

Estimating 2009 Costs of Production

Soybean, Full Season, Furrow 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	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
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	0.4895	5.35	_____
Harvesters	hour	10.91	0.1021	1.11	_____
IRRIGATION LABOR					
Furrow Irr.	hour	8.60	0.3771	3.25	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	5.0182	13.04	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	15.0000	39.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.14	1.0000	4.14	_____
Tractors	acre	1.95	1.0000	1.95	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	15.0000	2.80	_____
INTEREST ON OP. CAP.	acre	15.02	1.0000	15.02	_____
TOTAL DIRECT EXPENSES				350.52	_____
FIXED EXPENSES					
Implements	acre	11.76	1.0000	11.76	_____
Tractors	acre	15.21	1.0000	15.21	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				63.98	_____
TOTAL SPECIFIED EXPENSES				414.50	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full 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	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
Cultivate	8R-30	MFWD 190	0.103	1.00	May	3.00	2.95	0.47	1.57	0.10	1.13					9.12
Cultivate	8R-30	MFWD 190	0.103	1.00	May	3.00	2.95	0.47	1.57	0.10	1.13					9.12
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
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50		13.50
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 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
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
Application 5	ac-in			1.00	Aug			8.36		0.07	0.65	3.0000				9.01
TOTALS						20.82	25.13	45.94	38.85	1.06	10.52				258.22	399.48
INTEREST ON OPERATING CAPITAL																15.02
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																414.50

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, Furrow 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)						
31	-160	-134	-107	-80	-53	-27	0
34	-145	-116	-87	-58	-29	0	29
37	-127	-95	-63	-32	0	32	63
41	-105	-70	-35	0	35	70	105
46	-78	-39	0	39	78	117	156
52	-44	0	44	88	132	176	220
59	0	51	101	152	202	253	303

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)						
42	-161	-135	-108	-81	-54	-27	0
46	-146	-117	-88	-58	-29	0	29
50	-128	-96	-64	-32	0	32	64
55	-106	-71	-35	0	35	71	106
62	-79	-39	0	39	79	118	157
70	-44	0	44	89	133	178	222
80	0	51	102	154	205	256	307

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)						
35	-161	-134	-107	-80	-54	-27	0
38	-145	-116	-87	-58	-29	0	29
42	-127	-95	-64	-32	0	32	64
46	-105	-70	-35	0	35	70	105
51	-78	-39	0	39	78	117	156
58	-44	0	44	88	132	177	221
66	0	51	101	152	203	254	304

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)						
40	-161	-134	-107	-81	-54	-27	0
43	-146	-117	-88	-58	-29	0	29
47	-128	-96	-64	-32	0	32	64
52	-106	-70	-35	0	35	70	106
58	-79	-39	0	39	79	118	157
65	-44	0	44	89	133	177	222
75	0	51	102	153	204	255	306

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.