

Estimating 2009 Costs of Production Soybean, Full Season, Furrow 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	_____
IRRIGATION SUPPLIES					
Irrppip+lay+pickup	acre	13.50	1.0000	13.50	_____
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 Grd Fert	acre	6.00	1.0000	6.00	_____
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	0.4924	5.38	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	5.0521	13.13	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	15.0000	39.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.23	1.0000	4.23	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	15.0000	2.80	_____
INTEREST ON OP. CAP.	acre	15.29	1.0000	15.29	_____
TOTAL DIRECT EXPENSES				355.31	_____
FIXED EXPENSES					
Implements	acre	12.23	1.0000	12.23	_____
Tractors	acre	15.32	1.0000	15.32	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____
TOTAL FIXED EXPENSES				64.56	_____
TOTAL SPECIFIED EXPENSES				419.87	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Furrow 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 Grd Fert	acre			1.00	May							1.0000	6.00	6.00	6.00
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
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
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
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
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 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
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							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						20.93	25.24	46.03	39.32	1.09	10.76			262.30	404.58
INTEREST ON OPERATING CAPITAL															15.29
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															419.87

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, 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)						
32	-163	-136	-108	-81	-54	-27	0
35	-147	-118	-88	-59	-29	0	29
38	-129	-96	-64	-32	0	32	64
42	-106	-71	-35	0	35	71	106
46	-79	-40	0	40	79	119	158
52	-45	0	45	89	134	178	223
60	0	51	102	154	205	256	307

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)						
43	-164	-136	-109	-82	-55	-27	0
46	-148	-119	-89	-59	-30	0	30
51	-130	-97	-65	-32	0	32	65
56	-107	-72	-36	0	36	72	107
63	-80	-40	0	40	80	120	160
71	-45	0	45	90	135	180	226
81	0	52	104	156	208	260	311

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)						
36	-163	-136	-109	-82	-54	-27	0
39	-147	-118	-88	-59	-29	0	29
42	-129	-97	-64	-32	0	32	64
46	-107	-71	-36	0	36	71	107
52	-79	-40	0	40	79	119	159
59	-45	0	45	90	134	179	224
67	0	51	103	154	206	257	309

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	-163	-136	-109	-82	-54	-27	0
44	-148	-118	-89	-59	-30	0	30
48	-129	-97	-65	-32	0	32	65
52	-107	-71	-36	0	36	71	107
59	-80	-40	0	40	80	119	159
66	-45	0	45	90	135	180	225
76	0	52	103	155	207	259	310

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.