

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

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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	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

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

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

**Rice, Silt Loam Soils, Stale Seedbed, Eastern Arkansas, 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.