

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

AG-1085-11-07

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
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	_____
<b>TOTAL DIRECT EXPENSES</b>				<b>425.29</b>	_____
<b>FIXED EXPENSES</b>					
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	_____
<b>TOTAL FIXED EXPENSES</b>				<b>53.72</b>	_____
<b>TOTAL SPECIFIED EXPENSES</b>				<b>479.01</b>	_____

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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.