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.6934	6.56	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.19	0.1176	0.96	_____
HAND LABOR					
Implements	hour	8.19	0.0942	0.77	_____
DIESEL FUEL					
Tractors	gal	2.33	7.5539	17.61	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Flood Irr. - Soybean	gal	2.33	13.0000	30.29	_____
REPAIR & MAINTENANCE					
Implements	acre	3.87	1.0000	3.87	_____
Tractors	acre	2.88	1.0000	2.88	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Flood Irr. - Soybean	ac-in	0.15	13.0000	1.95	_____
INTEREST ON OP. CAP.	acre	7.82	1.0000	7.82	_____
TOTAL DIRECT EXPENSES				208.53	_____
FIXED EXPENSES					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	22.09	1.0000	22.09	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Flood Irr. - Soybean	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				67.47	_____
TOTAL SPECIFIED EXPENSES				276.00	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Flood Irrigation, Roundup Ready, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.47	1.57	0.33	1.72	0.04	0.44				5.53
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed RR	lb											45.0000	0.64	28.80	28.80
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cultivate	8R-30	MFWD 190	0.103	1.00	Jul	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Land Plane	50'x16'	MFWD 225	0.151	2.00	Jul	9.52	10.21	0.43	1.40	0.30	2.87				24.43
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Jul	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Jul										
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.02	5.02	5.02
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Sep	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Sep										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Flood Irr. - Soybean	each			1.00	Jul				24.94			0.0083			24.94
Application 1	ac-in			1.00	Jul			9.92		0.03	0.30	4.0000			10.22
Application 2	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 3	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 4	ac-in			1.00	Sep			7.44		0.02	0.22	3.0000			7.66
TOTALS						25.89	31.67	36.11	35.80	1.00	9.26			129.45	268.18
INTEREST ON OPERATING CAPITAL															7.82
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															276.00

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**Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Flood Irrigated, Roundup Ready, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
19	-94	-79	-63	-47	-31	-16	0
21	-85	-68	-51	-34	-17	0	17
23	-74	-56	-37	-19	0	19	37
25	-61	-41	-20	0	20	41	61
28	-46	-23	0	23	46	68	91
32	-26	0	26	51	77	103	128
36	0	29	59	88	118	147	177

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
26	-95	-79	-63	-47	-32	-16	0
28	-86	-68	-51	-34	-17	0	17
31	-75	-56	-37	-19	0	19	37
34	-62	-41	-21	0	21	41	62
38	-46	-23	0	23	46	69	92
43	-26	0	26	52	78	104	130
49	0	30	59	89	119	149	178

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
22	-94	-79	-63	-47	-31	-16	0
23	-85	-68	-51	-34	-17	0	17
26	-75	-56	-37	-19	0	19	37
28	-62	-41	-21	0	21	41	62
31	-46	-23	0	23	46	69	91
35	-26	0	26	52	77	103	129
41	0	30	59	89	118	148	177

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
24	-95	-79	-63	-47	-32	-16	0
26	-85	-68	-51	-34	-17	0	17
29	-75	-56	-37	-19	0	19	37
32	-62	-41	-21	0	21	41	62
35	-46	-23	0	23	46	69	92
40	-26	0	26	52	78	103	129
46	0	30	59	89	119	148	178

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Estimating 2008 Costs of Production**  
**Soybean, Full Season, Non-Irrigated, Conventional**

AG-1101-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	25.0000	3.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2861	2.71	_____
Harvesters	hour	9.45	0.1021	0.97	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	3.0349	7.08	_____
Harvesters	gal	2.33	1.4457	3.37	_____
REPAIR & MAINTENANCE					
Implements	acre	3.10	1.0000	3.10	_____
Tractors	acre	1.17	1.0000	1.17	_____
Harvesters	acre	2.03	1.0000	2.03	_____
INTEREST ON OP. CAP.	acre	6.72	1.0000	6.72	_____
				-----	
TOTAL DIRECT EXPENSES				165.82	_____
FIXED EXPENSES					
Implements	acre	8.51	1.0000	8.51	_____
Tractors	acre	8.97	1.0000	8.97	_____
Harvesters	acre	9.58	1.0000	9.58	_____
				-----	
TOTAL FIXED EXPENSES				27.06	_____
				-----	
TOTAL SPECIFIED EXPENSES				192.88	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Non-Irrigated, Conventional, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							25.0000	0.15	3.75	3.75
TOTALS						13.65	18.55	3.10	8.51	0.50	4.65			137.70	186.16
INTEREST ON OPERATING CAPITAL															6.72
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															192.88

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**Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Non-Irrigated, Conventional, 2008**

<b>Farm Owner</b>							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
16	-76	-63	-50	-38	-25	-13	0
17	-68	-55	-41	-27	-14	0	14
18	-60	-45	-30	-15	0	15	30
20	-49	-33	-16	0	16	33	49
23	-37	-18	0	18	37	55	73
25	-21	0	21	41	62	83	103
29	0	24	47	71	95	118	142

Farm Owner is assumed to have 100% Equity in Land

<b>Tenant 75-25 Crop-Share</b>							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
21	-76	-63	-51	-38	-25	-13	0
23	-69	-55	-41	-27	-14	0	14
25	-60	-45	-30	-15	0	15	30
27	-50	-33	-17	0	17	33	50
30	-37	-18	0	18	37	55	74
34	-21	0	21	42	62	83	104
39	0	24	48	72	95	119	143

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

<b>Tenant 90-10 Crop-Share</b>							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
17	-76	-63	-51	-38	-25	-13	0
19	-68	-55	-41	-27	-14	0	14
21	-60	-45	-30	-15	0	15	30
23	-49	-33	-16	0	16	33	49
25	-37	-18	0	18	37	55	73
28	-21	0	21	41	62	83	103
33	0	24	47	71	95	119	142

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

<b>Tenant 80-20 Crop-Share</b>							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
20	-76	-63	-51	-38	-25	-13	0
21	-69	-55	-41	-27	-14	0	14
23	-60	-45	-30	-15	0	15	30
26	-50	-33	-17	0	17	33	50
28	-37	-18	0	18	37	55	74
32	-21	0	21	42	62	83	104
37	0	24	48	71	95	119	143

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

# Estimating 2008 Costs of Production

## Soybean, Full Season, Furrow Irrigation, Conventional

AG-1102-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.4924	4.65	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.19	0.3771	3.10	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	5.0521	11.78	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Furrow Irr.	gal	2.33	15.0000	34.95	_____
REPAIR & MAINTENANCE					
Implements	acre	3.96	1.0000	3.96	_____
Tractors	acre	1.93	1.0000	1.93	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Furrow Irr.	ac-in	0.17	15.0000	2.65	_____
INTEREST ON OP. CAP.	acre	9.04	1.0000	9.04	_____
TOTAL DIRECT EXPENSES				230.40	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	14.83	1.0000	14.83	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				60.66	_____
TOTAL SPECIFIED EXPENSES				291.06	_____

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

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Furrow Irrigation, Conventional, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Cultivate	8R-30	MFWD 190	0.103	1.00	May	2.73	2.93	0.43	1.40	0.10	0.97				8.46
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Furrow Irr.	each			1.00	Jun										24.94
Application 1	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 2	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 3	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
Application 4	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
Application 5	ac-in			1.00	Aug			7.52		0.07	0.62	3.0000			8.14
TOTALS						19.11	24.41	41.56	36.25	1.09	9.69			151.00	282.02
INTEREST ON OPERATING CAPITAL															9.04
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															291.06

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Furrow Irrigated, Conventional, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
21	-104	-87	-70	-52	-35	-17	0
23	-94	-75	-57	-38	-19	0	19
25	-82	-62	-41	-21	0	21	41
28	-68	-45	-23	0	23	45	68
31	-51	-25	0	25	51	76	101
35	-28	0	28	57	85	114	142
40	0	33	65	98	131	163	196

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
29	-105	-87	-70	-52	-35	-17	0
31	-95	-76	-57	-38	-19	0	19
34	-83	-62	-41	-21	0	21	41
38	-69	-46	-23	0	23	46	69
42	-51	-25	0	25	51	76	102
47	-29	0	29	57	86	115	144
54	0	33	66	99	132	165	198

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
24	-105	-87	-70	-52	-35	-17	0
26	-95	-76	-57	-38	-19	0	19
28	-83	-62	-41	-21	0	21	41
31	-68	-45	-23	0	23	45	68
35	-51	-25	0	25	51	76	101
39	-29	0	29	57	86	114	143
45	0	33	65	98	131	164	196

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
27	-105	-87	-70	-52	-35	-17	0
29	-95	-76	-57	-38	-19	0	19
32	-83	-62	-41	-21	0	21	41
35	-68	-46	-23	0	23	46	68
39	-51	-25	0	25	51	76	102
44	-29	0	29	57	86	115	143
51	0	33	66	99	131	164	197

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

# Estimating 2008 Costs of Production Soybean, Full Season, Border Irrigation, Conventional

AG-1103-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2879	2.73	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Border Irr,	hour	8.19	0.2413	1.96	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	3.0505	7.12	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Border Irr,	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	3.10	1.0000	3.10	_____
Tractors	acre	1.18	1.0000	1.18	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Border Irr,	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	8.44	1.0000	8.44	_____
TOTAL DIRECT EXPENSES				212.95	_____
FIXED EXPENSES					
Implements	acre	8.52	1.0000	8.52	_____
Tractors	acre	9.02	1.0000	9.02	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Border Irr,	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				52.06	_____
TOTAL SPECIFIED EXPENSES				265.01	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
 The Division of Agriculture offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability, marital or veteran status, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.

**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Border Irrigation, Conventional, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.50	Jul	0.05	0.05		0.01	0.00	0.02				0.13
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Border Irr,	each			1.00	Jun										24.94
Application 1	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 2	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 3	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
Application 4	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
TOTALS						13.70	18.60	33.18	33.46	0.75	6.63			151.00	256.57
INTEREST ON OPERATING CAPITAL															8.44
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															265.01

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Border Irrigated, Conventional, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
20	-96	-80	-64	-48	-32	-16	0
21	-87	-70	-52	-35	-17	0	17
23	-76	-57	-38	-19	0	19	38
26	-63	-42	-21	0	21	42	63
29	-47	-23	0	23	47	70	93
32	-26	0	26	53	79	105	131
37	0	30	60	90	120	150	181

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
27	-97	-81	-64	-48	-32	-16	0
29	-87	-70	-52	-35	-17	0	17
31	-76	-57	-38	-19	0	19	38
35	-63	-42	-21	0	21	42	63
39	-47	-23	0	23	47	70	94
44	-26	0	26	53	79	106	132
50	0	30	61	91	121	152	182

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
22	-96	-80	-64	-48	-32	-16	0
24	-87	-70	-52	-35	-17	0	17
26	-76	-57	-38	-19	0	19	38
29	-63	-42	-21	0	21	42	63
32	-47	-23	0	23	47	70	93
36	-26	0	26	53	79	105	132
41	0	30	60	91	121	151	181

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
25	-97	-81	-64	-48	-32	-16	0
27	-87	-70	-52	-35	-17	0	17
29	-76	-57	-38	-19	0	19	38
32	-63	-42	-21	0	21	42	63
36	-47	-23	0	23	47	70	94
41	-26	0	26	53	79	106	132
47	0	30	61	91	121	151	182

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.



# Estimating 2008 Costs of Production

## Soybean, Full Season, Center Pivot, Conventional

AG-1104-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2861	2.71	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.19	0.0649	0.56	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	3.0349	7.08	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Center pivot Irr.	gal	2.33	16.0000	37.28	_____
REPAIR & MAINTENANCE					
Implements	acre	3.10	1.0000	3.10	_____
Tractors	acre	1.17	1.0000	1.17	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Center pivot Irr.	ac-in	1.39	8.0000	11.20	_____
INTEREST ON OP. CAP.	acre	8.83	1.0000	8.83	_____
TOTAL DIRECT EXPENSES				219.97	_____
FIXED EXPENSES					
Implements	acre	8.51	1.0000	8.51	_____
Tractors	acre	8.97	1.0000	8.97	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Center pivot Irr.	each	8866.29	0.0083	73.89	_____
TOTAL FIXED EXPENSES				100.95	_____
TOTAL SPECIFIED EXPENSES				320.92	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
The Division of Agriculture offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability, marital or veteran status, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer.

**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Center Pivot, Conventional, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Center pivot Irr.	each			1.00	Jun				73.89			0.0083			73.89
Application 1	ac-in			1.00	May			6.06		0.00	0.07	1.0000			6.13
Application 2	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 3	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 4	ac-in			1.00	Jun			6.06		0.00	0.07	1.0000			6.13
Application 5	ac-in			1.00	Jul			6.06		0.00	0.07	1.0000			6.13
Application 6	ac-in			1.00	Jul			6.06		0.00	0.07	1.0000			6.13
Application 7	ac-in			1.00	Aug			6.06		0.00	0.07	1.0000			6.13
Application 8	ac-in			1.00	Aug			6.06		0.00	0.07	1.0000			6.13
TOTALS						13.65	18.55	51.58	82.40	0.57	5.21			140.70	312.09
INTEREST ON OPERATING CAPITAL															8.83
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															320.92

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Center Pivot Irrigated, Conventional, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
20	-100	-83	-66	-50	-33	-17	0
22	-90	-72	-54	-36	-18	0	18
24	-79	-59	-39	-20	0	20	39
27	-65	-43	-22	0	22	43	65
30	-48	-24	0	24	48	72	96
34	-27	0	27	54	81	109	136
38	0	31	62	93	124	156	187

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
27	-100	-83	-67	-50	-33	-17	0
30	-90	-72	-54	-36	-18	0	18
33	-79	-59	-40	-20	0	20	40
36	-65	-44	-22	0	22	44	65
40	-49	-24	0	24	49	73	97
45	-27	0	27	55	82	109	137
52	0	31	63	94	126	157	188

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
23	-100	-83	-66	-50	-33	-17	0
25	-90	-72	-54	-36	-18	0	18
27	-79	-59	-39	-20	0	20	39
30	-65	-43	-22	0	22	43	65
33	-48	-24	0	24	48	72	97
37	-27	0	27	54	82	109	136
43	0	31	62	94	125	156	187

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
26	-100	-83	-67	-50	-33	-17	0
28	-90	-72	-54	-36	-18	0	18
30	-79	-59	-39	-20	0	20	39
34	-65	-43	-22	0	22	43	65
37	-48	-24	0	24	48	73	97
42	-27	0	27	55	82	109	137
48	0	31	63	94	125	157	188

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

# Estimating 2008 Costs of Production Soybean, Full Season, Flood Irrigation, Conventional

AG-1105-12-07

**C. Robert Stark, Jr., Associate Professor-Agriculture Economics**  
**Jeremy Ross, Extension Agronomist - Soybeans**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.6964	6.59	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.19	0.1176	0.96	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.5877	17.69	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Flood Irr. - Soybean	gal	2.33	13.0000	30.29	_____
REPAIR & MAINTENANCE					
Implements	acre	3.96	1.0000	3.96	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Flood Irr. - Soybean	ac-in	0.15	13.0000	1.95	_____
INTEREST ON OP. CAP.	acre	8.27	1.0000	8.27	_____
				-----	
TOTAL DIRECT EXPENSES				220.64	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	22.19	1.0000	22.19	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Flood Irr. - Soybean	each	2993.11	0.0083	24.94	_____
				-----	
TOTAL FIXED EXPENSES				68.02	_____
				-----	
TOTAL SPECIFIED EXPENSES				288.66	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Flood Irrigation, Conventional, 2008**

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	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	May							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Cultivate	8R-30	MFWD 190	0.103	1.00	Jul	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Land Plane	50'x16'	MFWD 225	0.151	2.00	Jul	9.52	10.21	0.43	1.40	0.30	2.87				24.43
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Jul	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Jul										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Sep	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Sep										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Flood Irr. - Soybean	each			1.00	Jul				24.94			0.0083			24.94
Application 1	ac-in			1.00	Jul			9.92		0.03	0.30	4.0000			10.22
Application 2	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 3	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 4	ac-in			1.00	Sep			7.44		0.02	0.22	3.0000			7.66
TOTALS						25.98	31.77	36.20	36.25	1.03	9.49			140.70	280.39
INTEREST ON OPERATING CAPITAL															8.27
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															288.66

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.**

**Soybean, Full Season, Flood Irrigated, Conventional, 2008**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
21	-100	-83	-67	-50	-33	-17	0
22	-90	-72	-54	-36	-18	0	18
24	-79	-59	-39	-20	0	20	39
27	-65	-43	-22	0	22	43	65
30	-48	-24	0	24	48	72	97
34	-27	0	27	54	82	109	136
39	0	31	62	94	125	156	187

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
28	-100	-84	-67	-50	-33	-17	0
30	-91	-73	-54	-36	-18	0	18
33	-79	-59	-40	-20	0	20	40
36	-66	-44	-22	0	22	44	66
40	-49	-24	0	24	49	73	97
45	-27	0	27	55	82	110	137
52	0	32	63	95	126	157	189

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays 100% of Fixed Irrigation Expenses

**Tenant 90-10 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
23	-100	-83	-67	-50	-33	-17	0
25	-90	-72	-54	-36	-18	0	18
27	-79	-59	-39	-20	0	20	39
30	-65	-44	-22	0	22	44	65
33	-48	-24	0	24	48	73	97
37	-27	0	27	55	82	109	137
43	0	31	63	94	125	157	188

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
26	-100	-84	-67	-50	-33	-17	0
28	-91	-72	-54	-36	-18	0	18
31	-79	-59	-40	-20	0	20	40
34	-65	-44	-22	0	22	44	65
37	-49	-24	0	24	49	73	97
42	-27	0	27	55	82	110	137
49	0	31	63	94	126	157	189

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.