

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

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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			30.0000	78.45
-----						20.22	31.12	78.74	34.16	1.11	9.82	-----			
TOTALS															517.32
INTEREST ON OPERATING CAPITAL															22.60
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															539.92

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. 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.