

Estimating 2008 Costs of Production Soybean, Full Season, Border Irrigation, Conventional

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-18-36	lb	0.17	200.0000	34.60	_____
FUNGICIDES					
Folicur	oz	2.05	4.0000	8.20	_____
HERBICIDES					
Dual Magnum	pt	12.14	1.5000	18.21	_____
Canopy SP	oz	1.39	3.0000	4.17	_____
Storm	pt	10.23	1.0000	10.23	_____
Select 2EC	oz	1.30	4.0000	5.20	_____
INSECTICIDES					
Orthene 90S	lb	8.59	1.0000	8.59	_____
IRRIGATION SUPPLIES					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
SEED/PLANTS					
Soybean Seed Private	lb	0.38	45.0000	17.10	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
Cstm Ap Air Insect	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2879	2.73	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Border Irr,	hour	8.19	0.2413	1.96	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	3.0505	7.12	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Border Irr,	gal	2.33	12.0000	27.96	_____
REPAIR & MAINTENANCE					
Implements	acre	3.10	1.0000	3.10	_____
Tractors	acre	1.18	1.0000	1.18	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Border Irr,	ac-in	0.17	12.0000	2.12	_____
INTEREST ON OP. CAP.	acre	8.44	1.0000	8.44	_____
TOTAL DIRECT EXPENSES				212.95	_____
FIXED EXPENSES					
Implements	acre	8.52	1.0000	8.52	_____
Tractors	acre	9.02	1.0000	9.02	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Border Irr,	each	2993.11	0.0083	24.94	_____
TOTAL FIXED EXPENSES				52.06	_____
TOTAL SPECIFIED EXPENSES				265.01	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Border Irrigation, Conventional, 2008

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	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-18-36	lb											200.0000	0.17	34.60	34.60
Field Cult & Inc Fld	32'	MFWD 225	0.049	1.00	May	1.56	1.67	0.42	2.17	0.07	0.67				6.49
Dual Magnum	pt											1.5000	12.14	18.21	18.21
Canopy SP	oz											3.0000	1.39	4.17	4.17
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	May	2.25	2.55	0.91	2.16	0.18	1.66				9.53
Soybean Seed Private	lb											45.0000	0.38	17.10	17.10
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	5.02	5.02	5.02
Storm	pt											1.0000	10.23	10.23	10.23
Surfactant (80-20)	pt											0.4000	1.27	0.51	0.51
IrrPipe+lay+pickup	acre			1.00	Jun							1.0000	10.30	10.30	10.30
Cstm Ap Air Fung	acre			1.00	Jun							1.0000	6.25	6.25	6.25
Folicur	oz											4.0000	2.05	8.20	8.20
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.50	Jul	0.05	0.05		0.01	0.00	0.02				0.13
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Cstm Ap Air Herb	acre			1.00	Aug							1.0000	5.95	5.95	5.95
Select 2EC	oz											4.0000	1.30	5.20	5.20
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Border Irr,	each			1.00	Jun										24.94
Application 1	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 2	ac-in			1.00	Jul			7.52		0.06	0.49	3.0000			8.01
Application 3	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
Application 4	ac-in			1.00	Aug			7.52		0.06	0.49	3.0000			8.01
TOTALS						13.70	18.60	33.18	33.46	0.75	6.63			151.00	256.57
INTEREST ON OPERATING CAPITAL															8.44
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															265.01

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 and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Soybean, Full Season, Border Irrigated, Conventional, 2008

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
20	-96	-80	-64	-48	-32	-16	0
21	-87	-70	-52	-35	-17	0	17
23	-76	-57	-38	-19	0	19	38
26	-63	-42	-21	0	21	42	63
29	-47	-23	0	23	47	70	93
32	-26	0	26	53	79	105	131
37	0	30	60	90	120	150	181

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
27	-97	-81	-64	-48	-32	-16	0
29	-87	-70	-52	-35	-17	0	17
31	-76	-57	-38	-19	0	19	38
35	-63	-42	-21	0	21	42	63
39	-47	-23	0	23	47	70	94
44	-26	0	26	53	79	106	132
50	0	30	61	91	121	152	182

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 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
22	-96	-80	-64	-48	-32	-16	0
24	-87	-70	-52	-35	-17	0	17
26	-76	-57	-38	-19	0	19	38
29	-63	-42	-21	0	21	42	63
32	-47	-23	0	23	47	70	93
36	-26	0	26	53	79	105	132
41	0	30	60	91	121	151	181

Landowner Receives 10% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.70	6.51	7.32	8.13	8.94	9.75	10.56
	Returns above Variable Costs (\$/Acre)						
25	-97	-81	-64	-48	-32	-16	0
27	-87	-70	-52	-35	-17	0	17
29	-76	-57	-38	-19	0	19	38
32	-63	-42	-21	0	21	42	63
36	-47	-23	0	23	47	70	94
41	-26	0	26	53	79	106	132
47	0	30	61	91	121	151	182

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.