

## Estimating 2010 Costs of Production Wheat Following Crops Other Than Rice, Sand/Silt Loam Soils

AG-1255-08-09

**Scott Stiles, Instructor / Economics**  
**Jason Kelley, Associate Professor / Extension Wheat Specialist**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
DAP 18-46-0	lb	0.19	150.0000	29.06	_____
Urea - (46% N)	lb	0.18	250.0000	46.88	_____
HERBICIDES					
Harmony Extra XP	oz	14.50	0.5000	7.25	_____
CROP SEED					
Wheat Seed Private	lb	0.25	100.0000	25.90	_____
ADJUVANTS					
Surfactant	oz	0.09	12.0000	1.17	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Air Fert	lb	0.06	250.0000	15.63	_____
Cstm Ap Air Herb	acre	6.00	1.0000	6.00	_____
Cstm Haul Wheat	bu	0.21	50.0000	10.50	_____
OPERATOR LABOR					
Tractors	hour	9.82	0.3103	3.06	_____
Harvesters	hour	9.82	0.1021	1.00	_____
HAND LABOR					
Implements	hour	9.37	0.0942	0.88	_____
DIESEL FUEL					
Tractors	gal	2.26	3.2445	7.33	_____
Harvesters	gal	2.26	1.2617	2.85	_____
REPAIR & MAINTENANCE					
Implements	acre	3.10	1.0000	3.10	_____
Tractors	acre	1.12	1.0000	1.12	_____
Harvesters	acre	1.76	1.0000	1.76	_____
INTEREST ON OP. CAP.	acre	4.07	1.0000	4.07	_____
				-----	
TOTAL DIRECT EXPENSES				172.55	_____
FIXED EXPENSES					
Implements	acre	6.75	1.0000	6.75	_____
Tractors	acre	7.11	1.0000	7.11	_____
Harvesters	acre	7.03	1.0000	7.03	_____
				-----	
TOTAL FIXED EXPENSES				20.89	_____
				-----	
TOTAL SPECIFIED EXPENSES				193.44	_____

<sup>1</sup> fertilizer rates are for single crop wheat; not for a soybean-wheat double crop.

Visit our web site at: <http://www.uaex.edu>

View or print all of the Arkansas crop budgets at [http://www.uaex.edu/depts/ag\\_economics/crop\\_budgets.htm](http://www.uaex.edu/depts/ag_economics/crop_budgets.htm)

University of Arkansas, United States Department of Agriculture and County Governments Cooperating  
The Division of Agriculture offers its programs to all eligible persons regardless of race, color, national origin, religion, gender, age, disability,  
marital or veteran status, or any other legally protected status, and is an Affirmative Action/Equal Opportunity Employer..

Table 2. Estimated resource use and costs for field operations, per acre, Wheat Following Crops Other Than Rice, Sand/Silt Loam Soils, 2010

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk Harrow	28'	MFWD 225	0.070	2.00	Oct	4.23	3.59	1.15	2.46	0.14	1.38				12.81
Cstm Ap Grd Fert	acre			1.00	Oct							1.0000	5.00	5.00	5.00
DAP 18-46-0	lb											150.0000	0.19	29.06	29.06
Field Cultivate	32'	MFWD 225	0.046	1.00	Oct	1.41	1.19	0.31	1.33	0.04	0.46				4.70
Grain Drill	20'	2WD 190	0.094	1.00	Oct	2.40	2.03	1.12	2.17	0.18	1.81				9.53
Wheat Seed Private	lb											100.0000	0.25	25.90	25.90
Ditcher	3	MFWD 105	2.909	0.01	Oct	0.41	0.30	0.05	0.07	0.02	0.29				1.12
Cstm Ap Air Fert	lb			1.00	Feb							125.0000	0.06	7.81	7.81
Urea - (46% N)	lb											125.0000	0.18	23.44	23.44
Cstm Ap Air Herb	acre			1.00	Mar							1.0000	6.00	6.00	6.00
Harmony Extra XP	oz											0.5000	14.50	7.25	7.25
Surfactant	oz											12.0000	0.09	1.17	1.17
Cstm Ap Air Fert	lb			1.00	Mar							125.0000	0.06	7.81	7.81
Urea - (46% N)	lb											125.0000	0.18	23.44	23.44
Header Wheat/Sorghum	25' Rigid	240hp	0.102	1.00	Jun	4.61	7.03	0.47	0.72	0.10	1.00				13.83
Cstm Haul Wheat	bu											50.0000	0.21	10.50	10.50
TOTALS						13.06	14.14	3.10	6.75	0.50	4.94			147.38	189.37
INTEREST ON OPERATING CAPITAL															4.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															193.44

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.uaex.edu/depts/ag\\_economics/crop\\_budgets.htm](http://www.uaex.edu/depts/ag_economics/crop_budgets.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 Crops Other Than Rice, Sand/Silt Loam Soils, 2010**

**Farm Owner**

BEY (bu/acre)	Crop Price (\$/bu)						
	3.60	4.00	4.40	4.80	5.20	5.60	6.00
	Returns above Variable Costs (\$/Acre)						
28	-66	-55	-44	-33	-22	-11	0
30	-59	-48	-36	-24	-12	0	12
32	-51	-39	-26	-13	0	13	26
35	-42	-28	-14	0	14	28	42
38	-31	-15	0	15	31	46	61
42	-17	0	17	34	51	67	84
47	0	19	38	56	75	94	113

Farm Owner is assumed to have 100% Equity in Land

**Tenant 75-25 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	3.60	4.00	4.40	4.80	5.20	5.60	6.00
	Returns above Variable Costs (\$/Acre)						
37	-67	-56	-45	-34	-22	-11	0
40	-60	-48	-36	-24	-12	0	12
43	-52	-39	-26	-13	0	13	26
47	-42	-28	-14	0	14	28	42
51	-31	-15	0	15	31	46	62
57	-17	0	17	34	51	68	85
64	0	19	38	57	76	95	114

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

**Tenant 50-50 Cost-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	3.60	4.00	4.40	4.80	5.20	5.60	6.00
	Returns above Variable Costs (\$/Acre)						
38	-45	-38	-30	-23	-15	-8	0
40	-40	-32	-24	-16	-8	0	8
44	-35	-26	-17	-9	0	9	17
48	-29	-19	-10	0	10	19	29
52	-21	-10	0	10	21	31	42
58	-12	0	12	23	35	46	58
65	0	13	26	39	52	65	78

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays 50% of:

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

**Tenant 80-20 Crop-Share**

BEY (bu/acre)	Crop Price (\$/bu)						
	3.60	4.00	4.40	4.80	5.20	5.60	6.00
	Returns above Variable Costs (\$/Acre)						
35	-67	-56	-45	-33	-22	-11	0
37	-60	-48	-36	-24	-12	0	12
40	-52	-39	-26	-13	0	13	26
44	-42	-28	-14	0	14	28	42
48	-31	-15	0	15	31	46	62
53	-17	0	17	34	51	68	85
59	0	19	38	57	76	95	114

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.