

Estimating 2009 Costs of Production

Soybean, Early Season, Non-Irrigated, Roundup Ready

AG-1218-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.3064	3.35	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.3665	8.74	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.30	1.0000	1.30	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	9.82	1.0000	9.82	_____
TOTAL DIRECT EXPENSES				258.53	_____
FIXED EXPENSES					
Implements	acre	11.54	1.0000	11.54	_____
Tractors	acre	10.16	1.0000	10.16	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				31.62	_____
TOTAL SPECIFIED EXPENSES				290.15	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----				
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77					8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51					5.80
Cstm Ap Air Fert	acre			1.00	Apr								1.0000	7.50	7.50	7.50
0-18-36	lb												200.0000	0.52	104.80	104.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51					5.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84					12.23
Soybean Seed RR	lbseed												60.0000	0.98	58.80	58.80
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02					0.08
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51					5.80
Cstm Ap Grd. Herb	acre			1.00	May								1.0000	6.00	6.00	6.00
Glyphosate Plus	pt												2.0000	4.82	9.64	9.64
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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11					18.68
Haul Soybeans	bu			1.00	Aug								25.0000	0.22	5.50	5.50
TOTALS						15.87	20.08	3.69	11.54	0.50	5.27				223.88	280.33
INTEREST ON OPERATING CAPITAL																9.82
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																290.15

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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, Early Season, 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)						
23	-119	-99	-79	-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
38	-33	0	33	65	98	131	163
44	0	38	75	113	150	188	225

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	-47	-24	0	24	47
41	-79	-52	-26	0	26	52	79
46	-58	-29	0	29	58	88	117
52	-33	0	33	66	99	132	165
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	-119	-100	-80	-60	-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	66	98	131	164
49	0	38	75	113	151	188	226

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
38	-78	-52	-26	0	26	52	78
43	-58	-29	0	29	58	87	117
48	-33	0	33	66	99	132	165
56	0	38	76	114	152	189	227

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, Early Season, Furrow Irrigation, Roundup Ready

AG-1219-11-08

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.4439	4.85	_____
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	4.9589	12.88	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.73	1.0000	4.73	_____
Tractors	acre	1.92	1.0000	1.92	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	11.43	1.0000	11.43	_____

TOTAL DIRECT EXPENSES				321.38	_____
FIXED EXPENSES					
Implements	acre	14.98	1.0000	14.98	_____
Tractors	acre	15.04	1.0000	15.04	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____

TOTAL FIXED EXPENSES				67.03	_____

TOTAL SPECIFIED EXPENSES				388.41	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Furrow Irr.	each			1.00	Jun						27.09	0.0083			27.09
Application 1	ac-in			1.00	Jun			8.36		0.07	0.65	3.0000			9.01
Application 2	ac-in			1.00	Jun			8.36		0.07	0.65	3.0000			9.01
Application 3	ac-in			1.00	Jul			8.36		0.07	0.65	3.0000			9.01
Application 4	ac-in			1.00	Jul			8.36		0.07	0.65	3.0000			9.01
TOTALS						20.63	24.96	38.17	42.07	0.94	9.37			241.78	376.98
INTEREST ON OPERATING CAPITAL															11.43
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															388.41

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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, Early Season, 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)						
29	-147	-122	-98	-73	-49	-24	0
31	-133	-106	-80	-53	-27	0	27
34	-116	-87	-58	-29	0	29	58
38	-96	-64	-32	0	32	64	96
42	-71	-36	0	36	71	107	143
47	-40	0	40	80	121	161	201
54	0	46	92	139	185	231	277

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)						
39	-148	-123	-98	-74	-49	-25	0
42	-134	-107	-80	-53	-27	0	27
46	-117	-88	-58	-29	0	29	58
51	-97	-65	-32	0	32	65	97
56	-72	-36	0	36	72	108	144
64	-41	0	41	81	122	163	203
73	0	47	94	140	187	234	281

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)						
32	-147	-123	-98	-74	-49	-25	0
35	-133	-106	-80	-53	-27	0	27
38	-116	-87	-58	-29	0	29	58
42	-96	-64	-32	0	32	64	96
47	-72	-36	0	36	72	107	143
53	-40	0	40	81	121	162	202
61	0	46	93	139	186	232	278

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)						
36	-147	-123	-98	-74	-49	-25	0
39	-133	-107	-80	-53	-27	0	27
43	-117	-88	-58	-29	0	29	58
47	-97	-64	-32	0	32	64	97
53	-72	-36	0	36	72	108	144
60	-41	0	41	81	122	162	203
69	0	47	93	140	187	233	280

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, Early Season, Border Irrigation, Roundup Ready

AG-1220-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist – Soybeans
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.3085	3.37	_____
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	3.3847	8.79	_____
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	1.31	1.0000	1.31	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Border Irr,	ac-in	0.18	9.0000	1.68	_____
INTEREST ON OP. CAP.	acre	10.96	1.0000	10.96	_____
TOTAL DIRECT EXPENSES				304.29	_____
FIXED EXPENSES					
Implements	acre	11.56	1.0000	11.56	_____
Tractors	acre	10.22	1.0000	10.22	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Border Irr,	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				58.79	_____
TOTAL SPECIFIED EXPENSES				363.08	_____

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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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.50	Jun	0.06	0.06		0.02	0.00	0.02				0.16
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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Border Irr,	each			1.00	Jun							0.0083			27.09
Application 1	ac-in			1.00	Jun			8.36		0.06	0.52	3.0000			8.88
Application 2	ac-in			1.00	Jun			8.36		0.06	0.52	3.0000			8.88
Application 3	ac-in			1.00	Jul			8.36		0.06	0.52	3.0000			8.88
TOTALS						15.93	20.14	28.77	38.65	0.68	6.85			241.78	352.12
INTEREST ON OPERATING CAPITAL															10.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															363.08

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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, Early Season, 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)						
27	-139	-116	-92	-69	-46	-23	0
29	-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	218	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)						
36	-140	-116	-93	-70	-47	-23	0
40	-126	-101	-76	-51	-25	0	25
43	-111	-83	-55	-28	0	28	55
48	-91	-61	-30	0	30	61	91
53	-68	-34	0	34	68	102	136
60	-38	0	38	77	115	154	192
69	0	44	88	133	177	221	265

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	-69	-46	-23	0
33	-126	-101	-75	-50	-25	0	25
36	-110	-82	-55	-27	0	27	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	175	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	153	192
65	0	44	88	132	176	220	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, Early Season, Center Pivot, Roundup Ready

AG-1221-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.3064	3.35	_____
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	3.3665	8.74	_____
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	1.30	1.0000	1.30	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	7.0000	10.43	_____
INTEREST ON OP. CAP.	acre	11.26	1.0000	11.26	_____
TOTAL DIRECT EXPENSES				311.69	_____
FIXED EXPENSES					
Implements	acre	11.54	1.0000	11.54	_____
Tractors	acre	10.16	1.0000	10.16	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____
TOTAL FIXED EXPENSES				111.88	_____
TOTAL SPECIFIED EXPENSES				423.57	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	May	1.61	1.65	0.32	1.71	0.04	0.51				5.80
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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Center pivot Irr.	each			1.00	Jun							0.0083			80.26
Application 1	ac-in			1.00	May			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	May			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
TOTALS						15.87	20.08	50.52	91.80	0.55	5.76			228.28	412.31
INTEREST ON OPERATING CAPITAL															11.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															423.57

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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, Early Season, 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)						
28	-144	-120	-96	-72	-48	-24	0
31	-130	-104	-78	-52	-26	0	26
33	-114	-85	-57	-28	0	28	57
37	-94	-63	-31	0	31	63	94
41	-70	-35	0	35	70	105	140
46	-39	0	39	79	118	158	197
53	0	45	90	136	181	226	271

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)						
38	-145	-120	-96	-72	-48	-24	0
41	-131	-105	-78	-52	-26	0	26
45	-114	-86	-57	-29	0	29	57
50	-95	-63	-32	0	32	63	95
55	-70	-35	0	35	70	106	141
62	-40	0	40	80	120	159	199
72	0	46	92	137	183	229	275

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)						
31	-144	-120	-96	-72	-48	-24	0
34	-130	-104	-78	-52	-26	0	26
37	-114	-85	-57	-28	0	28	57
41	-94	-63	-31	0	31	63	94
46	-70	-35	0	35	70	105	140
52	-40	0	40	79	119	158	198
59	0	45	91	136	182	227	273

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)						
35	-144	-120	-96	-72	-48	-24	0
38	-131	-104	-78	-52	-26	0	26
42	-114	-86	-57	-29	0	29	57
46	-95	-63	-32	0	32	63	95
52	-70	-35	0	35	70	105	141
58	-40	0	40	79	119	159	199
67	0	46	91	137	183	228	274

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, Early Season, Flood Irrigation, Roundup Ready

AG-1222-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.6226	6.80	_____
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	6.8330	17.75	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	10.0000	26.00	_____
REPAIR & MAINTENANCE					
Implements	acre	3.97	1.0000	3.97	_____
Tractors	acre	2.65	1.0000	2.65	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	10.0000	1.60	_____
INTEREST ON OP. CAP.	acre	11.22	1.0000	11.22	_____
TOTAL DIRECT EXPENSES				306.79	_____
FIXED EXPENSES					
Implements	acre	11.22	1.0000	11.22	_____
Tractors	acre	20.65	1.0000	20.65	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				68.88	_____
TOTAL SPECIFIED EXPENSES				375.67	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, Soybeans, Flood 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Land Plane	50'x16'	MFWD 225	0.151	2.00	Apr	10.52	10.75	0.45	1.50	0.30	3.31				26.53
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cstm Ap Grd. Herb	acre			1.00	May							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Cultivate	8R-30	MFWD 190	0.103	1.00	May	3.00	2.95	0.47	1.57	0.10	1.13				9.12
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Jun	0.01	0.02		0.01	0.00	0.01				0.05
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jun	0.01	0.01			0.00					0.02
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	0.15	Jun	0.01	0.02		0.01	0.00	0.01				0.05
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jun	0.01	0.01			0.00					0.02
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	Jul	0.01	0.02		0.01	0.00	0.01				0.05
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Header - Soybean	25' Flex	275hp	0.102	1.00	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Flood Irr. - Soybean	each			1.00	Jun							0.0083			27.09
Application 1	ac-in			1.00	Jun			11.04		0.03	0.31	4.0000			11.35
Application 2	ac-in			1.00	Jun			8.28		0.02	0.23	3.0000			8.51
Application 3	ac-in			1.00	Jul			8.28		0.02	0.23	3.0000			8.51
TOTALS						26.23	30.57	31.57	38.31	0.90	9.49			228.28	364.45
INTEREST ON OPERATING CAPITAL															11.22
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															375.67

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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, Early Season, 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)						
28	-141	-118	-94	-71	-47	-24	0
30	-128	-102	-77	-51	-26	0	26
33	-112	-84	-56	-28	0	28	56
36	-92	-62	-31	0	31	62	92
40	-69	-34	0	34	69	103	137
46	-39	0	39	78	116	155	194
52	0	45	89	134	178	223	267

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	-142	-119	-95	-71	-47	-24	0
40	-129	-103	-77	-51	-26	0	26
44	-113	-84	-56	-28	0	28	56
49	-93	-62	-31	0	31	62	93
54	-69	-35	0	35	69	104	139
61	-39	0	39	78	118	157	196
71	0	45	90	135	180	225	271

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)						
31	-142	-118	-94	-71	-47	-24	0
33	-128	-102	-77	-51	-26	0	26
37	-112	-84	-56	-28	0	28	56
40	-93	-62	-31	0	31	62	93
45	-69	-34	0	34	69	103	138
51	-39	0	39	78	117	156	195
58	0	45	89	134	179	223	268

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)						
35	-142	-118	-95	-71	-47	-24	0
38	-128	-103	-77	-51	-26	0	26
41	-112	-84	-56	-28	0	28	56
46	-93	-62	-31	0	31	62	93
51	-69	-35	0	35	69	104	138
57	-39	0	39	78	117	156	195
66	0	45	90	135	180	225	270

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, Early Season, Non-Irrigated, Conventional

AG-1223-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
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	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.2626	2.87	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	2.8599	7.43	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	3.46	1.0000	3.46	_____
Tractors	acre	1.11	1.0000	1.11	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	9.60	1.0000	9.60	_____
TOTAL DIRECT EXPENSES				257.88	_____
FIXED EXPENSES					
Implements	acre	10.30	1.0000	10.30	_____
Tractors	acre	8.62	1.0000	8.62	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				28.84	_____
TOTAL SPECIFIED EXPENSES				286.72	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Conventional	lbseed											60.0000	0.61	36.60	36.60
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
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	Jun							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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							25.0000	0.22	5.50	5.50
TOTALS						14.37	18.54	3.46	10.30	0.48	5.00			225.45	277.12
INTEREST ON OPERATING CAPITAL															9.60
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															286.72

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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, Early Season, 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)						
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	87	115
38	-33	0	33	65	98	130	163
44	0	37	75	112	150	187	225

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	-108	-87	-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	117
52	-33	0	33	66	99	132	165
59	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	-119	-99	-79	-60	-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	164
49	0	38	75	113	150	188	226

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	-100	-80	-60	-40	-20	0
32	-108	-86	-65	-43	-22	0	22
35	-95	-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	99	132	164
56	0	38	76	113	151	189	227

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, Early Season, Furrow Irrigation, Conventional

AG-1224-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
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	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.4001	4.37	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	4.4523	11.57	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.50	1.0000	4.50	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	11.23	1.0000	11.23	_____

TOTAL DIRECT EXPENSES				320.75	_____
FIXED EXPENSES					
Implements	acre	13.74	1.0000	13.74	_____
Tractors	acre	13.50	1.0000	13.50	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____

TOTAL FIXED EXPENSES				64.25	_____

TOTAL SPECIFIED EXPENSES				385.00	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Conventional	lbseed											60.0000	0.61	36.60	36.60
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
Dual II Magnum	pt											1.5000	13.15	19.73	19.73
Canopy SP	oz											3.0000	6.20	18.60	18.60
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Storm	pt											1.0000	10.00	10.00	10.00
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Furrow Irr.	each			1.00	Jun										27.09
Application 1	ac-in			1.00	Jun										9.01
Application 2	ac-in			1.00	Jun										9.01
Application 3	ac-in			1.00	Jul										9.01
Application 4	ac-in			1.00	Jul										9.01
TOTALS						19.13	23.42	37.94	40.83	0.92	9.10			243.35	373.77
INTEREST ON OPERATING CAPITAL															11.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															385.00

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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, Early Season, 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)						
29	-146	-122	-98	-73	-49	-24	0
31	-132	-106	-79	-53	-26	0	26
34	-116	-87	-58	-29	0	29	58
38	-96	-64	-32	0	32	64	96
42	-71	-36	0	36	71	107	142
47	-40	0	40	80	120	161	201
54	0	46	92	138	184	231	277

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)						
39	-147	-123	-98	-74	-49	-25	0
42	-133	-107	-80	-53	-27	0	27
46	-117	-88	-58	-29	0	29	58
51	-97	-64	-32	0	32	64	97
56	-72	-36	0	36	72	108	144
64	-41	0	41	81	122	162	203
73	0	47	93	140	187	234	280

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)						
32	-147	-122	-98	-73	-49	-24	0
35	-133	-106	-80	-53	-27	0	27
38	-116	-87	-58	-29	0	29	58
42	-96	-64	-32	0	32	64	96
47	-71	-36	0	36	71	107	143
53	-40	0	40	81	121	161	202
61	0	46	93	139	185	232	278

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)						
36	-147	-123	-98	-74	-49	-25	0
39	-133	-106	-80	-53	-27	0	27
43	-116	-87	-58	-29	0	29	58
47	-96	-64	-32	0	32	64	96
53	-72	-36	0	36	72	107	143
60	-40	0	40	81	121	162	202
68	0	47	93	140	186	233	279

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, Early Season, Border Irrigation, Conventional

AG-1225-11-08

C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.52	200.0000	104.80	_____
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	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.2647	2.89	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	2.8781	7.48	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Border Irr,	gal	2.60	9.0000	23.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.46	1.0000	3.46	_____
Tractors	acre	1.12	1.0000	1.12	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Border Irr,	ac-in	0.18	9.0000	1.68	_____
INTEREST ON OP. CAP.	acre	10.76	1.0000	10.76	_____
TOTAL DIRECT EXPENSES				303.66	_____
FIXED EXPENSES					
Implements	acre	10.32	1.0000	10.32	_____
Tractors	acre	8.68	1.0000	8.68	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Border Irr,	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				56.01	_____
TOTAL SPECIFIED EXPENSES				359.67	_____

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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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Conventional	lbseed											60.0000	0.61	36.60	36.60
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
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	Jun							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
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.50	Jun	0.06	0.06		0.02	0.00	0.02				0.16
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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Border Irr,	each			1.00	Jun				27.09			0.0083			27.09
Application 1	ac-in			1.00	Jun			8.36		0.06	0.52	3.0000			8.88
Application 2	ac-in			1.00	Jun			8.36		0.06	0.52	3.0000			8.88
Application 3	ac-in			1.00	Jul			8.36		0.06	0.52	3.0000			8.88
TOTALS						14.43	18.60	28.54	37.41	0.66	6.58			243.35	348.91
INTEREST ON OPERATING CAPITAL															10.76
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															359.67

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, Early Season, 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)						
27	-138	-115	-92	-69	-46	-23	0
29	-125	-100	-75	-50	-25	0	25
32	-109	-82	-55	-27	0	27	55
35	-90	-60	-30	0	30	60	90
40	-67	-34	0	34	67	101	134
45	-38	0	38	76	114	152	190
51	0	44	87	131	174	218	261

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	-139	-116	-93	-70	-46	-23	0
40	-126	-101	-76	-50	-25	0	25
43	-110	-83	-55	-28	0	28	55
48	-91	-61	-30	0	30	61	91
53	-68	-34	0	34	68	102	136
60	-38	0	38	77	115	154	192
69	0	44	88	132	177	221	265

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	-92	-69	-46	-23	0
33	-125	-100	-75	-50	-25	0	25
36	-110	-82	-55	-27	0	27	55
40	-91	-60	-30	0	30	60	91
44	-67	-34	0	34	67	101	135
50	-38	0	38	76	114	152	190
57	0	44	88	131	175	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	-75	-50	-25	0	25
40	-110	-83	-55	-28	0	28	55
45	-91	-61	-30	0	30	61	91
50	-68	-34	0	34	68	102	135
56	-38	0	38	77	115	153	191
65	0	44	88	132	176	220	264

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, Early Season, Center Pivot, Conventional

AG-1226-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
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	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.2626	2.87	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	2.8599	7.43	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Center pivot Irr.	gal	2.60	14.0000	36.40	_____
REPAIR & MAINTENANCE					
Implements	acre	3.46	1.0000	3.46	_____
Tractors	acre	1.11	1.0000	1.11	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	7.0000	10.43	_____
INTEREST ON OP. CAP.	acre	11.06	1.0000	11.06	_____
TOTAL DIRECT EXPENSES				311.06	_____
FIXED EXPENSES					
Implements	acre	10.30	1.0000	10.30	_____
Tractors	acre	8.62	1.0000	8.62	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____
TOTAL FIXED EXPENSES				109.10	_____
TOTAL SPECIFIED EXPENSES				420.16	_____

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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, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Conventional	lbseed											60.0000	0.61	36.60	36.60
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
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	Jun							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 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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Center pivot Irr.	each			1.00	May				80.26			0.0083			80.26
Application 1	ac-in			1.00	May			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	May			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
TOTALS						14.37	18.54	50.29	90.56	0.54	5.49			229.85	409.10
INTEREST ON OPERATING CAPITAL															11.06
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															420.16

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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, Early Season, 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)						
28	-142	-118	-95	-71	-47	-24	0
30	-128	-103	-77	-51	-26	0	26
33	-112	-84	-56	-28	0	28	56
36	-93	-62	-31	0	31	62	93
41	-69	-34	0	34	69	103	138
46	-39	0	39	78	117	156	195
53	0	45	89	134	179	223	268

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	-143	-119	-95	-71	-48	-24	0
41	-129	-103	-78	-52	-26	0	26
44	-113	-85	-57	-28	0	28	57
49	-94	-62	-31	0	31	62	94
55	-70	-35	0	35	70	104	139
62	-39	0	39	79	118	157	197
71	0	45	91	136	181	226	272

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)						
31	-142	-118	-95	-71	-47	-24	0
34	-129	-103	-77	-51	-26	0	26
37	-112	-84	-56	-28	0	28	56
41	-93	-62	-31	0	31	62	93
45	-69	-35	0	35	69	104	138
51	-39	0	39	78	117	156	195
59	0	45	90	135	179	224	269

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)						
35	-143	-119	-95	-71	-48	-24	0
38	-129	-103	-77	-52	-26	0	26
41	-113	-85	-56	-28	0	28	56
46	-93	-62	-31	0	31	62	93
51	-69	-35	0	35	69	104	139
58	-39	0	39	78	118	157	196
66	0	45	90	135	180	226	271

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, Early Season, Flood Irrigation, Conventional

AG-1227-11-08

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					
0-18-36	lb	0.52	200.0000	104.80	_____
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	_____
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 Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.5691	6.21	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	6.3986	16.62	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	10.0000	26.00	_____
REPAIR & MAINTENANCE					
Implements	acre	3.91	1.0000	3.91	_____
Tractors	acre	2.50	1.0000	2.50	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	10.0000	1.60	_____
INTEREST ON OP. CAP.	acre	11.05	1.0000	11.05	_____
TOTAL DIRECT EXPENSES				306.47	_____
FIXED EXPENSES					
Implements	acre	11.83	1.0000	11.83	_____
Tractors	acre	19.46	1.0000	19.46	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				68.30	_____
TOTAL SPECIFIED EXPENSES				374.77	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Conventional	lbseed											60.0000	0.61	36.60	36.60
Land Plane	50'x16'	MFWD 225	0.151	2.00	Apr	10.52	10.75	0.45	1.50	0.30	3.31				26.53
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
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	0.15	Jun	0.01	0.02		0.01	0.00	0.01				0.05
Cstm Ap Grd. Herb	acre			1.00	Jun							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	Jun	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	0.15	Jun	0.01	0.02		0.01	0.00	0.01				0.05
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jun	0.01	0.01			0.00					0.02
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	Jul	0.01	0.02		0.01	0.00	0.01				0.05
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Header - Soybean	25' Flex	275hp	0.102	1.00	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Flood Irr. - Soybean	each			1.00	Jun						27.09				27.09
Application 1	ac-in			1.00	Jun				11.04	0.03	0.31				11.35
Application 2	ac-in			1.00	Jun				8.28	0.02	0.23				8.51
Application 3	ac-in			1.00	Jul				8.28	0.02	0.23				8.51
TOTALS						24.95	29.38	31.51	38.92	0.88	9.11			229.85	363.72
INTEREST ON OPERATING CAPITAL															11.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															374.77

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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, Early Season, 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)						
27	-140	-116	-93	-70	-47	-23	0
30	-126	-101	-76	-51	-25	0	25
32	-110	-83	-55	-28	0	28	55
36	-91	-61	-30	0	30	61	91
40	-68	-34	0	34	68	102	136
45	-38	0	38	77	115	153	192
52	0	44	88	132	176	220	264

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	-141	-117	-94	-70	-47	-23	0
40	-127	-102	-76	-51	-25	0	25
44	-111	-84	-56	-28	0	28	56
48	-92	-61	-31	0	31	61	92
54	-69	-34	0	34	69	103	137
61	-39	0	39	77	116	155	194
70	0	45	89	134	178	223	267

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	-140	-117	-93	-70	-47	-23	0
33	-127	-101	-76	-51	-25	0	25
36	-111	-83	-55	-28	0	28	55
40	-92	-61	-31	0	31	61	92
44	-68	-34	0	34	68	102	136
50	-38	0	38	77	115	154	192
58	0	44	88	133	177	221	265

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	-140	-117	-94	-70	-47	-23	0
37	-127	-102	-76	-51	-25	0	25
41	-111	-83	-56	-28	0	28	56
45	-92	-61	-31	0	31	61	92
50	-68	-34	0	34	68	103	137
57	-39	0	39	77	116	155	193
65	0	44	89	133	178	222	267

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, Early Season, Furrow Irrigation, LibertyLink

AG-1228-11-08

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Prefix	pt	6.19	2.0000	12.38	_____
Ignite 280	pt	6.57	2.7500	18.07	_____
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 LL	lbseed	1.04	60.0000	62.40	_____
CUSTOM HIRE					
Cstm Ap Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
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	0.4001	4.37	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	4.4523	11.57	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.50	1.0000	4.50	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	12.04	1.0000	12.04	_____
TOTAL DIRECT EXPENSES				334.75	_____
FIXED EXPENSES					
Implements	acre	13.74	1.0000	13.74	_____
Tractors	acre	13.50	1.0000	13.50	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				64.25	_____
TOTAL SPECIFIED EXPENSES				399.00	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, Soybeans, Furrow Irrigation, LibertyLink, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	28'	MFWD 225	0.070	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Cstm Ap Air Fert	acre			1.00	Apr							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean LL	lbseed											60.0000	1.04	62.40	62.40
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Prefix	pt											2.0000	6.19	12.38	12.38
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.72	1.76	0.41	2.18	0.07	0.75				6.82
Ignite 280	pt											1.3750	6.57	9.03	9.03
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Ignite 280	pt											1.3750	6.57	9.03	9.03
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
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	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							45.0000	0.22	9.90	9.90
Furrow Irr.	each			1.00	Jun										27.09
Application 1	ac-in			1.00	Jun										9.01
Application 2	ac-in			1.00	Jun										9.01
Application 3	ac-in			1.00	Jul										9.01
Application 4	ac-in			1.00	Jul										9.01
TOTALS						19.13	23.42	37.94	40.83	0.92	9.10			256.54	386.96
INTEREST ON OPERATING CAPITAL															12.04
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															399.00

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, Early Season, Furrow Irrigation, LibertyLink, 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)						
30	-153	-127	-102	-76	-51	-25	0
33	-138	-111	-83	-55	-28	0	28
36	-121	-91	-60	-30	0	30	60
39	-100	-67	-33	0	33	67	100
44	-74	-37	0	37	74	111	149
49	-42	0	42	84	126	168	210
57	0	48	96	145	193	241	289

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)						
40	-154	-128	-103	-77	-51	-26	0
44	-139	-111	-84	-56	-28	0	28
48	-122	-91	-61	-30	0	30	61
53	-101	-67	-34	0	34	67	101
59	-75	-38	0	38	75	113	150
67	-42	0	42	85	127	170	212
77	0	49	98	146	195	244	293

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)						
33	-153	-128	-102	-77	-51	-26	0
36	-139	-111	-83	-55	-28	0	28
40	-121	-91	-61	-30	0	30	61
44	-100	-67	-33	0	33	67	100
49	-75	-37	0	37	75	112	149
55	-42	0	42	84	126	168	211
63	0	48	97	145	194	242	290

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)						
38	-154	-128	-103	-77	-51	-26	0
41	-139	-111	-83	-56	-28	0	28
45	-122	-91	-61	-30	0	30	61
49	-101	-67	-34	0	34	67	101
55	-75	-37	0	37	75	112	150
62	-42	0	42	85	127	169	212
72	0	49	97	146	195	243	292

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.