

**RICE  
2011  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2010-13**

**December 2010**



## Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2011 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

## Acknowledgments

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Special appreciation is expressed to producers who provided information on crop practices used. Appreciation also is expressed to farm supply dealers, equipment dealers, custom operators, and chemical companies who provided prices for crop production inputs. The Mississippi Agricultural Statistics Service is commended for its excellence in collecting price and production practice data.

Acknowledgment is made to the Mississippi State University Extension Service, the Mississippi Agricultural and Forestry Experiment Station, and the United States Agricultural Research Service staffs for the excellent cooperation that made this report possible.

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# 2011 Planning Budgets

## Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for a major crop produced by Mississippi farmers. A multidisciplinary approach involving researchers and extension personnel was used to determine production practices and input quantities, and to estimate costs and returns for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs and returns for each budget included in this publication.

Enterprise budgets represent a type of information that can be used by a wide variety of individuals in making decisions in the food and fiber industry. They are used:

- by farmers for planning,
- by extension personnel in providing educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform non-farmers of the costs incurred by farmers in the production of food and fiber crops.

A budget should be prepared with a specific objective in mind. The budgets in this report were prepared to provide general information for several different uses. They provide information concerning general levels of costs and returns which will need to be adjusted for specific situations. Most users should think of these budgets as a first approximation and then make appropriate adjustments using the "Your Farm" column provided on each budget to add, delete, or change costs or incomes to reflect their specific situations.

## Methods and Procedures

### Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

Committees made up of appropriate disciplines from the Mississippi Agricultural and Forestry Experiment Station, the Mississippi State University Extension Service, and the U.S. Department of Agriculture review and update the practices in the budgets every year. The updates are based on the collective judgment of the committee members. Quantities of materials and individual production practices budgeted are based on survey data from producers and/or generally accepted recommendations by committee members.

### Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2010. (Appendix Tables 1, 2, and 3).

A performance rate reflects the time required to perform a given task or operation and is expressed as that part of an hour per acre. Previous studies and expert knowledge of the equipment committee members are used to estimate performance rates for new and larger equipment (1, 4, 5, 6, 7, 9, and 13).

The hours of annual use have been modified based on information collected from the cited studies (3, 4, 6, and 7).

Repairs and maintenance as a percentage of new cost are estimated for the life of the equipment and include oil and lubricants (1, 4, and 6).

### Estimates of Direct Costs

Direct costs include estimated costs of repairs and maintenance (R&M) for all machinery and include fuel costs for powered machinery (Appendix Tables 1, 2, and 3). Direct costs are estimated on an hourly basis and are then converted to a per-acre basis using the performance rate for the particular operation. R&M costs for towed equipment and powered equipment are estimated as follows:

$$RPH = \frac{RLC \times RP}{THL}$$

$$RPA = RPH \times PR$$

where:

RPH = R&M cost per hour of use  
 RLC = Replacement cost of machine  
 RP = R&M percentage (percent of RLC)  
 THL = Total hours of machine life  
 RPA = R&M cost per acre  
 PR = Performance rate

Direct costs include an estimate of fuel cost based on average fuel consumption per hour of use for the power unit. Other components of direct costs include quantities of materials used in production multiplied by the price per unit of these inputs, custom rates, hourly wage rates, and interest charges on operating capital (Appendix Tables 4, 5, and 6).

The labor wage rate per hour includes social security, accident and unemployment insurance, and some prerequisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to

perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

Interest on operating capital is determined by using a short-term interest rate obtained from agricultural lenders and making a charge against capital outflows as the production process takes place. Interest is accumulated until the crop is harvested.

### Estimates of Fixed Costs

Annual fixed cost estimates for machinery are based on a budgeting technique which computes the annual capital recovery charge (2, p. 143). When a combination of machines or equipment is required to perform a single operation, the total cost per acre for all equipment used in the operation is estimated. The fixed cost of machinery ownership is calculated by first computing the capital recovery factor and then using it to estimate the annual capital recovery charge.

$$CRF = \frac{IIR}{1 - (1 + IIR)^{-TYL}}$$

where:

CRF = Capital recovery factor  
 IIR = Intermediate-term interest rate  
 TYL = Total years of life

$$CRCPY = [(RLC - SV) \times CRF] + (SV \times IIR)$$

where:

CRCPY = Capital recovery charge per year  
 RLC = Replacement cost  
 SV = Salvage value (at end of useful life)



This value is then converted to its per-hour and per-acre equivalent values:

$$\text{CRCPH} = \frac{\text{CRCPY}}{\text{HAU}}$$

$$\text{CRCPA} = \text{CRCPH} \times \text{PR}$$

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

### Estimates of Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own operations.

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2010 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

The futures price for an appropriate contract month is determined by averaging the closing prices for the month of October. The basis is determined by subtracting the average daily cash price for the month of October from the average daily closing price of the near contract month. These average futures prices and the basis adjustments are presented in Appendix Table 7.

A special table is presented to illustrate the effects of alternative levels of yields and prices on net returns. The budgeted yield and the budgeted price are used as base values (100 percent). Yields are then varied from 50 to 150 percent of the base yield while prices are varied from 75 to 125 percent of the base price. Net returns are computed for each combination of yield and price.

### Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, 10, and 11.

### Net Returns

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these budgets, "RETURNS ABOVE DIRECT EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some items are intentionally left out of these calculations, i.e., costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments. These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. These items should, however, be considered by each producer and factored into the final budget each producer develops for his own situation.



## Enterprise Budgets

Table 1.A Estimated costs per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.2500	17.88	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	0.7500	13.33	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	2.98	8.0000	23.84	_____
Facet 75DF	lb	49.92	0.4000	19.97	_____
Permit 75 DF	oz	19.00	0.5000	9.50	_____
Clincher SF	oz	1.98	7.0000	13.86	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.36	90.0000	32.40	_____
Rice Seed (Levees)	lb	0.36	15.0000	5.40	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	148.0000	39.96	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5291	6.00	_____
Harvesters	hour	11.35	0.2030	2.30	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR					
	hour	11.35	0.5467	6.21	_____
DIESEL FUEL					
Tractors	gal	2.39	4.9580	11.86	_____
Harvesters	gal	2.39	3.3975	8.12	_____
Flood Irr.	gal	2.39	26.8827	64.24	_____
REPAIR & MAINTENANCE					
Implements	acre	5.89	1.0000	5.89	_____
Tractors	acre	2.03	1.0000	2.03	_____
Harvesters	acre	5.31	1.0000	5.31	_____
Flood Irr.	acre	10.34	1.0000	10.34	_____
INTEREST ON OP. CAP.	acre	8.38	1.0000	8.38	_____
TOTAL DIRECT EXPENSES				568.10	_____
FIXED EXPENSES					
Implements	acre	12.56	1.0000	12.56	_____
Tractors	acre	13.26	1.0000	13.26	_____
Harvesters	acre	21.58	1.0000	21.58	_____
Flood Irr.	acre	34.96	1.0000	34.96	_____
TOTAL FIXED EXPENSES				82.36	_____
TOTAL SPECIFIED EXPENSES				650.46	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.B Summary of estimated costs and returns per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	148.0000	840.64	_____
				-----	
TOTAL INCOME				840.64	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.88	1.0000	19.88	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	13.33	1.0000	13.33	_____
HERBICIDES	acre	87.87	1.0000	87.87	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	37.80	1.0000	37.80	_____
ADJUVANTS	acre	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	39.96	1.0000	39.96	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	11.35	0.7322	8.30	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	11.35	0.5467	6.21	_____
DIESEL FUEL	gal	2.39	35.2383	84.22	_____
REPAIR & MAINTENANCE	acre	23.57	1.0000	23.57	_____
INTEREST ON OP. CAP.	acre	8.38	1.0000	8.38	_____
				-----	
TOTAL DIRECT EXPENSES				568.10	_____
RETURNS ABOVE DIRECT EXPENSES				272.54	_____
TOTAL FIXED EXPENSES				82.36	_____
				-----	
TOTAL SPECIFIED EXPENSES				650.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				190.18	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.C Estimated resource use for field operations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air ( 5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.50	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.50	
App by Air ( 5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.73	0.73	6.09	0.54

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.D Estimated costs for field operations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Seed Conv.	lb	32.40					0.70	33.10		33.10
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	5.40					0.12	5.52		5.52
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Riceshot	pt	23.84					0.43	24.27		24.27
Facet 75DF	lb	19.97					0.36	20.33		20.33
Permit 75 DF	oz	9.50					0.17	9.67		9.67
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Karate Z	oz	5.74					0.10	5.84		5.84
Rice Management										
RICE MGT. LABOR	hour				2.72		0.05	2.77		2.77
App by Air ( 5 gal)	appl	2.75					0.04	2.79		2.79
Clincher SF	oz	13.86					0.20	14.06		14.06
Crop Oil Conc.(Pet.)	pt	1.41					0.02	1.43		1.43
Rice Management										
RICE MGT. LABOR	hour				4.53		0.07	4.60		4.60
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				4.53		0.05	4.58		4.58
App by Air ( 5 gal)	appl	4.13					0.04	4.17		4.17
Stratego	pt	13.33					0.14	13.47		13.47
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		8.12	6.94	4.37		0.14	19.57	24.22	43.79
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	39.96					0.29	40.25		40.25
Dry Rice	bu	59.20					0.43	59.63		59.63
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	4.50	66.64	10.93	33.38		1.88	117.33	38.54	155.87
TOTALS		388.76	84.22	23.57	63.17	0.00	8.38	568.10	82.36	650.46

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 1.E Estimated monthly income and expense flows per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	840.64	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	2.75	6.13	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.70	53.31	13.86	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	37.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.96	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	15.76	9.52	11.33	11.33	10.11	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	16.90	17.52	17.52	17.52	9.22	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.82	6.31	1.51	1.51	7.28	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	2.15	3.27	1.25	0.56	0.91	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	101.63	184.99	87.51	53.25	126.68	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-101.63	-184.99	-87.51	-53.25	713.96	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-106.58	-291.57	-379.08	-432.33	281.63	272.54

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Rice	4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10			
PERCENT	YIELD	UNIT	dollars											
50	74.00	bu	-202 -285	-181 -264	-160 -243	-139 -222	-118 -201	-97 -180	-76 -159	-55 -138	-34 -117	-13 -96	7 -75	
60	88.80	bu	-149 -232	-124 -207	-99 -181	-74 -156	-48 -131	-23 -106	1 -80	26 -55	51 -30	77 -5	102 19	
70	103.60	bu	-96 -179	-67 -149	-37 -120	-8 -90	20 -61	50 -32	79 -2	109 26	138 56	168 85	197 115	
80	118.40	bu	-43 -126	-10 -92	23 -58	57 -25	90 8	124 42	158 75	191 109	225 142	258 176	292 210	
90	133.20	bu	9 -73	47 -35	84 2	122 40	160 78	198 116	236 153	274 191	311 229	349 267	387 305	
100	148.00	bu	62 -19	104 22	146 64	188 106	230 148	272 190	314 232	356 274	398 316	440 358	482 400	
110	162.80	bu	115 33	161 79	207 125	254 171	300 218	346 264	392 310	439 356	485 402	531 449	577 495	
120	177.60	bu	168 86	218 136	269 187	319 237	370 287	420 338	471 388	521 439	572 489	622 540	672 590	
130	192.40	bu	221 139	276 193	330 248	385 303	440 357	494 412	549 467	604 521	658 576	713 630	767 685	
140	207.20	bu	274 192	333 251	392 309	451 368	509 427	568 486	627 545	686 604	745 663	804 721	863 780	
150	222.00	bu	327 245	390 308	453 371	516 434	579 497	642 560	705 623	769 686	832 749	895 812	958 875	

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 2.A Estimated costs per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.2500	17.88	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	0.7500	13.33	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	2.98	8.0000	23.84	_____
Facet 75DF	lb	49.92	0.4000	19.97	_____
Permit 75 DF	oz	19.00	0.5000	9.50	_____
Clincher SF	oz	1.98	7.0000	13.86	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.36	90.0000	32.40	_____
Rice Seed (Levees)	lb	0.36	15.0000	5.40	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	156.0000	42.12	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4815	5.45	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	4.5628	10.91	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	21.9949	52.57	_____
REPAIR & MAINTENANCE					
Implements	acre	5.59	1.0000	5.59	_____
Tractors	acre	1.86	1.0000	1.86	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	10.32	1.0000	10.32	_____
INTEREST ON OP. CAP.	acre	7.89	1.0000	7.89	_____
TOTAL DIRECT EXPENSES				537.01	_____
FIXED EXPENSES					
Implements	acre	11.85	1.0000	11.85	_____
Tractors	acre	12.14	1.0000	12.14	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.76	1.0000	56.76	_____
TOTAL FIXED EXPENSES				99.45	_____
TOTAL SPECIFIED EXPENSES				636.46	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.B Summary of estimated costs and returns per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	156.0000	886.08	_____
				-----	
TOTAL INCOME				886.08	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.88	1.0000	19.88	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	13.33	1.0000	13.33	_____
HERBICIDES	acre	87.87	1.0000	87.87	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	37.80	1.0000	37.80	_____
ADJUVANTS	acre	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	42.12	1.0000	42.12	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.35	0.6575	7.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	29.5023	70.52	_____
REPAIR & MAINTENANCE	acre	22.37	1.0000	22.37	_____
INTEREST ON OP. CAP.	acre	7.89	1.0000	7.89	_____
				-----	
TOTAL DIRECT EXPENSES				537.01	_____
RETURNS ABOVE DIRECT EXPENSES				349.07	_____
TOTAL FIXED EXPENSES				99.45	_____
				-----	
TOTAL SPECIFIED EXPENSES				636.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				249.62	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.C Estimated resource use for field operations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.65	0.65	4.07	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.D Estimated costs for field operations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Seed Conv.	lb	32.40					0.70	33.10		33.10
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	5.40					0.12	5.52		5.52
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Riceshot	pt	23.84					0.43	24.27		24.27
Facet 75DF	lb	19.97					0.36	20.33		20.33
Permit 75 DF	oz	9.50					0.17	9.67		9.67
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Karate Z	oz	5.74					0.10	5.84		5.84
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	2.75					0.04	2.79		2.79
Clincher SF	oz	13.86					0.20	14.06		14.06
Crop Oil Conc.(Pet.)	pt	1.41					0.02	1.43		1.43
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	4.13					0.04	4.17		4.17
Stratego	pt	13.33					0.14	13.47		13.47
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.12					0.30	42.42		42.42
Dry Rice	bu	62.40					0.45	62.85		62.85
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	2.25	54.02	10.66	22.39		1.48	90.80	58.86	149.66
TOTALS		391.87	70.52	22.37	44.36	0.00	7.89	537.01	99.45	636.46

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 2.E Estimated monthly income and expense flows per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	886.08	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	2.75	6.13	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.70	53.31	13.86	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	37.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.12	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	11.82	5.44	6.34	6.34	9.30	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	16.33	13.63	13.63	13.63	7.76	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.90	6.23	1.43	1.43	6.24	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	2.01	3.13	1.13	0.46	0.92	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	94.81	176.80	78.43	44.19	128.74	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-94.81	-176.80	-78.43	-44.19	757.34	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-99.76	-276.56	-354.99	-399.18	358.16	349.07

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT YIELD UNIT			-----dollars-----										
50	78.00	bu	-152 -251	-129 -229	-107 -207	-85 -185	-63 -162	-41 -140	-19 -118	2 -96	25 -74	47 -52	69 -30
60	93.60	bu	-96 -195	-69 -169	-43 -142	-16 -115	10 -89	36 -62	63 -36	89 -9	116 17	143 43	169 70
70	109.20	bu	-40 -139	-9 -108	21 -77	52 -46	83 -15	114 15	145 46	176 77	207 108	238 139	269 170
80	124.80	bu	15 -83	51 -48	86 -12	122 22	157 58	192 93	228 128	263 164	299 199	334 235	370 270
90	140.40	bu	71 -27	111 12	151 51	191 91	231 131	270 171	310 211	350 251	390 291	430 331	470 370
100	156.00	bu	127 28	171 72	216 116	260 161	304 205	349 249	393 293	437 338	481 382	526 426	570 471
110	171.60	bu	183 84	232 132	280 181	329 230	378 278	427 327	475 376	524 425	573 473	622 522	670 571
120	187.20	bu	239 139	292 193	345 246	398 299	452 352	505 405	558 458	611 512	664 565	717 618	771 671
130	202.80	bu	295 195	352 253	410 311	468 368	525 426	583 483	640 541	698 599	756 656	813 714	871 771
140	218.40	bu	351 251	413 313	475 375	537 437	599 499	661 561	723 623	785 685	847 748	909 810	971 872
150	234.00	bu	407 307	473 374	540 440	606 507	673 573	739 640	805 706	872 772	938 839	1005 905	1071 972

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 3.A Estimated costs per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.2500	17.88	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	0.7500	13.33	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	2.98	8.0000	23.84	_____
Facet 75DF	lb	49.92	0.4000	19.97	_____
Permit 75 DF	oz	19.00	0.5000	9.50	_____
Clincher SF	oz	1.98	7.0000	13.86	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.36	90.0000	32.40	_____
Rice Seed (Levees)	lb	0.36	15.0000	5.40	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	156.0000	42.12	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5096	5.77	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	4.7510	11.36	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	18.7364	44.77	_____
REPAIR & MAINTENANCE					
Implements	acre	5.64	1.0000	5.64	_____
Tractors	acre	1.94	1.0000	1.94	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	10.09	1.0000	10.09	_____
INTEREST ON OP. CAP.	acre	7.74	1.0000	7.74	_____
TOTAL DIRECT EXPENSES				525.33	_____
FIXED EXPENSES					
Implements	acre	12.29	1.0000	12.29	_____
Tractors	acre	12.61	1.0000	12.61	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.54	1.0000	56.54	_____
TOTAL FIXED EXPENSES				100.14	_____
TOTAL SPECIFIED EXPENSES				625.47	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 3.B Summary of estimated costs and returns per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	156.0000	886.08	_____
				-----	
TOTAL INCOME				886.08	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.88	1.0000	19.88	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	13.33	1.0000	13.33	_____
HERBICIDES	acre	87.87	1.0000	87.87	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	37.80	1.0000	37.80	_____
ADJUVANTS	acre	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	42.12	1.0000	42.12	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	11.35	0.6856	7.77	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	26.4320	63.17	_____
REPAIR & MAINTENANCE	acre	22.27	1.0000	22.27	_____
INTEREST ON OP. CAP.	acre	7.74	1.0000	7.74	_____
				-----	
TOTAL DIRECT EXPENSES				525.33	_____
RETURNS ABOVE DIRECT EXPENSES				360.75	_____
TOTAL FIXED EXPENSES				100.14	_____
				-----	
TOTAL SPECIFIED EXPENSES				625.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				260.61	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 3.C Estimated resource use for field operations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.68	0.68	2.89	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 3.D Estimated costs for field operations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Seed Conv.	lb	32.40					0.70	33.10		33.10
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	5.40					0.12	5.52		5.52
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Riceshot	pt	23.84					0.43	24.27		24.27
Facet 75DF	lb	19.97					0.36	20.33		20.33
Permit 75 DF	oz	9.50					0.17	9.67		9.67
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Karate Z	oz	5.74					0.10	5.84		5.84
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	2.75					0.04	2.79		2.79
Clincher SF	oz	13.86					0.20	14.06		14.06
Crop Oil Conc.(Pet.)	pt	1.41					0.02	1.43		1.43
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	4.13					0.04	4.17		4.17
Stratego	pt	13.33					0.14	13.47		13.47
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.12					0.30	42.42		42.42
Dry Rice	bu	62.40					0.45	62.85		62.85
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	8.85	46.67	10.56	11.71		1.33	79.12	59.55	138.67
TOTALS		398.47	63.17	22.27	33.68	0.00	7.74	525.33	100.14	625.47

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 3.E Estimated monthly income and expense flows per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	886.08	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	2.75	6.13	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.70	53.31	13.86	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	37.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.12	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	9.58	2.72	3.62	3.62	9.02	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	14.73	11.68	11.68	11.68	7.86	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.92	6.18	1.38	1.38	6.27	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	2.07	3.05	1.06	0.41	0.91	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	97.65	172.00	73.64	39.42	128.58	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-97.65	-172.00	-73.64	-39.42	757.50	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-102.60	-274.60	-348.24	-387.66	369.84	360.75

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs

Table 3.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----											
PRODUCT				75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----											
Rice				4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT	YIELD	UNIT	-----dollars-----											
50	78.00	bu	-140	-118	-96	-73	-51	-29	-7	14	36	58	81	
			-240	-218	-196	-174	-151	-129	-107	-85	-63	-41	-19	
60	93.60	bu	-84	-57	-31	-4	21	48	75	101	128	154	181	
			-184	-158	-131	-104	-78	-51	-25	1	28	54	81	
70	109.20	bu	-28	2	33	64	95	126	157	188	219	250	281	
			-128	-97	-66	-35	-4	26	57	88	119	150	181	
80	124.80	bu	27	62	98	133	169	204	240	275	310	346	381	
			-72	-37	-1	33	69	104	139	175	210	246	281	
90	140.40	bu	83	123	163	202	242	282	322	362	402	442	482	
			-16	23	62	102	142	182	222	262	302	342	381	
100	156.00	bu	139	183	227	272	316	360	405	449	493	537	582	
			39	83	127	172	216	260	304	349	393	437	482	
110	171.60	bu	195	243	292	341	390	438	487	536	585	633	682	
			95	143	192	241	289	338	387	436	484	533	582	
120	187.20	bu	251	304	357	410	463	516	570	623	676	729	782	
			150	204	257	310	363	416	469	523	576	629	682	
130	202.80	bu	307	364	422	479	537	594	652	710	767	825	882	
			206	264	322	379	437	494	552	610	667	725	782	
140	218.40	bu	362	424	486	549	611	673	735	797	859	921	983	
			262	324	386	448	510	572	634	696	759	821	883	
150	234.00	bu	418	485	551	618	684	751	817	884	950	1016	1083	
			318	385	451	518	584	651	717	783	850	916	983	

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 4.A Estimated costs per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.2500	17.88	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	0.7500	13.33	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	2.98	8.0000	23.84	_____
Facet 75DF	lb	49.92	0.4000	19.97	_____
Permit 75 DF	oz	19.00	0.5000	9.50	_____
Clincher SF	oz	1.98	7.0000	13.86	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.36	90.0000	32.40	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	164.0000	44.28	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4043	4.58	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	3.9548	9.46	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	15.4779	36.98	_____
REPAIR & MAINTENANCE					
Implements	acre	5.51	1.0000	5.51	_____
Tractors	acre	1.60	1.0000	1.60	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	8.68	1.0000	8.68	_____
INTEREST ON OP. CAP.	acre	7.23	1.0000	7.23	_____
TOTAL DIRECT EXPENSES				502.18	_____
FIXED EXPENSES					
Implements	acre	11.42	1.0000	11.42	_____
Tractors	acre	10.47	1.0000	10.47	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.32	1.0000	56.32	_____
TOTAL FIXED EXPENSES				96.91	_____
TOTAL SPECIFIED EXPENSES				599.09	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.B Summary of estimated costs and returns per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	164.0000	931.52	_____
				-----	
TOTAL INCOME				931.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.88	1.0000	19.88	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	13.33	1.0000	13.33	_____
HERBICIDES	acre	87.87	1.0000	87.87	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	32.40	1.0000	32.40	_____
ADJUVANTS	acre	1.41	1.0000	1.41	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	44.28	1.0000	44.28	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	11.35	0.5803	6.58	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	22.3772	53.48	_____
REPAIR & MAINTENANCE	acre	20.39	1.0000	20.39	_____
INTEREST ON OP. CAP.	acre	7.23	1.0000	7.23	_____
				-----	
TOTAL DIRECT EXPENSES				502.18	_____
RETURNS ABOVE DIRECT EXPENSES				429.34	_____
TOTAL FIXED EXPENSES				96.91	_____
				-----	
TOTAL SPECIFIED EXPENSES				599.09	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				332.43	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.C Estimated resource use for field operations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Seed Conv.	lb					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.0000				
Crop Oil Conc.(Pet.)	pt					1.0000				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			0.75	Jul	0.7500				
Stratego	pt					0.7500				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.58	0.58	2.67	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 4.D Estimated costs for field operations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Seed Conv.	lb	32.40					0.70	33.10		33.10
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Riceshot	pt	23.84					0.43	24.27		24.27
Facet 75DF	lb	19.97					0.36	20.33		20.33
Permit 75 DF	oz	9.50					0.17	9.67		9.67
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Karate Z	oz	5.74					0.10	5.84		5.84
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	2.75					0.04	2.79		2.79
Clincher SF	oz	13.86					0.20	14.06		14.06
Crop Oil Conc.(Pet.)	pt	1.41					0.02	1.43		1.43
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	4.13					0.04	4.17		4.17
Stratego	pt	13.33					0.14	13.47		13.47
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	44.28					0.32	44.60		44.60
Dry Rice	bu	65.60					0.47	66.07		66.07
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre		36.98	8.68	9.53		0.90	56.09	56.32	112.41
TOTALS		389.58	53.48	20.39	31.50	0.00	7.23	502.18	96.91	599.09

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.E Estimated monthly income and expense flows per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	931.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	2.75	6.13	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.70	53.31	13.86	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.28	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	6.93	3.18	4.08	4.08	8.11	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	11.45	9.73	9.73	9.73	7.30	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.26	5.82	1.02	1.02	6.13	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	1.62	3.01	1.03	0.39	0.94	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	76.36	170.11	71.76	37.55	132.36	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-76.36	-170.11	-71.76	-37.55	799.16	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-81.31	-251.42	-323.18	-360.73	438.43	429.34

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
			-----dollars-----										
PERCENT	YIELD	UNIT											
50	82.00	bu	-97	-74	-50	-27	-4	18	42	65	88	112	135
			-194	-171	-147	-124	-101	-77	-54	-31	-8	15	38
60	98.40	bu	-38	-10	17	45	73	101	128	156	184	212	240
			-135	-107	-79	-51	-23	4	32	59	87	115	143
70	114.80	bu	20	52	85	117	150	183	215	248	280	313	346
			-76	-44	-11	20	53	86	118	151	183	216	249
80	131.20	bu	78	116	153	190	227	265	302	339	376	414	451
			-18	19	56	93	130	168	205	242	280	317	354
90	147.60	bu	137	179	221	263	305	347	389	431	473	514	556
			40	82	124	166	208	250	292	334	376	418	459
100	164.00	bu	196	243	289	336	382	429	475	522	569	615	662
			99	146	192	239	285	332	379	425	472	518	565
110	180.40	bu	255	306	357	408	460	511	562	613	665	716	767
			158	209	260	312	363	414	465	516	568	619	670
120	196.80	bu	314	369	425	481	537	593	649	705	761	817	872
			217	273	328	384	440	496	552	608	664	720	776
130	213.20	bu	372	433	493	554	615	675	736	796	857	917	978
			275	336	397	457	518	578	639	699	760	820	881
140	229.60	bu	431	496	562	627	692	757	822	888	953	1018	1083
			334	399	465	530	595	660	725	791	856	921	986
150	246.00	bu	490	560	630	700	769	839	909	979	1049	1119	1189
			393	463	533	603	672	742	812	882	952	1022	1092

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 5.A Estimated costs per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.25	1.0000	7.25	_____
App by Air ( 5 gal)	appl	5.50	2.2500	12.38	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	1.0000	17.77	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.84	4.0000	15.36	_____
Clearpath	lb	59.94	0.5000	29.97	_____
Beyond	oz	4.47	1.2500	5.59	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Clearfield	lb	0.89	80.0000	71.20	_____
Rice Seed CF(Levees)	lb	0.89	14.0000	12.46	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.6000	2.26	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	148.0000	39.96	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5291	6.00	_____
Harvesters	hour	11.35	0.2030	2.30	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.35	0.5467	6.21	_____
DIESEL FUEL					
Tractors	gal	2.39	4.9580	11.86	_____
Harvesters	gal	2.39	3.3975	8.12	_____
Flood Irr.	gal	2.39	26.8827	64.24	_____
REPAIR & MAINTENANCE					
Implements	acre	5.89	1.0000	5.89	_____
Tractors	acre	2.03	1.0000	2.03	_____
Harvesters	acre	5.31	1.0000	5.31	_____
Flood Irr.	acre	10.34	1.0000	10.34	_____
INTEREST ON OP. CAP.	acre	9.19	1.0000	9.19	_____
TOTAL DIRECT EXPENSES				598.31	_____
FIXED EXPENSES					
Implements	acre	12.56	1.0000	12.56	_____
Tractors	acre	13.26	1.0000	13.26	_____
Harvesters	acre	21.58	1.0000	21.58	_____
Flood Irr.	acre	34.96	1.0000	34.96	_____
TOTAL FIXED EXPENSES				82.36	_____
TOTAL SPECIFIED EXPENSES				680.67	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.B Summary of estimated costs and returns per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	148.0000	840.64	_____
				-----	
TOTAL INCOME				840.64	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.63	1.0000	21.63	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	17.77	1.0000	17.77	_____
HERBICIDES	acre	71.62	1.0000	71.62	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	83.66	1.0000	83.66	_____
ADJUVANTS	acre	2.26	1.0000	2.26	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	39.96	1.0000	39.96	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	11.35	0.7322	8.30	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.35	0.5467	6.21	_____
DIESEL FUEL	gal	2.39	35.2383	84.22	_____
REPAIR & MAINTENANCE	acre	23.57	1.0000	23.57	_____
INTEREST ON OP. CAP.	acre	9.19	1.0000	9.19	_____
				-----	
TOTAL DIRECT EXPENSES				598.31	_____
RETURNS ABOVE DIRECT EXPENSES				242.33	_____
TOTAL FIXED EXPENSES					
				82.36	_____
				-----	
TOTAL SPECIFIED EXPENSES				680.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				159.97	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.C Estimated resource use for field operations, per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.73	0.73	5.29	0.54

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.D Estimated costs for field operations, per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Clearfield	lb	71.20					1.54	72.74		72.74
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	12.46					0.27	12.73		12.73
App by Air (10 gal)	appl	7.25					0.16	7.41		7.41
Newpath 2SL	oz	15.36					0.33	15.69		15.69
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Clearpath	lb	29.97					0.54	30.51		30.51
Karate Z	oz	5.74					0.10	5.84		5.84
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	1.38					0.02	1.40		1.40
Beyond	oz	5.59					0.08	5.67		5.67
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Stratego	pt	17.77					0.19	17.96		17.96
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		8.12	6.94	4.37		0.14	19.57	24.22	43.79
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	39.96					0.29	40.25		40.25
Dry Rice	bu	59.20					0.43	59.63		59.63
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	4.50	66.64	10.93	33.38		1.88	117.33	38.54	155.87
TOTALS		425.41	84.22	23.57	55.92	0.00	9.19	598.31	82.36	680.67

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 5.E Estimated monthly income and expense flows per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	840.64	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.25	5.50	1.38	7.50	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.77	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	36.06	29.97	5.59	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	83.66	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.96	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.20	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	15.76	7.71	8.61	8.61	10.11	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	16.90	17.52	17.52	17.52	9.22	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.82	6.31	1.51	1.51	7.28	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	3.65	2.74	1.05	0.60	0.91	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	172.73	154.94	73.54	56.38	126.68	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-172.73	-154.94	-73.54	-56.38	713.96	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-177.68	-332.62	-406.16	-462.54	251.42	242.33

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs



Table 5.F Estimated returns for various price/yield combinations, per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10		
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-233 -315	-212 -294	-191 -273	-170 -252	-149 -231	-128 -210	-107 -189	-86 -168	-65 -147	-43 -126	-22 -105
60	88.80	bu	-180 -262	-154 -237	-129 -211	-104 -186	-79 -161	-53 -136	-28 -111	-3 -85	21 -60	46 -35	72 -10
70	103.60	bu	-127 -209	-97 -179	-68 -150	-38 -121	-9 -91	20 -62	49 -32	78 -3	108 26	137 55	167 84
80	118.40	bu	-73 -156	-40 -122	-6 -89	26 -55	60 -21	94 11	127 45	161 79	195 112	228 146	262 179
90	133.20	bu	-20 -103	16 -65	54 -27	92 10	130 48	168 85	206 123	243 161	281 199	319 237	357 275
100	148.00	bu	32 -50	74 -8	116 33	158 75	200 117	242 159	284 202	326 244	368 286	410 328	452 370
110	162.80	bu	85 2	131 49	177 95	223 141	270 187	316 234	362 280	408 326	455 372	501 418	547 465
120	177.60	bu	138 55	188 106	239 156	289 207	340 257	390 308	440 358	491 408	541 459	592 509	642 560
130	192.40	bu	191 108	245 163	300 218	355 272	409 327	464 382	519 436	573 491	628 546	683 600	737 655
140	207.20	bu	244 162	303 220	362 279	420 338	479 397	538 456	597 515	656 573	715 632	774 691	832 750
150	222.00	bu	297 215	360 278	423 341	486 404	549 467	612 530	675 593	738 656	801 719	864 782	927 845

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 6.A Estimated costs per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.25	1.0000	7.25	_____
App by Air ( 5 gal)	appl	5.50	2.2500	12.38	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	1.0000	17.77	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.84	4.0000	15.36	_____
Clearpath	lb	59.94	0.5000	29.97	_____
Beyond	oz	4.47	1.2500	5.59	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Clearfield	lb	0.89	80.0000	71.20	_____
Rice Seed CF(Levees)	lb	0.89	14.0000	12.46	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.6000	2.26	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	156.0000	42.12	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4815	5.45	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	4.5628	10.91	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	21.9949	52.57	_____
REPAIR & MAINTENANCE					
Implements	acre	5.59	1.0000	5.59	_____
Tractors	acre	1.86	1.0000	1.86	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	10.32	1.0000	10.32	_____
INTEREST ON OP. CAP.	acre	8.80	1.0000	8.80	_____
TOTAL DIRECT EXPENSES				574.57	_____
FIXED EXPENSES					
Implements	acre	11.85	1.0000	11.85	_____
Tractors	acre	12.14	1.0000	12.14	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.76	1.0000	56.76	_____
TOTAL FIXED EXPENSES				99.45	_____
TOTAL SPECIFIED EXPENSES				674.02	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.B Summary of estimated costs and returns per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	156.0000	886.08	_____
				-----	
TOTAL INCOME				886.08	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.63	1.0000	21.63	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	17.77	1.0000	17.77	_____
HERBICIDES	acre	71.62	1.0000	71.62	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	83.66	1.0000	83.66	_____
ADJUVANTS	acre	2.26	1.0000	2.26	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	42.12	1.0000	42.12	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.35	0.6575	7.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	29.5023	70.52	_____
REPAIR & MAINTENANCE	acre	22.37	1.0000	22.37	_____
INTEREST ON OP. CAP.	acre	8.80	1.0000	8.80	_____
				-----	
TOTAL DIRECT EXPENSES				574.57	_____
RETURNS ABOVE DIRECT EXPENSES				311.51	_____
TOTAL FIXED EXPENSES				99.45	_____
				-----	
TOTAL SPECIFIED EXPENSES				674.02	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				212.06	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.C Estimated resource use for field operations, per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.65	0.65	4.07	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.D Estimated costs for field operations, per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Clearfield	lb	71.20					1.54	72.74		72.74
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	12.46					0.27	12.73		12.73
App by Air (10 gal)	appl	7.25					0.16	7.41		7.41
Newpath 2SL	oz	15.36					0.33	15.69		15.69
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Clearpath	lb	29.97					0.54	30.51		30.51
Karate Z	oz	5.74					0.10	5.84		5.84
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	1.38					0.02	1.40		1.40
Beyond	oz	5.59					0.08	5.67		5.67
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Stratego	pt	17.77					0.19	17.96		17.96
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.12					0.30	42.42		42.42
Dry Rice	bu	62.40					0.45	62.85		62.85
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	2.25	54.02	10.66	22.39		1.48	90.80	58.86	149.66
TOTALS		428.52	70.52	22.37	44.36	0.00	8.80	574.57	99.45	674.02

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	886.08	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.25	5.50	1.38	7.50	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.77	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	36.06	29.97	5.59	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	83.66	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.12	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	11.82	5.44	6.34	6.34	9.30	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	16.33	13.63	13.63	13.63	7.76	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.90	6.23	1.43	1.43	6.24	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	3.51	2.63	0.97	0.53	0.92	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	165.91	148.59	67.22	50.07	128.74	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-165.91	-148.59	-67.22	-50.07	757.34	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-170.86	-319.45	-386.67	-436.74	320.60	311.51

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs

Table 6.F Estimated returns for various price/yield combinations, per acre  
Clearfield straight levee rice  
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-189 -289	-167 -266	-145 -244	-123 -222	-101 -200	-78 -178	-56 -156	-34 -134	-12 -111	9 -89	31 -67
60	93.60	bu	-133 -233	-107 -206	-80 -180	-53 -153	-27 -126	-0 -100	25 -73	52 -47	78 -20	105 6	132 32
70	109.20	bu	-77 -177	-46 -146	-15 -115	15 -84	46 -53	77 -22	108 8	139 39	170 70	201 101	232 132
80	124.80	bu	-21 -121	13 -85	49 -50	84 -14	119 20	155 55	190 91	226 126	261 162	297 197	332 233
90	140.40	bu	34 -65	73 -25	113 14	153 54	193 94	233 133	273 173	313 213	353 253	392 293	432 333
100	156.00	bu	89 -9	134 34	178 79	222 123	267 167	311 212	355 256	400 300	444 344	488 389	533 433
110	171.60	bu	145 46	194 95	243 143	292 192	340 241	389 290	438 338	487 387	535 436	584 485	633 533
120	187.20	bu	201 102	255 155	308 208	361 261	414 315	467 368	520 421	574 474	627 527	680 580	733 634
130	202.80	bu	257 158	315 215	372 273	430 331	488 388	545 446	603 503	660 561	718 619	776 676	833 734
140	218.40	bu	313 214	375 276	437 338	499 400	561 462	623 524	685 586	747 648	809 710	871 772	933 834
150	234.00	bu	369 270	436 336	502 403	569 469	635 536	701 602	768 668	834 735	901 801	967 868	1034 934

The top number in each cell is Returns Above Direct Expenses.  
The bottom number in each cell is Returns Above Total Specified Expenses.  
Only the product listed has been varied to calculate net returns.  
Note: Cost of production estimates are based on 2010 input prices.

Table 7.A Estimated costs per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.25	1.0000	7.25	_____
App by Air ( 5 gal)	appl	5.50	2.2500	12.38	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	1.0000	17.77	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.84	4.0000	15.36	_____
Clearpath	lb	59.94	0.5000	29.97	_____
Beyond	oz	4.47	1.2500	5.59	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Rice Clearfield	lb	0.89	80.0000	71.20	_____
Rice Seed CF(Levees)	lb	0.89	14.0000	12.46	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.6000	2.26	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	156.0000	42.12	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5096	5.77	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	4.7510	11.36	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	18.7364	44.77	_____
REPAIR & MAINTENANCE					
Implements	acre	5.64	1.0000	5.64	_____
Tractors	acre	1.94	1.0000	1.94	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	10.09	1.0000	10.09	_____
INTEREST ON OP. CAP.	acre	8.65	1.0000	8.65	_____
TOTAL DIRECT EXPENSES				562.89	_____
FIXED EXPENSES					
Implements	acre	12.29	1.0000	12.29	_____
Tractors	acre	12.61	1.0000	12.61	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.54	1.0000	56.54	_____
TOTAL FIXED EXPENSES				100.14	_____
TOTAL SPECIFIED EXPENSES				663.03	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 7.B Summary of estimated costs and returns per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	156.0000	886.08	_____
				-----	
TOTAL INCOME				886.08	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.63	1.0000	21.63	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	17.77	1.0000	17.77	_____
HERBICIDES	acre	71.62	1.0000	71.62	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	83.66	1.0000	83.66	_____
ADJUVANTS	acre	2.26	1.0000	2.26	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	42.12	1.0000	42.12	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	11.35	0.6856	7.77	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	26.4320	63.17	_____
REPAIR & MAINTENANCE	acre	22.27	1.0000	22.27	_____
INTEREST ON OP. CAP.	acre	8.65	1.0000	8.65	_____
				-----	
TOTAL DIRECT EXPENSES				562.89	_____
RETURNS ABOVE DIRECT EXPENSES				323.19	_____
TOTAL FIXED EXPENSES				100.14	_____
				-----	
TOTAL SPECIFIED EXPENSES				663.03	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				223.05	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 7.C Estimated resource use for field operations, per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.68	0.68	2.89	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 7.D Estimated costs for field operations, per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Clearfield	lb	71.20					1.54	72.74		72.74
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	12.46					0.27	12.73		12.73
App by Air (10 gal)	appl	7.25					0.16	7.41		7.41
Newpath 2SL	oz	15.36					0.33	15.69		15.69
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Clearpath	lb	29.97					0.54	30.51		30.51
Karate Z	oz	5.74					0.10	5.84		5.84
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	1.38					0.02	1.40		1.40
Beyond	oz	5.59					0.08	5.67		5.67
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Stratego	pt	17.77					0.19	17.96		17.96
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.12					0.30	42.42		42.42
Dry Rice	bu	62.40					0.45	62.85		62.85
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	8.85	46.67	10.56	11.71		1.33	79.12	59.55	138.67
TOTALS		435.12	63.17	22.27	33.68	0.00	8.65	562.89	100.14	663.03

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 7.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	886.08	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.25	5.50	1.38	7.50	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.77	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	36.06	29.97	5.59	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	83.66	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.12	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.40	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	9.58	2.72	3.62	3.62	9.02	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	14.73	11.68	11.68	11.68	7.86	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.92	6.18	1.38	1.38	6.27	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	3.57	2.55	0.90	0.48	0.91	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	168.75	143.79	62.43	45.30	128.58	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-168.75	-143.79	-62.43	-45.30	757.50	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-173.70	-317.49	-379.92	-425.22	332.28	323.19

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs

Table 7.F Estimated returns for various price/yield combinations, per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-177 -278	-155 -255	-133 -233	-111 -211	-89 -189	-67 -167	-45 -145	-22 -123	-0 -100	21 -78	43 -56
60	93.60	bu	-122 -222	-95 -195	-68 -169	-42 -142	-15 -115	10 -89	37 -62	64 -36	90 -9	117 17	143 43
70	109.20	bu	-66 -166	-35 -135	-4 -104	26 -73	57 -42	88 -11	119 19	150 50	181 81	212 112	244 143
80	124.80	bu	-10 -110	25 -74	60 -39	96 -3	131 31	167 66	202 102	237 137	273 173	308 208	344 244
90	140.40	bu	45 -54	85 -14	125 25	165 65	205 105	245 144	284 184	324 224	364 264	404 304	444 344
100	156.00	bu	101 1	145 45	190 90	234 134	278 178	323 223	367 267	411 311	456 355	500 400	544 444
110	171.60	bu	157 57	206 106	255 154	303 203	352 252	401 301	450 349	498 398	547 447	596 496	644 544
120	187.20	bu	213 113	266 166	319 219	373 272	426 326	479 379	532 432	585 485	638 538	692 591	745 645
130	202.80	bu	269 169	327 226	384 284	442 342	499 399	557 457	615 514	672 572	730 630	787 687	845 745
140	218.40	bu	325 225	387 287	449 349	511 411	573 473	635 535	697 597	759 659	821 721	883 783	945 845
150	234.00	bu	381 281	447 347	514 414	580 480	647 546	713 613	780 679	846 746	912 812	979 879	1045 945

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.

Table 8.A Estimated costs per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.25	1.0000	7.25	_____
App by Air ( 5 gal)	appl	5.50	2.2500	12.38	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	4.0000	76.00	_____
FUNGICIDES					
Stratego	pt	17.77	1.0000	17.77	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.84	4.0000	15.36	_____
Clearpath	lb	59.94	0.5000	29.97	_____
Beyond	oz	4.47	1.2500	5.59	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Clearfield	lb	0.89	80.0000	71.20	_____
Rice Seed CF(Levees)	lb	0.89	14.0000	12.46	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.6000	2.26	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.27	164.0000	44.28	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4043	4.58	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	3.9548	9.46	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	15.4779	36.98	_____
REPAIR & MAINTENANCE					
Implements	acre	5.51	1.0000	5.51	_____
Tractors	acre	1.60	1.0000	1.60	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	8.68	1.0000	8.68	_____
INTEREST ON OP. CAP.	acre	8.26	1.0000	8.26	_____
TOTAL DIRECT EXPENSES				545.26	_____
FIXED EXPENSES					
Implements	acre	11.42	1.0000	11.42	_____
Tractors	acre	10.47	1.0000	10.47	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.32	1.0000	56.32	_____
TOTAL FIXED EXPENSES				96.91	_____
TOTAL SPECIFIED EXPENSES				642.17	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.B Summary of estimated costs and returns per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	164.0000	931.52	_____
				-----	
TOTAL INCOME				931.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.63	1.0000	21.63	_____
FERTILIZERS	acre	86.50	1.0000	86.50	_____
FUNGICIDES	acre	17.77	1.0000	17.77	_____
HERBICIDES	acre	71.62	1.0000	71.62	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	83.66	1.0000	83.66	_____
ADJUVANTS	acre	2.26	1.0000	2.26	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	44.28	1.0000	44.28	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	11.35	0.5803	6.58	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	22.3772	53.48	_____
REPAIR & MAINTENANCE	acre	20.39	1.0000	20.39	_____
INTEREST ON OP. CAP.	acre	8.26	1.0000	8.26	_____
				-----	
TOTAL DIRECT EXPENSES				545.26	_____
RETURNS ABOVE DIRECT EXPENSES				386.26	_____
TOTAL FIXED EXPENSES				96.91	_____
				-----	
TOTAL SPECIFIED EXPENSES				642.17	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				289.35	_____

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 8.C Estimated resource use for field operations, per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield	lb					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.58	0.58	2.67	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 8.D Estimated costs for field operations, per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Clearfield	lb	71.20					1.54	72.74		72.74
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	12.46					0.27	12.73		12.73
App by Air (10 gal)	appl	7.25					0.16	7.41		7.41
Newpath 2SL	oz	15.36					0.33	15.69		15.69
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	47.50					0.86	48.36		48.36
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Clearpath	lb	29.97					0.54	30.51		30.51
Karate Z	oz	5.74					0.10	5.84		5.84
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	1.38					0.02	1.40		1.40
Beyond	oz	5.59					0.08	5.67		5.67
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.14	9.52		9.52
Urea, Solid (46% N)	cwt	28.50					0.41	28.91		28.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Stratego	pt	17.77					0.19	17.96		17.96
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	44.28					0.32	44.60		44.60
Dry Rice	bu	65.60					0.47	66.07		66.07
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre		36.98	8.68	9.53		0.90	56.09	56.32	112.41
TOTALS		431.63	53.48	20.39	31.50	0.00	8.26	545.26	96.91	642.17

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

Table 8.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	931.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.25	5.50	1.38	7.50	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	28.50	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.77	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	36.06	29.97	5.59	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	83.66	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.28	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.60	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	6.93	3.18	4.08	4.08	8.11	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	11.45	9.73	9.73	9.73	7.30	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.26	5.82	1.02	1.02	6.13	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	3.24	2.51	0.87	0.46	0.94	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	152.98	141.90	60.55	43.43	132.36	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-152.98	-141.90	-60.55	-43.43	799.16	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-157.93	-299.83	-360.38	-403.81	395.35	386.26

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre  
Clearfield straight levee-zero grade rice  
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT YIELD UNIT			-----dollars-----										
50	82.00	bu	-140 -237	-117 -214	-94 -190	-70 -167	-47 -144	-24 -121	-0 -97	22 -74	45 -51	68 -27	92 -4
60	98.40	bu	-81 -178	-53 -150	-25 -122	2 -94	29 -66	57 -38	85 -11	113 16	141 44	169 72	197 100
70	114.80	bu	-23 -119	9 -87	42 -54	74 -22	107 10	140 43	172 75	205 108	237 140	270 173	303 206
80	131.20	bu	35 -61	73 -23	110 13	147 50	184 87	222 125	259 162	296 199	333 236	371 274	408 311
90	147.60	bu	94 -2	136 39	178 81	220 123	262 165	304 207	346 249	388 291	429 333	471 374	513 416
100	164.00	bu	153 56	199 103	246 149	293 196	339 242	386 289	432 335	479 382	525 429	572 475	619 522
110	180.40	bu	212 115	263 166	314 217	365 268	417 320	468 371	519 422	570 473	622 525	673 576	724 627
120	196.80	bu	270 174	326 229	382 285	438 341	494 397	550 453	606 509	662 565	718 621	773 677	829 732
130	213.20	bu	329 232	390 293	450 353	511 414	571 475	632 535	693 596	753 656	814 717	874 777	935 838
140	229.60	bu	388 291	453 356	518 422	584 487	649 552	714 617	779 682	845 748	910 813	975 878	1040 943
150	246.00	bu	447 350	517 420	587 490	656 560	726 629	796 699	866 769	936 839	1006 909	1076 979	1146 1049

The top number in each cell is Returns Above Direct Expenses.  
The bottom number in each cell is Returns Above Total Specified Expenses.  
Only the product listed has been varied to calculate net returns.  
Note: Cost of production estimates are based on 2010 input prices.

Table 9.A Estimated costs per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.25	1.0000	7.25	_____
App by Air ( 5 gal)	appl	5.50	1.2500	6.88	_____
App by Air ( 3 gal)	appl	4.00	0.5000	2.00	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	14.00	0.7500	10.50	_____
Urea, Solid (46% N)	cwt	19.00	3.6700	69.73	_____
HERBICIDES					
Command 3ME	pt	15.45	1.0000	15.45	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.84	4.0000	15.36	_____
Clearpath	lb	59.94	0.5000	29.97	_____
Beyond	oz	4.47	1.2500	5.59	_____
INSECTICIDES					
Karate Z	oz	2.87	3.0000	8.61	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	5.44	25.0000	136.00	_____
Rice Seed CFH(Levee)	lb	1.74	14.0000	24.36	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.41	1.6000	2.26	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.4200	27.63	_____
HAULING					
Haul Rice/Field	bu	0.27	179.0000	48.33	_____
DRYING					
Dry Rice	bu	0.40	179.0000	71.60	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4815	5.45	_____
Harvesters	hour	11.35	0.1760	2.00	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL					
Tractors	gal	2.39	4.5628	10.91	_____
Harvesters	gal	2.39	2.9444	7.04	_____
Flood Irr.	gal	2.39	21.9949	52.57	_____
REPAIR & MAINTENANCE					
Implements	acre	5.59	1.0000	5.59	_____
Tractors	acre	1.86	1.0000	1.86	_____
Harvesters	acre	4.60	1.0000	4.60	_____
Flood Irr.	acre	10.32	1.0000	10.32	_____
INTEREST ON OP. CAP.	acre	10.22	1.0000	10.22	_____
TOTAL DIRECT EXPENSES				636.49	_____
FIXED EXPENSES					
Implements	acre	11.85	1.0000	11.85	_____
Tractors	acre	12.14	1.0000	12.14	_____
Harvesters	acre	18.70	1.0000	18.70	_____
Flood Irr.	acre	56.76	1.0000	56.76	_____
TOTAL FIXED EXPENSES				99.45	_____
TOTAL SPECIFIED EXPENSES				735.94	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.B Summary of estimated costs and returns per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.68	179.0000	1016.72	_____
				-----	
TOTAL INCOME				1016.72	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.13	1.0000	16.13	_____
FERTILIZERS	acre	80.23	1.0000	80.23	_____
HERBICIDES	acre	71.62	1.0000	71.62	_____
INSECTICIDES	acre	8.61	1.0000	8.61	_____
SEED/PLANTS	acre	160.36	1.0000	160.36	_____
ADJUVANTS	acre	2.26	1.0000	2.26	_____
CUSTOM FERTILIZE	acre	27.63	1.0000	27.63	_____
HAULING	acre	48.33	1.0000	48.33	_____
DRYING	acre	71.60	1.0000	71.60	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.35	0.6575	7.45	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.37	0.5223	5.94	_____
DIESEL FUEL	gal	2.39	29.5023	70.52	_____
REPAIR & MAINTENANCE	acre	22.37	1.0000	22.37	_____
INTEREST ON OP. CAP.	acre	10.22	1.0000	10.22	_____
				-----	
TOTAL DIRECT EXPENSES				636.49	_____
RETURNS ABOVE DIRECT EXPENSES				380.23	_____
TOTAL FIXED EXPENSES				99.45	_____
				-----	
TOTAL SPECIFIED EXPENSES				735.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				280.78	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.C Estimated resource use for field operations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Field Cultivate Fld	32'	MFWD 190	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Harrow - Folding	40'	MFWD 190	0.038	1.00	Oct		0.03	0.03	0.03	0.03
Grain Drill	24'	MFWD 190	0.078	1.00	Apr		0.07	0.07	0.15	0.07
Rice Clearfield Hyb	lb					25.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e.	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CFH(Levee)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
App by Air ( 5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air ( 5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air ( 3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	179.0000				
Dry Rice	bu			1.00	Aug	179.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.65	0.65	4.07	0.52

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.D Estimated costs for field operations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Field Cultivate Fld	32'		1.09	0.58	1.01		0.12	2.80	2.92	5.72
Harrow - Folding	40'		0.91	0.31	0.84		0.09	2.15	1.26	3.41
Grain Drill	24'		1.84	1.82	2.40		0.13	6.19	5.03	11.22
Rice Clearfield Hyb	lb	136.00					2.94	138.94		138.94
Roller/Cultipacker	30'		1.16	0.38	1.07		0.06	2.67	1.54	4.21
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Command 3ME	pt	15.45					0.33	15.78		15.78
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CFH(Levee)	lb	24.36					0.53	24.89		24.89
App by Air (10 gal)	appl	7.25					0.16	7.41		7.41
Newpath 2SL	oz	15.36					0.33	15.69		15.69
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	10.50					0.19	10.69		10.69
App Fert by Air	cwt	16.69					0.30	16.99		16.99
Urea, Solid (46% N)	cwt	50.73					0.92	51.65		51.65
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Clearpath	lb	29.97					0.54	30.51		30.51
Karate Z	oz	5.74					0.10	5.84		5.84
Crop Oil Conc.(Pet.)	pt	1.13					0.02	1.15		1.15
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air ( 5 gal)	appl	1.38					0.02	1.40		1.40
Beyond	oz	5.59					0.08	5.67		5.67
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	6.25					0.09	6.34		6.34
Urea, Solid (46% N)	cwt	19.00					0.27	19.27		19.27
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air ( 3 gal)	appl	2.00					0.02	2.02		2.02
Karate Z	oz	2.87					0.03	2.90		2.90
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		7.04	6.01	3.80		0.12	16.97	20.99	37.96
Grain Cart Rice	700 bu		0.26	0.12	0.23			0.61	0.43	1.04
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	48.33					0.35	48.68		48.68
Dry Rice	bu	71.60					0.52	72.12		72.12
Disk Heavy	28'		3.54	2.25	3.27		0.03	9.09	7.53	16.62
Flood Irr.	acre	2.25	54.02	10.66	22.39		1.48	90.80	58.86	149.66
TOTALS		489.02	70.52	22.37	44.36	0.00	10.22	636.49	99.45	735.94

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.E Estimated monthly income and expense flows per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1016.72	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.25	5.50	1.38	2.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.23	19.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	36.06	29.97	5.59	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	0.00	2.87	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	160.36	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.13	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.38	6.25	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.33	0.00
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.60	0.00
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00
LABOR	1.85	0.00	0.00	0.00	0.00	0.00	11.82	5.44	6.34	6.34	9.30	3.27
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.00	0.00	0.00	0.00	0.00	0.00	16.33	13.63	13.63	13.63	7.76	3.54
REPAIR & MAINTENANCE	0.89	0.00	0.00	0.00	0.00	0.00	3.90	6.23	1.43	1.43	6.24	2.25
INTEREST ON OP. CAP.	0.21	0.00	0.00	0.00	0.00	0.00	5.17	2.71	0.78	0.28	1.04	0.03
TOTAL DIRECT EXPENSES	4.95	0.00	0.00	0.00	0.00	0.00	244.27	152.96	54.40	26.55	144.27	9.09
NET INCOME	-4.95	0.00	0.00	0.00	0.00	0.00	-244.27	-152.96	-54.40	-26.55	872.45	-9.09
NET INCOME TO DATE	-4.95	-4.95	-4.95	-4.95	-4.95	-4.95	-249.22	-402.18	-456.58	-483.13	389.32	380.23

Note: Cost of production estimates are based on 2010 input prices.

**Fertilization decisions should be based on soil tests.**

\* Lease costs are based on hourly usage costs.



Table 9.F Estimated returns for various price/yield combinations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Rice			4.26	4.54	4.82	5.11	5.39	5.68	5.96	6.24	6.53	6.81	7.10
PERCENT YIELD UNIT			-----dollars-----										
50	89.50	bu	-194 -294	-169 -268	-143 -243	-118 -218	-93 -192	-67 -167	-42 -141	-16 -116	8 -90	33 -65	59 -40
60	107.40	bu	-130 -230	-100 -199	-69 -169	-39 -138	-8 -108	21 -77	52 -47	82 -16	113 13	143 44	174 74
70	125.30	bu	-66 -165	-30 -130	4 -94	40 -59	75 -23	111 12	147 47	182 83	218 118	253 154	289 189
80	143.20	bu	-2 -101	38 -61	79 -20	119 20	160 60	201 101	241 142	282 182	323 223	363 264	404 304
90	161.10	bu	61 -37	107 8	153 53	199 99	244 145	290 191	336 236	382 282	427 328	473 374	519 419
100	179.00	bu	126 26	176 77	227 128	278 179	329 229	380 280	431 331	481 382	532 433	583 484	634 534
110	196.90	bu	190 90	246 146	302 202	357 258	413 314	469 370	525 426	581 482	637 538	693 594	749 649
120	214.80	bu	254 154	315 215	376 276	437 337	498 398	559 459	620 520	681 581	742 642	803 703	864 764
130	232.70	bu	318 219	384 285	450 351	516 417	582 483	649 549	715 615	781 681	847 747	913 813	979 879
140	250.60	bu	382 283	453 354	525 425	596 496	667 567	738 639	809 710	880 781	952 852	1023 923	1094 995
150	268.50	bu	446 347	523 423	599 499	675 576	751 652	828 728	904 804	980 881	1056 957	1133 1033	1209 1110

The top number in each cell is Returns Above Direct Expenses.  
 The bottom number in each cell is Returns Above Total Specified Expenses.  
 Only the product listed has been varied to calculate net returns.  
 Note: Cost of production estimates are based on 2010 input prices.



## APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2011

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (250-299 hp)	265 hp	231,000	300	8	13.64	11.35	32.59	24.06	68.01	97.79	165.80
Combine (300-349 hp)	325 hp	251,000	300	8	16.73	11.35	39.98	26.14	77.48	106.26	183.74
Combine (350-399 hp)	355 hp	269,000	300	8	18.27	11.35	43.66	28.02	83.03	113.88	196.91
Combine (400-449 hp)	425 hp	302,000	300	8	21.87	11.35	52.28	31.45	95.09	127.85	222.94
Combine (450-499hp)	475 hp	337,000	300	8	24.44	11.35	58.43	35.10	104.88	142.66	247.55
Cotton Stripper	173 hp	145,000	200	8	8.08	11.35	19.31	22.65	53.31	92.07	145.39
Tractor( 20-39hp)CB	MFWD 30	23,500	600	8	1.54	11.35	3.69	0.73	15.77	4.57	20.34
Tractor( 20-39hp)RB	MFWD 30	17,600	600	8	1.54	11.35	3.69	0.55	15.59	3.42	19.01
Tractor( 40-59hp)CB	2WD 50	29,300	600	8	2.57	11.35	6.15	0.91	18.41	5.69	24.11
Tractor( 40-59hp)CB	MFWD 50	31,900	600	8	2.57	11.35	6.15	0.99	18.49	6.20	24.70
Tractor( 40-59hp)RB	2WD 50	22,500	600	8	2.57	11.35	6.15	0.70	18.20	4.37	22.58
Tractor( 40-59hp)RB	MFWD 50	26,600	600	8	2.57	11.35	6.15	0.83	18.33	5.17	23.50
Tractor( 60-89hp)CB	2WD 75	40,100	600	8	3.86	11.35	9.22	1.25	21.82	7.80	29.63
Tractor( 60-89hp)CB	MFWD 75	43,900	600	8	3.86	11.35	9.22	1.37	21.94	8.53	30.48
Tractor( 60-89hp)RB	2WD 75	32,100	600	8	3.86	11.35	9.22	1.00	21.57	6.24	27.82
Tractor( 60-89hp)RB	MFWD 75	35,900	600	8	3.86	11.35	9.22	1.12	21.69	6.98	28.68
Tractor( 90-119hp)CB	2WD 105	62,800	600	8	5.40	11.35	12.91	1.96	26.22	12.21	38.44
Tractor( 90-119hp)CB	MFWD 105	67,600	600	8	5.40	11.35	12.91	2.11	26.37	13.15	39.52
Tractor( 90-119hp)RB	2WD 105	48,600	600	8	5.40	11.35	12.91	1.51	25.78	9.45	35.23
Tractor( 90-119hp)RB	MFWD 105	53,400	600	8	5.40	11.35	12.91	1.66	25.93	10.38	36.32
Tractor(120-139hp)CB	2WD 130	85,400	600	8	6.69	11.35	15.99	2.66	30.01	16.61	46.62
Tractor(120-139hp)CB	MFWD 130	92,200	600	8	6.69	11.35	15.99	2.88	30.22	17.93	48.15
Tractor(140-159hp)CB	2WD 150	103,300	600	8	7.72	11.35	18.45	3.22	33.03	20.09	53.12
Tractor(140-159hp)CB	MFWD 150	109,900	600	8	7.72	11.35	18.45	3.43	33.23	21.37	54.61
Tractor(160-179hp)CB	2WD 170	109,400	600	8	8.75	11.35	20.91	3.41	35.68	22.21	57.90
Tractor(160-179hp)CB	MFWD 170	128,400	600	8	8.75	11.35	20.91	4.01	36.27	26.07	62.35
Tractor(180-199hp)CB	MFWD 190	127,500	600	8	9.77	11.35	23.37	3.98	38.70	25.89	64.60
Tractor(200-249hp)CB	MFWD 225	161,400	600	8	11.58	11.35	27.67	5.04	44.07	32.78	76.85
Tractor(200-249hp)CB	Track 225	201,400	600	8	11.58	11.35	27.67	6.29	45.32	40.90	86.22
Tractor(250-349hp)CB	4WD 300	196,500	600	8	15.44	11.35	36.90	6.14	54.39	39.90	94.30
Tractor(250-349hp)CB	MFWD 300	200,500	600	8	15.44	11.35	36.90	6.26	54.52	40.72	95.24
Tractor(250-349hp)CB	Track 300	214,200	600	8	15.44	11.35	36.90	6.69	54.94	43.50	98.45
Tractor(350-449hp)CB	4WD 400	231,800	600	8	20.58	11.35	49.20	7.24	67.80	47.07	114.88
Tractor(350-449hp)CB	Track 400	264,700	600	8	20.58	11.35	49.20	8.27	68.82	53.76	122.59
Tractor(450-550hp)CB	4WD 500	272,200	600	8	25.73	11.35	61.50	8.50	81.36	55.28	136.64
Tractor(450-550hp)CB	Track 500	288,300	600	8	25.73	11.35	61.50	9.00	81.86	58.55	140.42
Utility Vehicle	500 CC	6,200	200	8	0.40	11.35	1.04	0.96	13.36	3.93	17.29
Utility Vehicle	600 CC	9,500	200	8	0.50	11.35	1.30	1.48	14.13	6.03	20.17
Utility Vehicle	800 CC	10,800	200	8	0.70	11.35	1.82	1.68	14.86	6.85	21.72

## Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2011

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Backhoe	2WD Cab	75,200	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30 (250)	262,000	200	8	12.86	0.327	6.68	10.06	13.40	30.15	54.46	84.62
Cotton Picker	4R-30 (350)	350,000	200	8	18.01	0.327	6.68	14.09	17.90	38.68	72.76	111.44
Cotton Picker	4R-38 (255)	291,000	200	8	13.12	0.257	5.26	8.08	11.72	25.06	47.63	72.70
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.26	11.09	14.13	30.49	57.45	87.95
Cotton Picker	4R2x1 (350)	380,000	200	8	18.01	0.172	3.51	7.41	10.23	21.16	41.57	62.74
Cotton Picker	5R-30 (250)	285,000	200	8	12.86	0.261	5.34	8.05	11.66	25.06	47.39	72.46
Cotton Picker	5R-36 (250)	290,000	200	8	12.86	0.207	4.22	6.37	9.38	19.99	38.15	58.14
Cotton Picker	6R-30 (355)	418,000	200	8	18.27	0.218	4.45	9.53	14.25	28.24	57.93	86.17
Cotton Picker	6R-38 (355)	417,000	200	8	18.27	0.172	3.51	7.52	11.22	22.26	45.62	67.89
Cotton Picker/Module	4R-38 (365)	470,000	200	8	18.78	0.257	5.26	11.57	18.93	35.76	76.93	112.70
Cotton Picker/Module	6R-30 (365)	523,000	200	8	18.78	0.218	4.45	9.79	17.83	32.08	72.48	104.57
Cotton Picker/Module	6R-30 (500)	570,000	200	8	25.73	0.218	4.45	13.42	19.43	37.31	78.99	116.31
Cotton Picker/Module	6R-38 (365)	521,000	200	8	18.78	0.172	3.51	7.73	14.02	25.28	57.00	82.28
Cotton Picker/Module	6R-38 (500)	571,000	200	8	25.73	0.172	3.51	10.59	15.37	29.48	62.47	91.96
Dry Applicator SP	70'300cuft	257,000	350	8	16.98	0.015	0.23	0.61	0.20	1.06	1.40	2.47
Sprayer 110Gal	30' 50hp	44,000	350	8	2.41	0.035	0.55	0.20	0.08	0.84	0.56	1.40
Sprayer 300-450gal	60' 125hp	96,400	350	8	5.66	0.017	0.27	0.23	0.09	0.60	0.61	1.22
Sprayer 300-450gal	80' 125hp	98,700	350	8	6.43	0.013	0.20	0.20	0.06	0.48	0.47	0.95
Sprayer 600-750gal	60' 175hp	149,000	350	8	9.00	0.017	0.27	0.37	0.14	0.79	0.95	1.75
Sprayer 600-825gal	80' 175hp	149,000	350	8	11.81	0.013	0.20	0.37	0.10	0.68	0.71	1.40
Sprayer 600-825gal	90' 250hp	216,000	350	8	12.73	0.011	0.18	0.35	0.13	0.68	0.92	1.60
Sprayer 800gal	100' 250hp	217,000	350	8	14.15	0.010	0.16	0.35	0.12	0.64	0.83	1.48
Sprayer 800gal	80' 250hp	206,000	350	8	12.86	0.013	0.20	0.40	0.14	0.76	0.98	1.75
Sprayer 1000-1400gal	90' 275hp	240,000	350	8	14.15	0.010	0.16	0.35	0.13	0.66	0.92	1.58
Sprayer 1000gal	100' 300hp	242,000	350	8	15.44	0.010	0.16	0.39	0.13	0.69	0.92	1.62
Sprayer 1200+gal	120' 300hp	258,000	350	8	15.44	0.008	0.13	0.32	0.12	0.58	0.82	1.41
Utility Vehicle	20'	10,750	200	8	0.50	0.052	0.83	0.06	0.08	0.99	0.36	1.35
Utility Vehicle	75"ropewic	6,740	200	8	0.40	0.170	2.70	0.17	0.17	3.06	0.73	3.79

## Notes:

Labor: includes allocated labor plus any additional labor from self-propelled machine.

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011

Table with 14 columns: Item Name, Size, Power Unit, Purchase Price, Annual Use, Useful Life, Perf Rate, Labor, Fuel, ---R&M--- Imp. P.U. Direct, Total ---Fixed--- Imp. P.U. Cost. Rows include equipment types like Bed/Cond./Roll-Fold, Bolly Buggy, Chisel Plow-Folding, and Cultivate.

(continued)













Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2011 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Spray (Spot)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Spot)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Spot)	60'	MFWD 225	9,580	200	8	0.028	0.44	0.78	0.12	0.14	1.49	0.15	0.92	2.58
Stalk Shredder	14'	MFWD 150	12,000	200	10	0.117	1.33	2.17	1.23	0.40	5.15	0.77	2.51	8.44
Stalk Shredder	20'	MFWD 150	30,200	200	10	0.082	0.93	1.52	2.18	0.28	4.92	1.36	1.76	8.04
Stalk Shredder-Flail	12'	MFWD 150	14,400	200	10	0.137	1.56	2.53	1.73	0.47	6.30	1.08	2.93	10.32
Stalk Shredder-Flail	15'	MFWD 150	18,100	200	10	0.110	1.24	2.02	1.74	0.37	5.39	1.08	2.35	8.83
Stalk Shredder-Flail	18'	MFWD 150	22,700	200	10	0.091	1.04	1.69	1.82	0.31	4.86	1.13	1.95	7.96
Stalk Shredder-Flail	20'	MFWD 150	23,100	200	10	0.082	0.93	1.52	1.66	0.28	4.40	1.04	1.76	7.21
Stalk Shredder-Flail	25'	MFWD 150	30,800	200	10	0.066	0.74	1.21	1.77	0.22	3.97	1.11	1.41	6.49
Strip Till	12R-30	MFWD 225	28,600	150	10	0.061	0.69	1.70	0.76	0.31	3.47	1.28	2.01	6.78
Subsoiler	3 shank	MFWD 190	3,360	100	15	0.204	2.31	4.77	0.22	0.81	8.13	0.59	5.29	14.02
Subsoiler	4 shank	MFWD 225	6,390	100	15	0.153	1.74	4.25	0.32	0.77	7.09	0.84	5.03	12.98
Subsoiler	5 shank	MFWD 225	6,610	100	15	0.122	1.38	3.38	0.26	0.61	5.66	0.69	4.01	10.37
Subsoiler low-till	4 shank	MFWD 225	1,060	100	15	0.153	1.74	4.25	0.05	0.77	6.82	0.14	5.03	12.00
Subsoiler low-till	6 shank	MFWD 225	15,100	100	15	0.102	1.15	2.82	0.51	0.51	5.01	1.33	3.34	9.69
Subsoiler low-till	8 shank	MFWD 225	18,000	100	15	0.076	0.86	2.11	0.45	0.38	3.83	1.18	2.50	7.52
TerraTill Bed w/roll	4R-30	MFWD 225	14,300	150	12	0.204	2.31	5.65	1.05	1.03	10.06	1.90	6.69	18.66
TerraTill Bed w/roll	4R-38	MFWD 225	14,300	150	12	0.160	1.82	4.45	0.83	0.81	7.92	1.49	5.27	14.69
TerraTill Bed w/roll	6R-38	MFWD 225	19,400	150	12	0.107	1.22	2.97	0.75	0.54	5.49	1.35	3.52	10.37

## Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Manzate 75 DF	lb	3.48
Crop Oil Conc.(Pet.)	pt	1.41	Manzate Flowable	pt	4.60
Crop Oil Conc.(Veg.)	pt	3.33	Moncut 70 DF	lb	24.85
Drift/Defoamer	pt	5.75	Prevail	lb	27.24
Spreader Sticker	pt	3.77	Provost	oz	2.16
Surfactant	pt	2.44	Quadris	oz	2.52
CLEANING			Quadris Ridomil Gold	oz	3.26
Cleaning Peanuts	ton	18.00	Quilt	pt	20.25
CROP CONSULTANT			Ridomil Gold PC GR	lb	2.24
Rice Consultant	acre	7.50	Rovral 4F	pt	17.83
CUSTOM FERTILIZE			Stiletto	oz	0.56
App Fert by Air	cwt	6.25	Stratego	pt	17.77
App Fert by Air(Min)	appl	6.25	Terrachlor 2EC	pt	1.87
Custom Apply Fert	acre	6.25	Terraclor Super X G	lb	2.82
CUSTOM LIME			Tilt 3.6 EC	oz	2.15
Lime (Spread)	ton	46.00	Tilt/ Bravo SE	oz	0.45
CUSTOM PLANT			Uniform	oz	2.96
Custom Plant	acre	7.00	Vitavax 200	oz	0.47
Custom Plant Air	cwt	6.25	Vitavax RTU-Thiram	oz	0.35
CUSTOM SPRAY			GINNING		
App by Air ( 2 gal)	appl	3.50	Gin & Haul	lb	0.09
App by Air ( 3 gal)	appl	4.00	GROWTH REGULATORS		
App by Air ( 5 gal)	appl	5.50	Early Harvest PGR	oz	1.55
App by Air (10 gal)	appl	7.25	Mepex	oz	0.10
Custom Spray	acre	6.00	Mepex Gin Out	oz	0.23
DRYING			Mepichlor 4.2% Liq	oz	0.25
Dry Corn	bu	0.19	Mepiquat	oz	0.08
Dry Grain Sorghum	cwt	0.25	Mepiquat Extra	oz	0.10
Dry Peanuts	ton	24.00	Pentia	pt	4.36
Dry Rice	bu	0.40	PGR IV	oz	1.55
ERADICATION FEE			Stance	oz	1.10
Eradication	acre	2.00	SuperBoll	pt	3.07
FERTILIZERS			HARVEST AIDS		
Amm Nitrate (34% N)	cwt	18.00	Aim 2EC	oz	6.56
Amm Sulfate (21% N)	cwt	14.00	Ammonium Sulfate	lb	0.14
Anhy Ammonia (82%)	cwt	28.00	Boll Buster	pt	3.27
Boron 15G	lb	0.42	CottonQuik	pt	4.25
Boron Plus	pt	3.99	Def 6	pt	6.50
DAP	cwt	25.00	Def/Folex	pt	6.53
Fert 10-34-0	cwt	22.00	Defol 3	gal	3.35
Fert 11-37-0	cwt	23.50	Defol 5	gal	5.82
Fert 33-0-0-12s	cwt	19.00	Defol 6	gal	4.69
Fert 41-0-0-4	cwt	18.50	Defol 750	pt	1.22
MAP	cwt	27.00	Dropp 50 WP	lb	45.45
Phosphorus(46% P2O5)	cwt	22.00	Dropp SC	oz	1.74
Potash (60% K2O)	cwt	23.00	ET	pt	43.31
Sulfur 90%	lb	0.20	Ethephon 6E	pt	2.85
Sulfur Plus	pt	2.37	Finish 6	pt	7.29
UAN (32% N)	cwt	12.50	First Pick	pt	3.21
UAN + Sulfur (28%)	cwt	12.00	Folex 6EC	pt	6.56
Urea, Solid (46% N)	cwt	19.00	Freefall SC	oz	1.52
Zinc Sulfate 31%	lb	0.55	Ginstar EC	pt	27.36
FUNGICIDES			Gramoxone Inteon	oz	0.25
Abound	pt	29.97	Gramoxone Max	pt	5.46
Absolute 500SC	pt	53.42	Harvade 5F	oz	0.67
Allegiance Flowable	pt	49.74	Prep	pt	3.19
Apron Maxx RTA	oz	0.74	Shed-a-leaf	gal	3.60
Apron Maxx RTA+Moly	pt	15.01	Sodium Chlorate 3L	gal	3.35
Apron XL LS	oz	8.51	Sodium Chlorate 5L	gal	5.82
Artisan	oz	.85	Sodium Chlorate 6L	gal	4.69
Bravo Ultrex	lb	6.83	TDZ SC	oz	1.37
Bravo Weather Stick	pt	5.69	Thidiazuron 4lb	oz	1.74
Captan 50 WP	lb	5.62	Tribufos 6lb	pt	6.53
Cotton Seed Trt.	acre	20.00	HAULING		
Dithane F-45	qt	7.11	Haul Corn/Bin	bu	0.18
Dithane Rainshield	lb	2.54	Haul Corn/Field	bu	0.26
Folicur 3.6	oz	1.08	Haul Cotton	lb	0.02
Fungicide	lb	2.82	Haul Peanuts	ton	14.50
Gem 25 WG	oz	3.70	Haul Rice/Bin	bu	0.18
Headline	oz	2.60			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.27	Expert	pt	3.68
Haul Sorghum/Bin	bu	0.18	Facet 75DF	lb	49.92
Haul Sorghum/Field	bu	0.26	Finesse	oz	16.36
Haul Soybeans/Bin	bu	0.18	First Rate	oz	37.48
Haul Soybeans/Field	bu	0.26	Flexstar HL	pt	15.24
Haul Wheat/Bin	bu	0.18	FloMet 4L	pt	4.74
Haul Wheat/Field	bu	0.26	Flomet DF	lb	6.61
HERBICIDES			Fluometuron 4lb	pt	4.81
2,4-D Amine 4	pt	1.74	Frontier 6.0	oz	0.63
2,4-D LV 4Ester	pt	2.10	Fultime	pt	4.27
2,4-D Weedar 64	pt	1.72	Fusilade DX	oz	1.46
2,4-DB 200	pt	4.34	Fusion	pt	23.84
AAtrex 4L	pt	2.58	Glyphos	pt	1.66
AAtrex NINE-O	lb	4.57	Glyphos Xtra	pt	1.69
Accent Gold	oz	6.12	Glyphosate 3lbs a.e.	pt	1.75
Accent Q	oz	28.05	Glyphosate 3lbs a.e.	oz	0.11
Accent SP	oz	29.01	Glystar	pt	1.66
Aim 2EC	oz	6.56	Glystar Plus	pt	1.69
Assure II	oz	1.08	Goal 2XL	pt	9.58
Atrazine 4L	pt	2.10	Gramoxone Inteon	oz	0.25
Atrazine 90DF	lb	4.14	Gramoxone Max	pt	5.46
Axial	pt	14.08	Grandstand R	qt	25.10
Axiom 68DF	lb	25.74	Guardman Max	pt	6.29
Banvel	pt	6.31	Halex GT	pt	5.29
Basagran	pt	12.16	Harmony Extra SG	oz	12.76
Basis Gold	lb	9.00	Harmony Extra XP	oz	11.75
Beacon 75% WSP	oz	31.45	Harmony GT	oz	19.35
Beyond	oz	4.47	Harness	pt	11.88
Bicep II	pt	4.00	Harness XTRA	pt	7.31
Bicep II Magnum	qt	10.57	Hoelon 3EC	pt	11.03
Bicep Lite Magnum	pt	7.07	Honcho Plus	pt	3.98
Blazer Ultra	pt	8.56	Hornet WDG	lb	65.62
Bolero 8EC	pt	5.73	Ignite 280	pt	6.57
Boundary 6.5 EC	pt	10.09	Impact	oz	21.39
Buccaneer Plus	pt	1.81	Karmex XP	lb	6.41
Buctril 2EC	pt	15.80	Lariat	qt	5.71
Buctril 4EC	pt	16.40	Layby Pro	qt	11.68
Bullet	pt	2.97	Lexar	pt	5.56
Butoxone 200(2,4-DB)	pt	4.04	Liberty	pt	8.31
Butyrac 200 (2,4-DB)	pt	4.09	Lightning	oz	13.28
Cadre	oz	4.20	Linex 4L	pt	8.65
Callisto 4SC	oz	4.63	Londax 60DF	oz	14.29
Canopy 75%	oz	3.15	Lorox 50DF	lb	18.83
Canopy EX	oz	6.31	Me-Too-Lachlor	pt	6.43
Caparol 4L	pt	3.36	MSMA 6.6	pt	2.69
Celebrity Plus	lb	84.50	MSMA6 Plus	pt	2.63
Clarity	pt	11.86	Newpath 2SL	oz	3.84
Classic	oz	14.55	Option	oz	9.92
Clearpath	lb	59.94	Ordram 15-GM	lb	1.34
Clincher SF	oz	1.98	Ordram 8-E	pt	9.42
Cobra 2EC	oz	1.26	Osprey	oz	3.27
Command 3ME	pt	15.45	Outlook	pt	21.29
Cornerstone Plus	pt	1.50	Parrlay	pt	9.15
Cotoran 4L	pt	4.88	Peak Accu Pak	oz	12.63
Cotoran DF	lb	7.92	Pendimax 3.3	pt	2.47
Cotton Pro	pt	3.13	Permit 75 DF	oz	19.00
Credit Extra	pt	1.69	Poast 1.53	pt	9.47
Direx 4L	pt	3.54	Poast Plus	pt	7.37
Diuron 4L	pt	2.91	Prefix	pt	6.13
Diuron 80 DF	lb	4.55	Prometryne	pt	2.87
Diuron 80%	lb	4.55	Propimax EC	pt	36.08
DSMA 3.6lb Liq	pt	1.24	Prowl 3.3 EC	pt	4.29
Dual II Magnum	pt	13.26	Prowl H20	pt	4.65
Dual Magnum	pt	12.64	Pursuit 2S	oz	4.56
Duet	pt	4.39	Pursuit DG	oz	11.59
Envoke	oz	82.50	Pursuit Plus EC	pt	7.10
Equip	oz	10.65	Python WDG	oz	12.48
Evik DF 80W	lb	8.66	Raptor	oz	4.62
Exceed	oz	10.71			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Reflex 2LC	pt	14.68	Confirm 2F	oz	1.62
Regiment 80WP	oz	35.02	Counter 15G	lb	2.58
Remedy Ultra	pt	11.86	Cruiser 5FS	oz	13.25
Resource .86EC	pt	23.91	Curacron 8E	pt	10.37
RicePro	pt	4.50	Cypermethrin	oz	0.63
Riceshot	pt	2.98	Declare	pt	4.08
Ricestar HT	pt	20.64	Delta Gold	pt	40.47
Rifel	pt	5.66	Denim 0.16 EC	pt	26.42
Roundup Original Max	oz	0.45	Di-Syston 15G	lb	3.48
Roundup Original Max	pt	7.25	Di-Syston 8	pt	14.32
Roundup Power Max	oz	0.26	Diamond .83EC	pt	16.28
Roundup PowerMax	pt	4.14	Dimethoate 4E	pt	5.63
Roundup WeatherMax	oz	0.28	Dimilin 2L	oz	1.73
Roundup WeatherMax	pt	4.43	Dipel DF	lb	11.75
Scepter 70 DG	oz	3.81	Dipel ES	pt	4.56
Select 2EC	oz	1.53	Discipline 2 EC	oz	0.78
Select Max	pt	16.95	Endigo ZC	pt	25.82
Sencor 4F	pt	14.74	Fanfare 2EC	oz	0.78
Sencor DF	lb	14.85	Force 3G	lb	5.06
Sequence	pt	5.57	Furadan 4F	pt	10.36
Simazine 4L	pt	2.95	Gaicho 600	oz	6.56
Stalwart	pt	5.87	Hero	pt	22.11
Stam 80 EDF	lb	5.30	Holster	pt	8.76
Stam M4	qt	6.93	Imidan 70 WSB	oz	0.60
Staple	oz	16.01	Incidental Pest Trt	acre	12.00
Staple LX	oz	7.09	Intrepid 2F	oz	1.66
Steadfast	oz	22.59	Intruder 70WSP	oz	8.43
Sterling Blue	pt	9.48	Karate Z	oz	2.87
Storm	pt	11.18	Kelthane MF 4EC	pt	5.03
Strada WG	oz	5.94	Lannate LV	pt	8.81
Strongarm	oz	43.49	Lannate SP	oz	1.69
Superwham	qt	7.62	Larvin 3.2	oz	0.57
Suprend	lb	11.18	Leverage 2.7	oz	1.37
Surpass EC	qt	23.75	Lorsban 15G	lb	1.80
Synchrony XP	oz	9.47	Lorsban 4E	pt	6.20
Touchdown HiTech	qt	9.12	Malathion 57EC	pt	4.23
Touchdown Total	qt	7.66	Malathion 5E	pt	4.09
Treflan HFP	pt	3.16	Malathion 8E	pt	5.50
Treflan TR-10	lb	0.92	Methyl 4EC	pt	4.84
Trifluralin 4EC	pt	2.97	Methyl Parathion 4	pt	4.63
Ultra Blazer	pt	9.19	Monitor 4	pt	16.33
Valor SX	oz	4.72	Mustang Max	oz	1.30
Valor XLT	oz	3.59	Oberon 4 SC	pt	71.82
Weedone LV4	pt	2.97	Orthene 90S	lb	3.25
Whip 360	pt	25.08	Pennacap-M	pt	3.50
Zorial Rapid 80DF	lb	13.95	Phorate	lb	2.69
INOCULANT			Pounce 25WP	lb	10.63
Vault	oz	1.65	Prolex	oz	2.94
Optimize Lift	oz	.56	Provado 1.6F	oz	1.94
INSECT SCOUTING			Respect .8EC	pt	29.04
Insect Scouting	acre	7.00	Sevin 4F	pt	4.97
INSECTICIDES			Sevin 80S	lb	7.35
Acephate 90%	lb	8.21	Sevin XLR Plus	qt	10.56
Acephate 90SP	lb	6.46	Sniper	oz	0.86
Acramite-4SC	oz	1.37	Steward	pt	25.71
Ambush 2E	oz	0.27	Temik 15G Grit	lb	3.80
Ammo 2.5 EC	oz	0.92	Temik 15G Gypsum	lb	3.14
Asana .66 XL	oz	0.68	Thimet 20-G Lock N L	lb	2.84
Aztec 2.1% G	lb	2.84	Thionex 3 EC	pt	3.47
Baythroid XL	oz	2.17	Thionex 50W	lb	8.20
Bidrin 8WM	oz	0.85	Tombstone 2E	pt	29.00
Bidrin XP	oz	1.84	Tracer 4SC	oz	7.64
Bifenture 2EC	pt	12.50	Trimax	oz	3.11
Brigade EC	pt	15.10	Trimax Pro	oz	2.73
Brigade WSB	lb	21.00	Vydate C-LV	oz	0.62
Capture 2EC	oz	1.50	Warrior Z	oz	1.85
Carbaryl 4L	pt	4.34	Wrangler	oz	1.70
Carbine 50WG	oz	4.44	Zeal	oz	18.06
Centric 40WG	oz	4.22	Zephyr	oz	2.79
Comite 1l	pt	6.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2011 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
IRRIGATION SUPPLIES			Soybean Seed LL	lb	0.89
Roll-Out Pipe	ft	0.20	Soybean Seed RR	lb	0.99
SEED/PLANTS			Soybean Seed Stack	lb	1.28
Corn Seed BtRR	thous	2.90	Wheat Seed Private	lb	0.27
Corn Seed RR	thous	2.56	SURVEY & MARK LEVEES		
Corn Seed VT3	thous	2.84	Survey & Mark Levees	acre	4.50
Corn Seed VT3Pro	thous	3.12	Survey & Mark Levees	acre	3.50
Cotton Seed B2RF	thous	0.61	TECHNOLOGY FEE		
Cotton Seed LL	thous	1.05	B2 Tech Fee	thous	.76
Cotton Seed LLB2	thous	1.53	B2 Tech Fee	cap/ac	35.25
Cotton Seed RF	thous	0.57	B2RF Tech Fee	thous	1.49
Cotton Seed W	thous	0.49	B2RF Tech Fee	cap/ac	69.25
Cotton Seed WRF	thous	0.59	RF Cotton Tech Fee	thous	1.04
Peanut Seed	lb	0.75	RF Cotton Tech Fee	cap/ac	48.25
Rice Clearfield	lb	0.89	WS Cotton Tech Fee	thous	.41
Rice Clearfield Hyb	lb	5.44	WS Cotton Tech Fee	cap/ac	24.00
Rice Conv. Hybrid	lb	2.61	WRF Cotton Tech Fee	thous	1.45
Rice Seed (Levees)	lb	0.36			
Rice Seed CF(Levees)	lb	0.89			
Rice Seed CFH(Levee)	lb	1.74			
Rice Seed Conv.	lb	0.36			
Sorghum Concept	lb	1.77			
Sorghum Hybrid Sudax	lb	1.20			



Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2011

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.39
Gasoline	gal	2.61
LP Gas	gal	2.50
INTEREST RATES		
Short-term	%	4.33
Intermediate-term	%	5.50

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2011

Item name		
LABOR TYPES		
		WAGE RATE (\$/HR)
OPERATOR LABOR	hour	11.35
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06
CROP ENTERPRISE		
		UNALLOCATED LABOR MULTIPLIERS (%)
Corn		90
Cotton		80
Grain Sorghum		90
Peanuts		80
Rice		90
Soybeans		90
Wheat		80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2011

	Unit	Futures Contract Month	Futures Contract Price <sup>a</sup>	Basis <sup>b</sup>	Forward Contract Price <sup>c</sup>	Loan Rate <sup>d</sup>	Budget Price <sup>e</sup>
Corn	bu	Dec '11	5.12	-0.2712	4.85	2.08	4.85
Cotton Lint	lb	Dec '11	0.872	-0.0264	0.846	.524	0.846
Cottonseed	lb						0.069 <sup>f</sup>
Grain Sorghum	bu				4.56	2.02	4.56
Peanuts	ton				550.00	355.00	550.00
Soybeans	bu	Nov '11	11.32	-0.3070	11.00	5.17	11.00
Rice	bu	Sep '11	6.44	-0.7570	5.68	2.96	5.68
Wheat	bu	Jul '11	7.45	-0.6942	6.75	1.90	6.75

<sup>a</sup> Average of the futures contract month closings in October.

<sup>b</sup> The basis is computed by subtracting the 2001-2010 average near futures contract month closings in October from the daily spot cash prices reported in October.  
Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

<sup>c</sup> The forward contract price for cotton, soybeans, corn, wheat, and rice is the futures contract price plus the basis. The forward contract price for grain sorghum is 94% of the forward contract price for corn. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

<sup>d</sup> Average Mississippi loan rate for the 2010 crop year for soybeans, corn, grain sorghum, and wheat. 2010 Mississippi base loan rate for the Delta area for cotton. 2010 Mississippi loan rate for long grain rice. 2010 national average loan rate for peanuts.

<sup>e</sup> Price used in the 2011 MAFES Planning Budgets.

<sup>f</sup> Cottonseed price is the marketing year average price averaged over the years 2005-2009, Agricultural Prices Summary, USDA.

Appendix Table 8. Estimated costs for field operations, per acre  
 Contour levee rice flood irrigation system  
 80-acre system, 33 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.34	0.08	0.18			0.01	0.61	0.54 1.15
Survey & Mark Levees	acre	4.50						0.10	4.60	4.60
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.90	0.23	0.49			0.04	1.66	1.44 3.10
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.34 0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Install Gates										
IRRIGATE LABOR	hour				2.72			0.06	2.78	2.78
Apply Water										
IRRIGATE LABOR	hour				6.80			0.15	6.95	6.95
Apply Water										
IRRIGATE LABOR	hour				6.80			0.12	6.92	6.92
Apply Water										
IRRIGATE LABOR	hour				6.80			0.10	6.90	6.90
Apply Water										
IRRIGATE LABOR	hour				6.80			0.07	6.87	6.87
Remove Gates										
IRRIGATE LABOR	hour				0.91			0.01	0.92	0.92
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.61	0.16	0.38			0.01	1.16	0.92 2.08
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.23	0.06	0.14				0.43	0.34 0.77
Land Forming (\$75)	each									7.27 7.27
Levee Gates	each									0.44 0.44
Well & Pump, Flood	each			4.80				0.09	4.89	14.91 19.80
Engine, Rice CL, 75	each									12.34 12.34
May Irrigation	ac-in		11.68	1.01				0.27	12.96	12.96
June Irrigation	ac-in		17.52	1.51				0.34	19.37	19.37
July Irrigation	ac-in		17.52	1.51				0.27	19.30	19.30
August Irrigation	ac-in		17.52	1.51				0.21	19.24	19.24
TOTALS		4.50	66.64	10.93	33.38	0.00	1.88	117.33	38.54	155.87

Note: Cost of production estimates are based on 2010 input prices.

Appendix Table 9. Estimated costs for field operations, per acre  
 Straight levee rice flood irrigation system  
 80-acre system, 27 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Survey & Mark Levees	acre	2.25						0.05	2.30	2.30
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.67	0.17	0.36			0.03	1.23	1.08 2.31
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.34 0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Install Gates										
IRRIGATE LABOR	hour				1.36			0.03	1.39	1.39
Apply Water										
IRRIGATE LABOR	hour				4.53			0.10	4.63	4.63
Apply Water										
IRRIGATE LABOR	hour				4.53			0.08	4.61	4.61
Apply Water										
IRRIGATE LABOR	hour				4.53			0.07	4.60	4.60
Apply Water										
IRRIGATE LABOR	hour				4.53			0.05	4.58	4.58
Remove Gates										
IRRIGATE LABOR	hour				0.91			0.01	0.92	0.92
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.46	0.11	0.28			0.01	0.86	0.68 1.54
Land Forming (\$300)	each								29.07	29.07
Levee Gates	each								0.44	0.44
Well & Pump, Flood	each			4.80				0.09	4.89	14.91 19.80
Engine, Rice SL, 75	each								12.34	12.34
May Irrigation	ac-in		11.68	1.23				0.28	13.19	13.19
June Irrigation	ac-in		13.63	1.43				0.27	15.33	15.33
July Irrigation	ac-in		13.63	1.43				0.22	15.28	15.28
August Irrigation	ac-in		13.63	1.43				0.16	15.22	15.22
TOTALS		2.25	54.02	10.66	22.39	0.00	1.48	90.80	58.86	149.66

Note: Cost of production estimates are based on 2010 input prices.

Appendix Table 10. Estimated costs for field operations, per acre  
 Straight levee rice multi inlet flood irrigation system  
 80-acre system, 23 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Survey & Mark Levees	acre	2.25						0.05	2.30	2.30
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.67	0.17	0.36			0.03	1.23	1.08 2.31
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.34 0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Ditcher (1m/160a)			0.15	0.05	0.11			0.01	0.32	0.18 0.50
Roll-Out Pipe	ft	6.60						0.14	6.74	6.74
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.20	0.05	0.37			0.01	0.63	0.49 1.12
Install Gates										
IRRIGATE LABOR	hour				1.36			0.03	1.39	1.39
Apply Water										
IRRIGATE LABOR	hour				1.81			0.04	1.85	1.85
Apply Water										
IRRIGATE LABOR	hour				1.81			0.03	1.84	1.84
Apply Water										
IRRIGATE LABOR	hour				1.81			0.03	1.84	1.84
Apply Water										
IRRIGATE LABOR	hour				1.81			0.02	1.83	1.83
Remove Gates										
IRRIGATE LABOR	hour				0.45				0.45	0.45
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.46	0.11	0.28			0.01	0.86	0.68 1.54
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.10	0.03	0.18				0.31	0.24 0.55
Land Forming (\$300)	each									29.07 29.07
Levee Gates	each									0.22 0.22
Well & Pump, Flood	each			4.80				0.09	4.89	14.91 19.80
Engine, Mult In Rice	each									12.34 12.34
May Irrigation	ac-in		9.73	1.15				0.24	11.12	11.12
June Irrigation	ac-in		11.68	1.38				0.24	13.30	13.30
July Irrigation	ac-in		11.68	1.38				0.19	13.25	13.25
August Irrigation	ac-in		11.68	1.38				0.14	13.20	13.20
TOTALS		8.85	46.67	10.56	11.71	0.00		1.33	79.12	59.55 138.67

Note: Cost of production estimates are based on 2010 input prices.

Appendix Table 11. Estimated costs for field operations, per acre  
 Straight levee rice - zero grade flood irrigation  
 80-acre system, 19 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Apply Water										
IRRIGATE LABOR	hour				2.27			0.05	2.32	2.32
Apply Water										
IRRIGATE LABOR	hour				2.27			0.04	2.31	2.31
Apply Water										
IRRIGATE LABOR	hour				2.27			0.03	2.30	2.30
Apply Water										
IRRIGATE LABOR	hour				2.27			0.02	2.29	2.29
Land Forming (\$300)	each								29.07	29.07
Well & Pump, Flood	each			4.80				0.09	4.89	14.91
Engine, Rice SL, 75	each								12.34	12.34
May Irrigation	ac-in		7.79	0.82				0.19	8.80	8.80
June Irrigation	ac-in		9.73	1.02				0.19	10.94	10.94
July Irrigation	ac-in		9.73	1.02				0.16	10.91	10.91
August Irrigation	ac-in		9.73	1.02				0.12	10.87	10.87
TOTALS		0.00	36.98	8.68	9.53	0.00	0.90	56.09	56.32	112.41

Note: Cost of production estimates are based on 2010 input prices.

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