

Estimating 2009 Costs of Production
Soybean, Full Season, Flood Irrigation, Roundup Ready

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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					
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	45.0000	44.10	_____
CUSTOM HIRE					
Cstm Ap Air Fert	acre	7.50	1.0000	7.50	_____
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	0.6938	7.57	_____
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	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	7.5570	19.63	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Flood Irr. - Soybean	gal	2.60	13.0000	33.80	_____
REPAIR & MAINTENANCE					
Implements	acre	4.12	1.0000	4.12	_____
Tractors	acre	2.96	1.0000	2.96	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Flood Irr. - Soybean	ac-in	0.16	13.0000	2.08	_____
INTEREST ON OP. CAP.	acre	14.06	1.0000	14.06	_____
TOTAL DIRECT EXPENSES				337.69	_____
FIXED EXPENSES					
Implements	acre	11.73	1.0000	11.73	_____
Tractors	acre	23.13	1.0000	23.13	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Flood Irr. - Soybean	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				71.87	_____
TOTAL SPECIFIED EXPENSES				409.56	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full 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	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
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
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 Seed RR	lbseed											45.0000	0.98	44.10	44.10
Ditcher		MFWD 105	0.020	0.10	May	0.03	0.03		0.01	0.00	0.02				0.09
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
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
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 Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.004	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 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 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					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	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						28.42	33.05	40.00	38.82	1.00	10.49			244.72	395.50
INTEREST ON OPERATING CAPITAL															14.06
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															409.56

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, 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)						
30	-154	-129	-103	-77	-51	-26	0
33	-140	-112	-84	-56	-28	0	28
36	-122	-92	-61	-31	0	31	61
40	-101	-67	-34	0	34	67	101
44	-75	-37	0	37	75	112	150
50	-42	0	42	85	127	169	212
57	0	49	97	146	195	243	292

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	-155	-130	-104	-78	-52	-26	0
44	-141	-112	-84	-56	-28	0	28
48	-123	-92	-62	-31	0	31	62
53	-102	-68	-34	0	34	68	102
59	-76	-38	0	38	76	114	151
67	-43	0	43	86	128	171	214
77	0	49	99	148	197	246	296

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	-155	-129	-103	-77	-52	-26	0
37	-140	-112	-84	-56	-28	0	28
40	-122	-92	-61	-31	0	31	61
44	-101	-67	-34	0	34	67	101
49	-75	-38	0	38	75	113	150
56	-43	0	43	85	128	170	213
64	0	49	98	147	195	244	293

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	-155	-129	-103	-78	-52	-26	0
41	-140	-112	-84	-56	-28	0	28
45	-123	-92	-61	-31	0	31	61
50	-102	-68	-34	0	34	68	102
56	-76	-38	0	38	76	113	151
63	-43	0	43	85	128	171	214
72	0	49	98	147	196	245	295

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.