



UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE
Cooperative Extension Service

Estimating 2006 Costs of Production
Rice, Silt Loam Soils, Eastern Arkansas

AG-923-11-05

Brad Watkins, Extension Economist
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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
GIN/DRY					
Dry Rice	bu	0.30	150.0000	45.00	_____
FERTILIZERS					
0-60-90	acre	38.64	1.0000	38.65	_____
Urea, Solid (46% N)	lb	0.17	333.0000	58.68	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	0.3000	7.68	_____
HERBICIDES					
Command 3ME	pt	11.54	0.8000	9.23	_____
Propanil 4E	pt	2.63	6.0000	15.81	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.03	0.2500	12.01	_____
2,4-D Amine	pt	2.10	0.2000	0.42	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.15	99.0000	14.85	_____
Fungicide Seed Trt	lb seed	0.03	99.0000	3.85	_____
Release - Seed Trt	lb seed	0.03	99.0000	3.85	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.75	1.0000	4.75	_____
Cstm Ap Grd. Herb	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Fert	lb	0.05	333.0000	16.65	_____
Cstm Ap Air Herb	acre	5.50	1.0000	5.50	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Fung	acre	5.50	0.3000	1.65	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.9259	7.52	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.5280	4.29	_____
HAND LABOR					
Implements	hour	8.12	0.1442	1.17	_____
DIESEL FUEL					
Tractors	gal	2.20	7.4089	16.31	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	30.0001	66.00	_____
REPAIR & MAINTENANCE					
Implements	acre	5.27	1.0000	5.27	_____
Tractors	acre	3.14	1.0000	3.14	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	30.0000	2.78	_____
INTEREST ON OP. CAP.	acre	19.12	1.0000	19.12	_____
TOTAL DIRECT EXPENSES				429.00	_____
FIXED EXPENSES					
Implements	acre	13.92	1.0000	13.92	_____
Tractors	acre	23.50	1.0000	23.50	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				79.69	_____
TOTAL SPECIFIED EXPENSES				508.69	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Eastern Arkansas, 2006

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	4.15	4.32	1.11	2.84	0.14	1.14				13.56
Land Plane	50'x16'	MFWD 190	0.121	2.00	Apr	6.09	6.51	0.31	1.00	0.24	1.97				15.88
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.75	4.75	4.75
0-60-90	acre											1.0000	38.64	38.65	38.65
Field Cultivate	32'	MFWD 225	0.046	1.00	Apr	1.38	1.44	0.27	1.38	0.04	0.38				4.85
Grain Drill	20'	2WD 170	0.094	1.00	Apr	2.08	1.98	0.94	2.18	0.18	1.54				8.72
Rice Seed	lb											90.0000	0.15	13.50	13.50
Fungicide Seed Trt	lb seed											90.0000	0.03	3.50	3.50
Release - Seed Trt	lb seed											90.0000	0.03	3.50	3.50
Roller	32'	2WD 150	0.046	1.00	Apr	0.91	0.86	0.09	0.62	0.04	0.38				2.86
Ditcher	3'	MFWD 105	0.012	1.00	Apr	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Command 3ME	pt											0.8000	11.54	9.23	9.23
Survey Levees - Rice	acre			1.00	Apr							1.0000	2.50	2.50	2.50
Levee Disk	4 Blade	MFWD 190	0.025	2.00	Apr	1.26	1.34	0.03	0.20	0.05	0.41				3.24
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40				1.87
Rice Seed	lb											9.0000	0.15	1.35	1.35
Fungicide Seed Trt	lb seed											9.0000	0.03	0.35	0.35
Release - Seed Trt	lb seed											9.0000	0.03	0.35	0.35
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40				2.24
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22				1.03
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.05	11.65	11.65
Urea, Solid (46% N)	lb											233.0000	0.17	41.06	41.06
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Propanil 4E	pt											6.0000	2.63	15.81	15.81
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.2500	48.03	12.01	12.01
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
2,4-D Amine	pt											0.2000	2.10	0.42	0.42
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.50	1.65	1.65
Foliar Fungicide	acre											0.3000	25.59	7.68	7.68
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06				41.38
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55				11.38
Dry Rice	bu			1.00	Sep							150.0000	0.30	45.00	45.00
Cstm Haul Rice	bu											150.0000	0.15	22.50	22.50
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20				1.14
Flood Irr - Rice	well			1.00	May				19.35			0.0083			19.35
Apply Water	ac-in							68.78		0.52	4.29	30.0000			73.07
TOTALS						32.29	46.42	74.05	33.27	1.85	15.04			288.50	489.57
INTEREST ON OPERATING CAPITAL															19.12
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															508.69

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, Eastern Arkansas, 2006

Farm Owner							
BEY (bu/acre)	Crop Price						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
94	-186	-155	-124	-93	-62	-31	0
103	-170	-136	-102	-68	-34	0	34
114	-150	-113	-75	-38	0	38	75
127	-126	-84	-42	0	42	84	126
143	-95	-47	0	47	95	142	189
165	-54	0	54	109	163	218	272
194	0	64	128	192	257	321	385

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
127	-189	-157	-126	-94	-63	-31	0
139	-172	-138	-103	-69	-34	0	34
154	-152	-114	-76	-38	0	38	76
172	-128	-85	-43	0	43	85	128
195	-97	-48	0	48	97	145	193
225	-56	0	56	111	167	223	279
266	0	66	132	198	264	330	395

Landowner Receives 25% of the 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						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
100	-99	-82	-66	-49	-33	-16	0
110	-90	-72	-54	-36	-18	0	18
122	-80	-60	-40	-20	0	20	40
136	-68	-45	-23	0	23	45	68
155	-51	-26	0	26	51	77	103
181	-30	0	30	60	89	119	149
215	0	36	71	107	142	178	213

Landowner Receives 50% of the 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						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
119	-188	-157	-125	-94	-63	-31	0
130	-172	-137	-103	-69	-34	0	34
144	-152	-114	-76	-38	0	38	76
161	-127	-85	-42	0	42	85	127
182	-96	-48	0	48	96	144	192
210	-55	0	55	111	166	222	277
248	0	65	131	196	262	327	393

Landowner Receives 20% of the the Crop.

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.

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Rice, Clay Soils, Eastern Arkansas

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Jason Hill, 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	150.0000	45.00	_____
FERTILIZERS					
Urea, Solid (46% N)	lb	0.17	400.0000	70.49	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	0.3000	7.68	_____
HERBICIDES					
Command 3ME	pt	11.54	1.5000	17.31	_____
Propanil 4E	pt	2.63	6.0000	15.81	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.03	0.5000	24.02	_____
Grandstand R	pt	10.24	0.1000	1.02	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.15	121.0000	18.15	_____
Fungicide Seed Trt	lb seed	0.03	121.0000	4.71	_____
Release - Seed Trt	lb seed	0.03	121.0000	4.71	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Fert	lb	0.05	400.0000	20.00	_____
Cstm Ap Air Herb	acre	5.50	1.0000	5.50	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Fung	acre	5.50	0.3000	1.65	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.9759	7.92	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.6336	5.14	_____
HAND LABOR					
Implements	hour	8.12	0.1442	1.17	_____
DIESEL FUEL					
Tractors	gal	2.20	8.4395	18.58	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	36.0002	79.20	_____
REPAIR & MAINTENANCE					
Implements	acre	5.30	1.0000	5.30	_____
Tractors	acre	3.40	1.0000	3.40	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	36.0000	3.33	_____
INTEREST ON OP. CAP.	acre	19.72	1.0000	19.72	_____
TOTAL DIRECT EXPENSES				444.63	_____
FIXED EXPENSES					
Implements	acre	14.13	1.0000	14.13	_____
Tractors	acre	25.44	1.0000	25.44	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				81.84	_____
TOTAL SPECIFIED EXPENSES				526.47	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clay Soils, Eastern Arkansas, 2006

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'	4WD 300	0.070	2.00	Apr	5.43	4.92	1.11	2.84	0.14	1.14				15.44
Land Plane	50'x16'	MFWD 190	0.121	2.00	Apr	6.09	6.51	0.31	1.00	0.24	1.97				15.88
Field Cultivate	32'	MFWD 225	0.046	1.00	Apr	1.38	1.44	0.27	1.38	0.04	0.38				4.85
Grain Drill	20'	2WD 170	0.094	1.00	Apr	2.08	1.98	0.94	2.18	0.18	1.54				8.72
Rice Seed	lb											110.0000	0.15	16.50	16.50
Fungicide Seed Trt	lb seed											110.0000	0.03	4.28	4.28
Release - Seed Trt	lb seed											110.0000	0.03	4.28	4.28
Roller	32'	2WD 150	0.046	1.00	Apr	0.91	0.86	0.09	0.62	0.04	0.38				2.86
Ditcher	3'	MFWD 105	0.012	1.00	Apr	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Command 3ME	pt											1.5000	11.54	17.31	17.31
Survey Levees - Rice	acre			1.00	Apr							1.0000	2.50	2.50	2.50
Levee Disk	4 Blade	MFWD 190	0.025	4.00	Apr	2.51	2.68	0.06	0.41	0.10	0.81				6.47
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40				1.87
Rice Seed	lb											11.0000	0.15	1.65	1.65
Fungicide Seed Trt	lb seed											11.0000	0.03	0.43	0.43
Release - Seed Trt	lb seed											11.0000	0.03	0.43	0.43
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40				2.24
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22				1.03
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.05	15.00	15.00
Urea, Solid (46% N)	lb											300.0000	0.17	52.87	52.87
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Propanil 4E	pt											6.0000	2.63	15.81	15.81
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.5000	48.03	24.02	24.02
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
Grandstand R	pt											0.1000	10.24	1.02	1.02
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.50	1.65	1.65
Foliar Fungicide	acre											0.3000	25.59	7.68	7.68
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06				41.38
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55				11.38
Dry Rice	bu			1.00	Sep							150.0000	0.30	45.00	45.00
Cstm Haul Rice	bu											150.0000	0.15	22.50	22.50
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20				1.14
Flood Irr - Rice	well			1.00	May				19.35			0.0083			19.35
Apply Water	ac-in							82.53		0.63	5.14	36.0000			87.67
TOTALS						34.82	48.36	87.83	33.48	2.00	16.29			285.97	506.75
INTEREST ON OPERATING CAPITAL															19.72
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															526.47

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Clay Soils, Eastern Arkansas, 2006

Farm Owner							
BEY (bu/acre)	Crop Price						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
98	-194	-162	-130	-97	-65	-32	0
107	-177	-142	-106	-71	-35	0	35
119	-157	-117	-78	-39	0	39	78
132	-131	-87	-44	0	44	87	131
150	-99	-49	0	49	99	148	198
172	-57	0	57	114	170	227	284
203	0	67	134	201	268	335	401

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
133	-197	-164	-131	-99	-66	-33	0
145	-180	-144	-108	-72	-36	0	36
161	-159	-119	-80	-40	0	40	80
180	-133	-89	-44	0	44	89	133
204	-101	-50	0	50	101	151	202
235	-58	0	58	116	174	233	291
278	0	69	138	206	275	344	413

Landowner Receives 25% of the 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						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
102	-101	-84	-67	-50	-34	-17	0
112	-92	-74	-55	-37	-18	0	18
124	-82	-61	-41	-20	0	20	41
139	-69	-46	-23	0	23	46	69
158	-52	-26	0	26	52	78	104
184	-30	0	30	61	91	121	152
219	0	36	72	108	145	181	217

Landowner Receives 50% of the 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						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
124	-196	-164	-131	-98	-65	-33	0
136	-179	-143	-108	-72	-36	0	36
150	-158	-119	-79	-40	0	40	79
168	-133	-88	-44	0	44	88	133
190	-100	-50	0	50	100	150	201
219	-58	0	58	116	173	231	289
259	0	68	137	205	273	341	410

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 2006 Costs of Production
Rice, Silt Loam Soils, Stale Seedbed,
Eastern Arkansas

AG-925-11-05

Brad Watkins, Extension Economist
Jason Hill, 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	150.0000	45.00	_____
FERTILIZERS					
0-60-90	acre	38.64	1.0000	38.65	_____
Urea, Solid (46% N)	lb	0.17	333.0000	58.68	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	0.3000	7.68	_____
HERBICIDES					
Glyphosate Plus	pt	1.78	2.0000	3.58	_____
Command 3ME	pt	11.54	0.8000	9.23	_____
Propanil 4E	pt	2.63	6.0000	15.81	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.03	0.2500	12.01	_____
2,4-D Amine	pt	2.10	0.2000	0.42	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.15	110.0000	16.50	_____
Fungicide Seed Trt	lb seed	0.03	110.0000	4.28	_____
Release - Seed Trt	lb seed	0.03	110.0000	4.28	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	4.75	2.0000	9.50	_____
Cstm Ap Grd Fert	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Fert	lb	0.05	333.0000	16.65	_____
Cstm Ap Air Herb	acre	5.50	1.0000	5.50	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Fung	acre	5.50	0.3000	1.65	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.9028	7.33	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.5280	4.29	_____
HAND LABOR					
Implements	hour	8.12	0.1678	1.36	_____
DIESEL FUEL					
Tractors	gal	2.20	7.3762	16.24	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	30.0001	66.00	_____
REPAIR & MAINTENANCE					
Implements	acre	6.13	1.0000	6.13	_____
Tractors	acre	3.18	1.0000	3.18	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	30.0000	2.78	_____
INTEREST ON OP. CAP.	acre	19.14	1.0000	19.14	_____
TOTAL DIRECT EXPENSES				440.69	_____
FIXED EXPENSES					
Implements	acre	15.52	1.0000	15.52	_____
Tractors	acre	23.82	1.0000	23.82	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				81.61	_____
TOTAL SPECIFIED EXPENSES				522.30	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 2006

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					
Disk Harrow	28'	MFWD 225	0.070	2.00	Oct	4.15	4.32	1.11	2.84	0.14	1.14				13.56
Land Plane	50'x16'	MFWD 190	0.121	2.00	Oct	6.09	6.51	0.31	1.00	0.24	1.97				15.88
Field Cultivate	32'	MFWD 225	0.046	1.00	Oct	1.38	1.44	0.27	1.38	0.04	0.38				4.85
Ditcher	3'	MFWD 105	0.012	1.00	Oct	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Glyphosate Plus	pt											2.0000	1.78	3.58	3.58
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.75	4.75	4.75
0-60-90	acre											1.0000	38.64	38.65	38.65
NT Grain Drill	20'	MFWD 190	0.117	1.00	Apr	2.96	3.16	1.89	4.40	0.23	1.92				14.33
Rice Seed	lb											100.0000	0.15	15.00	15.00
Fungicide Seed Trt	lb seed											100.0000	0.03	3.89	3.89
Release - Seed Trt	lb seed											100.0000	0.03	3.89	3.89
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Command 3ME	pt											0.8000	11.54	9.23	9.23
Survey Levees - Rice	acre			1.00	Apr							1.0000	2.50	2.50	2.50
Levee Disk	4 Blade	MFWD 190	0.025	2.00	Apr	1.26	1.34	0.03	0.20	0.05	0.41				3.24
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40				1.87
Rice Seed	lb											10.0000	0.15	1.50	1.50
Fungicide Seed Trt	lb seed											10.0000	0.03	0.39	0.39
Release - Seed Trt	lb seed											10.0000	0.03	0.39	0.39
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40				2.24
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22				1.03
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.05	11.65	11.65
Urea, Solid (46% N)	lb											233.0000	0.17	41.06	41.06
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Propanil 4E	pt											6.0000	2.63	15.81	15.81
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.2500	48.03	12.01	12.01
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
2,4-D Amine	pt											0.2000	2.10	0.42	0.42
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.50	1.65	1.65
Foliar Fungicide	acre											0.3000	25.59	7.68	7.68
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06				41.38
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55				11.38
Dry Rice	bu			1.00	Sep							150.0000	0.30	45.00	45.00
Cstm Haul Rice	bu											150.0000	0.15	22.50	22.50
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20				1.14
Flood Irr - Rice	well			1.00	May							0.0083			19.35
Apply Water	ac-in							68.78		0.52	4.29	30.0000			73.07
TOTALS						32.26	46.74	74.91	34.87	1.85	15.04			299.34	503.16
INTEREST ON OPERATING CAPITAL															19.14
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															522.30

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 2006

Farm Owner

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
97	-192	-160	-128	-96	-64	-32	0
106	-175	-140	-105	-70	-35	0	35
117	-155	-116	-77	-39	0	39	77
131	-130	-86	-43	0	43	86	130
148	-98	-49	0	49	98	147	195
170	-56	0	56	112	169	225	281
201	0	66	132	199	265	331	397

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
131	-195	-162	-130	-97	-65	-32	0
144	-178	-142	-107	-71	-36	0	36
159	-157	-118	-79	-39	0	39	79
178	-132	-88	-44	0	44	88	132
201	-100	-50	0	50	100	150	199
233	-58	0	58	115	173	230	288
275	0	68	136	204	272	340	408

Landowner Receives 25% of the 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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
103	-102	-85	-68	-51	-34	-17	0
113	-94	-75	-56	-37	-19	0	19
126	-83	-62	-41	-21	0	21	41
141	-70	-47	-23	0	23	47	70
161	-53	-27	0	27	53	80	106
187	-31	0	31	62	92	123	154
223	0	37	74	110	147	184	221

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
123	-194	-162	-130	-97	-65	-32	0
134	-177	-142	-106	-71	-35	0	35
148	-157	-118	-78	-39	0	39	78
166	-131	-88	-44	0	44	88	131
188	-99	-50	0	50	99	149	198
217	-57	0	57	114	172	229	286
256	0	68	135	203	270	338	405

Landowner Receives 20% of the the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pay Drying Expenses on 20% of the Crop.

Estimating 2006 Costs of Production
Rice, Silt Loam Soils, No-Till,
Eastern Arkansas

AG-926-11-05

Brad Watkins, Extension Economist

Jason Hill, 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	150.0000	45.00	_____
FERTILIZERS					
0-60-90	acre	38.64	1.0000	38.65	_____
Urea, Solid (46% N)	lb	0.17	333.0000	58.68	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	0.3000	7.68	_____
HERBICIDES					
Glyphosate Plus	pt	1.78	4.0000	7.15	_____
Command 3ME	pt	11.54	1.0000	11.54	_____
Propanil 4E	pt	2.63	6.0000	15.81	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.03	0.2500	12.01	_____
2,4-D Amine	pt	2.10	0.2000	0.42	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice Seed	lb	0.15	110.0000	16.50	_____
Fungicide Seed Trt	lb seed	0.03	110.0000	4.28	_____
Release - Seed Trt	lb seed	0.03	110.0000	4.28	_____
CUSTOM HIRE					
Cstm Ap Grd. Herb	acre	4.75	2.0000	9.50	_____
Cstm Ap Grd Fert	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Fert	lb	0.05	333.0000	16.65	_____
Cstm Ap Air Herb	acre	5.50	1.0000	5.50	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Fung	acre	5.50	0.3000	1.65	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.4732	3.84	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.5280	4.29	_____
HAND LABOR					
Implements	hour	8.12	0.1678	1.36	_____
DIESEL FUEL					
Tractors	gal	2.20	2.8380	6.26	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	30.0001	66.00	_____
REPAIR & MAINTENANCE					
Implements	acre	4.44	1.0000	4.44	_____
Tractors	acre	1.54	1.0000	1.54	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	30.0000	2.78	_____
INTEREST ON OP. CAP.	acre	19.22	1.0000	19.22	_____
TOTAL DIRECT EXPENSES				429.86	_____
FIXED EXPENSES					
Implements	acre	10.30	1.0000	10.30	_____
Tractors	acre	11.55	1.0000	11.55	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				64.12	_____
TOTAL SPECIFIED EXPENSES				493.98	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Silt Loam Soils, No-Till, Eastern Arkansas, 2006

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	4.75	4.75	4.75
Glyphosate Plus	pt											2.0000	1.78	3.58	3.58
Cstm Ap Grd Fert	acre			1.00	Apr							1.0000	4.75	4.75	4.75
0-60-90	acre											1.0000	38.64	38.65	38.65
NT Grain Drill	20'	MFWD 190	0.117	1.00	Apr	2.96	3.16	1.89	4.40	0.23	1.92				14.33
Rice Seed	lb											100.0000	0.15	15.00	15.00
Fungicide Seed Trt	lb seed											100.0000	0.03	3.89	3.89
Release - Seed Trt	lb seed											100.0000	0.03	3.89	3.89
Ditcher	3'	MFWD 105	0.012	1.00	Apr	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Cstm Ap Grd. Herb	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Command 3ME	pt											1.0000	11.54	11.54	11.54
Glyphosate Plus	pt											2.0000	1.78	3.58	3.58
Survey Levees - Rice	acre			1.00	Apr							1.0000	2.50	2.50	2.50
Levee Disk	4 Blade	MFWD 190	0.025	2.00	Apr	1.26	1.34	0.03	0.20	0.05	0.41				3.24
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40				1.87
Rice Seed	lb											10.0000	0.15	1.50	1.50
Fungicide Seed Trt	lb seed											10.0000	0.03	0.39	0.39
Release - Seed Trt	lb seed											10.0000	0.03	0.39	0.39
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40				2.24
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22				1.03
Cstm Ap Air Fert	lb			1.00	May							233.0000	0.05	11.65	11.65
Urea, Solid (46% N)	lb											233.0000	0.17	41.06	41.06
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Propanil 4E	pt											6.0000	2.63	15.81	15.81
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.2500	48.03	12.01	12.01
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
2,4-D Amine	pt											0.2000	2.10	0.42	0.42
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.50	1.65	1.65
Foliar Fungicide	acre											0.3000	25.59	7.68	7.68
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06				41.38
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55				11.38
Dry Rice	bu			1.00	Sep										45.00
Cstm Haul Rice	bu											150.0000	0.15	22.50	22.50
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20				1.14
Flood Irr - Rice	well			1.00	May										19.35
Apply Water	ac-in							68.78		0.52	4.29	0.0083			19.35
												30.0000			73.07
TOTALS						20.64	34.47	73.22	29.65	1.42	11.55			305.23	474.76
INTEREST ON OPERATING CAPITAL															19.22
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															493.98

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Silt Loam Soils, No-Till, Eastern Arkansas, 2006

Farm Owner

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
94	-187	-156	-125	-93	-62	-31	0
103	-170	-136	-102	-68	-34	0	34
114	-150	-113	-75	-38	0	38	75
127	-126	-84	-42	0	42	84	126
144	-95	-47	0	47	95	142	190
165	-55	0	55	109	164	218	273
195	0	64	129	193	257	321	386

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
127	-189	-158	-126	-95	-63	-32	0
140	-173	-138	-104	-69	-35	0	35
154	-153	-115	-76	-38	0	38	76
173	-128	-85	-43	0	43	85	128
196	-97	-48	0	48	97	145	194
226	-56	0	56	112	168	224	279
267	0	66	132	198	264	330	396

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
96	-95	-79	-63	-47	-32	-16	0
105	-87	-69	-52	-35	-17	0	17
117	-77	-58	-38	-19	0	19	38
131	-65	-43	-22	0	22	43	65
149	-49	-25	0	25	49	74	98
173	-29	0	29	57	86	114	143
207	0	34	68	102	136	171	205

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
119	-189	-157	-126	-94	-63	-31	0
130	-172	-138	-103	-69	-34	0	34
144	-152	-114	-76	-38	0	38	76
161	-128	-85	-43	0	43	85	128
182	-96	-48	0	48	96	145	193
210	-56	0	56	111	167	222	278
249	0	66	131	197	262	328	394

Landowner Receives 20% of the the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pay Drying Expenses on 20% of the Crop.

Estimating 2006 Costs of Production
Rice, Clearfield, Silt Loam Soils,
Eastern Arkansas

AG-927-11-05

Brad Watkins, Extension Economist

Jason Hill, 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	150.0000	45.00	_____
FERTILIZERS					
0-60-90	acre	38.64	1.0000	38.65	_____
Urea, Solid (46% N)	lb	0.17	300.0000	52.87	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	1.0000	25.60	_____
Fungicide-K.Smut	acre	10.23	0.5000	5.12	_____
HERBICIDES					
Command 3ME	pt	11.54	0.8000	9.23	_____
Newpath	oz	3.76	8.0000	30.11	_____
Aim EC	oz	5.20	1.5000	7.81	_____
2,4-D Amine	pt	2.10	0.2000	0.42	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice -Clearfield	lb	0.48	79.0000	38.62	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.75	1.0000	4.75	_____
Cstm Ap Grd. Herb	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Herb	acre	5.50	2.0000	11.00	_____
Cstm Ap Air Fert	lb	0.05	300.0000	15.00	_____
Cstm Ap Air Fung	acre	5.50	1.5000	8.25	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.9259	7.52	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.6336	5.15	_____
HAND LABOR					
Implements	hour	8.12	0.1442	1.17	_____
DIESEL FUEL					
Tractors	gal	2.20	7.4089	16.31	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	36.0002	79.20	_____
REPAIR & MAINTENANCE					
Implements	acre	5.27	1.0000	5.27	_____
Tractors	acre	3.14	1.0000	3.14	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	36.0000	3.34	_____
INTEREST ON OP. CAP.	acre	21.73	1.0000	21.73	_____
TOTAL DIRECT EXPENSES				484.23	_____
FIXED EXPENSES					
Implements	acre	13.92	1.0000	13.92	_____
Tractors	acre	23.50	1.0000	23.50	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				79.69	_____
TOTAL SPECIFIED EXPENSES				563.92	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating

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of race, color, national origin, religion, gender, age, disability, marital or veteran status, or any other legally protected status, and is an Equal Opportunity Employer.

Table 2. Estimated resource use and costs for field operations, per acre, Rice, Clearfield, Silt Loam Soils, Eastern Arkansas, 2006

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	4.15	4.32	1.11	2.84	0.14	1.14					13.56	
Land Plane	50'x16'	MFWD 190	0.121	2.00	Apr	6.09	6.51	0.31	1.00	0.24	1.97					15.88	
Cstm Ap Grd Fert 0-60-90	acre acre			1.00	Apr							1.0000	4.75	4.75		4.75	
Field Cultivate	32'	MFWD 225	0.046	1.00	Apr	1.38	1.44	0.27	1.38	0.04	0.38					4.85	
Grain Drill	20'	2WD 170	0.094	1.00	Apr	2.08	1.98	0.94	2.18	0.18	1.54					8.72	
Rice -Clearfield	lb											70.0000	0.48	34.22		34.22	
Roller	32'	2WD 150	0.046	1.00	Apr	0.91	0.86	0.09	0.62	0.04	0.38					2.86	
Cstm Ap Grd. Herb Command 3ME	acre pt			1.00	Apr							1.0000	4.75	4.75		4.75	
Ditcher	3'	MFWD 105	0.012	1.00	Apr	0.17	0.18	0.02	0.03	0.01	0.10					0.50	
Survey Levees - Rice	acre			1.00	Apr							1.0000	2.50	2.50		2.50	
Levee Disk	4 Blade	MFWD 190	0.025	2.00	Apr	1.26	1.34	0.03	0.20	0.05	0.41					3.24	
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40					1.87	
Rice -Clearfield	lb											9.0000	0.48	4.40		4.40	
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40					2.24	
Levee Gates	acre											1.0000	1.50	1.50		1.50	
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22					1.03	
Cstm Ap Air Herb Newpath	acre oz			1.00	Apr							1.0000	5.50	5.50		5.50	
Cstm Ap Air Herb Newpath	acre oz			1.00	May							4.0000	3.76	15.06		15.06	
Cstm Ap Air Herb Aim EC	acre oz			1.00	May							1.0000	5.50	5.50		5.50	
Cstm Ap Air Fert Urea, Solid (46% N)	lb lb			1.00	May							4.0000	3.76	15.06		15.06	
Cstm Ap Air Fert Foliar Fungicide	lb acre			1.00	May							1.5000	5.20	7.81		7.81	
Cstm Ap Air Fert Foliar Fungicide	lb acre			1.00	May							200.0000	0.05	10.00		10.00	
Cstm Ap Air Fert Foliar Fungicide	lb acre			1.00	Jul							200.0000	0.17	35.25		35.25	
Cstm Spray Levee,ATV 2,4-D Amine	acre pt			1.00	Jul							1.0000	5.50	5.50		5.50	
Cstm Spray Levee,ATV 2,4-D Amine	acre pt			1.00	Jul							1.0000	25.59	25.60		25.60	
Cstm Ap Air Fert Urea, Solid (46% N)	lb lb			1.00	Jul							1.0000	1.75	1.75		1.75	
Cstm Ap Air Fert Urea, Solid (46% N)	lb lb			1.00	Jul							0.2000	2.10	0.42		0.42	
Cstm Ap Air Fert Urea, Solid (46% N)	lb lb			1.00	Jul							100.0000	0.05	5.00		5.00	
Cstm Ap Air Fert Urea, Solid (46% N)	lb lb			1.00	Jul							100.0000	0.17	17.62		17.62	
Cstm Ap Air Fung Fungicide-K.Smut	acre acre			0.50	Aug							0.5000	5.50	2.75		2.75	
Cstm Ap Air Fung Fungicide-K.Smut	acre acre			0.50	Aug							0.5000	10.23	5.12		5.12	
Cstm Ap Air Insect Insecticide-StinkBug	acre acre			0.10	Aug							0.1000	5.50	0.55		0.55	
Cstm Ap Air Insect Insecticide-StinkBug	acre acre			0.10	Aug							0.1000	5.06	0.51		0.51	
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06					41.38	
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55					11.38	
Dry Rice	bu			1.00	Sep											45.00	
Cstm Haul Rice	bu											150.0000	0.30	45.00		45.00	
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20					1.14	
Flood Irr - Rice	well			1.00	May											19.35	
Flush	ac-in											0.0083				19.35	
Apply Water	ac-in											6.0000				14.62	
Apply Water	ac-in											30.0000				73.07	
TOTALS						32.29	46.42	87.81	33.27	1.95	15.90					326.50	542.19
INTEREST ON OPERATING CAPITAL																	21.73
UNALLOCATED LABOR																	0.00
TOTAL SPECIFIED COST																	563.92

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. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Clearfield, Silt Loam Soils, Eastern Arkansas, 2006

Farm Owner

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
109	-215	-179	-143	-107	-72	-36	0
119	-196	-157	-118	-78	-39	0	39
131	-173	-130	-86	-43	0	43	86
146	-145	-97	-48	0	48	97	145
165	-109	-55	0	55	109	164	218
190	-63	0	63	126	188	251	314
224	0	74	148	222	296	370	444

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
147	-218	-181	-145	-109	-73	-36	0
161	-199	-159	-119	-79	-40	0	40
178	-176	-132	-88	-44	0	44	88
198	-147	-98	-49	0	49	98	147
225	-111	-56	0	56	111	167	223
260	-64	0	64	129	193	257	321
307	0	76	152	228	304	380	456

Landowner Receives 25% of the 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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
112	-111	-92	-74	-55	-37	-18	0
123	-102	-81	-61	-41	-20	0	20
136	-90	-68	-45	-23	0	23	45
153	-76	-51	-25	0	25	51	76
174	-58	-29	0	29	58	86	115
203	-33	0	33	67	100	134	167
242	0	40	80	120	160	199	239

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
137	-217	-181	-145	-108	-72	-36	0
150	-198	-158	-119	-79	-40	0	40
166	-175	-131	-88	-44	0	44	88
185	-147	-98	-49	0	49	98	147
210	-111	-55	0	55	111	166	222
242	-64	0	64	128	192	256	319
286	0	75	151	226	302	377	453

Landowner Receives 20% of the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pay Drying Expenses on 20% of the Crop.

Estimating 2006 Costs of Production
Rice, Hybrid, Silt Loam Soils,
Eastern Arkansas

AG-928-11-05

Brad Watkins, Extension Economist

Jason Hill, 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	_____
FERTILIZERS					
0-60-90	acre	38.64	1.0000	38.65	_____
Urea, Solid (46% N)	lb	0.17	267.0000	47.05	_____
HERBICIDES					
Command 3ME	pt	11.54	0.8000	9.23	_____
Propanil 4E	pt	2.63	6.0000	15.81	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.03	0.2500	12.01	_____
2,4-D Amine	pt	2.10	0.2000	0.42	_____
INSECTICIDES					
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
IRRIGATION SUPPLIES					
Levee Gates	acre	1.50	1.0000	1.50	_____
CROP SEED					
Rice - Hybrid	lb	3.07	31.0000	95.17	_____
Rice Seed (Levees)	lb	0.15	9.0000	1.35	_____
Fungicide Seed Trt	lb seed	0.03	9.0000	0.35	_____
Release - Seed Trt	lb seed	0.03	9.0000	0.35	_____
CUSTOM HIRE					
Cstm Ap Grd Fert	acre	4.75	1.0000	4.75	_____
Cstm Ap Grd. Herb	acre	4.75	1.0000	4.75	_____
Survey Levees - Rice	acre	2.50	1.0000	2.50	_____
Cstm Ap Air Fert	lb	0.05	267.0000	13.35	_____
Cstm Ap Air Herb	acre	5.50	1.0000	5.50	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Insect	acre	5.50	0.1000	0.55	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.9259	7.52	_____
Harvesters	hour	8.12	0.2538	2.06	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.5280	4.29	_____
HAND LABOR					
Implements	hour	8.12	0.1442	1.17	_____
DIESEL FUEL					
Tractors	gal	2.20	7.4089	16.31	_____
Harvesters	gal	2.20	3.5919	7.90	_____
Flood Irr - Rice	gal	2.20	30.0001	66.00	_____
REPAIR & MAINTENANCE					
Implements	acre	5.27	1.0000	5.27	_____
Tractors	acre	3.14	1.0000	3.14	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.09	30.0000	2.78	_____
INTEREST ON OP. CAP.	acre	22.52	1.0000	22.52	_____

TOTAL DIRECT EXPENSES				487.31	_____
FIXED EXPENSES					
Implements	acre	13.92	1.0000	13.92	_____
Tractors	acre	23.50	1.0000	23.50	_____
Harvesters	acre	22.92	1.0000	22.92	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____

TOTAL FIXED EXPENSES				79.69	_____

TOTAL SPECIFIED EXPENSES				567.00	_____

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Table 2. Estimated resource use and costs for field operations, per acre, Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2006

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	4.15	4.32	1.11	2.84	0.14	1.14				13.56
Land Plane	50'x16'	MFWD 190	0.121	2.00	Apr	6.09	6.51	0.31	1.00	0.24	1.97				15.88
Cstm Ap Grd Fert 0-60-90	acre			1.00	Apr							1.0000	4.75	4.75	4.75
Field Cultivate	32'	MFWD 225	0.046	1.00	Apr	1.38	1.44	0.27	1.38	0.04	0.38				4.85
Grain Drill	20'	2WD 170	0.094	1.00	Apr	2.08	1.98	0.94	2.18	0.18	1.54				8.72
Rice - Hybrid	lb											31.0000	3.07	95.17	95.17
Roller	32'	2WD 150	0.046	1.00	Apr	0.91	0.86	0.09	0.62	0.04	0.38				2.86
Ditcher	3'	MFWD 105	0.012	1.00	Apr	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Cstm Ap Grd. Herb Command 3ME	acre pt			1.00	Apr							1.0000	4.75	4.75	4.75
Survey Levees - Rice	acre			1.00	Apr							0.8000	11.54	9.23	9.23
Levee Disk	4 Blade	MFWD 190	0.025	2.00	Apr	1.26	1.34	0.03	0.20	0.05	0.41	1.0000	2.50	2.50	2.50
Levee Seeder	4 Blade	MFWD 190	0.025	1.00	Apr	0.63	0.67	0.02	0.15	0.05	0.40				1.87
Rice Seed (Levees)	lb											9.0000	0.15	1.35	1.35
Fungicide Seed Trt	lb seed											9.0000	0.03	0.35	0.35
Release - Seed Trt	lb seed											9.0000	0.03	0.35	0.35
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.35	0.22	0.92	0.05	0.40				2.24
Levee Gates	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.38	0.39	0.02	0.02	0.02	0.22				1.03
Cstm Ap Air Fert	lb			1.00	May							167.0000	0.05	8.35	8.35
Urea, Solid (46% N)	lb											167.0000	0.17	29.43	29.43
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Propanil 4E	pt											6.0000	2.63	15.81	15.81
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.2500	48.03	12.01	12.01
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
2,4-D Amine	pt											0.2000	2.10	0.42	0.42
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.84	22.92	1.27	2.29	0.25	2.06				41.38
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.75	Sep	1.70	5.11	0.96	2.06	0.19	1.55				11.38
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
Levee Splitter	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.35	0.01	0.23	0.02	0.20				1.14
Flood Irr - Rice	well			1.00	May				19.35			0.0083			19.35
Apply Water	ac-in							68.78		0.52	4.29	30.0000			73.07
TOTALS						32.29	46.42	74.05	33.27	1.85	15.04			343.41	544.48
INTEREST ON OPERATING CAPITAL															22.52
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															567.00

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2006

Farm Owner

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
108	-214	-178	-143	-107	-71	-36	0
118	-195	-156	-117	-78	-39	0	39
131	-172	-129	-86	-43	0	43	86
146	-144	-96	-48	0	48	96	144
165	-109	-54	0	54	109	163	218
190	-63	0	63	125	188	250	313
223	0	74	147	221	295	368	442

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
146	-217	-181	-145	-108	-72	-36	0
160	-198	-158	-119	-79	-40	0	40
177	-175	-131	-88	-44	0	44	88
198	-147	-98	-49	0	49	98	147
224	-111	-55	0	55	111	166	222
259	-64	0	64	128	192	256	320
306	0	76	151	227	303	379	454

Landowner Receives 25% of the 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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
115	-114	-95	-76	-57	-38	-19	0
127	-105	-84	-63	-42	-21	0	21
140	-93	-70	-46	-23	0	23	46
158	-78	-52	-26	0	26	52	78
180	-59	-30	0	30	59	89	119
209	-34	0	34	69	103	138	172
249	0	41	82	123	164	205	246

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
	Returns above Variable Costs (\$/Acre)						
137	-216	-180	-144	-108	-72	-36	0
149	-197	-158	-118	-79	-39	0	39
165	-174	-131	-87	-44	0	44	87
185	-146	-97	-49	0	49	97	146
209	-110	-55	0	55	110	166	221
241	-64	0	64	127	191	255	318
285	0	75	150	226	301	376	451

Landowner Receives 20% of the the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pay Drying Expenses on 20% of the Crop.

Estimating 2006 Costs of Production
Rice, Zero Grade, No-Till, Water Seeded,
Eastern Arkansas

AG-929-11-05

Brad Watkins, Extension Economist

Jason Hill, 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	150.0000	45.00	_____
FERTILIZERS					
Urea, Solid (46% N)	lb	0.17	400.0000	70.49	_____
FUNGICIDES					
Foliar Fungicide	acre	25.59	0.3000	7.68	_____
HERBICIDES					
Command 3ME	pt	11.54	1.0000	11.54	_____
Londax 60DF	oz	15.20	1.0000	15.20	_____
Facet 75DF	lb	48.03	0.5000	24.02	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Aim EC	oz	5.20	1.0000	5.21	_____
INSECTICIDES					
Insecticide-W. Weevil	acre	6.58	2.0000	13.17	_____
Insecticide-StinkBug	acre	5.06	0.1000	0.51	_____
CROP SEED					
Rice Seed	lb	0.15	120.0000	18.00	_____
ADJUVANTS					
Crop Oil	pt	1.00	1.6000	1.60	_____
CUSTOM HIRE					
Cstm Ap Air Seed	lb	0.05	120.0000	6.00	_____
Cstm Ap Air Herb	acre	5.50	3.0000	16.50	_____
Cstm Ap Air Fert	lb	0.05	400.0000	20.00	_____
Cstm Ap Air Insect	acre	5.50	2.1000	11.55	_____
Cstm Ap Air Fung	acre	5.50	0.3000	1.65	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	8.12	0.2179	1.77	_____
Harvesters	hour	8.12	0.2200	1.79	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.12	0.4224	3.43	_____
DIESEL FUEL					
Tractors	gal	2.20	0.9845	2.16	_____
Harvesters	gal	2.20	3.1130	6.85	_____
Flood Irr - Rice	gal	2.20	24.0001	52.80	_____
REPAIR & MAINTENANCE					
Implements	acre	2.56	1.0000	2.56	_____
Tractors	acre	0.68	1.0000	0.68	_____
Harvesters	acre	4.28	1.0000	4.28	_____
Flood Irr - Rice	ac-in	0.09	24.0000	2.22	_____
INTEREST ON OP. CAP.	acre	17.28	1.0000	17.28	_____
TOTAL DIRECT EXPENSES				402.31	_____
FIXED EXPENSES					
Implements	acre	4.08	1.0000	4.08	_____
Tractors	acre	5.04	1.0000	5.04	_____
Harvesters	acre	19.87	1.0000	19.87	_____
Flood Irr - Rice	well	2322.34	0.0083	19.35	_____
TOTAL FIXED EXPENSES				48.34	_____
TOTAL SPECIFIED EXPENSES				450.65	_____

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University of Arkansas, United States Department of Agriculture and County Governments Cooperating

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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, 2006

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-----			
Planting				1.00	Apr										
Cstm Ap Air Seed	lb											120.0000	0.05	6.00	6.00
Rice Seed	lb											120.0000	0.15	18.00	18.00
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	5.50	5.50	5.50
Command 3ME	pt											1.0000	11.54	11.54	11.54
Londax 60DF	oz											1.0000	15.20	15.20	15.20
Crop Oil	pt											0.8000	1.00	0.80	0.80
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.50	5.50	5.50
Facet 75DF	lb											0.5000	48.03	24.02	24.02
Permit 75	oz											1.0000	15.85	15.86	15.86
Crop Oil	pt											0.8000	1.00	0.80	0.80
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.05	15.00	15.00
Urea, Solid (46% N)	lb											300.0000	0.17	52.87	52.87
Cstm Ap Air Insect	acre			1.00	May							1.0000	5.50	5.50	5.50
Insecticide-W.Weevil	acre											1.0000	6.58	6.59	6.59
Cstm Ap Air Insect	acre			1.00	Jun							1.0000	5.50	5.50	5.50
Insecticide-W.Weevil	acre											1.0000	6.58	6.59	6.59
Cstm Ap Air Herb	acre			1.00	Jul							1.0000	5.50	5.50	5.50
Aim EC	oz											1.0000	5.20	5.21	5.21
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.00	5.00
Urea, Solid (46% N)	lb											100.0000	0.17	17.62	17.62
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.50	1.65	1.65
Foliar Fungicide	acre											0.3000	25.59	7.68	7.68
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.50	0.55	0.55
Insecticide-StinkBug	acre											0.1000	5.06	0.51	0.51
Harvest				1.00	Sep										
Header - Rice	25' Rigid	275hp	0.220			11.13	19.87	1.10	1.99	0.22	1.79				35.88
Rice Grain Cart	700 Bu	MFWD 190	0.253	0.50	Sep	1.14	3.41	0.64	1.38	0.12	1.03				7.60
Dry Rice	bu			1.00	Sep							150.0000	0.30	45.00	45.00
Cstm Haul Rice	bu											150.0000	0.15	22.50	22.50
Rotary Cutter	15'	2WD 150	0.078	1.00	Sep	1.53	1.45	0.80	0.68	0.07	0.64				5.10
Ditcher	3'	MFWD 105	0.012	1.00	Sep	0.17	0.18	0.02	0.03	0.01	0.10				0.50
Flood Irr - Rice	well			1.00	May				19.35			0.0083			19.35
Apply Water	ac-in							55.02		0.42	3.43	24.0000			58.45
TOTALS						13.97	24.91	57.58	23.43	0.86	6.99			306.49	433.37
INTEREST ON OPERATING CAPITAL															17.28
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															450.65

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Table 3. Breakeven Yields (BEY) Required to Cover Direct Expenses and Net Returns above Direct Expenses for Price/Yield Combinations and Select Land Tenure Arrangements, per acre.

Rice, Zero Grade, No-Till, Water Seeded, Arkansas, 2006

Farm Owner

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
87	-173	-144	-115	-86	-58	-29	0
95	-157	-126	-94	-63	-31	0	31
105	-139	-104	-69	-35	0	35	69
117	-116	-78	-39	0	39	78	116
133	-88	-44	0	44	88	132	175
153	-50	0	50	101	151	202	252
180	0	59	119	178	238	297	356

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
118	-175	-146	-117	-87	-58	-29	0
129	-160	-128	-96	-64	-32	0	32
143	-141	-106	-71	-35	0	35	71
159	-118	-79	-39	0	39	79	118
181	-89	-45	0	45	89	134	179
209	-52	0	52	103	155	207	258
247	0	61	122	183	244	305	366

Landowner Receives 25% of the the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pays Drying Expenses on 25% of the Crop.

BEY (bu/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
87	-86	-72	-57	-43	-29	-14	0
95	-79	-63	-47	-31	-16	0	16
106	-70	-52	-35	-17	0	17	35
119	-59	-39	-20	0	20	39	59
135	-45	-22	0	22	45	67	89
157	-26	0	26	52	78	104	130
187	0	31	62	93	124	155	186

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/ac)	Crop Price (\$/bu)						
	2.31	2.64	2.97	3.30	3.63	3.96	4.29
Returns above Variable Costs (\$/Acre)							
110	-174	-145	-116	-87	-58	-29	0
121	-159	-127	-95	-64	-32	0	32
133	-141	-105	-70	-35	0	35	70
149	-118	-79	-39	0	39	79	118
169	-89	-45	0	45	89	134	178
194	-51	0	51	103	154	205	257
230	0	61	121	182	242	303	364

Landowner Receives 20% of the the Crop.

Tenant pays 100% of Hauling Crop to Grain Elevator

Landowner Pay Drying Expenses on 20% of the Crop.