

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

AG-1082-11-07

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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					
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.