



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2009 Costs of Production Soybean, Early Season, Non-Irrigated, Roundup Ready

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C. Robert Stark, Jr., Professor-Agriculture Economics
Jeremy Ross, Extension Agronomist - Soybeans
UA Cooperative Extension Service/UAM Division of Agriculture

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.52	200.0000	104.80	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
INSECTICIDES					
Orthene 90S	lb	8.50	1.0000	8.50	_____
CROP SEED					
Soybean Seed RR	lbseed	0.98	60.0000	58.80	_____
CUSTOM HIRE					
Cstm Ap Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Air Insect	acre	7.50	1.0000	7.50	_____
Haul Soybeans	bu	0.22	25.0000	5.50	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.3064	3.35	_____
Harvesters	hour	10.91	0.1021	1.11	_____
HAND LABOR					
Implements	hour	8.60	0.0942	0.81	_____
DIESEL FUEL					
Tractors	gal	2.60	3.3665	8.74	_____
Harvesters	gal	2.60	1.4457	3.76	_____
REPAIR & MAINTENANCE					
Implements	acre	3.69	1.0000	3.69	_____
Tractors	acre	1.30	1.0000	1.30	_____
Harvesters	acre	2.07	1.0000	2.07	_____
INTEREST ON OP. CAP.	acre	9.82	1.0000	9.82	_____
TOTAL DIRECT EXPENSES				258.53	_____
FIXED EXPENSES					
Implements	acre	11.54	1.0000	11.54	_____
Tractors	acre	10.16	1.0000	10.16	_____
Harvesters	acre	9.92	1.0000	9.92	_____
TOTAL FIXED EXPENSES				31.62	_____
TOTAL SPECIFIED EXPENSES				290.15	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early Season, Soybeans, Non-Irrigated, 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	1.00	Apr	2.43	2.49	0.65	1.72	0.07	0.77				8.06
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
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
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.75	2.70	1.45	3.49	0.18	1.84				12.23
Soybean Seed RR	lbseed											60.0000	0.98	58.80	58.80
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.61	1.65	0.32	1.71	0.04	0.51				5.80
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
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 Insect	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Orthene 90S	lb											1.0000	8.50	8.50	8.50
Header - Soybean	25' Flex	275hp	0.102	1.00	Aug	5.83	9.92	0.63	1.19	0.10	1.11				18.68
Haul Soybeans	bu			1.00	Aug							25.0000	0.22	5.50	5.50
TOTALS						15.87	20.08	3.69	11.54	0.50	5.27			223.88	280.33
INTEREST ON OPERATING CAPITAL															9.82
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															290.15

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, Early Season, Non-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)						
23	-119	-99	-79	-60	-40	-20	0
25	-108	-86	-65	-43	-22	0	22
28	-94	-71	-47	-24	0	24	47
31	-78	-52	-26	0	26	52	78
34	-58	-29	0	29	58	87	116
38	-33	0	33	65	98	131	163
44	0	38	75	113	150	188	225

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)						
31	-120	-100	-80	-60	-40	-20	0
34	-109	-87	-65	-43	-22	0	22
37	-95	-71	-47	-24	0	24	47
41	-79	-52	-26	0	26	52	79
46	-58	-29	0	29	58	88	117
52	-33	0	33	66	99	132	165
60	0	38	76	114	152	190	228

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)						
26	-119	-100	-80	-60	-40	-20	0
28	-108	-86	-65	-43	-22	0	22
31	-94	-71	-47	-24	0	24	47
34	-78	-52	-26	0	26	52	78
38	-58	-29	0	29	58	87	116
43	-33	0	33	66	98	131	164
49	0	38	75	113	151	188	226

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)						
29	-120	-100	-80	-60	-40	-20	0
32	-109	-87	-65	-43	-22	0	22
35	-95	-71	-47	-24	0	24	47
38	-78	-52	-26	0	26	52	78
43	-58	-29	0	29	58	87	117
48	-33	0	33	66	99	132	165
56	0	38	76	114	152	189	227

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.