

# Estimating 2009 Costs of Production Soybean, Full Season, Center Pivot, Roundup Ready

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FERTILIZERS</b>					
0-18-36	lb	0.52	200.0000	104.80	_____
<b>FUNGICIDES</b>					
Folicur	oz	2.00	4.0000	8.00	_____
<b>HERBICIDES</b>					
Glyphosate Plus	pt	4.82	6.0000	28.92	_____
<b>INSECTICIDES</b>					
Orthene 90S	lb	8.50	1.0000	8.50	_____
<b>CROP SEED</b>					
Soybean Seed RR	lbseed	0.98	45.0000	44.10	_____
<b>CUSTOM HIRE</b>					
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	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	10.91	0.2832	3.09	_____
Harvesters	hour	10.91	0.1021	1.11	_____
<b>IRRIGATION LABOR</b>					
Center pivot Irr.	hour	8.60	0.0649	0.56	_____
<b>HAND LABOR</b>					
Implements	hour	8.60	0.0942	0.81	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.60	3.0011	7.80	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Center pivot Irr.	gal	2.60	16.0000	41.60	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	3.20	1.0000	3.20	_____
Tractors	acre	1.19	1.0000	1.19	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Center pivot Irr.	ac-in	1.49	8.0000	11.92	_____
<b>INTEREST ON OP. CAP.</b>	acre	15.24	1.0000	15.24	_____
<b>TOTAL DIRECT EXPENSES</b>				337.07	_____
<b>FIXED EXPENSES</b>					
Implements	acre	8.62	1.0000	8.62	_____
Tractors	acre	9.31	1.0000	9.31	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Center pivot Irr.	each	9630.98	0.0083	80.26	_____
<b>TOTAL FIXED EXPENSES</b>				108.11	_____
<b>TOTAL SPECIFIED EXPENSES</b>				445.18	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Center Pivot, 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	Apr							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
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
Center pivot Irr.	each			1.00	Jun				80.26			0.0083			80.26
Application 1	ac-in			1.00	May			6.69		0.00	0.07	1.0000			6.76
Application 2	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 3	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 4	ac-in			1.00	Jun			6.69		0.00	0.07	1.0000			6.76
Application 5	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 6	ac-in			1.00	Jul			6.69		0.00	0.07	1.0000			6.76
Application 7	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
Application 8	ac-in			1.00	Aug			6.69		0.00	0.07	1.0000			6.76
TOTALS						14.82	19.23	56.72	88.88	0.54	5.57			244.72	429.94
INTEREST ON OPERATING CAPITAL															15.24
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															445.18

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, Center Pivot 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	-128	-103	-77	-51	-26	0
33	-139	-111	-84	-56	-28	0	28
36	-122	-91	-61	-30	0	30	61
40	-101	-67	-34	0	34	67	101
44	-75	-37	0	37	75	112	150
50	-42	0	42	85	127	169	211
57	0	49	97	146	194	243	291

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	-129	-103	-78	-52	-26	0
44	-140	-112	-84	-56	-28	0	28
48	-123	-92	-61	-31	0	31	61
53	-102	-68	-34	0	34	68	102
59	-76	-38	0	38	76	113	151
67	-43	0	43	85	128	171	214
77	0	49	98	147	197	246	295

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	-154	-129	-103	-77	-51	-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
55	-42	0	42	85	127	170	212
64	0	49	97	146	195	244	292

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	-77	-52	-26	0
41	-140	-112	-84	-56	-28	0	28
45	-123	-92	-61	-31	0	31	61
50	-101	-68	-34	0	34	68	101
55	-75	-38	0	38	75	113	151
63	-43	0	43	85	128	170	213
72	0	49	98	147	196	245	294

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.