

Estimating 2009 Costs of Production Soybean, Early Season, Furrow Irrigation, Conventional

AG-1224-11-08

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					
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	_____
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	60.0000	36.60	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.80	0.4000	0.72	_____
CUSTOM HIRE					
Cstm Ap Air Fert	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
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	0.4001	4.37	_____
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	0.1190	1.02	_____
DIESEL FUEL					
Tractors	gal	2.60	4.4523	11.57	_____
Harvesters	gal	2.60	1.4457	3.76	_____
Furrow Irr.	gal	2.60	12.0000	31.20	_____
REPAIR & MAINTENANCE					
Implements	acre	4.50	1.0000	4.50	_____
Tractors	acre	1.73	1.0000	1.73	_____
Harvesters	acre	2.07	1.0000	2.07	_____
Furrow Irr.	ac-in	0.18	12.0000	2.24	_____
INTEREST ON OP. CAP.	acre	11.23	1.0000	11.23	_____

TOTAL DIRECT EXPENSES				320.75	_____
FIXED EXPENSES					
Implements	acre	13.74	1.0000	13.74	_____
Tractors	acre	13.50	1.0000	13.50	_____
Harvesters	acre	9.92	1.0000	9.92	_____
Furrow Irr.	each	3251.23	0.0083	27.09	_____

TOTAL FIXED EXPENSES				64.25	_____

TOTAL SPECIFIED EXPENSES				385.00	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Early 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	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
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 Conventional	lbseed											60.0000	0.61	36.60	36.60
Ditcher		MFWD 105	0.020	0.10	Apr	0.03	0.02		0.01	0.00	0.02				0.08
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
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
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.38	2.44	0.52	1.72	0.06	0.75				7.81
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	6.00	6.00	6.00
Surfactant (80-20)	pt											0.4000	1.80	0.72	0.72
Storm	pt											1.0000	10.00	10.00	10.00
Irrppip+lay+pickup	acre			1.00	Jun							1.0000	13.50	13.50	13.50
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							45.0000	0.22	9.90	9.90
Furrow Irr.	each			1.00	Jun										27.09
Application 1	ac-in			1.00	Jun										9.01
Application 2	ac-in			1.00	Jun										9.01
Application 3	ac-in			1.00	Jul										9.01
Application 4	ac-in			1.00	Jul										9.01
TOTALS						19.13	23.42	37.94	40.83	0.92	9.10			243.35	373.77
INTEREST ON OPERATING CAPITAL															11.23
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															385.00

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, Furrow Irrigated, 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)						
29	-146	-122	-98	-73	-49	-24	0
31	-132	-106	-79	-53	-26	0	26
34	-116	-87	-58	-29	0	29	58
38	-96	-64	-32	0	32	64	96
42	-71	-36	0	36	71	107	142
47	-40	0	40	80	120	161	201
54	0	46	92	138	184	231	277

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)						
39	-147	-123	-98	-74	-49	-25	0
42	-133	-107	-80	-53	-27	0	27
46	-117	-88	-58	-29	0	29	58
51	-97	-64	-32	0	32	64	97
56	-72	-36	0	36	72	108	144
64	-41	0	41	81	122	162	203
73	0	47	93	140	187	234	280

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)						
32	-147	-122	-98	-73	-49	-24	0
35	-133	-106	-80	-53	-27	0	27
38	-116	-87	-58	-29	0	29	58
42	-96	-64	-32	0	32	64	96
47	-71	-36	0	36	71	107	143
53	-40	0	40	81	121	161	202
61	0	46	93	139	185	232	278

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)						
36	-147	-123	-98	-74	-49	-25	0
39	-133	-106	-80	-53	-27	0	27
43	-116	-87	-58	-29	0	29	58
47	-96	-64	-32	0	32	64	96
53	-72	-36	0	36	72	107	143
60	-40	0	40	81	121	162	202
68	0	47	93	140	186	233	279

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses.