

Estimating 2009 Costs of Production Soybean, Full Season, Flood 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	_____
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	45.0000	27.45	_____
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 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	0.6967	7.60	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.60	0.1176	1.00	_____
HAND LABOR					
Implements	hour	8.60	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	7.5908	19.72	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	13.0000	33.80	_____
REPAIR & MAINTENANCE					
Implements	acre	4.21	1.0000	4.21	_____
Tractors	acre	2.98	1.0000	2.98	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	13.0000	2.08	_____
INTEREST ON OP. CAP.	acre	14.40	1.0000	14.40	_____
TOTAL DIRECT EXPENSES				344.05	_____
FIXED EXPENSES					
Implements	acre	12.20	1.0000	12.20	_____
Tractors	acre	23.24	1.0000	23.24	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				72.45	_____
TOTAL SPECIFIED EXPENSES				416.50	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full 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	2.00	Apr	4.86	4.97	1.30	3.43	0.14	1.53				16.09
Cstm Ap Air Fert	acre			1.00	May							1.0000	7.50	7.50	7.50
0-18-36	lb											200.0000	0.52	104.80	104.80
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
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.49	2.66	0.95	2.28	0.18	1.84				10.22
Soybean Conventional	lbseed											45.0000	0.61	27.45	27.45
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	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	Jun							1.0000	7.50	7.50	7.50
Folicur	oz											4.0000	2.00	8.00	8.00
Cultivate	8R-30	MFWD 190	0.103	1.00	Jul	3.00	2.95	0.47	1.57	0.10	1.13				9.12
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
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	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
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	7.50	7.50	7.50
Select 2EC	oz											4.0000	1.65	6.60	6.60
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
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	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							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	Aug			8.28		0.02	0.23	3.0000			8.51
Application 4	ac-in			1.00	Sep			8.28		0.02	0.23	3.0000			8.51
TOTALS						28.53	33.16	40.09	39.29	1.03	10.73			250.30	402.10
INTEREST ON OPERATING CAPITAL															14.40
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															416.50

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, Full Season, Flood Irrigation, 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)						
31	-157	-131	-105	-79	-52	-26	0
33	-142	-114	-85	-57	-28	0	28
37	-124	-93	-62	-31	0	31	62
40	-103	-69	-34	0	34	69	103
45	-76	-38	0	38	76	115	153
51	-43	0	43	86	129	173	216
58	0	50	99	149	198	248	297

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)						
41	-158	-132	-106	-79	-53	-26	0
45	-143	-115	-86	-57	-29	0	29
49	-125	-94	-63	-31	0	31	63
54	-104	-69	-35	0	35	69	104
61	-77	-39	0	39	77	116	154
68	-44	0	44	87	131	175	218
79	0	50	100	151	201	251	301

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)						
34	-158	-131	-105	-79	-53	-26	0
37	-143	-114	-86	-57	-29	0	29
41	-125	-94	-62	-31	0	31	62
45	-103	-69	-34	0	34	69	103
50	-77	-38	0	38	77	115	153
57	-43	0	43	87	130	173	217
65	0	50	100	149	199	249	299

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)						
39	-158	-132	-105	-79	-53	-26	0
42	-143	-114	-86	-57	-29	0	29
46	-125	-94	-63	-31	0	31	63
51	-104	-69	-35	0	35	69	104
57	-77	-39	0	39	77	116	154
64	-44	0	44	87	131	174	218
74	0	50	100	150	200	250	300

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.