



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2008 Costs of Production
Rice, Silt Loam Soils, Eastern Arkansas

AG-1078-11-07

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					
GIN/DRY					
Rice Checkoff	bu	0.01	160.0000	2.16	_____
Dry Rice	bu	0.30	160.0000	48.00	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	333.0000	66.60	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	0.3000	6.64	_____
HERBICIDES					
Command 3ME	pt	11.22	0.8000	8.98	_____
Propanil 4E	pt	2.64	6.0000	15.84	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Facet 75DF	lb	45.69	0.2500	11.42	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Release - Seed Trt	lbseed	0.06	84.0000	5.12	_____
Fungicide Seed Trt	lbseed	0.04	84.0000	3.36	_____
Rice Seed	lb	0.21	84.0000	17.64	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fert	lb	0.05	333.0000	18.65	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fung	acre	6.25	0.3000	1.88	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8188	7.75	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.4525	3.71	_____
HAND LABOR					
Implements	hour	8.19	0.1192	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.9360	18.48	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	30.0001	69.90	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.43	1.0000	5.43	_____
Tractors	Acre	3.04	1.0000	3.04	_____
Harvesters	Acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	30.0000	4.84	_____
INTEREST ON OP. CAP.	Acre	22.77	1.0000	22.77	_____
TOTAL DIRECT EXPENSES				478.69	_____
FIXED EXPENSES					
Implements	Acre	14.88	1.0000	14.88	_____
Tractors	Acre	23.16	1.0000	23.16	_____
Harvesters	Acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				86.68	_____
TOTAL SPECIFIED EXPENSES				565.37	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						dollars				dollars		dollars			
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.04	8.63	0.43	1.40	0.30	2.87				21.37
Cstm Ap Grd Fert	acre			1.00	Apr								1.0000	4.92	4.92
0-60-90	acre												1.0000	52.59	52.59
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.23	1.33	0.33	1.72	0.04	0.44				5.05
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.25	2.55	1.14	2.72	0.18	1.66				10.32
Release - Seed Trt	lbseed												75.0000	0.06	4.58
Fungicide Seed Trt	lbseed												75.0000	0.04	3.00
Rice Seed	lb												75.0000	0.21	15.75
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.12	1.26	0.12	0.84	0.04	0.44				3.78
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19				1.00
Cstm Ap Grd. Herb	acre			1.00	Apr								1.0000	5.02	5.02
Command 3ME	pt												0.8000	11.22	8.98
Survey Levee	acre			1.00	Apr								1.0000	4.00	4.00
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47				3.61
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44				2.34
Rice Seed	lb												9.0000	0.21	1.89
Release - Seed Trt	lbseed												9.0000	0.06	0.55
Fungicide Seed Trt	lbseed												9.0000	0.04	0.36
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24				1.44
Levee Gates	acre												1.0000	1.50	1.50
Blade-Scraper	8'-10'	2WD 50		1.00	Apr										
Cstm Ap Air Fert	lb			1.00	May								233.0000	0.05	13.05
Urea, Solid (46% N)	lb												233.0000	0.20	46.60
Cstm Ap Air Herb	acre			1.00	May								1.0000	5.95	5.95
Propanil 4E	pt												6.0000	2.64	15.84
Permit 75	oz												1.0000	16.36	16.36
Facet 75DF	lb												0.2500	45.69	11.42
Cstm Spray Levee,ATV	acre			1.00	Jul								1.0000	4.00	4.00
2,4-D Amine	pt												0.2000	1.79	0.36
Cstm Ap Air Fert	lb			1.00	Jul								100.0000	0.05	5.60
Urea, Solid (46% N)	lb												100.0000	0.20	20.00
Cstm Ap Air Fung	acre			1.00	Aug								0.3000	6.25	1.88
Foliar Fungicide	acre												0.3000	22.14	6.64
Cstm Ap Air Insect	acre			1.00	Aug								0.1000	5.00	0.50
Insecticide-StinkBug	acre												0.1000	4.98	0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40				44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28
Rice Checkoff	bu			1.00	Sep									0.01	2.16
Cstm Haul Rice	bu												160.0000	0.15	24.00
Dry Rice	bu												160.0000	0.30	48.00
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04				0.25
Flood Irr - Rice	each			1.00	May				24.84				0.0083		24.84
Apply Water	ac-in							74.74		0.45	3.71		30.0000		78.45
TOTALS						34.92	46.96	80.17	39.72	1.64	14.83			326.00	542.60
INTEREST ON OPERATING CAPITAL															22.77
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															565.37

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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, Eastern Arkansas, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
80	-177	-148	-118	-89	-59	-30	0
86	-159	-127	-95	-64	-32	0	32
93	-138	-104	-69	-35	0	35	69
102	-113	-75	-38	0	38	75	113
112	-83	-42	0	42	83	125	166
125	-46	0	46	93	139	185	232
141	0	52	104	157	209	261	313

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
107	-179	-149	-119	-89	-60	-30	0
116	-161	-129	-96	-64	-32	0	32
126	-140	-105	-70	-35	0	35	70
138	-115	-76	-38	0	38	76	115
152	-84	-42	0	42	84	126	169
169	-47	0	47	94	141	188	235
192	0	53	106	160	213	266	319

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
76	-85	-71	-57	-42	-28	-14	0
83	-76	-61	-46	-31	-15	0	15
90	-67	-50	-33	-17	0	17	33
99	-55	-36	-18	0	18	36	55
109	-40	-20	0	20	40	61	81
122	-23	0	23	45	68	90	113
139	0	26	51	77	103	128	154

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
100	-178	-149	-119	-89	-59	-30	0
108	-160	-128	-96	-64	-32	0	32
118	-139	-104	-70	-35	0	35	70
129	-114	-76	-38	0	38	76	114
142	-84	-42	0	42	84	126	168
158	-47	0	47	94	141	187	234
179	0	53	106	159	212	265	318

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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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
GIN/DRY					
Dry Rice	bu	0.30	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
FERTILIZERS					
Urea, Solid (46% N)	lb	0.20	400.0000	80.00	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	0.3000	6.64	_____
HERBICIDES					
Command 3ME	pt	11.22	1.5000	16.83	_____
Propanil 4E	pt	2.64	6.0000	15.84	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Facet 75DF	lb	45.69	0.5000	22.85	_____
Grandstand R	pt	10.52	0.1000	1.05	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Release - Seed Trt	lbseed	0.06	101.0000	6.16	_____
Fungicide Seed Trt	lbseed	0.04	101.0000	4.04	_____
Rice Seed	lb	0.21	101.0000	21.21	_____
CUSTOM HIRE					
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Cstm Ap Air Fert	lb	0.05	400.0000	22.40	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fung	acre	6.25	0.3000	1.88	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8688	8.23	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.5430	4.45	_____
HAND LABOR					
Implements	hour	8.19	0.1192	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	8.4250	19.62	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	36.0002	83.88	_____
REPAIR & MAINTENANCE					
Implements	acre	5.48	1.0000	5.48	_____
Tractors	acre	3.22	1.0000	3.22	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	36.0000	5.80	_____
INTEREST ON OP. CAP.	acre	22.62	1.0000	22.62	_____
TOTAL DIRECT EXPENSES				480.96	_____
FIXED EXPENSES					
Implements	acre	15.22	1.0000	15.22	_____
Tractors	acre	24.59	1.0000	24.59	_____
Harvesters	acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				88.45	_____
TOTAL SPECIFIED EXPENSES				569.41	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clay Soils, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						dollars				dollars			dollars			
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33					14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.04	8.63	0.43	1.40	0.30	2.87					21.37
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.23	1.33	0.33	1.72	0.04	0.44					5.05
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.25	2.55	1.14	2.72	0.18	1.66					10.32
Release - Seed Trt	lbseed											90.0000	0.06	5.49		5.49
Fungicide Seed Trt	lbseed											90.0000	0.04	3.60		3.60
Rice Seed	lb											90.0000	0.21	18.90		18.90
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.12	1.26	0.12	0.84	0.04	0.44					3.78
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19					1.00
Survey Levee	acre			1.00	Apr							1.0000	4.00	4.00		4.00
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02		5.02
Command 3ME	pt											1.5000	11.22	16.83		16.83
Levee Disk	8 blade	MFWD 190	0.025	4.00	Apr	2.65	2.85	0.10	0.68	0.10	0.95					7.23
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44					2.34
Rice Seed	lb											11.0000	0.21	2.31		2.31
Release - Seed Trt	lbseed											11.0000	0.06	0.67		0.67
Fungicide Seed Trt	lbseed											11.0000	0.04	0.44		0.44
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24					1.44
Levee Gates	acre											1.0000	1.50	1.50		1.50
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.05	16.80		16.80
Urea, Solid (46% N)	lb											300.0000	0.20	60.00		60.00
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95		5.95
Propanil 4E	pt											6.0000	2.64	15.84		15.84
Permit 75	oz											1.0000	16.36	16.36		16.36
Facet 75DF	lb											0.5000	45.69	22.85		22.85
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	4.00	4.00		4.00
Grandstand R	pt											0.1000	10.52	1.05		1.05
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60		5.60
Urea, Solid (46% N)	lb											100.0000	0.20	20.00		20.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	6.25	1.88		1.88
Foliar Fungicide	acre											0.3000	22.14	6.64		6.64
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50		0.50
Insecticide-StinkBug	acre											0.1000	4.98	0.50		0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40					44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60					5.28
Dry Rice	bu			1.00	Sep							160.0000	0.30	48.00		48.00
Cstm Haul Rice	bu											160.0000	0.15	24.00		24.00
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04					0.25
Flood Irr - Rice	each			1.00	May				24.84							24.84
Apply Water	ac-in							89.68		0.54	4.45			36.0000		94.13
TOTALS							36.24	48.39	95.16	40.06	1.78	16.05			310.89	546.79
INTEREST ON OPERATING CAPITAL																22.62
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																569.41

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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, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
80	-178	-148	-119	-89	-59	-30	0
86	-160	-128	-96	-64	-32	0	32
94	-139	-104	-69	-35	0	35	69
102	-114	-76	-38	0	38	76	114
113	-84	-42	0	42	84	125	167
126	-47	0	47	93	140	186	233
142	0	53	105	158	210	263	315

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
108	-180	-150	-120	-90	-60	-30	0
117	-162	-129	-97	-65	-32	0	32
127	-140	-105	-70	-35	0	35	70
138	-115	-77	-38	0	38	77	115
153	-85	-42	0	42	85	127	170
170	-47	0	47	95	142	189	236
193	0	53	107	160	214	267	321

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
80	-89	-74	-59	-44	-30	-15	0
87	-80	-64	-48	-32	-16	0	16
94	-70	-52	-35	-17	0	17	35
103	-57	-38	-19	0	19	38	57
114	-42	-21	0	21	42	63	84
128	-24	0	24	47	71	95	118
145	0	27	54	81	107	134	161

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
101	-179	-149	-120	-90	-60	-30	0
109	-161	-129	-97	-64	-32	0	32
118	-140	-105	-70	-35	0	35	70
129	-115	-77	-38	0	38	77	115
143	-84	-42	0	42	84	127	169
159	-47	0	47	94	141	188	236
180	0	53	106	160	213	266	319

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 2008 Costs of Production
Rice, Silt Loam Soils, Stale Seedbed,
Eastern Arkansas

AG-1080-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	333.0000	66.60	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	0.3000	6.64	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	2.0000	3.76	_____
Command 3ME	pt	11.22	0.8000	8.98	_____
Propanil 4E	pt	2.64	6.0000	15.84	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Facet 75DF	lb	45.69	0.2500	11.42	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.21	92.0000	19.32	_____
Release - Seed Trt	lbseed	0.06	92.0000	5.61	_____
Fungicide Seed Trt	lbseed	0.04	92.0000	3.68	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	5.02	2.0000	10.04	_____
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fert	lb	0.05	333.0000	18.65	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fung	acre	6.25	0.3000	1.88	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.7760	7.35	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.4525	3.71	_____
HAND LABOR					
Implements	hour	8.19	0.1232	1.00	_____
DIESEL FUEL					
Tractors	gal	2.33	7.5620	17.61	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	30.0001	69.90	_____
REPAIR & MAINTENANCE					
Implements	acre	5.93	1.0000	5.93	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	30.0000	4.84	_____
INTEREST ON OP. CAP.	acre	22.55	1.0000	22.55	_____
TOTAL DIRECT EXPENSES				488.84	_____
FIXED EXPENSES					
Implements	acre	15.50	1.0000	15.50	_____
Tractors	acre	22.00	1.0000	22.00	_____
Harvesters	acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				86.14	_____
TOTAL SPECIFIED EXPENSES				574.98	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	COST	
						dollars				dollars		dollars				
Disk Harrow	28'	MFWD 225	0.070	2.00	Oct	4.41	4.72	1.17	3.06	0.14	1.33					14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Oct	8.04	8.63	0.43	1.40	0.30	2.87					21.37
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct	1.23	1.33	0.33	1.72	0.04	0.44					5.05
Ditcher		2WD 130	0.020	1.00	Oct	0.36	0.36	0.03	0.06	0.02	0.19					1.00
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02		5.02
Glyphosate Plus	pt											2.0000	1.88	3.76		3.76
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92		4.92
0-60-90	acre											1.0000	52.59	52.59		52.59
NT Grain Drill	20'	MFWD 170	0.098	1.00	Apr	2.35	2.65	1.76	4.18	0.19	1.73					12.67
Rice Seed	lb											83.0000	0.21	17.43		17.43
Release - Seed Trt	lbseed											83.0000	0.06	5.06		5.06
Fungicide Seed Trt	lbseed											83.0000	0.04	3.32		3.32
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02		5.02
Command 3ME	pt											0.8000	11.22	8.98		8.98
Survey Levee	acre			1.00	Apr							1.0000	4.00	4.00		4.00
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47					3.61
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44					2.34
Rice Seed	lb											9.0000	0.21	1.89		1.89
Seed Treatment	lbseed											9.0000	0.10	0.91		0.91
Blade-Scraper	8'-10'	2WD 50		1.00	Apr											
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24					1.44
Levee Gates	acre											1.0000	1.50	1.50		1.50
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.05	13.05		13.05
Urea, Solid (46% N)	lb											233.0000	0.20	46.60		46.60
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95		5.95
Propanil 4E	pt											6.0000	2.64	15.84		15.84
Permit 75	oz											1.0000	16.36	16.36		16.36
Facet 75DF	lb											0.2500	45.69	11.42		11.42
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	4.00	4.00		4.00
2,4-D Amine	pt											0.2000	1.79	0.36		0.36
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60		5.60
Urea, Solid (46% N)	lb											100.0000	0.20	20.00		20.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	6.25	1.88		1.88
Foliar Fungicide	acre											0.3000	22.14	6.64		6.64
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50		0.50
Insecticide-StinkBug	acre											0.1000	4.98	0.50		0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40					44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60					5.28
Dry Rice	bu			1.00	Sep							160.0000	0.30	48.00		48.00
Cstm Haul Rice	bu											160.0000	0.15	24.00		24.00
Rice Checkoff	bu											160.0000	0.01	2.16		2.16
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04					0.25
Flood Irr - Rice	each			1.00	May				24.84			0.0083				24.84
Apply Water	ac-in							74.74		0.45	3.71	30.0000				78.45
TOTALS						33.90	45.80	80.67	40.34	1.60	14.46			337.26		552.43
INTEREST ON OPERATING CAPITAL																22.55
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																574.98

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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, Stale Seedbed, Eastern Arkansas, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
82	-181	-151	-121	-91	-60	-30	0
88	-163	-130	-98	-65	-33	0	33
96	-141	-106	-71	-35	0	35	71
104	-116	-77	-39	0	39	77	116
115	-85	-43	0	43	85	128	170
128	-47	0	47	95	142	190	237
145	0	54	107	161	214	268	321

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
110	-183	-153	-122	-92	-61	-31	0
119	-165	-132	-99	-66	-33	0	33
129	-143	-107	-72	-36	0	36	72
141	-117	-78	-39	0	39	78	117
156	-86	-43	0	43	86	130	173
174	-48	0	48	96	145	193	241
196	0	54	109	163	218	272	327

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
85	-94	-78	-63	-47	-31	-16	0
91	-85	-68	-51	-34	-17	0	17
99	-74	-55	-37	-18	0	18	37
109	-61	-40	-20	0	20	40	61
121	-45	-22	0	22	45	67	89
135	-25	0	25	50	75	100	125
153	0	28	57	85	113	142	170

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
103	-183	-152	-122	-91	-61	-30	0
111	-164	-131	-99	-66	-33	0	33
121	-143	-107	-71	-36	0	36	71
132	-117	-78	-39	0	39	78	117
145	-86	-43	0	43	86	129	172
162	-48	0	48	96	144	192	240
183	0	54	109	163	217	271	326

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 2008 Costs of Production
Rice, Silt Loam Soils, No-Till,
Eastern Arkansas

AG-1081-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	333.0000	66.60	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	0.3000	6.64	_____
HERBICIDES					
Glyphosate Plus	pt	1.88	4.0000	7.52	_____
Command 3ME	pt	11.22	1.0000	11.22	_____
Propanil 4E	pt	2.64	6.0000	15.84	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Facet 75DF	lb	45.69	0.2500	11.42	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.21	92.0000	19.32	_____
Release - Seed Trt	lbseed	0.06	92.0000	5.61	_____
Fungicide Seed Trt	lbseed	0.04	92.0000	3.68	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	5.02	2.0000	10.04	_____
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fert	lb	0.05	333.0000	18.65	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fung	acre	6.25	0.3000	1.88	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.2858	2.71	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.4525	3.71	_____
HAND LABOR					
Implements	hour	8.19	0.1232	1.00	_____
DIESEL FUEL					
Tractors	gal	2.33	2.5146	5.85	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	30.0001	69.90	_____
REPAIR & MAINTENANCE					
Implements	acre	4.00	1.0000	4.00	_____
Tractors	acre	0.97	1.0000	0.97	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	30.0000	4.84	_____
INTEREST ON OP. CAP.	acre	22.60	1.0000	22.60	_____
TOTAL DIRECT EXPENSES				474.64	_____
FIXED EXPENSES					
Implements	acre	9.32	1.0000	9.32	_____
Tractors	acre	7.32	1.0000	7.32	_____
Harvesters	acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				65.28	_____
TOTAL SPECIFIED EXPENSES				539.92	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, No-Till, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC	LABOR	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----						-----dollars-----				
Cstm Ap Grd. Herb	acre			1.00	Mar							1.0000	5.02	5.02	5.02	
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76	
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92	
0-60-90	acre											1.0000	52.59	52.59	52.59	
NT Grain Drill	20'	MFWD 170	0.098	1.00	Apr	2.35	2.65	1.76	4.18	0.19	1.73				12.67	
Rice Seed	lb											83.0000	0.21	17.43	17.43	
Release - Seed Trt	lbseed											83.0000	0.06	5.06	5.06	
Fungicide Seed Trt	lbseed											83.0000	0.04	3.32	3.32	
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19				1.00	
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02	5.02	
Command 3ME	pt											1.0000	11.22	11.22	11.22	
Glyphosate Plus	pt											2.0000	1.88	3.76	3.76	
Survey Levee	acre			1.00	Apr							1.0000	4.00	4.00	4.00	
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47				3.61	
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44				2.34	
Rice Seed	lb											9.0000	0.21	1.89	1.89	
Release - Seed Trt	lbseed											9.0000	0.06	0.55	0.55	
Fungicide Seed Trt	lbseed											9.0000	0.04	0.36	0.36	
Blade-Scraper	8'-10'	2WD 50		1.00	Apr											
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24				1.44	
Levee Gates	acre											1.0000	1.50	1.50	1.50	
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.05	13.05	13.05	
Urea, Solid (46% N)	lb											233.0000	0.20	46.60	46.60	
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95	5.95	
Propanil 4E	pt											6.0000	2.64	15.84	15.84	
Permit 75	oz											1.0000	16.36	16.36	16.36	
Facet 75DF	lb											0.2500	45.69	11.42	11.42	
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	4.00	4.00	4.00	
2,4-D Amine	pt											0.2000	1.79	0.36	0.36	
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60	5.60	
Urea, Solid (46% N)	lb											100.0000	0.20	20.00	20.00	
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	6.25	1.88	1.88	
Foliar Fungicide	acre											0.3000	22.14	6.64	6.64	
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50	0.50	
Insecticide-StinkBug	acre											0.1000	4.98	0.50	0.50	
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40				44.18	
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28	
Dry Rice	bu			1.00	Sep							160.0000	0.30	48.00	48.00	
Cstm Haul Rice	bu											160.0000	0.15	24.00	24.00	
Rice Checkoff	bu											160.0000	0.01	2.16	2.16	
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04				0.25	
Flood Irr - Rice	each			1.00	May				24.84						24.84	
Apply Water	ac-in							74.74		0.45	3.71				78.45	
-----						20.22	31.12	78.74	34.16	1.11	9.82	-----				
TOTALS															343.26	517.32
INTEREST ON OPERATING CAPITAL																22.60
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																539.92

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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, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
79	-175	-146	-117	-88	-58	-29	0
85	-157	-126	-94	-63	-31	0	31
92	-137	-103	-68	-34	0	34	68
101	-112	-75	-37	0	37	75	112
111	-82	-41	0	41	82	123	165
124	-46	0	46	92	138	183	229
140	0	52	103	155	207	259	310

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
106	-177	-148	-118	-89	-59	-30	0
115	-159	-127	-95	-64	-32	0	32
125	-138	-104	-69	-35	0	35	69
136	-113	-76	-38	0	38	76	113
150	-83	-42	0	42	83	125	167
168	-47	0	47	93	140	186	233
190	0	53	105	158	211	263	316

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
77	-85	-71	-57	-43	-28	-14	0
83	-77	-62	-46	-31	-15	0	15
91	-67	-50	-34	-17	0	17	34
99	-55	-37	-18	0	18	37	55
110	-41	-20	0	20	41	61	81
123	-23	0	23	45	68	91	114
140	0	26	52	77	103	129	155

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
99	-177	-147	-118	-88	-59	-29	0
107	-159	-127	-95	-63	-32	0	32
116	-138	-103	-69	-34	0	34	69
127	-113	-75	-38	0	38	75	113
140	-83	-42	0	42	83	125	166
157	-46	0	46	93	139	185	232
177	0	52	105	157	210	262	314

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 2008 Costs of Production
Rice, Clearfield, Silt Loam Soils,
Eastern Arkansas

AG-1082-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	300.0000	60.00	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	1.0000	22.14	_____
Fungicide-K.Smut	acre	10.03	0.5000	5.01	_____
HERBICIDES					
Command 3ME	pt	11.22	0.8000	8.98	_____
Newpath	oz	3.50	8.0000	28.00	_____
Aim EC	oz	5.66	1.5000	8.49	_____
Beyond	oz	3.94	5.0000	19.70	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice -Clearfield	lb	0.53	79.0000	41.87	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Herb	acre	5.95	3.0000	17.85	_____
Cstm Ap Air Fert	lb	0.05	300.0000	16.80	_____
Cstm Ap Air Fung	acre	6.25	1.5000	9.38	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8188	7.75	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.5430	4.45	_____
HAND LABOR					
Implements	hour	8.19	0.1192	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.9360	18.48	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	36.0002	83.88	_____
REPAIR & MAINTENANCE					
Implements	acre	5.43	1.0000	5.43	_____
Tractors	acre	3.04	1.0000	3.04	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	36.0000	5.80	_____
INTEREST ON OP. CAP.	acre	26.65	1.0000	26.65	_____
TOTAL DIRECT EXPENSES				558.02	_____
FIXED EXPENSES					
Implements	acre	14.88	1.0000	14.88	_____
Tractors	acre	23.16	1.0000	23.16	_____
Harvesters	acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				86.68	_____
TOTAL SPECIFIED EXPENSES				644.70	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clearfield, Silt Loam Soils, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						dollars				dollars			dollars		
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.04	8.63	0.43	1.40	0.30	2.87				21.37
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-60-90	acre											1.0000	52.59	52.59	52.59
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.23	1.33	0.33	1.72	0.04	0.44				5.05
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.25	2.55	1.14	2.72	0.18	1.66				10.32
Rice -Clearfield	lb											70.0000	0.53	37.10	37.10
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.12	1.26	0.12	0.84	0.04	0.44				3.78
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02	5.02
Command 3ME	pt											0.8000	11.22	8.98	8.98
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19				1.00
Survey Levee	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47				3.61
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44				2.34
Rice -Clearfield	lb											9.0000	0.53	4.77	4.77
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24				1.44
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	2WD 50		1.00	Apr										
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	5.95	5.95	5.95
Newpath	oz											4.0000	3.50	14.00	14.00
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95	5.95
Newpath	oz											4.0000	3.50	14.00	14.00
Aim EC	oz											1.5000	5.66	8.49	8.49
Cstm Ap Air Fert	lb			1.00	May							200.0000	0.05	11.20	11.20
Urea, Solid (46% N)	lb											200.0000	0.20	40.00	40.00
Cstm Ap Air Herb	acre			1.00	Jun							1.0000	5.95	5.95	5.95
Beyond	oz											5.0000	3.94	19.70	19.70
Cstm Ap Air Fung	acre			1.00	Jul							1.0000	6.25	6.25	6.25
Foliar Fungicide	acre											1.0000	22.14	22.14	22.14
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	4.00	4.00	4.00
2,4-D Amine	pt											0.2000	1.79	0.36	0.36
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60	5.60
Urea, Solid (46% N)	lb											100.0000	0.20	20.00	20.00
Cstm Ap Air Fung	acre			1.00	Aug							0.5000	6.25	3.13	3.13
Fungicide-K.Smut	acre											0.5000	10.03	5.01	5.01
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50	0.50
Insecticide-StinkBug	acre											0.1000	4.98	0.50	0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40				44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28
Dry Rice	bu			1.00	Sep							160.0000	0.30	48.00	48.00
Cstm Haul Rice	bu											160.0000	0.15	24.00	24.00
Rice Checkoff	bu											160.0000	0.01	2.16	2.16
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04				0.25
Flood Irr - Rice	each			1.00	May				24.84						24.84
Apply Water	ac-in							89.68		0.54	4.45			36.0000	94.13
TOTALS							34.92	46.96	95.11	39.72	1.73	15.57		385.77	618.05
INTEREST ON OPERATING CAPITAL															26.65
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															644.70

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, Clearfield, Silt Loam Soils, Eastern Arkansas, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
95	-212	-176	-141	-106	-71	-35	0
103	-190	-152	-114	-76	-38	0	38
111	-165	-124	-82	-41	0	41	82
122	-135	-90	-45	0	45	90	135
134	-99	-50	0	50	99	149	199
150	-55	0	55	111	166	221	277
169	0	62	125	187	250	312	375

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
128	-214	-178	-142	-107	-71	-36	0
138	-192	-154	-115	-77	-38	0	38
150	-167	-125	-83	-42	0	42	83
164	-137	-91	-46	0	46	91	137
182	-101	-50	0	50	101	151	201
203	-56	0	56	112	169	225	281
229	0	64	127	191	254	318	381

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
96	-107	-89	-71	-53	-36	-18	0
104	-96	-77	-58	-38	-19	0	19
113	-84	-63	-42	-21	0	21	42
124	-69	-46	-23	0	23	46	69
137	-51	-25	0	25	51	76	101
153	-28	0	28	57	85	113	142
174	0	32	64	97	129	161	193

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
120	-213	-178	-142	-107	-71	-36	0
129	-192	-153	-115	-77	-38	0	38
141	-166	-125	-83	-42	0	42	83
154	-136	-91	-45	0	45	91	136
170	-100	-50	0	50	100	151	201
189	-56	0	56	112	168	224	280
214	0	63	127	190	253	316	380

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 2008 Costs of Production
Rice, Hybrid, Silt Loam Soils,
Eastern Arkansas

AG-1083-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	170.0000	51.00	_____
Rice Checkoff	bu	0.01	170.0000	2.30	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	267.0000	53.40	_____
HERBICIDES					
Command 3ME	pt	11.22	0.8000	8.98	_____
Propanil 4E	pt	2.64	6.0000	15.84	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Facet 75DF	lb	45.69	0.2500	11.42	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice - Hybrid	lb	2.60	33.8000	87.88	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fert	lb	0.05	267.0000	14.95	_____
Cstm Ap Air Herb	acre	5.95	1.0000	5.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	170.0000	25.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8188	7.75	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.4525	3.71	_____
HAND LABOR					
Implements	hour	8.19	0.1192	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.9360	18.48	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	30.0001	69.90	_____
REPAIR & MAINTENANCE					
Implements	acre	5.43	1.0000	5.43	_____
Tractors	acre	3.04	1.0000	3.04	_____
Harvesters	acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	30.0000	4.84	_____
INTEREST ON OP. CAP.	acre	25.50	1.0000	25.50	_____

TOTAL DIRECT EXPENSES				522.39	_____
FIXED EXPENSES					
Implements	acre	14.88	1.0000	14.88	_____
Tractors	acre	23.16	1.0000	23.16	_____
Harvesters	acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____

TOTAL FIXED EXPENSES				86.68	_____

TOTAL SPECIFIED EXPENSES				609.07	=====

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						dollars				dollars			dollars		
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.04	8.63	0.43	1.40	0.30	2.87				21.37
Cstm Ap Grd Fert	acre			1.00	Apr								1.0000	4.92	4.92
0-60-90	acre												1.0000	52.59	52.59
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.23	1.33	0.33	1.72	0.04	0.44				5.05
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.25	2.55	1.14	2.72	0.18	1.66				10.32
Rice - Hybrid	lb											30.0000	2.60	78.00	78.00
Roller	32'-12R30	MFWD 170	0.046	1.00	Apr	1.12	1.26	0.12	0.84	0.04	0.44				3.78
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19				1.00
Cstm Ap Grd. Herb	acre			1.00	Apr								1.0000	5.02	5.02
Command 3ME	pt												0.8000	11.22	8.98
Survey Levee	acre			1.00	Apr								1.0000	4.00	4.00
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47				3.61
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44				2.34
Rice - Hybrid	lb											3.8000	2.60	9.88	9.88
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24				1.44
Levee Gates	acre												1.0000	1.50	1.50
Blade-Scraper	8'-10'	2WD 50		1.00	Apr										
Cstm Ap Air Fert	lb			1.00	May								167.0000	0.05	9.35
Urea, Solid (46% N)	lb												167.0000	0.20	33.40
Cstm Ap Air Herb	acre			1.00	May								1.0000	5.95	5.95
Propanil 4E	pt												6.0000	2.64	15.84
Permit 75	oz												1.0000	16.36	16.36
Facet 75DF	lb												0.2500	45.69	11.42
Cstm Spray Levee,ATV	acre			1.00	Jul								1.0000	4.00	4.00
2,4-D Amine	pt												0.2000	1.79	0.36
Cstm Ap Air Fert	lb			1.00	Jul								100.0000	0.05	5.60
Urea, Solid (46% N)	lb												100.0000	0.20	20.00
Cstm Ap Air Insect	acre			1.00	Aug								0.1000	5.00	0.50
Insecticide-StinkBug	acre												0.1000	4.98	0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40				44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28
Dry Rice	bu			1.00	Sep								170.0000	0.30	51.00
Cstm Haul Rice	bu												170.0000	0.15	25.50
Rice Checkoff	bu												170.0000	0.01	2.30
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04				0.25
Flood Irr - Rice	each			1.00	May				24.84				0.0083		24.84
Apply Water	ac-in							74.74		0.45	3.71		30.0000		78.45
TOTALS						34.92	46.96	80.17	39.72	1.64	14.83			366.97	583.57
INTEREST ON OPERATING CAPITAL															25.50
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															609.07

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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, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
87	-194	-162	-129	-97	-65	-32	0
94	-174	-140	-105	-70	-35	0	35
102	-151	-114	-76	-38	0	38	76
112	-124	-83	-41	0	41	83	124
123	-91	-46	0	46	91	137	182
137	-51	0	51	102	152	203	254
155	0	57	115	172	229	286	344

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
118	-196	-163	-131	-98	-65	-33	0
127	-176	-141	-106	-71	-35	0	35
138	-153	-115	-77	-38	0	38	77
151	-126	-84	-42	0	42	84	126
167	-92	-46	0	46	92	139	185
186	-52	0	52	103	155	206	258
210	0	58	117	175	233	291	350

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
91	-101	-84	-67	-50	-34	-17	0
98	-91	-72	-54	-36	-18	0	18
107	-79	-59	-39	-20	0	20	39
117	-65	-43	-22	0	22	43	65
129	-48	-24	0	24	48	72	96
145	-27	0	27	54	80	107	134
164	0	30	61	91	122	152	182

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
110	-196	-163	-130	-98	-65	-33	0
119	-176	-141	-105	-70	-35	0	35
129	-153	-115	-76	-38	0	38	76
141	-125	-83	-42	0	42	83	125
156	-92	-46	0	46	92	138	184
173	-51	0	51	103	154	205	257
196	0	58	116	174	232	290	348

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 2008 Costs of Production
Rice, Clearfield Hybrid, Silt Loam Soils,
Eastern Arkansas

AG-1084-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	170.0000	51.00	_____
Rice Checkoff	bu	0.01	170.0000	2.30	_____
FERTILIZERS					
0-60-90	acre	52.59	1.0000	52.59	_____
Urea, Solid (46% N)	lb	0.20	267.0000	53.40	_____
HERBICIDES					
Command 3ME	pt	11.22	0.8000	8.98	_____
Newpath	oz	3.50	8.0000	28.00	_____
Aim EC	oz	5.66	1.5000	8.49	_____
Beyond	oz	3.94	5.0000	19.70	_____
2,4-D Amine	pt	1.79	0.2000	0.36	_____
INSECTICIDES					
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice - CL Hybrid	lb	3.73	33.8000	126.19	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.92	1.0000	4.92	_____
Cstm Ap Grd. Herb	acre	5.02	1.0000	5.02	_____
Survey Levee	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Herb	acre	5.95	3.0000	17.85	_____
Cstm Ap Air Fert	lb	0.05	267.0000	14.95	_____
Cstm Spray Levee,ATV	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Insect	acre	5.00	0.1000	0.50	_____
Cstm Haul Rice	bu	0.15	170.0000	25.50	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.8188	7.75	_____
Harvesters	hour	9.45	0.2538	2.40	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.5430	4.45	_____
HAND LABOR					
Implements	hour	8.19	0.1192	0.97	_____
DIESEL FUEL					
Tractors	gal	2.33	7.9360	18.48	_____
Harvesters	gal	2.33	3.5919	8.37	_____
Flood Irr - Rice	gal	2.33	36.0002	83.88	_____
REPAIR & MAINTENANCE					
Implements	Acre	5.43	1.0000	5.43	_____
Tractors	Acre	3.04	1.0000	3.04	_____
Harvesters	Acre	5.03	1.0000	5.03	_____
Flood Irr - Rice	ac-in	0.16	36.0000	5.80	_____
INTEREST ON OP. CAP.	Acre	30.06	1.0000	30.06	_____
TOTAL DIRECT EXPENSES				605.41	_____
FIXED EXPENSES					
Implements	Acre	14.88	1.0000	14.88	_____
Tractors	Acre	23.16	1.0000	23.16	_____
Harvesters	Acre	23.80	1.0000	23.80	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				86.68	_____
TOTAL SPECIFIED EXPENSES				692.09	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clearfield Hybrid, Silt Loam Soils, Eastern Arkansas, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						dollars				dollars		dollars			
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.41	4.72	1.17	3.06	0.14	1.33				14.69
Land Plane	50'x16'	MFWD 190	0.151	2.00	Apr	8.04	8.63	0.43	1.40	0.30	2.87				21.37
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.92	4.92	4.92
0-60-90	acre											1.0000	52.59	52.59	52.59
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Apr	1.23	1.33	0.33	1.72	0.04	0.44				5.05
Grain Drill	20'	MFWD 170	0.094	1.00	Apr	2.25	2.55	1.14	2.72	0.18	1.66				10.32
Rice - CL Hybrid	lb											30.0000	3.73	112.00	112.00
Roller	32"-12R30	MFWD 170	0.046	1.00	Apr	1.12	1.26	0.12	0.84	0.04	0.44				3.78
Ditcher		2WD 130	0.020	1.00	Apr	0.36	0.36	0.03	0.06	0.02	0.19				1.00
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	5.02	5.02	5.02
Command 3ME	pt											0.8000	11.22	8.98	8.98
Survey Levee	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.33	1.42	0.05	0.34	0.05	0.47				3.61
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.66	0.71	0.07	0.46	0.05	0.44				2.34
Rice - CL Hybrid	lb											3.8000	3.73	14.19	14.19
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.27	0.11	0.47	0.02	0.24				1.44
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	2WD 50		1.00	Apr										
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	5.95	5.95	5.95
Newpath	oz											4.0000	3.50	14.00	14.00
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95	5.95
Newpath	oz											4.0000	3.50	14.00	14.00
Aim EC	oz											1.5000	5.66	8.49	8.49
Cstm Ap Air Fert	lb			1.00	May							167.0000	0.05	9.35	9.35
Urea, Solid (46% N)	lb											167.0000	0.20	33.40	33.40
Cstm Ap Air Herb	acre			1.00	Jun							1.0000	5.95	5.95	5.95
Beyond	oz											5.0000	3.94	19.70	19.70
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	4.00	4.00	4.00
2,4-D Amine	pt											0.2000	1.79	0.36	0.36
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60	5.60
Urea, Solid (46% N)	lb											100.0000	0.20	20.00	20.00
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50	0.50
Insecticide-StinkBug	acre											0.1000	4.98	0.50	0.50
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	13.40	23.80	1.61	2.97	0.25	2.40				44.18
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28
Dry Rice	bu			1.00	Sep							170.0000	0.30	51.00	51.00
Cstm Haul Rice	bu											170.0000	0.15	25.50	25.50
Rice Checkoff	bu											170.0000	0.01	2.30	2.30
Levee Splitter (1/80	8 blade	MFWD 150	0.004	1.00	Oct	0.08	0.10		0.03	0.00	0.04				0.25
Flood Irr - Rice	each			1.00	May				24.84						24.84
Apply Water	ac-in							89.68		0.54	4.45			36.0000	94.13
TOTALS							34.92	46.96	95.11	39.72	1.73	15.57		429.75	662.03
INTEREST ON OPERATING CAPITAL															30.06
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															692.09

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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, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
104	-230	-192	-153	-115	-77	-38	0
112	-207	-165	-124	-83	-41	0	41
121	-180	-135	-90	-45	0	45	90
133	-147	-98	-49	0	49	98	147
146	-108	-54	0	54	108	162	216
163	-60	0	60	120	181	241	301
184	0	68	136	204	272	340	408

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
140	-233	-194	-155	-116	-78	-39	0
151	-209	-167	-125	-84	-42	0	42
164	-182	-136	-91	-45	0	45	91
179	-149	-99	-50	0	50	99	149
198	-110	-55	0	55	110	164	219
220	-61	0	61	122	183	245	306
249	0	69	138	207	277	346	415

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
105	-117	-98	-78	-59	-39	-20	0
114	-105	-84	-63	-42	-21	0	21
124	-92	-69	-46	-23	0	23	46
136	-75	-50	-25	0	25	50	75
150	-56	-28	0	28	56	83	111
168	-31	0	31	62	93	125	156
191	0	35	71	106	141	177	212

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
131	-232	-193	-155	-116	-77	-39	0
141	-209	-167	-125	-83	-42	0	42
153	-181	-136	-91	-45	0	45	91
167	-149	-99	-50	0	50	99	149
185	-109	-55	0	55	109	164	219
206	-61	0	61	122	183	244	305
233	0	69	138	207	275	344	413

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 2008 Costs of Production
Rice, Zero Grade, No-Till, Water Seeded,
Eastern Arkansas

AG-1085-11-07

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					
GIN/DRY					
Dry Rice	bu	0.30	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
FERTILIZERS					
Urea, Solid (46% N)	lb	0.20	400.0000	80.00	_____
FUNGICIDES					
Foliar Fungicide	acre	22.14	0.3000	6.64	_____
HERBICIDES					
Command 3ME	pt	11.22	1.0000	11.22	_____
Londax 60DF	oz	12.50	1.0000	12.50	_____
Facet 75DF	lb	45.69	0.5000	22.85	_____
Permit 75	oz	16.36	1.0000	16.36	_____
Aim EC	oz	5.66	1.0000	5.66	_____
INSECTICIDES					
Insecticide-W.Weevil	acre	5.47	2.0000	10.94	_____
Insecticide-StinkBug	acre	4.98	0.1000	0.50	_____
CROP SEED					
Rice Seed	lb	0.21	100.0000	21.00	_____
ADJUVANTS					
Crop Oil	pt	1.33	1.6000	2.13	_____
CUSTOM HIRE					
Cstm Ap Air Seed	lb	0.05	100.0000	5.00	_____
Cstm Ap Air Herb	acre	5.95	3.0000	17.85	_____
Cstm Ap Air Fert	lb	0.05	400.0000	22.40	_____
Cstm Ap Air Insect	acre	5.00	2.1000	10.50	_____
Cstm Ap Air Fung	acre	6.25	0.3000	1.88	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	9.45	0.1620	1.53	_____
Harvesters	hour	9.45	0.2200	2.08	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.19	0.3620	2.97	_____
DIESEL FUEL					
Tractors	gal	2.33	1.3611	3.17	_____
Harvesters	gal	2.33	3.1130	7.25	_____
Flood Irr - Rice	gal	2.33	24.0001	55.92	_____
REPAIR & MAINTENANCE					
Implements	acre	2.71	1.0000	2.71	_____
Tractors	acre	0.54	1.0000	0.54	_____
Harvesters	acre	4.36	1.0000	4.36	_____
Flood Irr - Rice	ac-in	0.16	24.0000	3.87	_____
INTEREST ON OP. CAP.	acre	19.31	1.0000	19.31	_____
TOTAL DIRECT EXPENSES				425.29	_____
FIXED EXPENSES					
Implements	acre	4.24	1.0000	4.24	_____
Tractors	acre	4.01	1.0000	4.01	_____
Harvesters	acre	20.63	1.0000	20.63	_____
Flood Irr - Rice	each	2993.11	0.0083	24.84	_____
TOTAL FIXED EXPENSES				53.72	_____
TOTAL SPECIFIED EXPENSES				479.01	_____

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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, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES		POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
				OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Planting				1.00	Apr										
Cstm Ap Air Seed	lb											100.0000	0.05	5.00	5.00
Rice Seed	lb											100.0000	0.21	21.00	21.00
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	5.95	5.95	5.95
Command 3ME	pt											1.0000	11.22	11.22	11.22
Londax 60DF	oz											1.0000	12.50	12.50	12.50
Crop Oil	pt											0.8000	1.33	1.06	1.06
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.95	5.95	5.95
Facet 75DF	lb											0.5000	45.69	22.85	22.85
Permit 75	oz											1.0000	16.36	16.36	16.36
Crop Oil	pt											0.8000	1.33	1.06	1.06
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.05	16.80	16.80
Urea, Solid (46% N)	lb											300.0000	0.20	60.00	60.00
Cstm Ap Air Insect	acre			1.00	May							1.0000	5.00	5.00	5.00
Insecticide-W.Weevil	acre											1.0000	5.47	5.47	5.47
Cstm Ap Air Insect	acre			1.00	Jun							1.0000	5.00	5.00	5.00
Insecticide-W.Weevil	acre											1.0000	5.47	5.47	5.47
Cstm Ap Air Herb	acre			1.00	Jul							1.0000	5.95	5.95	5.95
Aim EC	oz											1.0000	5.66	5.66	5.66
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60	5.60
Urea, Solid (46% N)	lb											100.0000	0.20	20.00	20.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	6.25	1.88	1.88
Foliar Fungicide	acre											0.3000	22.14	6.64	6.64
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	5.00	0.50	0.50
Insecticide-StinkBug	acre											0.1000	4.98	0.50	0.50
Header - Rice	25' Rigid	275hp	0.220	1.00	Sep	11.61	20.63	1.40	2.58	0.22	2.08				38.30
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.69	1.81	0.37	0.81	0.06	0.60				5.28
Dry Rice	bu			1.00	Sep							160.0000	0.30	48.00	48.00
Cstm Haul Rice	bu											160.0000	0.15	24.00	24.00
Rice Checkoff	bu											160.0000	0.01	2.16	2.16
Rotary Cutter-Flex	15'	MFWD 150	0.078	1.00	Sep	1.66	1.84	0.91	0.79	0.07	0.74				5.94
Ditcher		2WD 130	0.020	1.00	Sep	0.36	0.36	0.03	0.06	0.02	0.19				1.00
Flood Irr - Rice	each			1.00	May				24.84			0.0083			24.84
Apply Water	ac-in							59.79		0.36	2.97	24.0000			62.76
TOTALS						15.32	24.64	62.50	29.08	0.74	6.58			321.58	459.70
INTEREST ON OPERATING CAPITAL															19.31
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															479.01

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, 2008

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
69	-154	-128	-103	-77	-51	-26	0
75	-138	-111	-83	-55	-28	0	28
81	-120	-90	-60	-30	0	30	60
89	-98	-66	-33	0	33	66	98
98	-72	-36	0	36	72	108	144
109	-40	0	40	80	121	161	201
123	0	45	91	136	182	227	272

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
93	-155	-129	-104	-78	-52	-26	0
101	-140	-112	-84	-56	-28	0	28
109	-121	-91	-61	-30	0	30	61
120	-100	-66	-33	0	33	66	100
132	-73	-37	0	37	73	110	146
147	-41	0	41	82	123	163	204
166	0	46	92	139	185	231	277

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
70	-77	-64	-52	-39	-26	-13	0
75	-70	-56	-42	-28	-14	0	14
82	-61	-45	-30	-15	0	15	30
90	-50	-33	-17	0	17	33	50
99	-37	-18	0	18	37	55	73
111	-21	0	21	41	62	82	103
126	0	23	47	70	93	117	140

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)						
	3.33	3.70	4.07	4.44	4.81	5.18	5.55
	Net Returns above Variable Costs (\$/acre)						
87	-155	-129	-103	-77	-52	-26	0
94	-139	-111	-84	-56	-28	0	28
102	-121	-91	-60	-30	0	30	60
112	-99	-66	-33	0	33	66	99
123	-73	-36	0	36	73	109	146
137	-41	0	41	81	122	163	203
155	0	46	92	138	184	230	276

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.