

**Estimating 2007 Costs of Production**  
**Rice, Zero Grade, No-Till, Water Seeded,**  
**Eastern Arkansas**

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ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
GIN/DRY					
Dry Rice	bu	0.30	150.0000	45.00	_____
Rice Checkoff	bu	0.01	150.0000	2.03	_____
FERTILIZERS					
Urea, Solid (46% N)	lb	0.13	400.0000	52.00	_____
FUNGICIDES					
Foliar Fungicide	acre	23.54	0.3000	7.06	_____
HERBICIDES					
Command 3ME	pt	11.54	1.0000	11.54	_____
Londax 60DF	oz	10.92	1.0000	10.92	_____
Facet 75DF	lb	48.37	0.5000	24.19	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Aim EC	oz	5.42	1.0000	5.42	_____
INSECTICIDES					
Insecticide-W. Weevil	acre	5.24	2.0000	10.48	_____
Insecticide-StinkBug	acre	4.89	0.1000	0.49	_____
CROP SEED					
Rice Seed	lb	0.17	100.0000	17.78	_____
ADJUVANTS					
Crop Oil	pt	1.12	1.6000	1.80	_____
CUSTOM HIRE					
Cstm Ap Air Seed	lb	0.05	100.0000	5.60	_____
Cstm Ap Air Herb	acre	5.60	3.0000	16.80	_____
Cstm Ap Air Fert	lb	0.05	400.0000	22.40	_____
Cstm Ap Air Insect	acre	5.60	2.1000	11.76	_____
Cstm Ap Air Fung	acre	5.60	0.3000	1.68	_____
Cstm Haul Rice	bu	0.15	150.0000	22.50	_____
OPERATOR LABOR					
Tractors	hour	9.00	0.2635	2.38	_____
Harvesters	hour	9.00	0.2200	1.98	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	7.80	0.3620	2.82	_____
DIESEL FUEL					
Tractors	gal	2.22	1.9249	4.28	_____
Harvesters	gal	2.22	3.1130	6.91	_____
Flood Irr - Rice	gal	2.22	24.0001	53.28	_____
REPAIR & MAINTENANCE					
Implements	acre	3.01	1.0000	3.01	_____
Tractors	acre	0.86	1.0000	0.86	_____
Harvesters	acre	4.29	1.0000	4.29	_____
Flood Irr - Rice	ac-in	0.11	24.0000	2.80	_____
INTEREST ON OP. CAP.	acre	17.38	1.0000	17.38	_____
<b>TOTAL DIRECT EXPENSES</b>				<b>385.30</b>	_____
<b>FIXED EXPENSES</b>					
Implements	acre	5.11	1.0000	5.11	_____
Tractors	acre	6.64	1.0000	6.64	_____
Harvesters	acre	20.52	1.0000	20.52	_____
Flood Irr - Rice	well	3038.56	0.0083	25.32	_____
<b>TOTAL FIXED EXPENSES</b>				<b>57.59</b>	_____
<b>TOTAL SPECIFIED EXPENSES</b>				<b>442.89</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, 2007**

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	5.60	5.60					
Rice Seed	lb											100.0000	0.17	17.78	17.78					
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	5.60	5.60	5.60					
Command 3ME	pt											1.0000	11.54	11.54	11.54					
Londax 60DF	oz											1.0000	10.92	10.92	10.92					
Crop Oil	pt											0.8000	1.12	0.90	0.90					
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.60	5.60	5.60					
Facet 75DF	lb											0.5000	48.37	24.19	24.19					
Permit 75	oz											1.0000	15.85	15.86	15.86					
Crop Oil	pt											0.8000	1.12	0.90	0.90					
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.05	16.80	16.80					
Urea, Solid (46% N)	lb											300.0000	0.13	39.00	39.00					
Cstm Ap Air Insect	acre			1.00	May							1.0000	5.60	5.60	5.60					
Insecticide-W.Weevil	acre											1.0000	5.24	5.24	5.24					
Cstm Ap Air Insect	acre			1.00	Jun							1.0000	5.60	5.60	5.60					
Insecticide-W.Weevil	acre											1.0000	5.24	5.24	5.24					
Cstm Ap Air Herb	acre			1.00	Jul							1.0000	5.60	5.60	5.60					
Aim EC	oz											1.0000	5.42	5.42	5.42					
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.05	5.60	5.60					
Urea, Solid (46% N)	lb											100.0000	0.13	13.00	13.00					
Cstm Ap Air Fung	acre			0.30	Aug							0.3000	5.60	1.68	1.68					
Foliar Fungicide	acre											0.3000	23.54	7.06	7.06					
Cstm Ap Air Insect	acre			0.10	Aug							0.1000	5.60	0.56	0.56					
Insecticide-StinkBug	acre											0.1000	4.89	0.49	0.49					
Harvest				1.00	Sep															
Header - Rice	25' Rigid	275hp	0.220			11.20	20.52	1.24	2.32	0.22	1.98				37.26					
Rice Cart (25')	700 Bu	MFWD 190	0.220	0.75	Sep	3.31	4.81	0.88	1.97	0.16	1.49				12.46					
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					
Rice Checkoff	bu											150.0000	0.01	2.03	2.03					
Rotary Cutter-Flex	15'	2WD 150	0.078	1.00	Sep	1.55	1.53	0.86	0.76	0.07	0.71				5.41					
Ditcher		MFWD 105	0.020	1.00	Sep	0.28	0.30	0.03	0.06	0.02	0.18				0.85					
Flood Irr - Rice	each			1.00	May				25.32					0.0083	25.32					
Apply Water	ac-in							56.08		0.36	2.82			24.0000	58.90					
TOTALS						16.34	27.16	59.09	30.43	0.84	7.18			285.31	425.51					
INTEREST ON OPERATING CAPITAL															17.38					
UNALLOCATED LABOR															0.00					
TOTAL SPECIFIED COST															442.89					

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, Eastern Arkansas, 2007**

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	2.97	3.30	3.63	3.96	4.29	4.62	4.95
	Net Returns above Variable Costs (\$/acre)						
71	-140	-116	-93	-70	-47	-23	0
76	-126	-101	-75	-50	-25	0	25
83	-109	-82	-55	-27	0	27	55
90	-90	-60	-30	0	30	60	90
100	-66	-33	0	33	66	99	132
111	-37	0	37	74	110	147	184
126	0	42	83	125	166	208	249

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	2.97	3.30	3.63	3.96	4.29	4.62	4.95
	Net Returns above Variable Costs (\$/acre)						
95	-141	-118	-94	-71	-47	-24	0
103	-127	-102	-76	-51	-25	0	25
112	-111	-83	-55	-28	0	28	55
122	-91	-61	-30	0	30	61	91
135	-67	-33	0	33	67	100	134
151	-37	0	37	75	112	150	187
171	0	42	85	127	170	212	255

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)						
	2.97	3.30	3.63	3.96	4.29	4.62	4.95
	Net Returns above Variable Costs (\$/acre)						
72	-71	-59	-47	-36	-24	-12	0
78	-64	-51	-38	-26	-13	0	13
85	-56	-42	-28	-14	0	14	28
93	-46	-31	-15	0	15	31	46
103	-34	-17	0	17	34	51	68
116	-19	0	19	38	57	76	96
132	0	22	44	65	87	109	131

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)						
	2.97	3.30	3.63	3.96	4.29	4.62	4.95
	Net Returns above Variable Costs (\$/acre)						
89	-141	-117	-94	-70	-47	-23	0
96	-127	-101	-76	-51	-25	0	25
104	-110	-83	-55	-28	0	28	55
114	-91	-60	-30	0	30	60	91
126	-67	-33	0	33	67	100	133
141	-37	0	37	75	112	149	186
160	0	42	84	127	169	211	253

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.