

Estimating 2008 Costs of Production
Wheat Following Rice, Clay Soils

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS ¹					
DAP 18-46-0	lb	0.23	150.0000	35.33	_____
Urea, Solid (46% N)	lb	0.19	320.0000	63.06	_____
HERBICIDES					
Harmony Extra 75 DF	oz	13.94	0.5000	6.97	_____
CROP SEED					
Wheat Seed Public	lb	0.27	120.0000	32.40	_____
ADJUVANTS					
Surfactant (80-20)	pt	1.29	0.2000	0.26	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Fert	lb	0.05	320.0000	17.92	_____
Cstm Ap Air - 5 gal	appl	5.50	1.0000	5.50	_____
Cstm Haul Wheat	bu	0.15	50.0000	7.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.3103	2.93	_____
Harvesters	hour	9.45	0.0851	0.80	_____
HAND LABOR					
Implements	hour	8.19	0.0942	0.77	_____
DIESEL FUEL					
Tractors	gal	2.20	3.2445	7.14	_____
Harvesters	gal	2.20	1.4243	3.13	_____
REPAIR & MAINTENANCE					
Implements	acre	3.07	1.0000	3.07	_____
Tractors	acre	1.12	1.0000	1.12	_____
Harvesters	acre	1.90	1.0000	1.90	_____
INTEREST ON OP. CAP.	acre	8.35	1.0000	8.35	_____
TOTAL DIRECT EXPENSES				203.15	_____
FIXED EXPENSES					
Implements	acre	8.15	1.0000	8.15	_____
Tractors	acre	8.48	1.0000	8.48	_____
Harvesters	acre	8.98	1.0000	8.98	_____
TOTAL FIXED EXPENSES				25.61	_____
TOTAL SPECIFIED EXPENSES				228.76	_____

¹ fertilizer rates are for single crop wheat; not for a soybean-wheat double crop.

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View or print all of the Arkansas crop budgets at <http://www.aragriculture.org/crops/wheat/budgets/2008/default.htm>

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Table 2. Estimated resource use and costs for field operations, per acre, Wheat Following Rice, Clay Soils, 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	Oct	4.13	4.28	1.15	2.98	0.14	1.33					13.87
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	5.00	5.00		5.00
DAP 18-46-0	lb											150.0000	0.23	35.33		35.33
Field Cultivate	32'	MFWD 225	0.046	1.00	Oct	1.38	1.42	0.31	1.62	0.04	0.44					5.17
Grain Drill	20'	2WD 190	0.094	1.00	Oct	2.35	2.42	1.12	2.65	0.18	1.66					10.20
Wheat Seed Public	lb											120.0000	0.27	32.40		32.40
Ditcher	3	MFWD 105	2.909	0.01	Oct	0.40	0.36	0.05	0.08	0.02	0.27					1.16
Cstm Ap Air Fert	lb			1.00	Feb							160.0000	0.05	8.96		8.96
Urea, Solid (46% N)	lb											160.0000	0.19	31.53		31.53
Cstm Ap Air - 5 gal appl				1.00	Mar							1.0000	5.50	5.50		5.50
Harmony Extra 75 DF	oz											0.5000	13.94	6.97		6.97
Surfactant (80-20)	pt											0.2000	1.29	0.26		0.26
Cstm Ap Air Fert	lb			1.00	Mar							160.0000	0.05	8.96		8.96
Urea, Solid (46% N)	lb											160.0000	0.19	31.53		31.53
Header Wheat/Sorghum	30'	Rigid 325hp	0.085	1.00	Jun	5.03	8.98	0.44	0.82	0.08	0.80					16.07
Cstm Haul Wheat	bu											50.0000	0.15	7.50		7.50
TOTALS						13.29	17.46	3.07	8.15	0.48	4.50			173.94		220.41
INTEREST ON OPERATING CAPITAL																8.35
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																228.76

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.

View or print all of the Arkansas crop budgets at <http://www.aragriculture.org/crops/wheat/budgets/2008/default.htm>

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.

Wheat, Following Rice, Clay Soils, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.15	3.50	3.85	4.20	4.55	4.90	5.25
	Returns above Variable Costs (\$/Acre)						
38	-81	-67	-54	-40	-27	-13	0
41	-72	-58	-43	-29	-14	0	14
44	-62	-47	-31	-16	0	16	31
48	-51	-34	-17	0	17	34	51
53	-37	-19	0	19	37	56	74
58	-20	0	20	41	61	82	102
65	0	23	46	68	91	114	137

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.15	3.50	3.85	4.20	4.55	4.90	5.25
	Returns above Variable Costs (\$/Acre)						
52	-81	-68	-54	-41	-27	-14	0
56	-73	-58	-44	-29	-15	0	15
60	-63	-47	-31	-16	0	16	31
65	-51	-34	-17	0	17	34	51
71	-38	-19	0	19	38	56	75
79	-21	0	21	42	62	83	104
88	0	23	46	70	93	116	139

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Tenant 50-50 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.15	3.50	3.85	4.20	4.55	4.90	5.25
	Returns above Variable Costs (\$/Acre)						
51	-54	-45	-36	-27	-18	-9	0
55	-48	-39	-29	-19	-10	0	10
60	-42	-31	-21	-10	0	10	21
65	-34	-23	-11	0	11	23	34
71	-25	-12	0	12	25	37	50
79	-14	0	14	28	42	55	69
89	0	16	31	47	62	78	93

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain

Landowner Pays 50% of:

Seed, Fertilizer, Herbicides, Fungicides,
Insecticides, and Custom Application Costs.

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.15	3.50	3.85	4.20	4.55	4.90	5.25
	Returns above Variable Costs (\$/Acre)						
48	-81	-68	-54	-41	-27	-14	0
52	-73	-58	-44	-29	-15	0	15
56	-63	-47	-31	-16	0	16	31
61	-51	-34	-17	0	17	34	51
67	-37	-19	0	19	37	56	75
74	-21	0	21	41	62	83	103
83	0	23	46	69	92	116	139

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain