

Estimating 2009 Costs of Production
Soybean, Double Crop, Non-Irrigated, Roundup Ready

AG-1240-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	25.0000	5.50	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3279	3.58	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5306	9.17	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.34	1.0000	1.34	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	7.25	1.0000	7.25	_____
TOTAL DIRECT EXPENSES				233.10	_____
FIXED EXPENSES					
Implements	acre	10.76	1.0000	10.76	_____
Tractors	acre	10.45	1.0000	10.45	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				31.13	_____
TOTAL SPECIFIED EXPENSES				264.23	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Non-Irrigated, Roundup Ready, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				5.80
Soybean Seed RR	lbseed											60.0000	0.98	58.80	10.29
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	58.80
Glyphosate Plus	pt											2.0000	4.82	9.64	6.00
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	9.64
Glyphosate Plus	pt											2.0000	4.82	9.64	6.00
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	9.64
Folicur	oz											4.0000	2.00	8.00	7.50
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	8.00
Orthene 90S	lb											1.0000	8.50	8.50	7.50
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	6.00	6.00	8.50
Glyphosate Plus	pt											2.0000	4.82	9.64	6.00
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				9.64
Haul Soybeans	bu			1.00	Oct							25.0000	0.22	5.50	18.68
TOTALS						16.34	20.37	3.69	10.76	0.52	5.50			200.32	256.98
INTEREST ON OPERATING CAPITAL															7.25
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															264.23

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 Less Hauling and Producer Net Returns above Direct Expenses Less Hauling for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Double Crop, Non-Irrigated, Roundup Ready, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
21	-107	-89	-71	-54	-36	-18	0
23	-97	-78	-58	-39	-19	0	19
25	-85	-64	-42	-21	0	21	42
27	-70	-47	-23	0	23	47	70
31	-52	-26	0	26	52	78	104
35	-29	0	29	59	88	118	147
40	0	34	68	101	135	169	203

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
28	-108	-90	-72	-54	-36	-18	0
31	-98	-78	-59	-39	-20	0	20
34	-85	-64	-43	-21	0	21	43
37	-71	-47	-24	0	24	47	71
41	-53	-26	0	26	53	79	105
47	-30	0	30	59	89	119	149
54	0	34	68	103	137	171	205

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
23	-107	-90	-72	-54	-36	-18	0
25	-97	-78	-58	-39	-19	0	19
28	-85	-64	-42	-21	0	21	42
31	-70	-47	-23	0	23	47	70
34	-52	-26	0	26	52	78	104
39	-30	0	30	59	89	118	148
44	0	34	68	102	136	170	203

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-108	-90	-72	-54	-36	-18	0
29	-97	-78	-58	-39	-19	0	19
31	-85	-64	-43	-21	0	21	43
35	-71	-47	-24	0	24	47	71
39	-52	-26	0	26	52	79	105
44	-30	0	30	59	89	119	148
50	0	34	68	102	136	170	205

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Furrow Irrigation, Roundup Ready

AG-1241-11-08

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.5341	5.84	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.60	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	5.5478	14.41	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.46	1.0000	4.46	_____
Tractors	acre	2.16	1.0000	2.16	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	9.37	1.0000	9.37	_____
TOTAL DIRECT EXPENSES				298.25	_____
FIXED EXPENSES					
Implements	acre	13.46	1.0000	13.46	_____
Tractors	acre	16.83	1.0000	16.83	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				67.30	_____
TOTAL SPECIFIED EXPENSES				365.55	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Furrow Irrigation, Roundup Ready, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Jun	2.49	2.66	0.95	2.28	0.18	1.84				10.22
Soybean Seed RR Cultivate	lbseed 8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13	60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jun							1.0000	6.00	6.00	6.00
Cultivate	8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13	2.0000	4.82	9.64	9.64
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jul							1.0000	6.00	6.00	6.00
Cstm Ap Air Fung Folicur	acre oz			1.00	Jul							2.0000	4.82	9.64	9.64
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							1.0000	7.50	7.50	7.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Aug							1.0000	8.50	8.50	8.50
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11	1.0000	6.00	6.00	6.00
Haul Soybeans	bu			1.00	Oct							2.0000	4.82	9.64	9.64
Furrow Irr.	each			1.00	Jul							1.0000	7.50	7.50	7.50
Application 1	ac-in			1.00	Jul			8.36		0.07	0.65	4.0000	2.00	8.00	8.00
Application 2	ac-in			1.00	Jul			8.36		0.07	0.65	1.0000	7.50	7.50	7.50
Application 3	ac-in			1.00	Aug			8.36		0.07	0.65	1.0000	8.50	8.50	8.50
Application 4	ac-in			1.00	Aug			8.36		0.07	0.65	1.0000	6.00	6.00	6.00
TOTALS						22.40	26.75	37.90	40.55	1.03	10.36			218.22	356.18
INTEREST ON OPERATING CAPITAL															9.37
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															365.55

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

Soybean, Double Crop, Furrow Irrigated, Roundup Ready, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
27	-136	-113	-91	-68	-45	-23	0
29	-123	-98	-74	-49	-25	0	25
32	-107	-81	-54	-27	0	27	54
35	-89	-59	-30	0	30	59	89
39	-66	-33	0	33	66	99	132
44	-37	0	37	74	112	149	186
50	0	43	86	128	171	214	257

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
36	-137	-114	-91	-68	-46	-23	0
39	-124	-99	-74	-49	-25	0	25
42	-108	-81	-54	-27	0	27	54
47	-90	-60	-30	0	30	60	90
52	-67	-33	0	33	67	100	133
59	-38	0	38	75	113	151	188
68	0	43	87	130	173	217	260

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
30	-136	-113	-91	-68	-45	-23	0
32	-123	-98	-74	-49	-25	0	25
35	-108	-81	-54	-27	0	27	54
39	-89	-59	-30	0	30	59	89
43	-66	-33	0	33	66	99	132
49	-37	0	37	75	112	150	187
56	0	43	86	129	172	215	258

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
33	-136	-114	-91	-68	-45	-23	0
36	-123	-99	-74	-49	-25	0	25
40	-108	-81	-54	-27	0	27	54
44	-89	-60	-30	0	30	60	89
49	-66	-33	0	33	66	100	133
55	-38	0	38	75	113	150	188
64	0	43	86	130	173	216	259

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Soybean, Double Crop, Border Irrigation, Roundup Ready

AG-1242-11-08

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Jeremy Ross, Extension Agronomist - Soybeans
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3299	3.60	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Border Irr,	hour	8.60	0.1810	1.56	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5489	9.22	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Border Irr,	gal	2.60	9.0000	23.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.35	1.0000	1.35	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Border Irr,	ac-in	0.18	9.0000	1.68	_____
INTEREST ON OP. CAP.	acre	8.64	1.0000	8.64	_____
TOTAL DIRECT EXPENSES				279.11	_____
FIXED EXPENSES					
Implements	acre	10.78	1.0000	10.78	_____
Tractors	acre	10.51	1.0000	10.51	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Border Irr,	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				58.30	_____
TOTAL SPECIFIED EXPENSES				337.41	_____

*Soybean portion of Wheat/SB fertilizer

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OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	6.00	6.00	6.00
Potash (0-0-60)	lb.											100.0000	0.51	51.60	51.60
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.50	Jul	0.06	0.06		0.02	0.00	0.02				0.16
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Border Irr,	each			1.00	Jul										27.09
Application 1	ac-in			1.00	Jul			8.36		0.06	0.52				8.88
Application 2	ac-in			1.00	Aug			8.36		0.06	0.52				8.88
Application 3	ac-in			1.00	Aug			8.36		0.06	0.52				8.88
TOTALS						16.40	20.43	28.77	37.87	0.70	7.08			218.22	328.77
INTEREST ON OPERATING CAPITAL															8.64
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															337.41

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

Soybean, Double Crop, Border Irrigated, Roundup Ready, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
25	-127	-106	-85	-63	-42	-21	0
27	-115	-92	-69	-46	-23	0	23
29	-100	-75	-50	-25	0	25	50
33	-83	-55	-28	0	28	55	83
36	-62	-31	0	31	62	92	123
41	-35	0	35	70	104	139	174
47	0	40	80	120	160	200	240

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
33	-128	-106	-85	-64	-43	-21	0
36	-115	-92	-69	-46	-23	0	23
40	-101	-76	-51	-25	0	25	51
44	-84	-56	-28	0	28	56	84
49	-62	-31	0	31	62	93	124
55	-35	0	35	70	106	141	176
63	0	40	81	121	162	202	243

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
28	-127	-106	-85	-64	-42	-21	0
30	-115	-92	-69	-46	-23	0	23
33	-101	-75	-50	-25	0	25	50
36	-83	-55	-28	0	28	55	83
40	-62	-31	0	31	62	93	124
46	-35	0	35	70	105	140	175
52	0	40	80	120	160	201	241

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
31	-127	-106	-85	-64	-42	-21	0
34	-115	-92	-69	-46	-23	0	23
37	-101	-76	-50	-25	0	25	50
41	-83	-56	-28	0	28	56	83
46	-62	-31	0	31	62	93	124
52	-35	0	35	70	105	140	175
59	0	40	81	121	161	202	242

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Center Pivot, Roundup Ready

AG-1243-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3279	3.58	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5306	9.17	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Center pivot Irr.	gal	2.60	14.0000	36.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.34	1.0000	1.34	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	7.0000	10.43	_____
INTEREST ON OP. CAP.	acre	8.81	1.0000	8.81	_____

TOTAL DIRECT EXPENSES				286.38	_____
FIXED EXPENSES					
Implements	acre	10.76	1.0000	10.76	_____
Tractors	acre	10.45	1.0000	10.45	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____

TOTAL FIXED EXPENSES				111.39	_____

TOTAL SPECIFIED EXPENSES				397.77	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Center Pivot, Roundup Ready, 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-----			
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	6.00	6.00	6.00
Potash (0-0-60)	lb.											100.0000	0.51	51.60	51.60
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Center pivot Irr.	each			1.00	Jul				80.26			0.0083			80.26
Application 1	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Sep			6.69		0.00	0.07	1.0000			6.76
TOTALS						16.34	20.37	50.52	91.02	0.58	5.99			204.72	388.96
INTEREST ON OPERATING CAPITAL															8.81
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															397.77

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Soybean, Double Crop, Center Pivot Irrigated, Roundup Ready, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-130	-108	-87	-65	-43	-22	0
28	-118	-94	-71	-47	-24	0	24
30	-103	-77	-51	-26	0	26	51
33	-85	-57	-28	0	28	57	85
37	-63	-32	0	32	63	95	127
42	-36	0	36	71	107	143	179
48	0	41	82	123	164	205	246

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
34	-131	-109	-87	-66	-44	-22	0
37	-119	-95	-71	-47	-24	0	24
41	-104	-78	-52	-26	0	26	52
45	-86	-57	-29	0	29	57	86
50	-64	-32	0	32	64	96	128
57	-36	0	36	72	108	144	181
65	0	42	83	125	166	208	249

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
28	-130	-109	-87	-65	-43	-22	0
31	-118	-94	-71	-47	-24	0	24
34	-103	-77	-52	-26	0	26	52
37	-85	-57	-28	0	28	57	85
41	-63	-32	0	32	63	95	127
47	-36	0	36	72	108	143	179
54	0	41	82	124	165	206	247

Landowner Receives 10% of the Crop

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Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
32	-131	-109	-87	-65	-44	-22	0
35	-118	-95	-71	-47	-24	0	24
38	-104	-78	-52	-26	0	26	52
42	-86	-57	-29	0	29	57	86
47	-64	-32	0	32	64	96	127
53	-36	0	36	72	108	144	180
61	0	41	83	124	166	207	248

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Flood Irrigation, Roundup Ready

AG-1244-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics

Jeremy Ross, Extension Agronomist - Soybeans

UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	3.0000	18.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.6343	6.92	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.60	0.0905	0.77	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	7.0693	18.36	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	10.0000	26.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.14	1.0000	4.14	_____
Tractors	acre	2.73	1.0000	2.73	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	10.0000	1.60	_____
INTEREST ON OP. CAP.	acre	8.68	1.0000	8.68	_____
TOTAL DIRECT EXPENSES				281.67	_____
FIXED EXPENSES					
Implements	acre	12.29	1.0000	12.29	_____
Tractors	acre	21.29	1.0000	21.29	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				70.59	_____
TOTAL SPECIFIED EXPENSES				352.26	_____

*Soybean portion of Wheat/SB fertilizer

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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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Land Plane	50'x16'	MFWD 225	0.151	2.00	Jul	10.52	10.75	0.45	1.50	0.30	3.31				26.53
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Jul	0.01	0.02		0.01	0.00	0.01				0.05
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Aug	0.01	0.02		0.01	0.00	0.01				0.05
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Sep	0.01	0.02		0.01	0.00	0.01				0.05
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	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Flood Irr. - Soybean	each			1.00	Jul					27.09		0.0083			27.09
Application 1	ac-in			1.00	Jul			11.04		0.03	0.31	4.0000			11.35
Application 2	ac-in			1.00	Aug			8.28		0.02	0.23	3.0000			8.51
Application 3	ac-in			1.00	Sep			8.28		0.02	0.23	3.0000			8.51
TOTALS						26.92	31.21	31.74	39.38	0.92	9.61			204.72	343.58
INTEREST ON OPERATING CAPITAL															8.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															352.26

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Soybean, Double Crop, Flood Irrigated, Roundup Ready, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
25	-128	-107	-85	-64	-43	-21	0
27	-116	-93	-69	-46	-23	0	23
30	-101	-76	-51	-25	0	25	51
33	-84	-56	-28	0	28	56	84
37	-62	-31	0	31	62	93	124
41	-35	0	35	70	105	140	176
47	0	40	81	121	161	202	242

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
34	-129	-107	-86	-64	-43	-21	0
37	-117	-93	-70	-47	-23	0	23
40	-102	-77	-51	-26	0	26	51
44	-84	-56	-28	0	28	56	84
49	-63	-31	0	31	63	94	126
56	-36	0	36	71	107	142	178
64	0	41	82	123	163	204	245

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
28	-128	-107	-86	-64	-43	-21	0
30	-116	-93	-70	-46	-23	0	23
33	-101	-76	-51	-25	0	25	51
37	-84	-56	-28	0	28	56	84
41	-62	-31	0	31	62	94	125
46	-35	0	35	70	106	141	176
53	0	40	81	121	162	202	243

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
32	-129	-107	-86	-64	-43	-21	0
34	-116	-93	-70	-47	-23	0	23
37	-102	-76	-51	-25	0	25	51
41	-84	-56	-28	0	28	56	84
46	-63	-31	0	31	63	94	125
52	-35	0	35	71	106	142	177
60	0	41	81	122	163	204	244

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production
Soybean, Double Crop, Non-Irrigated, Conventional

AG-1245-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Dual II Magnum	pt	13.15	1.5000	19.73	_____
Canopy SP	oz	6.20	3.0000	18.60	_____
Storm	pt	10.00	1.0000	10.00	_____
Select 2EC	oz	1.65	4.0000	6.60	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Conventional	lbseed	0.61	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	25.0000	5.50	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3279	3.58	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5306	9.17	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.34	1.0000	1.34	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	7.52	1.0000	7.52	_____
TOTAL DIRECT EXPENSES				239.40	_____
FIXED EXPENSES					
Implements	acre	10.76	1.0000	10.76	_____
Tractors	acre	10.45	1.0000	10.45	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				31.13	_____
TOTAL SPECIFIED EXPENSES				270.53	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Non-Irrigated, Conventional, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Conventional lbseed												60.0000	0.61	36.60	36.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Storm	pt											1.0000	10.00	10.00	10.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							25.0000	0.22	5.50	5.50
TOTALS						16.34	20.37	3.69	10.76	0.52	5.50			206.35	263.01
INTEREST ON OPERATING CAPITAL															7.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															270.53

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 Less Hauling and Producer Net Returns above Direct Expenses Less Hauling for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Double Crop, Non-Irrigated, Conventional, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
22	-110	-92	-73	-55	-37	-18	0
23	-100	-80	-60	-40	-20	0	20
26	-87	-65	-44	-22	0	22	44
28	-72	-48	-24	0	24	48	72
31	-54	-27	0	27	54	80	107
36	-30	0	30	60	91	121	151
41	0	35	69	104	139	173	208

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
29	-111	-92	-74	-55	-37	-18	0
31	-100	-80	-60	-40	-20	0	20
34	-88	-66	-44	-22	0	22	44
38	-73	-48	-24	0	24	48	73
42	-54	-27	0	27	54	81	108
48	-31	0	31	61	92	122	153
55	0	35	70	105	141	176	211

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
24	-110	-92	-74	-55	-37	-18	0
26	-100	-80	-60	-40	-20	0	20
29	-87	-66	-44	-22	0	22	44
31	-72	-48	-24	0	24	48	72
35	-54	-27	0	27	54	81	107
40	-30	0	30	61	91	121	152
46	0	35	70	105	139	174	209

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
27	-111	-92	-74	-55	-37	-18	0
29	-100	-80	-60	-40	-20	0	20
32	-88	-66	-44	-22	0	22	44
36	-73	-48	-24	0	24	48	73
40	-54	-27	0	27	54	81	108
45	-30	0	30	61	91	122	152
52	0	35	70	105	140	175	210

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Furrow Irrigation, Conventional

AG-1246-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Dual II Magnum	pt	13.15	1.5000	19.73	_____
Canopy SP	oz	6.20	3.0000	18.60	_____
Storm	pt	10.00	1.0000	10.00	_____
Select 2EC	oz	1.65	4.0000	6.60	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Soybean Conventional	lbseed	0.61	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.5341	5.84	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.60	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	5.5478	14.41	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.46	1.0000	4.46	_____
Tractors	acre	2.16	1.0000	2.16	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	9.64	1.0000	9.64	_____
TOTAL DIRECT EXPENSES				304.55	_____
FIXED EXPENSES					
Implements	acre	13.46	1.0000	13.46	_____
Tractors	acre	16.83	1.0000	16.83	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				67.30	_____
TOTAL SPECIFIED EXPENSES				371.85	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Furrow Irrigation, Conventional, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Jun	2.49	2.66	0.95	2.28	0.18	1.84				10.22
Soybean Conventional Cultivate	lbseed 8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13	60.0000	0.61	36.60	36.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Cultivate	8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13				9.12
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Storm	pt											1.0000	10.00	10.00	10.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Furrow Irr.	each			1.00	Jul										27.09
Application 1	ac-in			1.00	Jul										9.01
Application 2	ac-in			1.00	Jul										9.01
Application 3	ac-in			1.00	Aug										9.01
Application 4	ac-in			1.00	Aug										9.01
TOTALS						22.40	26.75	37.90	40.55	1.03	10.36			224.25	362.21
INTEREST ON OPERATING CAPITAL															9.64
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															371.85

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

Soybean, Double Crop, Furrow Irrigated, Conventional, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
27	-139	-116	-93	-69	-46	-23	0
30	-125	-100	-75	-50	-25	0	25
32	-110	-82	-55	-27	0	27	55
36	-91	-60	-30	0	30	60	91
40	-67	-34	0	34	67	101	135
45	-38	0	38	76	114	152	190
51	0	44	87	131	175	219	262

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
37	-140	-116	-93	-70	-47	-23	0
40	-126	-101	-76	-51	-25	0	25
43	-111	-83	-55	-28	0	28	55
48	-92	-61	-31	0	31	61	92
53	-68	-34	0	34	68	102	136
60	-38	0	38	77	115	154	192
69	0	44	89	133	177	221	266

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
30	-139	-116	-93	-70	-46	-23	0
33	-126	-101	-75	-50	-25	0	25
36	-110	-83	-55	-28	0	28	55
40	-91	-61	-30	0	30	61	91
44	-68	-34	0	34	68	101	135
50	-38	0	38	76	115	153	191
57	0	44	88	132	176	219	263

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
34	-139	-116	-93	-70	-46	-23	0
37	-126	-101	-76	-50	-25	0	25
41	-110	-83	-55	-28	0	28	55
45	-91	-61	-30	0	30	61	91
50	-68	-34	0	34	68	102	136
56	-38	0	38	77	115	154	192
65	0	44	88	132	177	221	265

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Border Irrigation, Conventional

AG-1247-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Dual II Magnum	pt	13.15	1.5000	19.73	_____
Canopy SP	oz	6.20	3.0000	18.60	_____
Storm	pt	10.00	1.0000	10.00	_____
Select 2EC	oz	1.65	4.0000	6.60	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Soybean Conventional	lbseed	0.61	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3299	3.60	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Border Irr,	hour	8.60	0.1810	1.56	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5489	9.22	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Border Irr,	gal	2.60	9.0000	23.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.35	1.0000	1.35	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Border Irr,	ac-in	0.18	9.0000	1.68	_____
INTEREST ON OP. CAP.	acre	8.91	1.0000	8.91	_____
TOTAL DIRECT EXPENSES				285.41	_____
FIXED EXPENSES					
Implements	acre	10.78	1.0000	10.78	_____
Tractors	acre	10.51	1.0000	10.51	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Border Irr,	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				58.30	_____
TOTAL SPECIFIED EXPENSES				343.71	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Border Irrigation, Conventional, 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-----			
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	6.00	6.00	6.00
Potash (0-0-60)	lb.											100.0000	0.51	51.60	51.60
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Conventional lbseed												60.0000	0.61	36.60	36.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.50	Jul	0.06	0.06		0.02	0.00	0.02				0.16
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Storm	pt											1.0000	10.00	10.00	10.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Border Irr,	each			1.00	Jul				27.09			0.0083			27.09
Application 1	ac-in			1.00	Jul			8.36		0.06	0.52	3.0000			8.88
Application 2	ac-in			1.00	Aug			8.36		0.06	0.52	3.0000			8.88
Application 3	ac-in			1.00	Aug			8.36		0.06	0.52	3.0000			8.88
TOTALS						16.40	20.43	28.77	37.87	0.70	7.08			224.25	334.80
INTEREST ON OPERATING CAPITAL															8.91
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															343.71

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 Less Hauling and Producer Net Returns above Direct Expenses Less Hauling for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Double Crop, Border Irrigated, Conventional, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
25	-130	-108	-86	-65	-43	-22	0
28	-117	-94	-70	-47	-23	0	23
30	-103	-77	-51	-26	0	26	51
33	-85	-57	-28	0	28	57	85
37	-63	-32	0	32	63	95	126
42	-36	0	36	71	107	142	178
48	0	41	82	123	163	204	245

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
34	-131	-109	-87	-65	-44	-22	0
37	-118	-95	-71	-47	-24	0	24
41	-103	-78	-52	-26	0	26	52
45	-86	-57	-29	0	29	57	86
50	-64	-32	0	32	64	95	127
56	-36	0	36	72	108	144	180
65	0	41	83	124	166	207	248

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
28	-130	-108	-87	-65	-43	-22	0
31	-118	-94	-71	-47	-24	0	24
34	-103	-77	-51	-26	0	26	51
37	-85	-57	-28	0	28	57	85
41	-63	-32	0	32	63	95	126
47	-36	0	36	71	107	143	179
54	0	41	82	123	164	205	246

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
32	-130	-109	-87	-65	-43	-22	0
35	-118	-94	-71	-47	-24	0	24
38	-103	-77	-52	-26	0	26	52
42	-85	-57	-28	0	28	57	85
47	-64	-32	0	32	64	95	127
53	-36	0	36	72	108	144	179
61	0	41	83	124	165	206	248

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Center Pivot, Conventional

AG-1248-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics

Jeremy Ross, Extension Agronomist - Soybeans

UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Dual II Magnum	pt	13.15	1.5000	19.73	_____
Canopy SP	oz	6.20	3.0000	18.60	_____
Storm	pt	10.00	1.0000	10.00	_____
Select 2EC	oz	1.65	4.0000	6.60	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Conventional	lbseed	0.61	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3279	3.58	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.5306	9.17	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Center pivot Irr.	gal	2.60	14.0000	36.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.34	1.0000	1.34	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	7.0000	10.43	_____
INTEREST ON OP. CAP.	acre	9.08	1.0000	9.08	_____
TOTAL DIRECT EXPENSES				292.68	_____
FIXED EXPENSES					
Implements	acre	10.76	1.0000	10.76	_____
Tractors	acre	10.45	1.0000	10.45	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____
TOTAL FIXED EXPENSES				111.39	_____
TOTAL SPECIFIED EXPENSES				404.07	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Center Pivot, Conventional, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Conventional lbseed												60.0000	0.61	36.60	36.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Storm	pt											1.0000	10.00	10.00	10.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Center pivot Irr.	each			1.00	Jul				80.26			0.0083			80.26
Application 1	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Sep			6.69		0.00	0.07	1.0000			6.76
TOTALS						16.34	20.37	50.52	91.02	0.58	5.99			210.75	394.99
INTEREST ON OPERATING CAPITAL															9.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															404.07

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

Soybean, Double Crop, Center Pivot Irrigated, Conventional, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-133	-111	-89	-67	-44	-22	0
28	-120	-96	-72	-48	-24	0	24
31	-105	-79	-53	-26	0	26	53
34	-87	-58	-29	0	29	58	87
38	-65	-32	0	32	65	97	129
43	-37	0	37	73	110	146	183
49	0	42	84	126	168	210	252

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
35	-134	-112	-89	-67	-45	-22	0
38	-121	-97	-73	-49	-24	0	24
42	-106	-80	-53	-27	0	27	53
46	-88	-59	-29	0	29	59	88
51	-65	-33	0	33	65	98	131
58	-37	0	37	74	111	148	185
67	0	42	85	127	170	212	255

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
29	-133	-111	-89	-67	-44	-22	0
32	-121	-97	-72	-48	-24	0	24
35	-106	-79	-53	-26	0	26	53
38	-87	-58	-29	0	29	58	87
42	-65	-32	0	32	65	97	130
48	-37	0	37	73	110	147	183
55	0	42	84	126	169	211	253

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
33	-134	-112	-89	-67	-45	-22	0
36	-121	-97	-73	-48	-24	0	24
39	-106	-79	-53	-26	0	26	53
43	-88	-58	-29	0	29	58	88
48	-65	-33	0	33	65	98	130
54	-37	0	37	74	111	147	184
62	0	42	85	127	169	212	254

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production Soybean, Double Crop, Flood Irrigation, Conventional

AG-1249-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Dual II Magnum	pt	13.15	1.5000	19.73	_____
Canopy SP	oz	6.20	3.0000	18.60	_____
Storm	pt	10.00	1.0000	10.00	_____
Select 2EC	oz	1.65	4.0000	6.60	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Conventional	lbseed	0.61	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.6343	6.92	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.60	0.0905	0.77	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	7.0693	18.36	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	10.0000	26.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.14	1.0000	4.14	_____
Tractors	acre	2.73	1.0000	2.73	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	10.0000	1.60	_____
INTEREST ON OP. CAP.	acre	8.95	1.0000	8.95	_____
TOTAL DIRECT EXPENSES				287.97	_____
FIXED EXPENSES					
Implements	acre	12.29	1.0000	12.29	_____
Tractors	acre	21.29	1.0000	21.29	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				70.59	_____
TOTAL SPECIFIED EXPENSES				358.56	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Flood Irrigation, Conventional, 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-----			
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	6.00	6.00	6.00
Potash (0-0-60)	lb.											100.0000	0.51	51.60	51.60
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53				16.09
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.43	2.18	1.12	2.72	0.18	1.84				10.29
Soybean Conventional lbseed												60.0000	0.61	36.60	36.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Land Plane	50'x16'	MFWD 225	0.151	2.00	Jul	10.52	10.75	0.45	1.50	0.30	3.31				26.53
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Jul	0.01	0.02		0.01	0.00	0.01				0.05
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Storm	pt											1.0000	10.00	10.00	10.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Aug	0.01	0.02		0.01	0.00	0.01				0.05
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Sep	0.01	0.02		0.01	0.00	0.01				0.05
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	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Flood Irr. - Soybean	each			1.00	Jul					27.09		0.0083			27.09
Application 1	ac-in			1.00	Jul			11.04		0.03	0.31	4.0000			11.35
Application 2	ac-in			1.00	Aug			8.28		0.02	0.23	3.0000			8.51
Application 3	ac-in			1.00	Sep			8.28		0.02	0.23	3.0000			8.51
TOTALS						26.92	31.21	31.74	39.38	0.92	9.61			210.75	349.61
INTEREST ON OPERATING CAPITAL															8.95
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															358.56

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

Soybean, Double Crop, Flood Irrigated, Conventional, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-131	-109	-87	-65	-44	-22	0
28	-118	-95	-71	-47	-24	0	24
30	-104	-78	-52	-26	0	26	52
34	-86	-57	-29	0	29	57	86
37	-64	-32	0	32	64	95	127
42	-36	0	36	72	108	144	180
49	0	41	82	124	165	206	247

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
34	-132	-110	-88	-66	-44	-22	0
37	-119	-95	-72	-48	-24	0	24
41	-104	-78	-52	-26	0	26	52
45	-86	-58	-29	0	29	58	86
50	-64	-32	0	32	64	96	129
57	-36	0	36	73	109	145	182
66	0	42	84	125	167	209	251

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
29	-131	-109	-87	-66	-44	-22	0
31	-119	-95	-71	-47	-24	0	24
34	-104	-78	-52	-26	0	26	52
37	-86	-57	-29	0	29	57	86
42	-64	-32	0	32	64	96	128
47	-36	0	36	72	108	144	180
54	0	41	83	124	166	207	249

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
32	-132	-110	-88	-66	-44	-22	0
35	-119	-95	-71	-48	-24	0	24
38	-104	-78	-52	-26	0	26	52
42	-86	-57	-29	0	29	57	86
47	-64	-32	0	32	64	96	128
53	-36	0	36	72	109	145	181
61	0	42	83	125	167	208	250

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production
Soybean, Double Crop, Non-Irrigated, Roundup Ready, No-Till

AG-1250-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Flexstar HL	pt	13.78	0.2500	3.45	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	25.0000	5.50	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.0982	1.07	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.0982	0.84	_____
DIESEL FUEL					
Tractors	gal	2.60	0.8593	2.23	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	2.39	1.0000	2.39	_____
Tractors	acre	0.36	1.0000	0.36	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	6.51	1.0000	6.51	_____
TOTAL DIRECT EXPENSES				208.47	_____
FIXED EXPENSES					
Implements	acre	5.44	1.0000	5.44	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				18.13	_____
TOTAL SPECIFIED EXPENSES				226.60	_____

*Soybean portion of Wheat/SB fertilizer

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View or print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Non-Irrigated, No-Till, Roundup Ready, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
NT Grain Drill	20'	MFWD 170	0.098	1.00	Jun	2.59	2.77	1.76	4.25	0.19	1.91	100.0000	0.51	51.60	51.60
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jun							1.0000	6.00	6.00	6.00
Cstm Ap Air Fung Folicur	acre oz			1.00	Jun							2.0000	4.82	9.64	9.64
Cstm Ap Air Fung Folicur	acre oz			1.00	Jun							1.0000	7.50	7.50	7.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jul							4.0000	2.00	8.00	8.00
Cstm Ap Grd. Herb Flexstar HL	acre pt			1.00	Jul							1.0000	6.00	6.00	6.00
Cstm Ap Grd. Herb Flexstar HL	acre pt			1.00	Jul							2.0000	4.82	9.64	9.64
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							0.2500	13.78	3.45	3.45
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							1.0000	7.50	7.50	7.50
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11	1.0000	8.50	8.50	8.50
Haul Soybeans	bu			1.00	Oct							25.0000	0.22	5.50	5.50
TOTALS						8.42	12.69	2.39	5.44	0.29	3.02			188.13	220.09
INTEREST ON OPERATING CAPITAL															6.51
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															226.60

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 Less Hauling and Producer Net Returns above Direct Expenses Less Hauling for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Double Crop, Non-Irrigated, Roundup Ready, No-Till, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
19	-96	-80	-64	-48	-32	-16	0
20	-86	-69	-52	-35	-17	0	17
22	-76	-57	-38	-19	0	19	38
25	-63	-42	-21	0	21	42	63
27	-46	-23	0	23	46	70	93
31	-26	0	26	52	79	105	131
35	0	30	60	90	120	151	181

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
25	-96	-80	-64	-48	-32	-16	0
27	-87	-70	-52	-35	-17	0	17
30	-76	-57	-38	-19	0	19	38
33	-63	-42	-21	0	21	42	63
37	-47	-23	0	23	47	70	94
42	-27	0	27	53	80	106	133
48	0	30	61	91	122	152	183

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
21	-96	-80	-64	-48	-32	-16	0
23	-87	-69	-52	-35	-17	0	17
25	-76	-57	-38	-19	0	19	38
27	-63	-42	-21	0	21	42	63
30	-47	-23	0	23	47	70	93
34	-26	0	26	53	79	105	132
40	0	30	60	91	121	151	181

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
24	-96	-80	-64	-48	-32	-16	0
26	-87	-70	-52	-35	-17	0	17
28	-76	-57	-38	-19	0	19	38
31	-63	-42	-21	0	21	42	63
34	-47	-23	0	23	47	70	94
39	-26	0	26	53	79	106	132
45	0	30	61	91	122	152	182

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production
Soybean, Double Crop, Furrow Irrigation, Roundup Ready, No-Till

AG-1251-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Flexstar HL	pt	13.78	0.2500	3.45	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.0942	1.03	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3017	2.60	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	0.8250	2.15	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	1.75	1.0000	1.75	_____
Tractors	acre	0.34	1.0000	0.34	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	8.21	1.0000	8.21	_____
TOTAL DIRECT EXPENSES				263.30	_____
FIXED EXPENSES					
Implements	acre	3.91	1.0000	3.91	_____
Tractors	acre	2.66	1.0000	2.66	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				43.58	_____
TOTAL SPECIFIED EXPENSES				306.88	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Furrow Irrigation, No-Till, Roundup Ready, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jun							1.0000	6.00	6.00	6.00
Grain Drill Soybean Seed RR	20' lbseed	MFWD 170	0.094	1.00	Jun	2.49	2.66	1.12	2.72	0.18	1.84	2.0000	4.82	9.64	9.64
Cstm Ap Air Fung Folicur	acre oz			1.00	Jun							60.0000	0.98	58.80	58.80
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							2.0000	6.00	6.00	6.00
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11	0.2500	13.78	3.45	3.45
Haul Soybeans	bu			1.00	Oct							1.0000	7.50	7.50	7.50
Furrow Irr.	each			1.00	Jul							1.0000	8.50	8.50	8.50
Application 1	ac-in			1.00	Jul							1.0000	8.50	8.50	8.50
Application 2	ac-in			1.00	Jul							1.0000	8.50	8.50	8.50
Application 3	ac-in			1.00	Aug							1.0000	8.50	8.50	8.50
Application 4	ac-in			1.00	Aug							1.0000	8.50	8.50	8.50
TOTALS						8.32	12.58	35.19	31.00	0.59	5.55			206.03	298.67
INTEREST ON OPERATING CAPITAL															8.21
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															306.88

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

Soybean, Double Crop, Furrow Irrigated, Roundup Ready, No-Till, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
23	-119	-99	-80	-60	-40	-20	0
25	-108	-86	-65	-43	-22	0	22
28	-94	-71	-47	-24	0	24	47
31	-78	-52	-26	0	26	52	78
34	-58	-29	0	29	58	87	116
39	-33	0	33	65	98	131	164
44	0	38	75	113	150	188	226

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
31	-120	-100	-80	-60	-40	-20	0
34	-109	-87	-65	-43	-22	0	22
37	-95	-71	-48	-24	0	24	48
41	-79	-52	-26	0	26	52	79
46	-59	-29	0	29	59	88	117
52	-33	0	33	66	99	132	166
60	0	38	76	114	152	190	228

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-120	-100	-80	-60	-40	-20	0
28	-108	-87	-65	-43	-22	0	22
31	-95	-71	-47	-24	0	24	47
34	-78	-52	-26	0	26	52	78
38	-58	-29	0	29	58	87	116
43	-33	0	33	66	99	131	164
49	0	38	76	113	151	189	227

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
29	-120	-100	-80	-60	-40	-20	0
32	-109	-87	-65	-43	-22	0	22
35	-95	-71	-47	-24	0	24	47
39	-79	-52	-26	0	26	52	79
43	-58	-29	0	29	58	88	117
49	-33	0	33	66	99	132	165
56	0	38	76	114	152	190	228

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Estimating 2009 Costs of Production
Soybean, Double Crop, Center Pivot, Roundup Ready, No-Till

AG-1252-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
FUNGICIDES					
Folicur	oz	2.00	4.0000	8.00	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Flexstar HL	pt	13.78	0.2500	3.45	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Fung	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	45.0000	9.90	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.0982	1.07	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Center pivot Irr.	hour	8.60	0.0568	0.49	_____
HAND LABOR					
Implements	hour	8.60	0.0982	0.84	_____
DIESEL FUEL					
Tractors	gal	2.60	0.8593	2.23	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Center pivot Irr.	gal	2.60	14.0000	36.40	_____
REPAIR & MAINTENANCE					
Implements	acre	2.39	1.0000	2.39	_____
Tractors	acre	0.36	1.0000	0.36	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	7.0000	10.43	_____
INTEREST ON OP. CAP.	acre	8.07	1.0000	8.07	_____
TOTAL DIRECT EXPENSES				261.75	_____
FIXED EXPENSES					
Implements	acre	5.44	1.0000	5.44	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____
TOTAL FIXED EXPENSES				98.39	_____
TOTAL SPECIFIED EXPENSES				360.14	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Center Pivot, No-Till, Roundup Ready, 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-----			
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	6.00	6.00	6.00
Potash (0-0-60)	lb.											100.0000	0.51	51.60	51.60
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
NT Grain Drill	20'	MFWD 170	0.098	1.00	Jun	2.59	2.77	1.76	4.25	0.19	1.91				13.28
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Flexstar HL	pt											0.2500	13.78	3.45	3.45
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Oct							45.0000	0.22	9.90	9.90
Center pivot Irr.	each			1.00	Jul				80.26			0.0083			80.26
Application 1	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Sep			6.69		0.00	0.07	1.0000			6.76
TOTALS						8.42	12.69	49.22	85.70	0.35	3.51			192.53	352.07
INTEREST ON OPERATING CAPITAL															8.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															360.14

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 Less Hauling and Producer Net Returns above Direct Expenses Less Hauling for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Double Crop, Center Pivot, Roundup Ready, No-Till, 2009

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
23	-119	-99	-79	-59	-40	-20	0
25	-107	-86	-64	-43	-21	0	21
28	-94	-70	-47	-23	0	23	47
30	-78	-52	-26	0	26	52	78
34	-58	-29	0	29	58	86	115
38	-33	0	33	65	98	130	163
44	0	37	75	112	149	187	224

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
31	-119	-100	-80	-60	-40	-20	0
34	-108	-86	-65	-43	-22	0	22
37	-95	-71	-47	-24	0	24	47
41	-78	-52	-26	0	26	52	78
46	-58	-29	0	29	58	87	116
52	-33	0	33	66	99	132	165
59	0	38	76	114	151	189	227

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 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
26	-119	-99	-79	-59	-40	-20	0
28	-108	-86	-65	-43	-22	0	22
31	-94	-71	-47	-24	0	24	47
34	-78	-52	-26	0	26	52	78
38	-58	-29	0	29	58	87	116
43	-33	0	33	65	98	131	163
49	0	38	75	113	150	188	225

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.95	6.80	7.65	8.50	9.35	10.20	11.05
	Net Returns above Variable Costs (\$/acre)						
29	-119	-99	-79	-60	-40	-20	0
32	-108	-86	-65	-43	-22	0	22
35	-94	-71	-47	-24	0	24	47
38	-78	-52	-26	0	26	52	78
43	-58	-29	0	29	58	87	116
48	-33	0	33	66	98	131	164
55	0	38	75	113	151	189	226

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.