



## Estimating 2007 Costs of Production Rice, Hybrid, Silt Loam Soils, 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	160.0000	48.00	_____
Rice Checkoff	bu	0.01	160.0000	2.16	_____
<b>FERTILIZERS</b>					
0-60-90	acre	34.21	1.0000	34.21	_____
Urea, Solid (46% N)	lb	0.13	267.0000	34.71	_____
<b>HERBICIDES</b>					
Command 3ME	pt	11.54	0.8000	9.23	_____
Propanil 4E	pt	2.57	6.0000	15.45	_____
Permit 75	oz	15.85	1.0000	15.86	_____
Facet 75DF	lb	48.37	0.2500	12.09	_____
2,4-D Amine	pt	1.77	0.2000	0.35	_____
<b>INSECTICIDES</b>					
Insecticide-StinkBug	acre	4.89	0.1000	0.49	_____
<b>IRRIGATION SUPPLIES</b>					
Levee Gates-Contour	acre	1.50	1.0000	1.50	_____
<b>CROP SEED</b>					
Rice - Hybrid	lb	2.47	30.0000	74.10	_____
Rice - Hybrid Levee	lb	1.11	3.8000	4.25	_____
<b>CUSTOM HIRE</b>					
Cstm Ap Grd Fert	acre	5.00	1.0000	5.00	_____
Cstm Ap Grd. Herb	acre	5.00	1.0000	5.00	_____
Survey Levee-Contour	acre	4.00	1.0000	4.00	_____
Cstm Ap Air Fert	lb	0.05	267.0000	14.95	_____
Cstm Ap Air Herb	acre	5.60	1.0000	5.60	_____
Cstm Spray Levee,ATV	acre	1.75	1.0000	1.75	_____
Cstm Ap Air Insect	acre	5.60	0.1000	0.56	_____
Cstm Haul Rice	bu	0.15	160.0000	24.00	_____
<b>OPERATOR LABOR</b>					
Tractors	hour	9.00	0.8315	7.50	_____
Harvesters	hour	9.00	0.2538	2.28	_____
<b>IRRIGATION LABOR</b>					
Flood Irr - Rice	hour	7.80	0.4525	3.53	_____
<b>HAND LABOR</b>					
Implements	hour	7.80	0.1692	1.33	_____
<b>DIESEL FUEL</b>					
Tractors	gal	2.22	7.3946	16.42	_____
Harvesters	gal	2.22	3.5919	7.97	_____
Flood Irr - Rice	gal	2.22	30.0001	66.60	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	5.69	1.0000	5.69	_____
Tractors	acre	2.87	1.0000	2.87	_____
Harvesters	acre	4.94	1.0000	4.94	_____
Flood Irr - Rice	ac-in	0.11	30.0000	3.50	_____
INTEREST ON OP. CAP.	acre	22.08	1.0000	22.08	_____
<b>TOTAL DIRECT EXPENSES</b>				457.97	_____
<b>FIXED EXPENSES</b>					
Implements	acre	15.57	1.0000	15.57	_____
Tractors	acre	22.15	1.0000	22.15	_____
Harvesters	acre	23.68	1.0000	23.68	_____
Flood Irr - Rice	well	3038.56	0.0083	25.32	_____
<b>TOTAL FIXED EXPENSES</b>				86.72	_____
<b>TOTAL SPECIFIED EXPENSES</b>				544.69	_____

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**Table 2. Estimated resource use and costs for field operations, per acre, Rice, Hybrid, Silt Loam Soils, Eastern Arkansas, 2007**

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-----			
Disk Harrow	28'	MFWD 225	0.070	2.00	Apr	4.17	4.34	1.15	3.03	0.14	1.26				13.95
Land Float	18'x50'	MFWD 190	0.071	2.00	Apr	3.65	4.18	0.24	0.79	0.14	1.29				10.15
Cstm Ap Grd Fert 0-60-90	acre			1.00	Apr							1.0000	5.00	5.00	5.00
Field Cultivate	32'	MFWD 225	0.046	1.00	Apr	1.39	1.44	0.31	1.64	0.04	0.42				5.20
Grain Drill	20'	2WD 170	0.094	1.00	Apr	2.10	2.10	1.12	2.69	0.18	1.59				9.60
Rice - Hybrid	lb											30.0000	2.47	74.10	74.10
Roller	32' -12R30	2WD 150	0.046	1.00	Apr	0.92	0.91	0.12	0.84	0.04	0.42				3.21
Ditcher		MFWD 105	0.020	1.00	Apr	0.28	0.30	0.03	0.06	0.02	0.18				0.85
Cstm Ap Grd. Herb Command 3ME	acre pt			1.00	Apr							1.0000	5.00	5.00	5.00
Survey Levee-Contour	acre			1.00	Apr							0.8000	11.54	9.23	9.23
Levee Disk	8 blade	MFWD 190	0.025	2.00	Apr	1.28	1.46	0.05	0.34	0.05	0.45				3.58
Levee Seeder	8 blade	MFWD 190	0.025	1.00	Apr	0.63	0.73	0.07	0.47	0.05	0.43				2.33
Rice - Hybrid Levee	lb											3.8000	1.11	4.25	4.25
Gate Installer		MFWD 105	0.025	1.00	Apr	0.35	0.38	0.11	0.48	0.07	0.62				1.94
Levee Gates-Contour	acre											1.0000	1.50	1.50	1.50
Blade-Scraper	8'-10'	MFWD 105	0.025	1.00	Apr	0.35	0.38	0.03	0.03	0.02	0.23				1.02
Cstm Ap Air Fert	lb			1.00	May							167.0000	0.05	9.35	9.35
Urea, Solid (46% N)	lb											167.0000	0.13	21.71	21.71
Cstm Ap Air Herb	acre			1.00	May							1.0000	5.60	5.60	5.60
Propanil 4E	pt											6.0000	2.57	15.45	15.45
Permit 75	oz											1.0000	15.85	15.86	15.86
Facet 75DF	lb											0.2500	48.37	12.09	12.09
Cstm Spray Levee,ATV	acre			1.00	Jul							1.0000	1.75	1.75	1.75
2,4-D Amine	pt											0.2000	1.77	0.35	0.35
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 Insect	acre			0.10	Aug							0.1000	5.60	0.56	0.56
Insecticide-StinkBug	acre											0.1000	4.89	0.49	0.49
Header - Rice	25' Rigid	275hp	0.253	1.00	Sep	12.91	23.68	1.43	2.68	0.25	2.28				42.98
Rice Cart (25')	700 Bu	MFWD 190	0.253	0.75	Sep	3.82	5.55	1.02	2.28	0.19	1.71				14.38
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	2 blade	MFWD 105	0.025	1.00	Oct	0.35	0.38	0.01	0.24	0.02	0.23				1.21
Flood Irr - Rice	each			1.00	May				25.32			0.0083			25.32
Apply Water	ac-in							70.10		0.45	3.53	30.0000			73.63
TOTALS						32.20	45.83	75.79	40.89	1.70	14.64			313.26	522.61
INTEREST ON OPERATING CAPITAL															22.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															544.69

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, Hybrid, Silt Loam Soils, 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)						
86	-170	-142	-113	-85	-57	-28	0
93	-153	-122	-92	-61	-31	0	31
101	-133	-100	-66	-33	0	33	66
110	-109	-73	-36	0	36	73	109
121	-80	-40	0	40	80	120	160
135	-45	0	45	89	134	179	223
153	0	51	101	152	202	253	303

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)						
116	-172	-143	-114	-86	-57	-29	0
125	-155	-124	-93	-62	-31	0	31
136	-134	-101	-67	-34	0	34	67
149	-110	-74	-37	0	37	74	110
164	-81	-41	0	41	81	122	163
184	-45	0	45	91	136	182	227
208	0	52	103	155	206	258	309

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)						
92	-91	-76	-60	-45	-30	-15	0
99	-82	-65	-49	-33	-16	0	16
108	-71	-53	-36	-18	0	18	36
119	-59	-39	-20	0	20	39	59
131	-43	-22	0	22	43	65	87
147	-24	0	24	49	73	97	122
168	0	28	55	83	111	139	166

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)						
108	-171	-143	-114	-86	-57	-29	0
117	-154	-123	-92	-62	-31	0	31
127	-134	-100	-67	-33	0	33	67
139	-110	-73	-37	0	37	73	110
154	-81	-41	0	41	81	122	162
172	-45	0	45	91	136	181	226
194	0	51	103	154	205	257	308

Landowner Receives 20% of the Crop

Tenant Pays 100% of Hauling Crop to Grain Elevator.

Landowner Pays Drying Expenses on 20% of the Crop.