

Estimating 2009 Costs of Production Soybean, Double Crop, Furrow Irrigation, Roundup Ready

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Potash (0-0-60)	lb.	0.51	100.0000	51.60	_____
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	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
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	0.5341	5.84	_____
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	5.5478	14.41	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.46	1.0000	4.46	_____
Tractors	acre	2.16	1.0000	2.16	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	9.37	1.0000	9.37	_____
TOTAL DIRECT EXPENSES				298.25	_____
FIXED EXPENSES					
Implements	acre	13.46	1.0000	13.46	_____
Tractors	acre	16.83	1.0000	16.83	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				67.30	_____
TOTAL SPECIFIED EXPENSES				365.55	_____

*Soybean portion of Wheat/SB fertilizer

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, 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-----			
Cstm Ap Grd Fert Potash (0-0-60)	acre lb.			1.00	Oct							1.0000	6.00	6.00	6.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.86	4.97	1.30	3.43	0.14	1.53	100.0000	0.51	51.60	51.60
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Jun	1.61	1.65	0.32	1.71	0.04	0.51				5.80
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Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Jun	2.49	2.66	0.95	2.28	0.18	1.84				10.22
Soybean Seed RR Cultivate	lbseed 8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13	60.0000	0.98	58.80	58.80
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jun							1.0000	6.00	6.00	6.00
Cultivate	8R-30	MFWD 190	0.103	1.00	Jun	3.00	2.95	0.47	1.57	0.10	1.13				9.12
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jun							2.0000	4.82	9.64	9.64
Irrppip+lay+pickup	acre			1.00	Jul							1.0000	13.50	13.50	13.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Jul							1.0000	6.00	6.00	6.00
Cstm Ap Air Fung Folicur	acre oz			1.00	Jul							2.0000	4.82	9.64	9.64
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							1.0000	7.50	7.50	7.50
Cstm Ap Air Insect Orthene 90S	acre lb			1.00	Jul							1.0000	7.50	7.50	7.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Aug							1.0000	8.50	8.50	8.50
Cstm Ap Grd. Herb Glyphosate Plus	acre pt			1.00	Aug							1.0000	6.00	6.00	6.00
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	Jul				27.09			0.0083			27.09
Application 1	ac-in			1.00	Jul			8.36		0.07	0.65	3.0000			9.01
Application 2	ac-in			1.00	Jul			8.36		0.07	0.65	3.0000			9.01
Application 3	ac-in			1.00	Aug			8.36		0.07	0.65	3.0000			9.01
Application 4	ac-in			1.00	Aug			8.36		0.07	0.65	3.0000			9.01
TOTALS						22.40	26.75	37.90	40.55	1.03	10.36			218.22	356.18
INTEREST ON OPERATING CAPITAL															9.37
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															365.55

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, Double Crop, 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)						
27	-136	-113	-91	-68	-45	-23	0
29	-123	-98	-74	-49	-25	0	25
32	-107	-81	-54	-27	0	27	54
35	-89	-59	-30	0	30	59	89
39	-66	-33	0	33	66	99	132
44	-37	0	37	74	112	149	186
50	0	43	86	128	171	214	257

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	-137	-114	-91	-68	-46	-23	0
39	-124	-99	-74	-49	-25	0	25
42	-108	-81	-54	-27	0	27	54
47	-90	-60	-30	0	30	60	90
52	-67	-33	0	33	67	100	133
59	-38	0	38	75	113	151	188
68	0	43	87	130	173	217	260

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	-136	-113	-91	-68	-45	-23	0
32	-123	-98	-74	-49	-25	0	25
35	-108	-81	-54	-27	0	27	54
39	-89	-59	-30	0	30	59	89
43	-66	-33	0	33	66	99	132
49	-37	0	37	75	112	150	187
56	0	43	86	129	172	215	258

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)						
33	-136	-114	-91	-68	-45	-23	0
36	-123	-99	-74	-49	-25	0	25
40	-108	-81	-54	-27	0	27	54
44	-89	-60	-30	0	30	60	89
49	-66	-33	0	33	66	100	133
55	-38	0	38	75	113	150	188
64	0	43	86	130	173	216	259

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.