Estimating 2010 Costs of Production
Wheat Following Rice, Sand/Silt Loam Soils

AG-1253-08-09

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	290.0000	54.38	_____
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	290.0000	18.13	_____
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	4.26	1.0000	4.26	_____

TOTAL DIRECT EXPENSES				182.74	_____
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				203.63	_____

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

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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							145.0000	0.06	9.06	9.06
Urea - (46% N)	lb											145.0000	0.18	27.19	27.19
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							145.0000	0.06	9.06	9.06
Urea - (46% N)	lb											145.0000	0.18	27.19	27.19
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			157.38	199.37
INTEREST ON OPERATING CAPITAL															4.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															203.63

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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, 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)						
29	**-71**	**-59**	**-47**	**-35**	**-24**	**-12**	0
32	**-63**	**-51**	**-38**	**-25**	**-13**	0	13
34	**-55**	**-41**	**-27**	**-14**	0	14	27
37	**-44**	**-30**	**-15**	0	15	30	44
41	**-32**	**-16**	0	16	32	49	65
45	**-18**	0	18	36	54	72	89
50	0	20	40	60	80	100	120

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)						
40	**-71**	**-59**	**-48**	**-36**	**-24**	**-12**	0
43	**-64**	**-51**	**-38**	**-26**	**-13**	0	13
46	**-55**	**-41**	**-28**	**-14**	0	14	28
50	**-45**	**-30**	**-15**	0	15	30	45
55	**-33**	**-16**	0	16	33	49	66
60	**-18**	0	18	36	54	73	91
68	0	20	41	61	81	101	122

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)						
40	**-48**	**-40**	**-32**	**-24**	**-16**	**-8**	0
43	**-43**	**-34**	**-26**	**-17**	**-9**	0	9
46	**-37**	**-28**	**-19**	**-9**	0	9	19
50	**-30**	**-20**	**-10**	0	10	20	30
55	**-22**	**-11**	0	11	22	33	44
61	**-12**	0	12	25	37	49	61
69	0	14	27	41	55	69	82

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)						
37	**-71**	**-59**	**-47**	**-36**	**-24**	**-12**	0
40	**-64**	**-51**	**-38**	**-25**	**-13**	0	13
43	**-55**	**-41**	**-27**	**-14**	0	14	27
47	**-45**	**-30**	**-15**	0	15	30	45
51	**-33**	**-16**	0	16	33	49	65
56	**-18**	0	18	36	54	72	90
63	0	20	40	61	81	101	121

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Estimating 2010 Costs of Production
Wheat Following Rice, Clay Soils

AG-1254-08-09

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	320.0000	60.00	_____
HERBICIDES					
Harmony Extra XP	oz	14.50	0.5000	7.25	_____
CROP SEED					
Wheat Seed Private	lb	0.25	120.0000	31.08	_____
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	320.0000	20.00	_____
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	4.59	1.0000	4.59	_____

TOTAL DIRECT EXPENSES				195.75	_____
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				216.64	_____

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

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Table 2. Estimated resource use and costs for field operations, per acre, Wheat Following Rice, Clay Soils, 2010.

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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											120.0000	0.25	31.08	31.08
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							160.0000	0.06	10.00	10.00
Urea - (46% N)	lb											160.0000	0.18	30.00	30.00
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							160.0000	0.06	10.00	10.00
Urea - (46% N)	lb											160.0000	0.18	30.00	30.00
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			170.06	212.05
INTEREST ON OPERATING CAPITAL															4.59
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															216.64

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Wheat, Following Rice, Clay 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)						
32	**-76**	**-63**	**-51**	**-38**	**-25**	**-13**	0
34	**-68**	**-54**	**-41**	**-27**	**-14**	0	14
37	**-59**	**-44**	**-29**	**-15**	0	15	29
40	**-48**	**-32**	**-16**	0	16	32	48
44	**-35**	**-17**	0	17	35	52	70
48	**-19**	0	19	38	58	77	96
54	0	21	43	64	86	107	129

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)						
43	**-77**	**-64**	**-51**	**-38**	**-26**	**-13**	0
46	**-69**	**-55**	**-41**	**-27**	**-14**	0	14
49	**-59**	**-44**	**-30**	**-15**	0	15	30
54	**-48**	**-32**	**-16**	0	16	32	48
59	**-35**	**-18**	0	18	35	53	71
65	**-20**	0	20	39	59	78	98
73	0	22	44	65	87	109	131

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)						
42	**-51**	**-42**	**-34**	**-25**	**-17**	**-8**	0
46	**-46**	**-37**	**-27**	**-18**	**-9**	0	9
49	**-40**	**-30**	**-20**	**-10**	0	10	20
54	**-32**	**-22**	**-11**	0	11	22	32
59	**-24**	**-12**	0	12	24	35	47
65	**-13**	0	13	26	39	52	65
73	0	15	29	44	59	73	88

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)						
40	**-76**	**-64**	**-51**	**-38**	**-25**	**-13**	0
43	**-68**	**-55**	**-41**	**-27**	**-14**	0	14
46	**-59**	**-44**	**-30**	**-15**	0	15	30
50	**-48**	**-32**	**-16**	0	16	32	48
55	**-35**	**-18**	0	18	35	53	70
61	**-19**	0	19	39	58	78	97
68	0	22	43	65	87	109	130

Landowner Receives 20% of the Crop
Tenant Pays 100% of Hauling Crop to Grain Elevator.

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

AG-1255-08-09

Scott Stiles, Instructor / Economics
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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	_____

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

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						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

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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.

Estimating 2010 Costs of Production
Wheat Following Crops Other Than Rice, Clay Soils

AG-1256-08-09

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	300.0000	56.25	_____
HERBICIDES					
Harmony Extra XP	oz	14.50	0.5000	7.25	_____
CROP SEED					
Wheat Seed Private	lb	0.25	120.0000	31.08	_____
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	300.0000	18.75	_____
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	4.51	1.0000	4.51	_____

TOTAL DIRECT EXPENSES				190.69	_____
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				211.58	_____

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

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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											120.0000	0.25	31.08	31.08
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							150.0000	0.06	9.38	9.38
Urea - (46% N)	lb											150.0000	0.18	28.13	28.13
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							150.0000	0.06	9.38	9.38
Urea - (46% N)	lb											150.0000	0.18	28.13	28.13
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			165.08	207.07
INTEREST ON OPERATING CAPITAL															4.51
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															211.58

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

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, Clay 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)						
31	**-74**	**-62**	**-49**	**-37**	**-25**	**-12**	0
33	**-66**	**-53**	**-40**	**-26**	**-13**	0	13
36	**-57**	**-43**	**-29**	**-14**	0	14	29
39	**-47**	**-31**	**-16**	0	16	31	47
42	**-34**	**-17**	0	17	34	51	68
47	**-19**	0	19	37	56	75	94
52	0	21	42	63	84	104	125

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)						
41	**-75**	**-62**	**-50**	**-37**	**-25**	**-12**	0
44	**-67**	**-53**	**-40**	**-27**	**-13**	0	13
48	**-58**	**-43**	**-29**	**-14**	0	14	29
52	**-47**	**-31**	**-16**	0	16	31	47
57	**-34**	**-17**	0	17	34	51	69
63	**-19**	0	19	38	57	76	95
71	0	21	42	64	85	106	127

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)						
41	**-50**	**-41**	**-33**	**-25**	**-17**	**-8**	0
44	**-44**	**-36**	**-27**	**-18**	**-9**	0	9
48	**-38**	**-29**	**-19**	**-10**	0	10	19
52	**-31**	**-21**	**-10**	0	10	21	31
57	**-23**	**-11**	0	11	23	34	46
64	**-13**	0	13	25	38	51	64
71	0	14	29	43	57	71	86

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)						
39	**-74**	**-62**	**-50**	**-37**	**-25**	**-12**	0
42	**-67**	**-53**	**-40**	**-27**	**-13**	0	13
45	**-58**	**-43**	**-29**	**-14**	0	14	29
49	**-47**	**-31**	**-16**	0	16	31	47
53	**-34**	**-17**	0	17	34	51	68
59	**-19**	0	19	38	57	76	95
66	0	21	42	63	84	106	127

Landowner Receives 20% of the Crop
Tenant Pays 100% of Hauling Crop to Grain Elevator.

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

AG-1257-08-09

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	_____
Liquid Nitrogen 32%	qt	0.30	2.0000	0.61	_____
FUNGICIDES					
Quilt	oz	1.11	14.0000	15.54	_____
HERBICIDES					
Finesse	oz	16.85	0.5000	8.43	_____
Osprey 4.5 DF	oz	2.95	4.7500	14.01	_____
CROP SEED					
Wheat Seed Private	lb	0.25	100.0000	25.90	_____
ADJUVANTS					
Surfactant	oz	0.09	6.4000	0.62	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	5.00	2.0000	10.00	_____
Cstm Ap Air Fert	lb	0.06	250.0000	15.63	_____
Cstm Ap Air Fung	acre	6.25	1.0000	6.25	_____
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	4.97	1.0000	4.97	_____

TOTAL DIRECT EXPENSES				214.49	_____
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				235.38	_____

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

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST DIRECT	POWER UNIT COST FIXED	EQUIPMENT COST DIRECT	EQUIPMENT COST FIXED	ALLOC LABOR HOURS	ALLOC LABOR COST	OPERATING/DURABLE INPUT AMOUNT	OPERATING/DURABLE INPUT PRICE	OPERATING/DURABLE INPUT COST	TOTAL 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
Cstm Ap Grd. Herb	acre			1.00	Oct							1.0000	5.00	5.00	5.00
Finesse	oz											0.5000	16.85	8.43	8.43
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 Grd. Herb	acre			1.00	Feb							1.0000	5.00	5.00	5.00
Osprey 4.5 DF	oz											4.7500	2.95	14.01	14.01
Surfactant	oz											6.4000	0.09	0.62	0.62
Liquid Nitrogen 32%	qt											2.0000	0.30	0.61	0.61
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
Cstm Ap Air Fung	acre			1.00	Apr							1.0000	6.25	6.25	6.25
Quilt	oz											14.0000	1.11	15.54	15.54
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			188.42	230.41
INTEREST ON OPERATING CAPITAL															4.97
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															235.38

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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, Intense Management, 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)						
35	**-85**	**-70**	**-56**	**-42**	**-28**	**-14**	0
38	**-76**	**-61**	**-45**	**-30**	**-15**	0	15
41	**-65**	**-49**	**-33**	**-16**	0	16	33
44	**-53**	**-36**	**-18**	0	18	36	53
49	**-39**	**-19**	0	19	39	58	78
54	**-22**	0	22	43	65	86	108
60	0	24	48	72	96	120	144

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)						
48	**-86**	**-71**	**-57**	**-43**	**-29**	**-14**	0
51	**-77**	**-61**	**-46**	**-31**	**-15**	0	15
55	**-66**	**-50**	**-33**	**-17**	0	17	33
60	**-54**	**-36**	**-18**	0	18	36	54
66	**-40**	**-20**	0	20	40	59	79
73	**-22**	0	22	44	66	88	110
82	0	25	49	74	98	123	147

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)						
48	**-57**	**-48**	**-38**	**-29**	**-19**	**-10**	0
52	**-52**	**-41**	**-31**	**-21**	**-10**	0	10
56	**-45**	**-34**	**-22**	**-11**	0	11	22
61	**-37**	**-24**	**-12**	0	12	24	37
67	**-27**	**-13**	0	13	27	40	54
75	**-15**	0	15	30	45	60	75
84	0	17	34	50	67	84	101

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)						
44	**-85**	**-71**	**-57**	**-43**	**-28**	**-14**	0
48	**-76**	**-61**	**-46**	**-31**	**-15**	0	15
52	**-66**	**-50**	**-33**	**-17**	0	17	33
56	**-54**	**-36**	**-18**	0	18	36	54
62	**-39**	**-20**	0	20	39	59	79
68	**-22**	0	22	44	65	87	109
76	0	24	49	73	98	122	147

Landowner Receives 20% of the Crop
Tenant Pays 100% of Hauling Crop to Grain Elevator.