



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Rice, Silt Loam Soils, Eastern Arkansas

AG-1209-11-08

Brad Watkins, Extension Economist
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Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	333.0000	99.90	_____
Agrotain	lburea	0.02	233.0000	5.59	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Command 3ME	pt	12.93	0.8000	10.34	_____
Propanil	pt	3.75	7.6000	28.50	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Facet 75DF	lb	52.09	0.2500	13.02	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Release Seed Trt	lbseed	0.03	92.0000	3.58	_____
Fungicide Seed Trt	lbseed	0.06	92.0000	5.87	_____
Rice Conv.	lbseed	0.27	92.0000	24.84	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Fert	lb	0.07	333.0000	24.98	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.9146	9.08	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1692	1.47	_____
DIESEL FUEL					
Tractors	gal	2.60	8.7724	22.81	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	Acre	6.02	1.0000	6.02	_____
Tractors	Acre	3.35	1.0000	3.35	_____
Harvesters	Acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	Acre	20.81	1.0000	20.81	_____

TOTAL DIRECT EXPENSES				690.43	_____
FIXED EXPENSES					
Implements	Acre	15.80	1.0000	15.80	_____
Tractors	Acre	24.56	1.0000	24.56	_____
Harvesters	Acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____

TOTAL FIXED EXPENSES				89.14	_____

TOTAL SPECIFIED EXPENSES				779.57	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
0-60-90	acre											1.0000	147.51	147.51		147.51
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.36	1.26	0.32	1.61	0.04	0.46					5.01
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.49	2.52	1.12	2.55	0.18	1.75					10.43
Release Seed Trt	lbseed											83.0000	0.03	3.23		3.23
Fungicide Seed Trt	lbseed											83.0000	0.06	5.30		5.30
Rice Conv.	lbseed											83.0000	0.27	22.41		22.41
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.23	1.25	0.10	0.66	0.04	0.46					3.70
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											0.8000	12.93	10.34		10.34
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50					3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Release Seed Trt	lbseed											9.0000	0.03	0.35		0.35
Fungicide Seed Trt	lbseed											9.0000	0.06	0.57		0.57
Rice Conv.	lbseed											9.0000	0.27	2.43		2.43
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.07	17.47		17.47
Urea, Solid (46% N)	lb.											233.0000	0.30	69.90		69.90
Agrotain	lburea											233.0000	0.02	5.59		5.59
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Propanil	pt											6.0000	3.75	22.50		22.50
Permit 75 DF	oz											1.0000	18.07	18.07		18.07
Facet 75DF	lb											0.2500	52.09	13.02		13.02
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25		2.25
Foliar Fungicide	acre											0.3000	26.94	8.08		8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Haul Rice	bu											160.0000	0.22	35.20		35.20
Dry Rice	bu											160.0000	0.35	56.00		56.00
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74					5.61
Flood Irr - Rice	each			1.00	May				25.39			0.0083				25.39
Apply Water	ac-in								83.17	0.45	3.89	30.0000				87.06
TOTALS						40.65	47.95	89.19	41.19	1.79	16.96			522.82		758.76
INTEREST ON OPERATING CAPITAL																20.81
TOTAL SPECIFIED COST																779.57

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. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
87	-156	-130	-104	-78	-52	-26	0
91	-136	-109	-81	-54	-27	0	27
96	-114	-85	-57	-28	0	28	57
100	-90	-60	-30	0	30	60	90
106	-63	-31	0	31	63	94	126
111	-33	0	33	66	99	133	166
118	0	35	70	105	140	175	210

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
118	-157	-131	-105	-79	-52	-26	0
123	-137	-110	-82	-55	-27	0	27
129	-115	-86	-58	-29	0	29	58
135	-91	-60	-30	0	30	60	91
143	-64	-32	0	32	64	95	127
151	-34	0	34	67	101	134	168
160	0	36	71	107	142	178	214

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
92	-82	-68	-55	-41	-27	-14	0
96	-72	-57	-43	-29	-14	0	14
101	-60	-45	-30	-15	0	15	30
106	-47	-32	-16	0	16	32	47
112	-33	-17	0	17	33	50	67
119	-18	0	18	35	53	71	88
126	0	19	37	56	75	94	112

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
110	-157	-131	-105	-79	-52	-26	0
115	-137	-109	-82	-55	-27	0	27
120	-115	-86	-57	-29	0	29	57
127	-90	-60	-30	0	30	60	90
133	-63	-32	0	32	63	95	127
141	-33	0	33	67	100	134	167
149	0	35	71	106	142	177	213

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



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Jeffrey Hignight, Program Associate

Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Urea, Solid (46% N)	lb.	0.30	400.0000	120.00	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Command 3ME	pt	12.93	1.5000	19.40	_____
Propanil	pt	3.75	7.6000	28.50	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Facet 75DF	lb	52.09	0.5000	26.05	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Release Seed Trt	lbseed	0.03	101.0000	3.93	_____
Fungicide Seed Trt	lbseed	0.06	101.0000	6.44	_____
Rice Conv.	lbseed	0.27	101.0000	27.27	_____
CUSTOM HIRE					
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Fert	lb	0.07	400.0000	30.00	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	1.0146	10.07	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.5430	4.67	_____
HAND LABOR					
Implements	hour	8.60	0.1692	1.47	_____
DIESEL FUEL					
Tractors	gal	2.60	9.7504	25.35	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	36.0002	93.60	_____
REPAIR & MAINTENANCE					
Implements	acre	6.14	1.0000	6.14	_____
Tractors	acre	3.72	1.0000	3.72	_____
Harvesters	acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	36.0000	6.21	_____
INTEREST ON OP. CAP.	acre	17.29	1.0000	17.29	_____

TOTAL DIRECT EXPENSES				599.82	_____
FIXED EXPENSES					
Implements	acre	16.54	1.0000	16.54	_____
Tractors	acre	27.27	1.0000	27.27	_____
Harvesters	acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____

TOTAL FIXED EXPENSES				92.59	_____

TOTAL SPECIFIED EXPENSES				692.41	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clay Soils, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.36	1.26	0.32	1.61	0.04	0.46					5.01
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.49	2.52	1.12	2.55	0.18	1.75					10.43
Release Seed Trt	lbseed											90.0000	0.03	3.50		3.50
Fungicide Seed Trt	lbseed											90.0000	0.06	5.74		5.74
Rice Conv.	lbseed											90.0000	0.27	24.30		24.30
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.23	1.25	0.10	0.66	0.04	0.46					3.70
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											1.5000	12.93	19.40		19.40
Pull Levees	8 blade	MFWD 190	0.025	4.00	Apr	2.91	2.71	0.12	0.74	0.10	0.99					7.47
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Release Seed Trt	lbseed											11.0000	0.03	0.43		0.43
Fungicide Seed Trt	lbseed											11.0000	0.06	0.70		0.70
Rice Conv.	lbseed											11.0000	0.27	2.97		2.97
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.07	22.50		22.50
Urea, Solid (46% N)	lb.											300.0000	0.30	90.00		90.00
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Propanil	pt											6.0000	3.75	22.50		22.50
Permit 75 DF	oz											1.0000	18.07	18.07		18.07
Facet 75DF	lb											0.5000	52.09	26.05		26.05
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25		2.25
Foliar Fungicide	acre											0.3000	26.94	8.08		8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00		56.00
Haul Rice	bu											160.0000	0.22	35.20		35.20
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Tear Down Levees	8 blade	MFWD 190	0.025	5.00	Oct	3.64	3.38	0.15	0.93	0.12	1.24					9.34
Flood Irr - Rice	each			1.00	May							0.0083				25.39
Apply Water	ac-in								99.81	0.54	4.67	36.0000				104.48
TOTALS						43.56	50.66	105.95	41.93	1.98	18.73				414.29	675.12
INTEREST ON OPERATING CAPITAL																17.29
TOTAL SPECIFIED COST																692.41

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Clay Soils, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
74	-132	-110	-88	-66	-44	-22	0
77	-115	-92	-69	-46	-23	0	23
81	-96	-72	-48	-24	0	24	48
85	-76	-51	-25	0	25	51	76
90	-53	-27	0	27	53	80	107
95	-28	0	28	56	84	113	141
100	0	30	60	89	119	149	179

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
100	-134	-111	-89	-67	-45	-22	0
104	-116	-93	-70	-47	-23	0	23
109	-98	-73	-49	-24	0	24	49
115	-77	-51	-26	0	26	51	77
121	-54	-27	0	27	54	81	108
128	-29	0	29	57	86	114	143
135	0	30	60	91	121	151	181

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
76	-68	-57	-45	-34	-23	-11	0
80	-59	-47	-36	-24	-12	0	12
84	-50	-37	-25	-12	0	12	25
88	-39	-26	-13	0	13	26	39
93	-28	-14	0	14	28	41	55
98	-15	0	15	29	44	58	73
104	0	15	31	46	62	77	93

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
93	-133	-111	-89	-67	-44	-22	0
98	-116	-93	-70	-46	-23	0	23
102	-97	-73	-49	-24	0	24	49
107	-77	-51	-26	0	26	51	77
113	-54	-27	0	27	54	81	108
119	-28	0	28	57	85	114	142
126	0	30	60	90	120	150	181

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.

**Estimating 2009 Costs of Production
 Rice, Silt Loam Soils, Stale Seedbed,
 Eastern Arkansas**

AG-1211-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	333.0000	99.90	_____
Agrotain	lburea	0.02	233.0000	5.59	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	2.0000	9.64	_____
Command 3ME	pt	12.93	0.8000	10.34	_____
Propanil	pt	3.75	7.6000	28.50	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Facet 75DF	lb	52.09	0.2500	13.02	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Rice Conv.	lbseed	0.27	92.0000	24.84	_____
Release Seed Trt	lbseed	0.03	92.0000	3.58	_____
Fungicide Seed Trt	lbseed	0.06	92.0000	5.87	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Fert	lb	0.07	333.0000	24.98	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.8719	8.65	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1732	1.50	_____
DIESEL FUEL					
Tractors	gal	2.60	8.3984	21.83	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	acre	6.56	1.0000	6.56	_____
Tractors	acre	3.20	1.0000	3.20	_____
Harvesters	acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	acre	20.81	1.0000	20.81	_____
TOTAL DIRECT EXPENSES				705.08	_____
FIXED EXPENSES					
Implements	acre	16.58	1.0000	16.58	_____
Tractors	acre	23.41	1.0000	23.41	_____
Harvesters	acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____
TOTAL FIXED EXPENSES				88.77	_____
TOTAL SPECIFIED EXPENSES				793.85	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Oct	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct	1.36	1.26	0.32	1.61	0.04	0.46					5.01
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Glyphosate Plus	pt											2.0000	4.82	9.64		9.64
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
0-60-90	acre											1.0000	147.51	147.51		147.51
NT Grain Drill	20'	MFWD 170	0.098	1.00	Apr	2.59	2.62	1.76	3.99	0.19	1.81					12.77
Rice Conv.	lbseed											83.0000	0.27	22.41		22.41
Seed Trt	lbseed											83.0000	0.09	8.53		8.53
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											0.8000	12.93	10.34		10.34
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50					3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Rice Conv.	lbseed											9.0000	0.27	2.43		2.43
Release Seed Trt	lbseed											9.0000	0.03	0.35		0.35
Fungicide Seed Trt	lbseed											9.0000	0.06	0.57		0.57
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.07	17.47		17.47
Urea, Solid (46% N)	lb.											233.0000	0.30	69.90		69.90
Agrotain	lburea											233.0000	0.02	5.59		5.59
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Propanil	pt											6.0000	3.75	22.50		22.50
Permit 75 DF	oz											1.0000	18.07	18.07		18.07
Facet 75DF	lb											0.2500	52.09	13.02		13.02
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25		2.25
Foliar Fungicide	acre											0.3000	26.94	8.08		8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00		56.00
Haul Rice	bu											160.0000	0.22	35.20		35.20
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74					5.61
Flood Irr - Rice	each			1.00	May				25.39			0.0083				25.39
Apply Water	ac-in								83.17	0.45	3.89	30.0000				87.06
TOTALS						39.52	46.80	89.73	41.97	1.75	16.56			538.46		773.04
INTEREST ON OPERATING CAPITAL																20.81
TOTAL SPECIFIED COST																793.85

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. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
89	-160	-133	-106	-80	-53	-27	0
93	-139	-111	-83	-56	-28	0	28
98	-116	-87	-58	-29	0	29	58
103	-92	-61	-31	0	31	61	92
108	-64	-32	0	32	64	97	129
114	-34	0	34	68	102	136	170
121	0	36	72	108	144	180	216

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
120	-161	-134	-108	-81	-54	-27	0
126	-141	-112	-84	-56	-28	0	28
132	-118	-88	-59	-29	0	29	59
139	-93	-62	-31	0	31	62	93
146	-65	-33	0	33	65	98	130
154	-34	0	34	69	103	138	172
163	0	36	73	109	146	182	219

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
94	-84	-70	-56	-42	-28	-14	0
99	-73	-59	-44	-29	-15	0	15
103	-62	-46	-31	-15	0	15	31
109	-49	-32	-16	0	16	32	49
115	-34	-17	0	17	34	51	68
121	-18	0	18	36	54	72	90
129	0	19	38	57	77	96	115

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
113	-161	-134	-107	-80	-54	-27	0
118	-140	-112	-84	-56	-28	0	28
123	-117	-88	-59	-29	0	29	59
130	-93	-62	-31	0	31	62	93
136	-65	-32	0	32	65	97	130
144	-34	0	34	69	103	137	171
153	0	36	73	109	145	182	218

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production
**Rice, Silt Loam Soils, No-Till,
 Eastern Arkansas**

AG-1212-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	333.0000	99.90	_____
Agrotain	lburea	0.02	233.0000	5.59	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Glyphosate Plus	pt	4.82	4.0000	19.28	_____
Command 3ME	pt	12.93	1.0000	12.93	_____
Propanil	pt	3.75	7.6000	28.50	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Facet 75DF	lb	52.09	0.2500	13.02	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Rice Conv.	lbseed	0.27	92.0000	24.84	_____
Release Seed Trt	lbseed	0.03	92.0000	3.58	_____
Fungicide Seed Trt	lbseed	0.06	92.0000	5.87	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	6.00	2.0000	12.00	_____
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Fert	lb	0.07	333.0000	24.98	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.3816	3.79	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1732	1.50	_____
DIESEL FUEL					
Tractors	gal	2.60	3.3510	8.71	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.49	1.0000	4.49	_____
Tractors	acre	1.27	1.0000	1.27	_____
Harvesters	acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	acre	21.05	1.0000	21.05	_____
TOTAL DIRECT EXPENSES				695.57	_____
FIXED EXPENSES					
Implements	acre	10.33	1.0000	10.33	_____
Tractors	acre	9.24	1.0000	9.24	_____
Harvesters	acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____
TOTAL FIXED EXPENSES				68.35	_____
TOTAL SPECIFIED EXPENSES				763.92	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, No-Till, Eastern Arkansas, 2009

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. Herb	acre			1.00	Mar							1.0000	6.00	6.00	6.00
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00	6.00
0-60-90	acre											1.0000	147.51	147.51	147.51
NT Grain Drill	20'	MFWD 170	0.098	1.00	Apr	2.59	2.62	1.76	3.99	0.19	1.81				12.77
Rice Conv.	lbseed											83.0000	0.27	22.41	22.41
Release Seed Trt	lbseed											83.0000	0.03	3.23	3.23
Fungicide Seed Trt	lbseed											83.0000	0.06	5.30	5.30
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00	6.00
Command 3ME	pt											1.0000	12.93	12.93	12.93
Glyphosate Plus	pt											2.0000	4.82	9.64	9.64
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50	7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50				3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47				2.16
Rice Conv.	lbseed											9.0000	0.27	2.43	2.43
Release Seed Trt	lbseed											9.0000	0.03	0.35	0.35
Fungicide Seed Trt	lbseed											9.0000	0.06	0.57	0.57
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20				0.96
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47				1.75
Levee Gates	acre											1.0000	1.95	1.95	1.95
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.07	17.47	17.47
Urea, Solid (46% N)	lb.											233.0000	0.30	69.90	69.90
Agrotain	lburea											233.0000	0.02	5.59	5.59
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50	7.50
Propanil	pt											6.0000	3.75	22.50	22.50
Permit 75 DF	oz											1.0000	18.07	18.07	18.07
Facet 75DF	lb											0.2500	52.09	13.02	13.02
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00	6.00
Grandstand R	pt											0.0670	11.30	0.76	0.76
Propanil	pt											1.6000	3.75	6.00	6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50	7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00	30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25	2.25
Foliar Fungicide	acre											0.3000	26.94	8.08	8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75	0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48	0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47				1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52				45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63				5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00	56.00
Haul Rice	bu											160.0000	0.22	35.20	35.20
Rice Checkoff	bu											160.0000	0.01	2.16	2.16
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74				5.61
Flood Irr - Rice	each			1.00	May							0.0083			25.39
Apply Water	ac-in							83.17		0.45	3.89	30.0000			87.06
TOTALS						24.47	32.63	87.66	35.72	1.26	11.70			550.69	742.87
INTEREST ON OPERATING CAPITAL															21.05
TOTAL SPECIFIED COST															763.92

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, No-Till, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
88	-157	-131	-105	-79	-52	-26	0
92	-137	-109	-82	-55	-27	0	27
96	-115	-86	-57	-29	0	29	57
101	-90	-60	-30	0	30	60	90
106	-63	-32	0	32	63	95	127
112	-33	0	33	67	100	134	167
119	0	35	71	106	142	177	212

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
119	-159	-132	-106	-79	-53	-26	0
124	-138	-111	-83	-55	-28	0	28
130	-116	-87	-58	-29	0	29	58
137	-91	-61	-30	0	30	61	91
144	-64	-32	0	32	64	96	128
152	-34	0	34	68	102	136	169
161	0	36	72	108	144	179	215

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
89	-80	-67	-53	-40	-27	-13	0
94	-70	-56	-42	-28	-14	0	14
98	-58	-44	-29	-15	0	15	29
103	-46	-31	-15	0	15	31	46
109	-32	-16	0	16	32	49	65
115	-17	0	17	34	51	69	86
122	0	18	36	55	73	91	109

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
111	-158	-132	-106	-79	-53	-26	0
116	-138	-110	-83	-55	-28	0	28
122	-116	-87	-58	-29	0	29	58
128	-91	-61	-30	0	30	61	91
134	-64	-32	0	32	64	96	128
142	-34	0	34	68	101	135	169
150	0	36	72	107	143	179	215

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.

Estimating 2009 Costs of Production
Rice, Clearfield, Silt Loam Soils,
Eastern Arkansas

AG-1213-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	300.0000	90.00	_____
Agrotain	lburea	0.02	200.0000	4.80	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	1.0000	26.94	_____
Fungicide-Ksmut	acre	9.60	0.5000	4.80	_____
HERBICIDES					
Command 3ME	pt	12.93	0.8000	10.34	_____
Newpath 2SL	oz	3.72	8.0000	29.76	_____
Aim 2EC	oz	6.53	1.5000	9.80	_____
Beyond	oz	4.25	5.0000	21.25	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
Propanil	pt	3.75	1.6000	6.00	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Rice CL Conv.	lbseed	0.63	79.0000	49.77	_____
ADJUVANTS					
Crop Oil	pt	1.80	3.0000	5.40	_____
CUSTOM HIRE					
Cstm Ap Grd	acre	6.00	2.0000	12.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	3.0000	22.50	_____
Cstm Ap Air Fert	lb	0.07	300.0000	22.50	_____
Cstm Ap Air Fung	acre	7.50	1.5000	11.25	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.9146	9.08	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1692	1.47	_____
DIESEL FUEL					
Tractors	gal	2.60	8.7724	22.81	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	acre	6.02	1.0000	6.02	_____
Tractors	acre	3.35	1.0000	3.35	_____
Harvesters	acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	acre	22.68	1.0000	22.68	_____
TOTAL DIRECT EXPENSES				<u>754.90</u>	_____
FIXED EXPENSES					
Implements	acre	15.80	1.0000	15.80	_____
Tractors	acre	24.56	1.0000	24.56	_____
Harvesters	acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____
TOTAL FIXED EXPENSES				<u>89.14</u>	_____
TOTAL SPECIFIED EXPENSES				<u>844.04</u>	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clearfield, Silt Loam Soils, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Cstm Ap Grd Fert 0-60-90	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.36	1.26	0.32	1.61	0.04	0.46	1.0000	147.51	147.51		147.51
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.49	2.52	1.12	2.55	0.18	1.75					10.43
Rice CL Conv.	lbseed											70.0000	0.63	44.10		44.10
Roller	32"-12R30	MFWD 170	0.046	1.00	Apr	1.23	1.25	0.10	0.66	0.04	0.46					3.70
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											0.8000	12.93	10.34		10.34
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50					3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Rice CL Conv.	lbseed											9.0000	0.63	5.67		5.67
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Newpath + Crop Oil	oz											4.0000	4.17	16.68		16.68
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Newpath + Crop Oil	oz											4.0000	4.17	16.68		16.68
Aim 2EC	oz											1.5000	6.53	9.80		9.80
Cstm Ap Air Fert	lb			1.00	May							200.0000	0.07	15.00		15.00
Urea + Agrotain	lb.											200.0000	0.32	64.80		64.80
Cstm Ap Air Herb	acre			1.00	Jun							1.0000	7.50	7.50		7.50
Beyond + Crop Oil	oz											5.0000	4.61	23.05		23.05
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	7.50	7.50		7.50
Foliar Fungicide	acre											1.0000	26.94	26.94		26.94
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.5000	7.50	3.75		3.75
Fungicide-Ksmut	acre											0.5000	9.60	4.80		4.80
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00		56.00
Haul Rice	bu											160.0000	0.22	35.20		35.20
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74					5.61
Flood Irr - Rice	each			1.00	May				25.39			0.0083				25.39
Apply Water	ac-in								83.17	0.45	3.89	30.0000				87.06
TOTALS						40.65	47.95	89.19	41.19	1.79	16.96				585.42	821.36
INTEREST ON OPERATING CAPITAL																22.68
TOTAL SPECIFIED COST																844.04

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Clearfield, Silt Loam Soils, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
97	-173	-144	-115	-86	-58	-29	0
101	-150	-120	-90	-60	-30	0	30
106	-126	-94	-63	-31	0	31	63
111	-99	-66	-33	0	33	66	99
117	-70	-35	0	35	70	104	139
123	-37	0	37	73	110	147	184
131	0	39	78	117	155	194	233

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
130	-174	-145	-116	-87	-58	-29	0
136	-152	-122	-91	-61	-30	0	30
143	-127	-96	-64	-32	0	32	64
150	-100	-67	-33	0	33	67	100
158	-70	-35	0	35	70	106	141
167	-37	0	37	74	112	149	186
177	0	39	79	118	158	197	237

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
102	-91	-76	-61	-46	-30	-15	0
107	-79	-64	-48	-32	-16	0	16
112	-67	-50	-33	-17	0	17	33
118	-53	-35	-18	0	18	35	53
124	-37	-18	0	18	37	55	74
131	-20	0	20	39	59	78	98
139	0	21	41	62	83	104	124

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
122	-174	-145	-116	-87	-58	-29	0
127	-152	-121	-91	-61	-30	0	30
133	-127	-95	-64	-32	0	32	64
140	-100	-67	-33	0	33	67	100
148	-70	-35	0	35	70	105	140
156	-37	0	37	74	111	148	185
165	0	39	79	118	157	196	236

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.

Estimating 2009 Costs of Production
Rice, Hybrid, Silt Loam Soils,
Eastern Arkansas

AG-1214-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	267.0000	80.10	_____
Agrotain	lburea	0.02	167.0000	4.01	_____
HERBICIDES					
Command 3ME	pt	12.93	0.8000	10.34	_____
Propanil	pt	3.75	7.6000	28.50	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Facet 75DF	lb	52.09	0.2500	13.02	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Rice Hybrid	lbseed	3.20	33.8000	108.16	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Fert	lb	0.07	267.0000	20.02	_____
Cstm Ap Air Herb	acre	7.50	1.0000	7.50	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	170.0000	37.40	_____
GIN/DRY					
Dry Rice	bu	0.35	170.0000	59.50	_____
Rice Checkoff	bu	0.01	170.0000	2.30	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.9146	9.08	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1692	1.47	_____
DIESEL FUEL					
Tractors	gal	2.60	8.7724	22.81	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	acre	6.02	1.0000	6.02	_____
Tractors	acre	3.35	1.0000	3.35	_____
Harvesters	acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	acre	22.58	1.0000	22.58	_____
TOTAL DIRECT EXPENSES				735.26	_____
FIXED EXPENSES					
Implements	acre	15.80	1.0000	15.80	_____
Tractors	acre	24.56	1.0000	24.56	_____
Harvesters	acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____
TOTAL FIXED EXPENSES				89.14	_____
TOTAL SPECIFIED EXPENSES				824.40	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	6.00	6.00		6.00
0-60-90	acre											1.0000	147.51	147.51		147.51
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.36	1.26	0.32	1.61	0.04	0.46					5.01
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.49	2.52	1.12	2.55	0.18	1.75					10.43
Rice Hybrid	lbseed											30.0000	3.20	96.00		96.00
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.23	1.25	0.10	0.66	0.04	0.46					3.70
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											0.8000	12.93	10.34		10.34
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50					3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Rice Hybrid	lbseed											3.8000	3.20	12.16		12.16
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Cstm Ap Air Fert	lb			1.00	May							167.0000	0.07	12.53		12.53
Urea, Solid (46% N)	lb.											167.0000	0.30	50.10		50.10
Agrotain	lburea											167.0000	0.02	4.01		4.01
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Propanil	pt											6.0000	3.75	22.50		22.50
Permit 75 DF	oz											1.0000	18.07	18.07		18.07
Facet 75DF	lb											0.2500	52.09	13.02		13.02
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Dry Rice	bu			1.00	Sep							170.0000	0.35	59.50		59.50
Haul Rice	bu											170.0000	0.22	37.40		37.40
Rice Checkoff	bu											170.0000	0.01	2.30		2.30
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74					5.61
Flood Irr - Rice	each			1.00	May				25.39			0.0083				25.39
Apply Water	ac-in							83.17		0.45	3.89	30.0000				87.06
TOTALS						40.65	47.95	89.19	41.19	1.79	16.96			565.88		801.82
INTEREST ON OPERATING CAPITAL																22.58
TOTAL SPECIFIED COST																824.40

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
101	-179	-150	-120	-90	-60	-30	0
105	-156	-125	-94	-63	-31	0	31
110	-131	-98	-65	-33	0	33	65
116	-103	-69	-34	0	34	69	103
122	-72	-36	0	36	72	109	145
128	-38	0	38	76	115	153	191
136	0	40	81	121	162	202	242

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
135	-181	-151	-121	-91	-60	-30	0
142	-158	-126	-95	-63	-32	0	32
148	-133	-99	-66	-33	0	33	66
156	-104	-70	-35	0	35	70	104
164	-73	-37	0	37	73	110	147
173	-39	0	39	77	116	155	193
184	0	41	82	123	164	205	246

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
110	-99	-82	-66	-49	-33	-16	0
116	-86	-69	-52	-34	-17	0	17
121	-72	-54	-36	-18	0	18	36
128	-57	-38	-19	0	19	38	57
135	-40	-20	0	20	40	60	80
142	-21	0	21	42	64	85	106
151	0	22	45	67	90	112	135

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
127	-181	-151	-121	-90	-60	-30	0
132	-158	-126	-95	-63	-32	0	32
139	-132	-99	-66	-33	0	33	66
146	-104	-69	-35	0	35	69	104
153	-73	-37	0	37	73	110	146
162	-39	0	39	77	116	154	193
172	0	41	82	123	163	204	245

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.

Estimating 2009 Costs of Production
Rice, Clearfield Hybrid, Silt Loam Soils,
Eastern Arkansas

AG-1215-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
0-60-90	acre	147.51	1.0000	147.51	_____
Urea, Solid (46% N)	lb.	0.30	267.0000	80.10	_____
Agrotain	lburea	0.02	167.0000	4.01	_____
HERBICIDES					
Command 3ME	pt	12.93	0.8000	10.34	_____
Newpath 2SL	oz	3.72	8.0000	29.76	_____
Aim 2EC	oz	6.53	1.5000	9.80	_____
Beyond	oz	4.25	5.0000	21.25	_____
Grandstand R	pt	11.30	0.0670	0.76	_____
Propanil	pt	3.75	1.6000	6.00	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.95	1.0000	1.95	_____
CROP SEED					
Rice CL Hybrid	lbseed	3.86	33.8000	130.69	_____
ADJUVANTS					
Crop Oil	pt	1.80	3.0000	5.40	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	6.00	1.0000	6.00	_____
Cstm Ap Grd. Herb	acre	6.00	1.0000	6.00	_____
Survey Levees	acre	7.50	1.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	3.0000	22.50	_____
Cstm Ap Air Fert	lb	0.07	267.0000	20.02	_____
Cstm Spray Levee,ATV	acre	6.00	1.0000	6.00	_____
Cstm Ap Air Insect	acre	7.50	0.1000	0.75	_____
Haul Rice	bu	0.22	170.0000	37.40	_____
GIN/DRY					
Dry Rice	bu	0.35	170.0000	59.50	_____
Rice Checkoff	bu	0.01	170.0000	2.30	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.9146	9.08	_____
Harvesters	hour	9.92	0.2538	2.52	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.4525	3.89	_____
HAND LABOR					
Implements	hour	8.60	0.1692	1.47	_____
DIESEL FUEL					
Tractors	gal	2.60	8.7724	22.81	_____
Harvesters	gal	2.60	3.5919	9.34	_____
Flood Irr - Rice	gal	2.60	30.0001	78.00	_____
REPAIR & MAINTENANCE					
Implements	Acre	6.02	1.0000	6.02	_____
Tractors	Acre	3.35	1.0000	3.35	_____
Harvesters	Acre	5.15	1.0000	5.15	_____
Flood Irr - Rice	ac-in	0.17	30.0000	5.17	_____
INTEREST ON OP. CAP.	Acre	24.33	1.0000	24.33	_____
TOTAL DIRECT EXPENSES				787.16	_____
FIXED EXPENSES					
Implements	Acre	15.80	1.0000	15.80	_____
Tractors	Acre	24.56	1.0000	24.56	_____
Harvesters	Acre	23.39	1.0000	23.39	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____
TOTAL FIXED EXPENSES				89.14	_____
TOTAL SPECIFIED EXPENSES				876.30	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clearfield Hybrid, Silt Loam Soils, Eastern Arkansas, 2009

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	4.86	4.70	1.30	3.23	0.14	1.39					15.48
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.83	8.21	0.45	1.41	0.30	3.01					21.91
Cstm Ap Grd Fert 0-60-90	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.36	1.26	0.32	1.61	0.04	0.46	1.0000	147.51	147.51		147.51
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.49	2.52	1.12	2.55	0.18	1.75					10.43
Rice CL Hybrid	lbseed											30.0000	3.86	116.00		116.00
Roller	32"-12R30	MFWD 170	0.046	1.00	Apr	1.23	1.25	0.10	0.66	0.04	0.46					3.70
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	6.00	6.00		6.00
Command 3ME	pt											0.8000	12.93	10.34		10.34
Survey Levees	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Pull Levees	8 blade	MFWD 190	0.025	2.00	Apr	1.45	1.35	0.06	0.37	0.05	0.50					3.73
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.73	0.68	0.04	0.24	0.05	0.47					2.16
Rice CL Hybrid	lbseed											3.8000	3.86	14.69		14.69
Gate Installer		MFWD 105	0.025	1.00	Apr	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Levee Gates	acre											1.0000	1.95	1.95		1.95
Blade-Box	6'-7'	2WD 130	0.020	1.00	Apr	0.40	0.34	0.01	0.01	0.02	0.20					0.96
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	7.50	7.50		7.50
Newpath 2SL	oz											4.0000	3.72	14.88		14.88
Crop Oil	pt											1.0000	1.80	1.80		1.80
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50		7.50
Newpath 2SL	oz											4.0000	3.72	14.88		14.88
Aim 2EC	oz											1.5000	6.53	9.80		9.80
Crop Oil	pt											1.0000	1.80	1.80		1.80
Cstm Ap Air Fert	lb			1.00	May							167.0000	0.07	12.53		12.53
Urea + Agrotain	lb.											167.0000	0.30	54.11		54.11
Cstm Ap Air Herb	acre			1.00	Jun							1.0000	7.50	7.50		7.50
Beyond	oz											5.0000	4.25	21.25		21.25
Crop Oil	pt											1.0000	1.80	1.80		1.80
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	6.00	6.00		6.00
Grandstand R	pt											0.0670	11.30	0.76		0.76
Propanil	pt											1.6000	3.75	6.00		6.00
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50		7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00		30.00
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75		0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48		0.48
Remove Gates		MFWD 105	0.025	1.00	Aug	0.39	0.25	0.13	0.51	0.05	0.47					1.75
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	14.49	23.39	1.87	3.30	0.25	2.52					45.57
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63					5.43
Dry Rice	bu			1.00	Sep							170.0000	0.35	59.50		59.50
Haul Rice	bu											170.0000	0.22	37.40		37.40
Rice Checkoff	bu											170.0000	0.01	2.30		2.30
Tear Down Levees	8 blade	MFWD 190	0.025	3.00	Oct	2.19	2.03	0.09	0.56	0.07	0.74					5.61
Flood Irr - Rice	each			1.00	May							0.0083				25.39
Apply Water	ac-in							83.17		0.45	3.89	30.0000				87.06
TOTALS						40.65	47.95	89.19	41.19	1.79	16.96			616.03		851.97
INTEREST ON OPERATING CAPITAL																24.33
TOTAL SPECIFIED COST																876.30

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Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Clearfield Hybrid, Silt Loam Soils, Eastern Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
101	-179	-150	-120	-90	-60	-30	0
105	-156	-125	-94	-63	-31	0	31
110	-131	-98	-65	-33	0	33	65
116	-103	-69	-34	0	34	69	103
122	-72	-36	0	36	72	109	145
128	-38	0	38	76	115	153	191
136	0	40	81	121	162	202	242

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
135	-181	-151	-121	-91	-60	-30	0
142	-158	-126	-95	-63	-32	0	32
148	-133	-99	-66	-33	0	33	66
156	-104	-70	-35	0	35	70	104
164	-73	-37	0	37	73	110	147
173	-39	0	39	77	116	155	193
184	0	41	82	123	164	205	246

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
107	-96	-80	-64	-48	-32	-16	0
112	-83	-67	-50	-33	-17	0	17
118	-70	-53	-35	-18	0	18	35
124	-55	-37	-18	0	18	37	55
131	-39	-19	0	19	39	58	78
138	-21	0	21	41	62	82	103
146	0	22	44	65	87	109	131

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
	Net Returns above Variable Costs (\$/acre)						
127	-181	-151	-121	-90	-60	-30	0
132	-158	-126	-95	-63	-32	0	32
139	-132	-99	-66	-33	0	33	66
146	-104	-69	-35	0	35	69	104
153	-73	-37	0	37	73	110	146
162	-39	0	39	77	116	154	193
172	0	41	82	123	163	204	245

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

Estimating 2009 Costs of Production Rice, Zero Grade, No-Till, Water Seeded, Eastern Arkansas

AG-1216-11-08

Brad Watkins, Extension Economist
Jeffrey Hignight, Program Associate
Charles E. Wilson, Jr., Extension Agronomist - Rice

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZERS					
Urea, Solid (46% N)	lb.	0.30	400.0000	120.00	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Command 3ME	pt	12.93	1.0000	12.93	_____
Londax 60DF	oz	12.70	1.0000	12.70	_____
Facet 75DF	lb	52.09	0.5000	26.05	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Aim 2EC	oz	6.53	1.0000	6.53	_____
INSECTICIDES					
Insecticide-W.Weevil	acre	6.18	1.0000	6.18	_____
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
CROP SEED					
Rice Conv.	lbseed	0.27	100.0000	27.00	_____
ADJUVANTS					
Crop Oil	pt	1.80	3.0000	5.40	_____
CUSTOM HIRE					
Cstm Ap Air Seed	lbseed	0.07	100.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	3.0000	22.50	_____
Cstm Ap Air Fert	lb	0.07	400.0000	30.00	_____
Cstm Ap Air Insect	acre	7.50	1.1000	8.25	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.1620	1.61	_____
Harvesters	hour	9.92	0.2200	2.18	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.3620	3.11	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3611	3.54	_____
Harvesters	gal	2.60	3.6806	9.57	_____
Flood Irr - Rice	gal	2.60	24.0001	62.40	_____
REPAIR & MAINTENANCE					
Implements	acre	2.99	1.0000	2.99	_____
Tractors	acre	0.53	1.0000	0.53	_____
Harvesters	acre	5.23	1.0000	5.23	_____
Flood Irr - Rice	ac-in	0.17	24.0000	4.14	_____
INTEREST ON OP. CAP.	acre	14.49	1.0000	14.49	_____

TOTAL DIRECT EXPENSES				517.07	_____
FIXED EXPENSES					
Implements	acre	4.53	1.0000	4.53	_____
Tractors	acre	3.83	1.0000	3.83	_____
Harvesters	acre	23.76	1.0000	23.76	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____

TOTAL FIXED EXPENSES				57.51	_____

TOTAL SPECIFIED EXPENSES				574.58	=====

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Zero Grade, No-Till, Water Seeded, Eastern Arkansas, 2009

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 Air Seed	lbseed			1.00	Apr							100.0000	0.07	7.50	7.50
Rice Conv.	lbseed											100.0000	0.27	27.00	27.00
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	7.50	7.50	7.50
Command 3ME	pt											1.0000	12.93	12.93	12.93
Londax 60DF	oz											1.0000	12.70	12.70	12.70
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50	7.50
Facet 75DF	lb											0.5000	52.09	26.05	26.05
Permit 75 DF	oz											1.0000	18.07	18.07	18.07
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.07	22.50	22.50
Urea, Solid (46% N)	lb.											300.0000	0.30	90.00	90.00
Cstm Ap Air Insect	acre			1.00	May							1.0000	7.50	7.50	7.50
Insecticide-W.Weevil	acre											1.0000	6.18	6.18	6.18
Cstm Ap Air Herb	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Aim 2EC	oz											1.0000	6.53	6.53	6.53
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50	7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00	30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25	2.25
Foliar Fungicide	acre											0.3000	26.94	8.08	8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75	0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48	0.48
Header - Rice	25' Rigid	325hp	0.220	1.00	Sep	14.80	23.76	1.62	2.86	0.22	2.18				45.22
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63				5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00	56.00
Haul Rice	bu											160.0000	0.22	35.20	35.20
Rice Checkoff	bu											160.0000	0.01	2.16	2.16
Rotary Cutter-Flex	15'	MFWD 150	0.078	1.00	Sep	1.83	1.77	0.93	0.77	0.07	0.78				6.08
Ditcher		2WD 130	0.020	1.00	Sep	0.40	0.34	0.04	0.06	0.02	0.20				1.04
Flood Irr - Rice	each			1.00	May							0.0083			25.39
Apply Water	ac-in							66.54		0.36	3.11	24.0000			69.65
TOTALS						18.87	27.59	69.53	29.92	0.74	6.90			407.28	560.09
INTEREST ON OPERATING CAPITAL															14.49
TOTAL SPECIFIED COST															574.58

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.

Table 3. Break-even Yields (BEY) Required to cover Direct Expenses and Net Returns above Direct Expenses at Price/Yield Combinations for Select Land Tenure Arrangements, per acre.

Rice, Zero Grade, No-Till, Water Seeded, Arkansas, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
62	-111	-92	-74	-55	-37	-18	0
65	-96	-77	-58	-39	-19	0	19
68	-81	-61	-40	-20	0	20	40
71	-64	-42	-21	0	21	42	64
75	-45	-22	0	22	45	67	89
79	-24	0	24	47	71	94	118
84	0	25	50	75	100	125	150

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
84	-112	-93	-75	-56	-37	-19	0
87	-98	-78	-59	-39	-20	0	20
92	-82	-61	-41	-20	0	20	41
96	-64	-43	-21	0	21	43	64
101	-45	-23	0	23	45	68	90
107	-24	0	24	48	72	95	119
113	0	25	51	76	101	126	152

Landowner Receives 25% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop

Tenant 50-50 Cost-Share

Tenant 50-50 Cost-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
62	-55	-46	-37	-28	-18	-9	0
65	-48	-38	-29	-19	-10	0	10
68	-40	-30	-20	-10	0	10	20
71	-32	-21	-11	0	11	21	32
75	-22	-11	0	11	22	34	45
79	-12	0	12	24	35	47	59
84	0	13	25	38	50	63	75

Landowner Receives 50% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 50% of the Crop.

Landowner Pays 100% of Irrigation Expenses (Except Labor).

Landowner Pays 50% of:

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

Tenant 80-20 Crop-Share

Tenant 80-20 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
78	-112	-93	-74	-56	-37	-19	0
82	-97	-78	-58	-39	-19	0	19
86	-82	-61	-41	-20	0	20	41
90	-64	-43	-21	0	21	43	64
95	-45	-23	0	23	45	68	90
100	-24	0	24	48	71	95	119
106	0	25	50	76	101	126	151

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.