



UNIVERSITY OF ARKANSAS
 DIVISION OF AGRICULTURE
 Cooperative Extension Service

**Estimating 2009 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	
DIRECT EXPENSES					
FERTILIZERS					
Urea, Solid (46% N)	lb.	0.30	400.0000	120.00	_____
FUNGICIDES					
Foliar Fungicide	acre	26.94	0.3000	8.08	_____
HERBICIDES					
Command 3ME	pt	12.93	1.0000	12.93	_____
Londax 60DF	oz	12.70	1.0000	12.70	_____
Facet 75DF	lb	52.09	0.5000	26.05	_____
Permit 75 DF	oz	18.07	1.0000	18.07	_____
Aim 2EC	oz	6.53	1.0000	6.53	_____
INSECTICIDES					
Insecticide-W.Weevil	acre	6.18	1.0000	6.18	_____
Insecticide-StinkBug	acre	4.83	0.1000	0.48	_____
CROP SEED					
Rice Conv.	lbseed	0.27	100.0000	27.00	_____
ADJUVANTS					
Crop Oil	pt	1.80	3.0000	5.40	_____
CUSTOM HIRE					
Cstm Ap Air Seed	lbseed	0.07	100.0000	7.50	_____
Cstm Ap Air Herb	acre	7.50	3.0000	22.50	_____
Cstm Ap Air Fert	lb	0.07	400.0000	30.00	_____
Cstm Ap Air Insect	acre	7.50	1.1000	8.25	_____
Cstm Ap Air Fung	acre	7.50	0.3000	2.25	_____
Haul Rice	bu	0.22	160.0000	35.20	_____
GIN/DRY					
Dry Rice	bu	0.35	160.0000	56.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
OPERATOR LABOR					
Tractors	hour	9.92	0.1620	1.61	_____
Harvesters	hour	9.92	0.2200	2.18	_____
IRRIGATION LABOR					
Flood Irr - Rice	hour	8.60	0.3620	3.11	_____
DIESEL FUEL					
Tractors	gal	2.60	1.3611	3.54	_____
Harvesters	gal	2.60	3.6806	9.57	_____
Flood Irr - Rice	gal	2.60	24.0001	62.40	_____
REPAIR & MAINTENANCE					
Implements	acre	2.99	1.0000	2.99	_____
Tractors	acre	0.53	1.0000	0.53	_____
Harvesters	acre	5.23	1.0000	5.23	_____
Flood Irr - Rice	ac-in	0.17	24.0000	4.14	_____
INTEREST ON OP. CAP.	acre	14.49	1.0000	14.49	_____

TOTAL DIRECT EXPENSES				517.07	_____
FIXED EXPENSES					
Implements	acre	4.53	1.0000	4.53	_____
Tractors	acre	3.83	1.0000	3.83	_____
Harvesters	acre	23.76	1.0000	23.76	_____
Flood Irr - Rice	each	3058.64	0.0083	25.39	_____

TOTAL FIXED EXPENSES				57.51	_____

TOTAL SPECIFIED EXPENSES				574.58	=====

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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, 2009

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		-----dollars-----			
Cstm Ap Air Seed	lbseed			1.00	Apr							100.0000	0.07	7.50	7.50
Rice Conv.	lbseed											100.0000	0.27	27.00	27.00
Cstm Ap Air Herb	acre			1.00	Apr							1.0000	7.50	7.50	7.50
Command 3ME	pt											1.0000	12.93	12.93	12.93
Londax 60DF	oz											1.0000	12.70	12.70	12.70
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Herb	acre			1.00	May							1.0000	7.50	7.50	7.50
Facet 75DF	lb											0.5000	52.09	26.05	26.05
Permit 75 DF	oz											1.0000	18.07	18.07	18.07
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Fert	lb			1.00	May							300.0000	0.07	22.50	22.50
Urea, Solid (46% N)	lb.											300.0000	0.30	90.00	90.00
Cstm Ap Air Insect	acre			1.00	May							1.0000	7.50	7.50	7.50
Insecticide-W.Weevil	acre											1.0000	6.18	6.18	6.18
Cstm Ap Air Herb	acre			1.00	Jul							1.0000	7.50	7.50	7.50
Aim 2EC	oz											1.0000	6.53	6.53	6.53
Crop Oil	pt											1.0000	1.80	1.80	1.80
Cstm Ap Air Fert	lb			1.00	Jul							100.0000	0.07	7.50	7.50
Urea, Solid (46% N)	lb.											100.0000	0.30	30.00	30.00
Cstm Ap Air Fung	acre			1.00	Aug							0.3000	7.50	2.25	2.25
Foliar Fungicide	acre											0.3000	26.94	8.08	8.08
Cstm Ap Air Insect	acre			1.00	Aug							0.1000	7.50	0.75	0.75
Insecticide-StinkBug	acre											0.1000	4.83	0.48	0.48
Header - Rice	25' Rigid	325hp	0.220	1.00	Sep	14.80	23.76	1.62	2.86	0.22	2.18				45.22
Rice Grain Cart	700 Bu	MFWD 190	0.063	1.00	Sep	1.84	1.72	0.40	0.84	0.06	0.63				5.43
Dry Rice	bu			1.00	Sep							160.0000	0.35	56.00	56.00
Haul Rice	bu											160.0000	0.22	35.20	35.20
Rice Checkoff	bu											160.0000	0.01	2.16	2.16
Rotary Cutter-Flex	15'	MFWD 150	0.078	1.00	Sep	1.83	1.77	0.93	0.77	0.07	0.78				6.08
Ditcher		2WD 130	0.020	1.00	Sep	0.40	0.34	0.04	0.06	0.02	0.20				1.04
Flood Irr - Rice	each			1.00	May							0.0083			25.39
Apply Water	ac-in							66.54		0.36	3.11	24.0000			69.65
TOTALS						18.87	27.59	69.53	29.92	0.74	6.90			407.28	560.09
INTEREST ON OPERATING CAPITAL															14.49
TOTAL SPECIFIED COST															574.58

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, 2009

Farm Owner							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
62	-111	-92	-74	-55	-37	-18	0
65	-96	-77	-58	-39	-19	0	19
68	-81	-61	-40	-20	0	20	40
71	-64	-42	-21	0	21	42	64
75	-45	-22	0	22	45	67	89
79	-24	0	24	47	71	94	118
84	0	25	50	75	100	125	150

Farm Owner is assumed to have 100% Equity in Land

Tenant 75-25 Crop-Share							
BEY (bu/acre)	Crop Price (\$/bu)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
84	-112	-93	-75	-56	-37	-19	0
87	-98	-78	-59	-39	-20	0	20
92	-82	-61	-41	-20	0	20	41
96	-64	-43	-21	0	21	43	64
101	-45	-23	0	23	45	68	90
107	-24	0	24	48	72	95	119
113	0	25	51	76	101	126	152

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)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
62	-55	-46	-37	-28	-18	-9	0
65	-48	-38	-29	-19	-10	0	10
68	-40	-30	-20	-10	0	10	20
71	-32	-21	-11	0	11	21	32
75	-22	-11	0	11	22	34	45
79	-12	0	12	24	35	47	59
84	0	13	25	38	50	63	75

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)						
	5.65	5.95	6.25	6.55	6.84	7.14	7.44
Net Returns above Variable Costs (\$/acre)							
78	-112	-93	-74	-56	-37	-19	0
82	-97	-78	-58	-39	-19	0	19
86	-82	-61	-41	-20	0	20	41
90	-64	-43	-21	0	21	43	64
95	-45	-23	0	23	45	68	90
100	-24	0	24	48	71	95	119
106	0	25	50	76	101	126	151

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.