

Estimating 2008 Costs of Production Soybean, Full Season, Flood 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	_____
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	0.6964	6.59	_____
Harvesters	hour	9.45	0.1021	0.97	_____
IRRIGATION LABOR					
Flood Irr. - Soybean	hour	8.19	0.1176	0.96	_____
HAND LABOR					
Implements	hour	8.19	0.1190	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.5877	17.69	_____
Harvesters	gal	2.33	1.4457	3.37	_____
Flood Irr. - Soybean	gal	2.33	13.0000	30.29	_____
REPAIR & MAINTENANCE					
Implements	acre	3.96	1.0000	3.96	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	2.03	1.0000	2.03	_____
Flood Irr. - Soybean	ac-in	0.15	13.0000	1.95	_____
INTEREST ON OP. CAP.	acre	8.27	1.0000	8.27	_____

TOTAL DIRECT EXPENSES				220.64	_____
FIXED EXPENSES					
Implements	acre	11.31	1.0000	11.31	_____
Tractors	acre	22.19	1.0000	22.19	_____
Harvesters	acre	9.58	1.0000	9.58	_____
Flood Irr. - Soybean	each	2993.11	0.0083	24.94	_____

TOTAL FIXED EXPENSES				68.02	_____

TOTAL SPECIFIED EXPENSES				288.66	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Full Season, Soybeans, Flood 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	May							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
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
Cultivate	8R-30	MFWD 190	0.103	1.00	Jul	2.73	2.93	0.43	1.40	0.10	0.97				8.46
Land Plane	50'x16'	MFWD 225	0.151	2.00	Jul	9.52	10.21	0.43	1.40	0.30	2.87				24.43
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Jul	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Jul										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Jul	0.01	0.01			0.00					0.02
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
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Aug	0.01	0.01			0.00					0.02
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
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Aug	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Aug										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
Levee Pull (1m/80a)	8 blade	MFWD 170	0.003	0.15	Sep	0.01	0.01			0.00	0.01				0.03
Blade-Scraper	8'-10'	MFWD 105		0.05	Sep										
Levee Splitter (1/80)	8 blade	MFWD 150	0.004	0.10	Sep	0.01	0.01			0.00					0.02
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
Flood Irr. - Soybean	each			1.00	Jul				24.94			0.0083			24.94
Application 1	ac-in			1.00	Jul			9.92		0.03	0.30	4.0000			10.22
Application 2	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 3	ac-in			1.00	Aug			7.44		0.02	0.22	3.0000			7.66
Application 4	ac-in			1.00	Sep			7.44		0.02	0.22	3.0000			7.66
TOTALS						25.98	31.77	36.20	36.25	1.03	9.49			140.70	280.39
INTEREST ON OPERATING CAPITAL															8.27
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															288.66

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, Flood 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)						
21	-100	-83	-67	-50	-33	-17	0
22	-90	-72	-54	-36	-18	0	18
24	-79	-59	-39	-20	0	20	39
27	-65	-43	-22	0	22	43	65
30	-48	-24	0	24	48	72	97
34	-27	0	27	54	82	109	136
39	0	31	62	94	125	156	187

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)						
28	-100	-84	-67	-50	-33	-17	0
30	-91	-73	-54	-36	-18	0	18
33	-79	-59	-40	-20	0	20	40
36	-66	-44	-22	0	22	44	66
40	-49	-24	0	24	49	73	97
45	-27	0	27	55	82	110	137
52	0	32	63	95	126	157	189

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)						
23	-100	-83	-67	-50	-33	-17	0
25	-90	-72	-54	-36	-18	0	18
27	-79	-59	-39	-20	0	20	39
30	-65	-44	-22	0	22	44	65
33	-48	-24	0	24	48	73	97
37	-27	0	27	55	82	109	137
43	0	31	63	94	125	157	188

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)						
26	-100	-84	-67	-50	-33	-17	0
28	-91	-72	-54	-36	-18	0	18
31	-79	-59	-40	-20	0	20	40
34	-65	-44	-22	0	22	44	65
37	-49	-24	0	24	49	73	97
42	-27	0	27	55	82	110	137
49	0	31	63	94	126	157	189

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.