

Estimating 2007 Costs of Production
Double Crop, Border Irrigation, Roundup Ready

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-20-30	lb	0.11	150.0000	17.10	_____
HERBICIDES					
Glyphosate Plus	pt	1.97	6.0000	11.82	_____
INSECTICIDES					
Methyl Parathion 4EC	pt	4.26	1.0000	4.26	_____
IRRIGATION SUPPLIES					
Poly-Pipe	acre	10.30	1.0000	10.30	_____
CROP SEED					
Soybean Seed RR	lb	0.64	60.0000	38.40	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	5.00	3.0000	15.00	_____
Cstm Ap Air Insect	acre	5.60	1.0000	5.60	_____
Cstm Haul Soybeans	bu	0.15	45.0000	6.75	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.3341	3.01	_____
Harvesters	hour	9.00	0.1021	0.92	_____
IRRIGATION LABOR					
Border Irr,	hour	7.80	0.1810	1.41	_____
HAND LABOR					
Implements	hour	7.80	0.0942	0.74	_____
DIESEL FUEL					
Tractors	gal	2.22	3.5918	7.98	_____
Harvesters	gal	2.22	1.4457	3.21	_____
Border Irr,	gal	2.22	9.0000	19.98	_____
REPAIR & MAINTENANCE					
Implements	acre	3.49	1.0000	3.49	_____
Tractors	acre	1.23	1.0000	1.23	_____
Harvesters	acre	1.99	1.0000	1.99	_____
Border Irr,	ac-in	0.29	9.0000	2.64	_____
INTEREST ON OP. CAP.	acre	5.07	1.0000	5.07	_____
TOTAL DIRECT EXPENSES				165.90	_____
FIXED EXPENSES					
Implements	acre	10.14	1.0000	10.14	_____
Tractors	acre	9.50	1.0000	9.50	_____
Harvesters	acre	9.53	1.0000	9.53	_____
Border Irr,	each	3038.56	0.0083	25.32	_____
TOTAL FIXED EXPENSES				54.49	_____
TOTAL SPECIFIED EXPENSES				220.39	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Double Crop, Soybeans, Border Irrigation, Roundup Ready, 2007

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-----			
Cstm Ap Grd Fert 0-20-30	acre lb			1.00	Oct							1.0000	5.00	5.00	5.00
Disk Harrow	28'	MFWD 225	0.070	2.00	Jun	4.17	4.34	1.15	3.03	0.14	1.26	150.0000	0.11	17.10	17.10
Field Cultivate	32'	MFWD 225	0.046	1.00	Jun	1.39	1.44	0.31	1.64	0.04	0.42				5.20
Field Cultivate	32'	MFWD 225	0.046	1.00	Jun	1.39	1.44	0.31	1.64	0.04	0.42				5.20
Grain Drill	20'	2WD 170	0.094	1.00	Jun	2.10	2.10	1.12	2.69	0.18	1.59				9.60
Soybean Seed RR	lb											60.0000	0.64	38.40	38.40
Cstm Ap Grd. Herb	acre			1.00	Jun							1.0000	5.00	5.00	5.00
Glyphosate Plus	pt											2.0000	1.97	3.94	3.94
Levee Disk (SL)	8 blade	MFWD 190	0.012	0.50	Jul	0.16	0.18	0.01	0.04	0.00	0.06				0.45
Poly-Pipe	acre			1.00	Jul							1.0000	10.30	10.30	10.30
Cstm Ap Grd. Herb	acre			1.00	Jul							1.0000	5.00	5.00	5.00
Glyphosate Plus	pt											2.0000	1.97	3.94	3.94
Cstm Ap Air Insect	acre			1.00	Jul							1.0000	5.60	5.60	5.60
Methyl Parathion 4EC	pt											1.0000	4.26	4.26	4.26
Cstm Ap Grd. Herb	acre			1.00	Aug							1.0000	5.00	5.00	5.00
Glyphosate Plus	pt											2.0000	1.97	3.94	3.94
Header - Soybean	25' Flex	275hp	0.102	1.00	Oct	5.20	9.53	0.59	1.10	0.10	0.92				17.34
Cstm Haul Soybeans	bu			1.00	Oct							45.0000	0.15	6.75	6.75
Border Irr,	each			1.00	Jul							0.0083			25.32
Application 1	ac-in			1.00	Jul			7.54		0.06	0.47	3.0000			8.01
Application 2	ac-in			1.00	Aug			7.54		0.06	0.47	3.0000			8.01
Application 3	ac-in			1.00	Aug			7.54		0.06	0.47	3.0000			8.01
TOTALS						14.41	19.03	26.11	35.46	0.71	6.08			114.23	215.32
INTEREST ON OPERATING CAPITAL															5.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															220.39

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, Double Crop, Border Irrigated, Roundup Ready, 2007

Farm Owner

BEY (bu/acre)	Crop Price (\$/bu)						
	4.55	5.20	5.85	6.50	7.15	7.80	8.45
	Returns above Variable Costs (\$/Acre)						
19	-75	-62	-50	-37	-25	-12	0
21	-68	-54	-41	-27	-14	0	14
23	-59	-44	-30	-15	0	15	30
25	-49	-33	-16	0	16	33	49
28	-36	-18	0	18	36	54	73
32	-20	0	20	41	61	82	102
36	0	24	47	71	94	118	141

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	4.55	5.20	5.85	6.50	7.15	7.80	8.45
	Returns above Variable Costs (\$/Acre)						
26	-75	-63	-50	-38	-25	-13	0
28	-68	-54	-41	-27	-14	0	14
31	-60	-45	-30	-15	0	15	30
34	-49	-33	-16	0	16	33	49
38	-37	-18	0	18	37	55	73
42	-21	0	21	41	62	83	103
49	0	24	48	71	95	119	143

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)						
	4.55	5.20	5.85	6.50	7.15	7.80	8.45
	Returns above Variable Costs (\$/Acre)						
21	-75	-62	-50	-37	-25	-12	0
23	-68	-54	-41	-27	-14	0	14
25	-59	-44	-30	-15	0	15	30
28	-49	-33	-16	0	16	33	49
31	-36	-18	0	18	36	55	73
35	-21	0	21	41	62	82	103
40	0	24	47	71	94	118	142

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)						
	4.55	5.20	5.85	6.50	7.15	7.80	8.45
	Returns above Variable Costs (\$/Acre)						
24	-75	-63	-50	-38	-25	-13	0
26	-68	-54	-41	-27	-14	0	14
29	-59	-45	-30	-15	0	15	30
32	-49	-33	-16	0	16	33	49
35	-37	-18	0	18	37	55	73
40	-21	0	21	41	62	83	103
46	0	24	47	71	95	119	142

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 100% of Fixed Irrigation Expenses