

Estimating 2009 Costs of Production Soybean, Early Season, Border Irrigation, Conventional

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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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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, 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-----			
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
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.