

## Estimating 2008 Costs of Production Soybean, Early Season, Furrow Irrigation, Conventional

AG-1092-12-07

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>FERTILIZERS</b>					
0-18-36	lb	0.17	200.0000	34.60	_____
<b>HERBICIDES</b>					
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	_____
<b>INSECTICIDES</b>					
Orthene 90S	lb	8.59	1.0000	8.59	_____
<b>IRRIGATION SUPPLIES</b>					
IrrPipe+lay+pickup	acre	10.30	1.0000	10.30	_____
<b>SEED/PLANTS</b>					
Soybean Seed Private	lb	0.38	60.0000	22.80	_____
<b>ADJUVANTS</b>					
Surfactant (80-20)	pt	1.27	0.4000	0.51	_____
<b>CUSTOM HIRE</b>					
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 Insect	acre	5.00	1.0000	5.00	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.45	0.4001	3.78	_____
Harvesters	hour	9.45	0.1021	0.97	_____
<b>IRRIGATION LABOR</b>					
Furrow Irr.	hour	8.19	0.3017	2.48	_____
<b>HAND LABOR</b>					
Implements	hour	8.19	0.1190	0.97	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.33	4.4523	10.39	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Furrow Irr.	gal	2.33	12.0000	27.96	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	4.30	1.0000	4.30	_____
Tractors	acre	1.69	1.0000	1.69	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Furrow Irr.	ac-in	0.17	12.0000	2.12	_____
<b>INTEREST ON OP. CAP.</b>	acre	6.07	1.0000	6.07	_____
				-----	
<b>TOTAL DIRECT EXPENSES</b>				<b>197.23</b>	_____
<b>FIXED EXPENSES</b>					
Implements	acre	12.98	1.0000	12.98	_____
Tractors	acre	12.92	1.0000	12.92	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Furrow Irr.	each	2993.11	0.0083	24.94	_____
				-----	
<b>TOTAL FIXED EXPENSES</b>				<b>60.42</b>	_____
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<b>TOTAL SPECIFIED EXPENSES</b>				<b>257.65</b>	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Early Season, Soybeans, Furrow 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	1.00	Apr	2.20	2.36	0.59	1.53	0.07	0.66				7.34
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr	1.47	1.57	0.33	1.72	0.04	0.44				5.53
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
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr	2.50	2.68	1.42	3.38	0.18	1.66				11.64
Soybean Seed Private	lb											60.0000	0.38	22.80	22.80
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	2.16	2.31	0.47	1.53	0.06	0.65				7.12
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
Cultivate	12R-30	MFWD 225	0.068	1.00	May	2.16	2.31	0.47	1.53	0.06	0.65				7.12
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 Insect	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Orthene 90S	lb											1.0000	8.59	8.59	8.59
Header - Soybean	25' Flex	275hp	0.102	1.00	Aug	5.40	9.58	0.60	1.11	0.10	0.97				17.66
Cstm Haul Soybeans	bu			1.00	Aug							45.0000	0.15	6.75	6.75
Furrow Irr.	each			1.00	Jun				24.94			0.0083			24.94
Application 1	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 2	ac-in			1.00	Jun			7.52		0.07	0.62	3.0000			8.14
Application 3	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
Application 4	ac-in			1.00	Jul			7.52		0.07	0.62	3.0000			8.14
TOTALS						17.48	22.50	34.38	37.92	0.92	8.20			131.10	251.58
INTEREST ON OPERATING CAPITAL															6.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															257.65

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, Early Season, Furrow 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)						
18	-89	-74	-59	-44	-30	-15	0
20	-80	-64	-48	-32	-16	0	16
22	-70	-53	-35	-18	0	18	35
24	-58	-39	-19	0	19	39	58
27	-43	-22	0	22	43	65	86
30	-24	0	24	49	73	97	121
34	0	28	56	83	111	139	167

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)						
25	-89	-74	-60	-45	-30	-15	0
27	-81	-65	-48	-32	-16	0	16
29	-71	-53	-35	-18	0	18	35
32	-58	-39	-19	0	19	39	58
36	-43	-22	0	22	43	65	87
40	-24	0	24	49	73	98	122
46	0	28	56	84	112	140	168

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)						
20	-89	-74	-59	-45	-30	-15	0
22	-80	-64	-48	-32	-16	0	16
24	-70	-53	-35	-18	0	18	35
27	-58	-39	-19	0	19	39	58
30	-43	-22	0	22	43	65	86
33	-24	0	24	49	73	97	122
38	0	28	56	84	112	139	167

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)						
23	-89	-74	-59	-45	-30	-15	0
25	-81	-65	-48	-32	-16	0	16
27	-71	-53	-35	-18	0	18	35
30	-58	-39	-19	0	19	39	58
33	-43	-22	0	22	43	65	87
38	-24	0	24	49	73	98	122
43	0	28	56	84	112	140	168

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.