

**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

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

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	-140 -240	-118 -218	-96 -196	-73 -174	-51 -151	-29 -129	-7 -107	14 -85	36 -63	58 -41	81 -19	
60	93.60	bu	-84 -184	-57 -158	-31 -131	-4 -104	21 -78	48 -51	75 -25	101 1	128 28	154 54	181 81	
70	109.20	bu	-28 -128	2 -97	33 -66	64 -35	95 -4	126 26	157 57	188 88	219 119	250 150	281 181	
80	124.80	bu	27 -72	62 -37	98 -1	133 33	169 69	204 104	240 139	275 175	310 210	346 246	381 281	
90	140.40	bu	83 -16	123 23	163 62	202 102	242 142	282 182	322 222	362 262	402 302	442 342	482 381	
100	156.00	bu	139 39	183 83	227 127	272 172	316 216	360 260	405 304	449 349	493 393	537 437	582 482	
110	171.60	bu	195 95	243 143	292 192	341 241	390 289	438 338	487 387	536 436	585 484	633 533	682 582	
120	187.20	bu	251 150	304 204	357 257	410 310	463 363	516 416	570 469	623 523	676 576	729 629	782 682	
130	202.80	bu	307 206	364 264	422 322	479 379	537 437	594 494	652 552	710 610	767 667	825 725	882 782	
140	218.40	bu	362 262	424 324	486 386	549 448	611 510	673 572	735 634	797 696	859 759	921 821	983 883	
150	234.00	bu	418 318	485 385	551 451	618 518	684 584	751 651	817 717	884 783	950 850	1016 916	1083 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
PERCENT	YIELD	UNIT	-----dollars-----										
50	82.00	bu	-97 -194	-74 -171	-50 -147	-27 -124	-4 -101	18 -77	42 -54	65 -31	88 -8	112 15	135 38
60	98.40	bu	-38 -135	-10 -107	17 -79	45 -51	73 -23	101 4	128 32	156 59	184 87	212 115	240 143
70	114.80	bu	20 -76	52 -44	85 -11	117 20	150 53	183 86	215 118	248 151	280 183	313 216	346 249
80	131.20	bu	78 -18	116 19	153 56	190 93	227 130	265 168	302 205	339 242	376 280	414 317	451 354
90	147.60	bu	137 40	179 82	221 124	263 166	305 208	347 250	389 292	431 334	473 376	514 418	556 459
100	164.00	bu	196 99	243 146	289 192	336 239	382 285	429 332	475 379	522 425	569 472	615 518	662 565
110	180.40	bu	255 158	306 209	357 260	408 312	460 363	511 414	562 465	613 516	665 568	716 619	767 670
120	196.80	bu	314 217	369 273	425 328	481 384	537 440	593 496	649 552	705 608	761 664	817 720	872 776
130	213.20	bu	372 275	433 336	493 397	554 457	615 518	675 578	736 639	796 699	857 760	917 820	978 881
140	229.60	bu	431 334	496 399	562 465	627 530	692 595	757 660	822 725	888 791	953 856	1018 921	1083 986
150	246.00	bu	490 393	560 463	630 533	700 603	769 672	839 742	909 812	979 882	1049 952	1119 1022	1189 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	-169	-143	-118	-93	-67	-42	-16	8	33	59
			-294	-268	-243	-218	-192	-167	-141	-116	-90	-65	-40
60	107.40	bu	-130	-100	-69	-39	-8	21	52	82	113	143	174
			-230	-199	-169	-138	-108	-77	-47	-16	13	44	74
70	125.30	bu	-66	-30	4	40	75	111	147	182	218	253	289
			-165	-130	-94	-59	-23	12	47	83	118	154	189
80	143.20	bu	-2	38	79	119	160	201	241	282	323	363	404
			-101	-61	-20	20	60	101	142	182	223	264	304
90	161.10	bu	61	107	153	199	244	290	336	382	427	473	519
			-37	8	53	99	145	191	236	282	328	374	419
100	179.00	bu	126	176	227	278	329	380	431	481	532	583	634
			26	77	128	179	229	280	331	382	433	484	534
110	196.90	bu	190	246	302	357	413	469	525	581	637	693	749
			90	146	202	258	314	370	426	482	538	594	649
120	214.80	bu	254	315	376	437	498	559	620	681	742	803	864
			154	215	276	337	398	459	520	581	642	703	764
130	232.70	bu	318	384	450	516	582	649	715	781	847	913	979
			219	285	351	417	483	549	615	681	747	813	879
140	250.60	bu	382	453	525	596	667	738	809	880	952	1023	1094
			283	354	425	496	567	639	710	781	852	923	995
150	268.50	bu	446	523	599	675	751	828	904	980	1056	1133	1209
			347	423	499	576	652	728	804	881	957	1033	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

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-----							
Bed/Cond./Roll-Fold.	26'	MFWD 190	21,900	160	10	0.072	0.81	1.68	0.39	0.28	3.18	1.07	1.86	6.13
Bed/Cond./Roll-Fold.	30'	MFWD 190	30,400	160	10	0.062	0.70	1.46	0.47	0.24	2.89	1.29	1.61	5.81
Bed/Cond./Roll-Fold.	40'	MFWD 225	30,700	160	10	0.046	0.53	1.29	0.35	0.23	2.42	0.98	1.53	4.94
Bed/Cond./Roll-Rigid	21'	MFWD 190	16,500	160	10	0.089	1.01	2.08	0.36	0.35	3.82	1.00	2.31	7.14
Bed/Cond./Roll-Rigid	26'	MFWD 190	18,800	160	10	0.072	0.81	1.68	0.33	0.28	3.13	0.92	1.86	5.92
Bedder Roller Fold.	8R-38	MFWD 190	23,000	160	10	0.074	0.84	1.73	0.42	0.29	3.29	1.16	1.91	6.37
Bedder Roller Fold.	12R-30	MFWD 225	24,800	160	10	0.062	0.70	1.72	0.38	0.31	3.14	1.05	2.04	6.25
Bedder Roller-Fold.	12R-38	MFWD 225	27,000	160	10	0.049	0.56	1.36	0.33	0.24	2.50	0.91	1.61	5.03
Bedder Roller-Fold.	16R-30	MFWD 225	28,200	160	10	0.046	0.53	1.29	0.33	0.23	2.39	0.90	1.53	4.83
Bedder Roller-Rigid	8R-38	MFWD 190	17,100	160	10	0.074	0.84	1.73	0.31	0.29	3.18	0.86	1.91	5.97
Blade-Box	6'-7'	2WD 130	1,000	200	20	0.020	0.22	0.31	0.00	0.05	0.60	0.00	0.33	0.94
Blade-Box	8'-10'	2WD 50	4,440	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	2WD 50	6,170	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	2WD 50	1,150	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	2WD 50	3,060	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	2WD 50	5,930	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-30(250)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-30(325)	MFWD 190	23,000	200	10	0.327	3.71	7.65	1.88	1.30	14.55	3.97	8.47	27.00
Boll Buggy	4R-38(255)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R-38(325)	MFWD 190	23,000	200	10	0.257	2.92	6.02	1.48	1.02	11.46	3.12	6.67	21.26
Boll Buggy	4R2x1(350)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy	5R-30(255)	MFWD 190	23,000	200	10	0.261	2.97	6.12	1.50	1.04	11.64	3.17	6.78	21.60
Boll Buggy	5R-38(250)	MFWD 190	23,000	200	10	0.207	2.35	4.84	1.19	0.82	9.21	2.51	5.36	17.09
Boll Buggy	6R-30(325)	MFWD 190	23,000	200	10	0.218	2.47	5.10	1.25	0.86	9.70	2.64	5.65	18.00
Boll Buggy	6R-38(330)	MFWD 190	23,000	200	10	0.172	1.95	4.02	0.99	0.68	7.66	2.09	4.46	14.21
Boll Buggy-Stripper	13' Bcast	MFWD 150	23,000	200	10	0.251	2.85	4.64	1.44	0.86	9.81	3.05	5.38	18.25
Boll Buggy-Stripper	16' Bcast	MFWD 150	23,000	200	10	0.204	2.32	3.77	1.17	0.70	7.97	2.48	4.37	14.83
Boll Buggy-Stripper	19' Bcast	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	4R-36	MFWD 150	23,000	200	10	0.272	3.09	5.03	1.56	0.93	10.63	3.30	5.83	19.77
Boll Buggy-Stripper	4R-38	MFWD 150	23,000	200	10	0.257	2.92	4.75	1.48	0.88	10.05	3.12	5.51	18.68
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	5R-30	MFWD 150	23,000	200	10	0.261	2.97	4.83	1.50	0.89	10.21	3.17	5.59	18.98
Boll Buggy-Stripper	5R-38	MFWD 150	23,000	200	10	0.207	2.35	3.82	1.19	0.71	8.07	2.51	4.42	15.02
Boll Buggy-Stripper	6R-30	MFWD 150	23,000	200	10	0.218	2.47	4.02	1.25	0.74	8.50	2.64	4.66	15.82
Boll Buggy-Stripper	6R-38	MFWD 150	23,000	200	10	0.172	1.95	3.17	0.99	0.59	6.71	2.09	3.68	12.49
Boll Buggy-Stripper	8R-30	MFWD 150	23,000	200	10	0.163	1.85	3.02	0.94	0.56	6.38	1.98	3.49	11.86
Boll Buggy-Stripper	8R-36/38	MFWD 150	23,000	200	10	0.129	1.46	2.38	0.74	0.44	5.04	1.56	2.76	9.38
Chisel Plow-Folding	16'	2WD 130	19,900	150	12	0.115	1.31	1.84	0.83	0.30	4.29	1.49	1.91	7.71
Chisel Plow-Folding	24'	MFWD 190	30,300	150	12	0.076	0.86	1.78	0.83	0.30	3.79	1.50	1.97	7.28
Chisel Plow-Folding	32'	MFWD 225	35,100	150	12	0.057	0.65	1.59	0.73	0.29	3.27	1.32	1.89	6.49
Chisel Plow-Folding	42'	MFWD 225	39,300	150	12	0.044	0.49	1.21	0.62	0.22	2.56	1.12	1.44	5.13
Chisel Plow-Folding	50'	MFWD 225	50,000	150	10	0.036	0.41	1.02	0.80	0.18	2.43	1.34	1.21	4.99
Chisel Plow-Folding	61'	MFWD 225	64,700	150	12	0.030	0.34	0.83	0.70	0.15	2.04	1.27	0.99	4.31
Chisel Plow-Rigid	10'	MFWD 170	7,808	150	12	0.184	2.09	3.86	0.52	0.74	7.22	0.94	4.82	12.98
Chisel Plow-Rigid	15'	2WD 130	8,072	150	12	0.123	1.39	1.97	0.35	0.32	4.05	0.64	2.04	6.75
Chisel Plow-Rigid	20'	MFWD 225	8,271	150	12	0.102	1.16	2.84	0.30	0.51	4.83	0.55	3.36	8.75
Chisel Plow-Rigid	24'	MFWD 190	9,865	150	12	0.077	0.87	1.80	0.27	0.30	3.25	0.49	1.99	5.74
Chisel-Harrow	21 shank	2WD 190	9,500	150	12	0.088	0.99	2.05	0.30	0.30	3.66	0.54	1.96	6.17
Chisel-Harrow	27 shank	MFWD 225	11,600	150	12	0.068	0.77	1.89	0.28	0.34	3.30	0.51	2.24	6.06
Coulter-Chisel-Harro	21 shank	2WD 190	17,200	150	12	0.088	0.99	2.05	0.54	0.30	3.90	0.98	1.96	6.85
Coulter-Chisel-Harro	27 shank	MFWD 225	21,500	150	12	0.068	0.77	1.89	0.53	0.34	3.54	0.95	2.24	6.75
Cultivate	4R-30	2WD 105	9,370	150	10	0.206	2.34	2.66	0.51	0.40	5.92	1.40	2.51	9.85
Cultivate	4R-38	2WD 105	9,440	150	10	0.162	1.84	2.09	0.40	0.24	4.59	1.11	1.53	7.24
Cultivate	6R-30	MFWD 150	13,190	150	10	0.137	1.56	2.53	0.48	0.47	5.05	1.32	2.93	9.31
Cultivate	6R-38	MFWD 150	13,900	150	10	0.108	1.23	2.00	0.40	0.37	4.01	1.10	2.32	7.43
Cultivate	8R-30	MFWD 190	17,400	150	10	0.103	1.17	2.41	0.47	0.41	4.47	1.30	2.67	8.44
Cultivate	8R-38	MFWD 190	19,600	150	10	0.073	0.83	1.72	0.38	0.29	3.23	1.05	1.90	6.19
Cultivate	8R-38 2x1	MFWD 190	26,600	150	10	0.054	0.61	1.26	0.38	0.21	2.48	1.05	1.40	4.94
Cultivate	10R-30	MFWD 225	24,900	150	10	0.082	0.93	2.28	0.54	0.41	4.18	1.49	2.70	8.38
Cultivate	12R-30	MFWD 225	33,200	150	10	0.068	0.78	1.90	0.60	0.34	3.63	1.66	2.25	7.55
Cultivate	12R-38	MFWD 225	32,000	150	10	0.054	0.61	1.50	0.46	0.27	2.85	1.26	1.77	5.90
Cultivate	16R-30	MFWD 225	39,300	150	10	0.051	0.58	1.42	0.54	0.26	2.81	1.47	1.69	5.98
Cultivate & Post	4R-30	2WD 105	14,400	150	10	0.220	3.49	2.84	0.84	0.33	7.51	2.30	2.07	11.90
Cultivate & Post	4R-38	2WD 105	14,400	150	10	0.173	2.75	2.23	0.66	0.26	5.91	1.81	1.63	9.37
Cultivate & Post	6R-30	MFWD 150	18,200	150	10	0.146	2.32	2.70	0.71	0.50	6.25	1.94	3.13	11.33
Cultivate & Post	6R-38	MFWD 150	18,900	150	10	0.115	1.83	2.13	0.58	0.39	4.95	1.59	2.47	9.02
Cultivate & Post	8R-30	MFWD 190	22,400	150	10	0.110	1.74	2.57	0.65	0.43	5.41	1.79	2.84	10.05
Cultivate & Post	8R-38	MFWD 190	24,600	150	10	0.086	1.38	2.03	0.57	0.34	4.33	1.55	2.25	8.14
Cultivate & Post	8R-38 2x1	MFWD 190	33,100	150	10	0.057	0.91	1.35	0.51	0.23	3.01	1.39	1.49	5.91
Cultivate & Post	10R-30	MFWD 225	29,900	150	10	0.088	1.39	2.43	0.70	0.44	4.97	1.91	2.88	9.78
Cultivate & Post	12R-30	MFWD 225	38,100	150	10	0.073	1.16	2.02	0.74	0.36	4.30	2.03	2.40	8.74
Cultivate & Post	12R-38	MFWD 225	38,500	150	10	0.057	0.91	1.60	0.59	0.29	3.40	1.62	1.89	6.93
Cultivate & Post	16R-30	MFWD 225	44,300	150	10	0.055	0.87	1.52	0.64	0.27	3.32	1.77	1.80	6.90
Disk & Incorporate	14'	2WD 130	25,600	200	10	0.149	2.37	2.39	1.14	0.39	6.31	2.09	2.48	10.90
Disk & Incorporate	20'	MFWD 190	35,900	180	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disk & Incorporate	24'	MFWD 190	38,000	200	10	0.087	1.38	2.04	0.99	0.34	4.76	1.81	2.26	8.84

(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-----							
Disk & Incorporate	28'	MFWD 225	44,200	200	10	0.074	1.18	2.07	0.99	0.37	4.62	1.80	2.45	8.89
Disk & Incorporate	32'	MFWD 225	49,800	200	10	0.065	1.03	1.81	0.97	0.33	4.16	1.78	2.14	8.09
Disk Bed (Hipper)	4R-38	MFWD 150	8,420	160	10	0.147	1.67	2.72	0.31	0.50	5.21	0.84	3.15	9.22
Disk Bed (Hipper)	6R-30	MFWD 170	11,200	160	10	0.125	1.41	2.61	0.35	0.50	4.88	0.95	3.25	9.10
Disk Bed (Hipper)	6R-38	MFWD 170	11,200	160	10	0.098	1.12	2.06	0.27	0.39	3.85	0.75	2.57	7.18
Disk Bed (Hipper)	8R-30	MFWD 190	14,200	160	10	0.093	1.06	2.19	0.33	0.37	3.96	0.90	2.42	7.29
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	23,200	160	10	0.049	0.56	1.15	0.28	0.19	2.19	0.78	1.27	4.25
Disk Bed (Hipper)	10R-30	MFWD 225	19,000	160	10	0.075	0.85	2.07	0.35	0.37	3.66	0.97	2.45	7.09
Disk Bed (Hipper)	10R-38	MFWD 225	19,600	160	10	0.059	0.67	1.63	0.28	0.29	2.89	0.79	1.93	5.62
Disk Bed (Hipper)	12R-30	MFWD 225	22,300	160	10	0.062	0.70	1.72	0.34	0.31	3.10	0.95	2.04	6.10
Disk Bed (Hipper)	12R-38	MFWD 225	23,200	160	10	0.049	0.56	1.36	0.28	0.24	2.46	0.78	1.61	4.86
Disk Bed (Hipper)Fld	8R-38	MFWD 190	15,000	160	10	0.074	0.84	1.73	0.27	0.29	3.14	0.75	1.91	5.82
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	15,300	160	10	0.074	0.84	1.73	0.28	0.29	3.15	0.77	1.91	5.84
Disk Bed w/roller	8R-30	MFWD 190	18,000	160	10	0.093	1.06	2.19	0.42	0.37	4.05	1.15	2.42	7.63
Disk Bed w/roller	12R-30	MFWD 225	30,700	160	10	0.062	0.70	1.72	0.47	0.31	3.23	1.31	2.04	6.59
Disk Bed w/roller	8R-38	MFWD 190	18,000	160	10	0.074	0.84	1.73	0.33	0.29	3.20	0.91	1.91	6.03
Disk Harrow	14'	2WD 130	20,600	180	10	0.140	1.59	2.24	0.80	0.37	5.01	1.75	2.33	9.10
Disk Harrow	20'	MFWD 190	30,943	180	10	0.098	1.11	2.29	0.84	0.39	4.64	1.84	2.54	9.03
Disk Harrow	24'	MFWD 190	33,100	180	10	0.081	0.92	1.91	0.75	0.32	3.92	1.64	2.11	7.68
Disk Harrow	28'	MFWD 225	39,200	180	10	0.070	0.79	1.94	0.76	0.35	3.85	1.67	2.29	7.82
Disk Harrow	32'	MFWD 225	44,800	180	10	0.061	0.69	1.69	0.76	0.30	3.46	1.67	2.01	7.15
Disk Harrow	42'	MFWD 225	87,000	180	10	0.046	0.53	1.29	1.13	0.23	3.19	2.47	1.53	7.19
Disk Harrow 40-100hp	14'	2WD 75	14,200	180	10	0.140	1.59	1.29	0.55	0.14	3.58	1.21	0.87	5.66
Disk Heavy	14'	MFWD 150	20,600	180	10	0.145	1.65	2.69	0.83	0.50	5.68	1.82	3.12	10.63
Disk Heavy	20'	MFWD 170	30,943	180	10	0.097	1.10	2.03	0.83	0.39	4.36	1.82	2.53	8.73
Disk Heavy	28'	MFWD 190	39,200	180	10	0.075	0.85	1.76	0.82	0.30	3.75	1.80	1.95	7.51
Disk Ripper	15'	MFWD 225	35,200	180	10	0.136	1.54	3.77	1.33	0.68	7.33	2.91	4.46	14.71
Ditcher		2WD 130	4,390	200	10	0.020	0.22	0.31	0.03	0.05	0.63	0.04	0.33	1.01
Ditcher (1m/160a)		2WD 130	4,390	200	10	0.009	0.10	0.14	0.01	0.02	0.29	0.02	0.15	0.47
Fert Appl (Liquid)	4R-38	MFWD 150	13,500	150	8	0.154	2.45	2.85	1.39	0.53	7.23	1.62	3.30	12.16
Fert Appl (Liquid)	6R-30	MFWD 170	16,600	150	8	0.130	2.07	2.73	1.44	0.52	6.79	1.69	3.41	11.89
Fert Appl (Liquid)	6R-38	MFWD 170	14,300	150	8	0.103	1.64	2.16	0.98	0.41	5.20	1.15	2.69	9.05
Fert Appl (Liquid)	8R-30	MFWD 190	14,400	150	8	0.098	1.55	2.29	0.94	0.39	5.18	1.10	2.54	8.83
Fert Appl (Liquid)	8R-38	MFWD 190	16,000	150	8	0.077	1.23	1.81	0.82	0.30	4.18	0.96	2.01	7.16
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	15,500	150	8	0.051	0.82	1.20	0.53	0.20	2.76	0.62	1.33	4.73
Fert Appl (Liquid)	10R-30	MFWD 225	15,000	150	8	0.078	1.24	2.17	0.78	0.39	4.60	0.91	2.57	8.09
Fert Appl (Liquid)	10R-38	MFWD 225	18,100	150	8	0.061	0.98	1.71	0.74	0.31	3.75	0.87	2.03	6.66
Fert Appl (Liquid)	12R-30	MFWD 225	18,100	150	8	0.078	1.24	2.17	0.94	0.39	4.76	1.10	2.57	8.44
Fert Appl (Liquid)	12R-38	MFWD 225	15,500	150	8	0.051	0.82	1.43	0.53	0.26	3.04	0.62	1.69	5.36
Field Cult & Inc	42'	MFWD 225	54,200	100	10	0.037	0.59	1.04	0.51	0.19	2.34	2.23	1.23	5.82
Field Cult & Inc	50'	MFWD 225	64,000	100	10	0.031	0.50	0.87	0.50	0.16	2.04	2.22	1.04	5.31
Field Cult & Inc Fld	24'	MFWD 170	28,600	100	10	0.066	1.04	1.38	0.47	0.26	3.17	2.06	1.72	6.96
Field Cult & Inc Fld	32'	MFWD 190	38,500	100	10	0.049	0.78	1.15	0.47	0.19	2.62	2.08	1.28	5.99
Field Cult & Inc Rdg	12'	2WD 150	15,600	100	10	0.132	2.09	2.43	0.51	0.42	5.48	2.25	2.65	10.39
Field Cultivate Fld	24'	MFWD 170	23,600	100	10	0.062	0.70	1.30	0.36	0.24	2.62	1.60	1.62	5.85
Field Cultivate Fld	32'	MFWD 190	33,500	100	10	0.046	0.52	1.09	0.39	0.18	2.19	1.70	1.20	5.11
Field Cultivate Fld	42'	MFWD 225	47,600	100	10	0.035	0.40	0.98	0.42	0.17	1.98	1.85	1.16	5.00
Field Cultivate Fld	50'	MFWD 225	56,500	100	10	0.029	0.33	0.82	0.42	0.15	1.73	1.84	0.97	4.56
Field Cultivate Rdg	12'	2WD 150	10,600	100	10	0.124	1.41	2.29	0.32	0.40	4.43	1.44	2.50	8.38
Grain Cart Corn	500 bu	MFWD 190	21,300	200	12	0.031	0.36	0.74	0.18	0.12	1.42	0.33	0.82	2.57
Grain Cart Corn	700 bu	MFWD 190	27,600	200	12	0.025	0.28	0.58	0.18	0.09	1.15	0.33	0.64	2.13
Grain Cart Corn	1000 bu	MFWD 225	46,800	200	12	0.025	0.28	0.69	0.31	0.12	1.41	0.57	0.81	2.80
Grain Cart Rice	500 bu	MFWD 190	21,300	200	12	0.062	0.70	1.46	0.36	0.24	2.77	0.65	1.61	5.04
Grain Cart Rice	700 bu	MFWD 190	27,600	200	12	0.055	0.62	1.28	0.41	0.21	2.54	0.74	1.42	4.70
Grain Cart Rice	1000 bu	MFWD 190	46,800	200	12	0.045	0.52	1.07	0.58	0.18	2.35	1.04	1.18	4.58
Grain Cart Soybean	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Soybean	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Soybean	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Cart Wht/Sor	500 bu	MFWD 190	21,300	200	12	0.025	0.28	0.59	0.14	0.10	1.13	0.26	0.66	2.05
Grain Cart Wht/Sor	700 bu	MFWD 190	27,600	200	12	0.021	0.24	0.49	0.15	0.08	0.98	0.28	0.55	1.81
Grain Cart Wht/Sor	1000 bu	MFWD 190	46,800	200	12	0.021	0.24	0.49	0.26	0.08	1.09	0.48	0.55	2.12
Grain Drill	8'	2WD 130	15,300	150	8	0.235	4.81	3.76	1.35	0.62	10.56	2.68	3.91	17.16
Grain Drill	10'	2WD 130	16,500	150	8	0.188	3.84	3.01	1.16	0.50	8.53	2.31	3.13	13.98
Grain Drill	12'	2WD 130	17,500	150	8	0.157	3.20	2.51	1.03	0.41	7.17	2.04	2.61	11.82
Grain Drill	15'	MFWD 150	21,700	150	8	0.125	2.56	2.31	1.02	0.43	6.34	2.02	2.68	11.05
Grain Drill	20'	MFWD 170	31,300	150	8	0.094	1.92	1.97	1.10	0.37	5.38	2.19	2.45	10.03
Grain Drill	24'	MFWD 190	51,300	150	8	0.078	1.60	1.83	1.51	0.31	5.26	2.99	2.03	10.29
Grain Drill	30'	MFWD 225	51,900	150	8	0.062	1.28	1.73	1.22	0.31	4.56	2.42	2.06	9.05
Grain Drill	35'	MFWD 225	67,500	150	8	0.053	1.09	1.49	1.36	0.27	4.22	2.70	1.76	8.69
Grain Drill & Pre	8'	2WD 130	20,300	150	8	0.253	5.18	4.05	1.93	0.67	11.85	3.83	4.21	19.90
Grain Drill & Pre	10'	2WD 130	21,500	150	8	0.203	4.14	3.24	1.63	0.54	9.57	3.24	3.37	16.19
Grain Drill & Pre	12'	2WD 130	22,500	150	8	0.169	3.45	2.70	1.42	0.45	8.03	2.83	2.81	13.68
Grain Drill & Pre	15'	MFWD 150	26,700	150	8	0.135	2.76	2.49	1.35	0.46	7.08	2.68	2.89	12.66
Grain Drill & Pre	20'	MFWD 170	36,300	150	8	0.101	2.07	2.12	1.38	0.40	5.98	2.74	2.64	11.37
Grain Drill & Pre	24'	MFWD 190	56,200	150	8	0.084	1.72	1.97	1.78	0.33	5.82	3.53	2.19	11.55
Grain Drill & Pre	30'	MFWD 225	56,900	150	8	0.067	1.38	1.87	1.44	0.34	5.04	2.86	2.21	10.12
Grain Drill & Pre	35'	MFWD 225	72,500	150	8	0.058	1.18	1.60	1.57	0.29	4.66	3.12	1.90	9.69
Grain Drill & Pre T	8R-38	MFWD 225	45,800	150	8	0.062	1.28	1.73	1.07	0.31	4.41	2.14	2.06	8.62
Harrow - Rigid	21'	2WD 150	3,880	200	10	0.073	0.83	1.36	0.10	0.23	2.54	0.15	1.48	4.18
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.10	2.26	0.16	0.38	3.92	0.26	2.51	6.70

(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--- Imp. P.U.	Total Direct	--Fixed-- Imp. P.U.	Total Cost		
			dollars	hours	years	hr/ac	-----\$/acre-----							
Harrow - Folding	24'	MFWD 190	9,020	200	10	0.064	0.73	1.51	0.20	0.25	2.70	0.31	1.67	4.70
Harrow - Folding	30'	MFWD 190	9,750	200	10	0.051	0.58	1.20	0.17	0.20	2.18	0.27	1.34	3.79
Harrow - Folding	40'	MFWD 190	12,000	200	10	0.038	0.44	0.90	0.16	0.15	1.66	0.25	1.00	2.92
Harrow - Folding	48'	MFWD 225	17,500	200	10	0.032	0.36	0.89	0.19	0.16	1.62	0.30	1.06	2.99
Harrow - Rigid	13'	2WD 130	2,760	200	10	0.119	1.35	1.91	0.11	0.31	3.70	0.18	1.98	5.86
Header - Corn	6R-30	265 hp	37,000	300	8	0.170	1.93	5.55	1.57	4.09	13.15	2.45	16.65	32.25
Header - Corn	6R-38	265 hp	38,500	300	8	0.134	1.52	4.38	1.29	3.23	10.43	2.01	13.14	25.59
Header - Corn	8R-30	265 hp	49,100	300	8	0.127	1.44	4.16	1.56	3.07	10.25	2.43	12.48	25.18
Header - Corn	8R-38	325 hp	49,200	300	8	0.100	1.14	4.03	1.24	2.63	9.06	1.93	10.72	21.72
Header - Corn	12R-20	325 hp	66,700	300	8	0.127	1.44	5.10	2.12	3.33	12.02	3.31	13.57	28.90
Header - Corn	12R-30	325 hp	75,300	300	8	0.085	0.96	3.40	1.60	2.22	8.19	2.49	9.04	19.74
Header - Draper (CL)	25' Rigid	265 hp	35,000	300	8	0.203	2.30	6.62	1.62	4.88	15.44	2.64	19.85	37.94
Header - Draper (CL)	30' Rigid	325 hp	35,700	300	8	0.169	1.92	6.76	1.38	4.42	14.49	2.24	17.98	34.72
Header - Draper (CL)	36' Rigid	355 hp	40,400	300	8	0.141	1.60	6.15	1.30	3.95	13.01	2.11	16.06	31.19
Header - Draper (SL)	25' Rigid	325 hp	35,000	300	8	0.176	1.99	7.03	1.41	4.60	15.04	2.29	18.70	36.04
Header - Draper (SL)	30' Rigid	325 hp	35,700	300	8	0.146	1.66	5.86	1.19	3.83	12.56	1.94	15.58	30.09
Header - Draper (SL)	36' Rigid	355 hp	40,400	300	8	0.122	1.38	5.33	1.13	3.42	11.28	1.83	13.91	27.03
Header - Rice (CL)	25' Rigid	325 hp	32,051	300	8	0.253	2.88	10.15	2.03	6.63	21.70	3.16	26.97	51.84
Header - Rice (CL)	30' Rigid	325 hp	41,263	300	8	0.211	2.40	8.45	2.18	5.53	18.57	3.39	22.47	44.44
Header - Rice (SL)	25' Rigid	325 hp	32,051	300	8	0.220	2.49	8.79	1.76	5.75	18.80	2.74	23.37	44.92
Header - Rice (SL)	30' Rigid	325 hp	41,263	300	8	0.183	2.08	7.33	1.89	4.79	16.09	2.94	19.48	38.51
Header -RiceStrp(CL)	20'	265 hp	39,100	300	8	0.253	2.88	8.27	2.48	6.10	19.74	3.86	24.82	48.43
Header -RiceStrp(CL)	24'	325 hp	43,000	300	8	0.211	2.40	8.45	2.27	5.53	18.66	3.53	22.47	44.68
Header -RiceStrp(CL)	32'	325 hp	47,400	300	8	0.158	1.80	6.34	1.88	4.14	14.17	2.92	16.85	33.95
Header -RiceStrp(SL)	20'	265 hp	39,100	300	8	0.220	2.49	7.17	2.15	5.29	17.11	3.34	21.51	41.97
Header -RiceStrp(SL)	24'	325 hp	43,000	300	8	0.183	2.08	7.33	1.97	4.79	16.17	3.06	19.48	38.72
Header -RiceStrp(SL)	32'	325 hp	47,400	300	8	0.137	1.56	5.49	1.62	3.59	12.28	2.53	14.61	29.42
Header -Soybean	22' Flex	265 hp	25,200	300	8	0.116	1.31	3.78	0.73	2.79	8.62	1.13	11.35	21.11
Header -Soybean	25' Flex	325 hp	27,300	300	8	0.102	1.15	4.08	0.69	2.67	8.61	1.08	10.85	20.55
Header -Soybean	30' Flex	325 hp	31,600	300	8	0.085	0.96	3.40	0.67	2.22	7.26	1.04	9.04	17.36
Header -Soybean	35' Flex	355 hp	36,700	300	8	0.072	0.82	3.18	0.66	2.04	6.72	1.04	8.31	16.08
Header Wheat/Sorghum	22' Rigid	265 hp	22,700	300	8	0.116	1.31	3.78	0.65	2.79	8.55	1.02	11.35	20.93
Header Wheat/Sorghum	25' Rigid	325 hp	23,900	300	8	0.102	1.15	4.08	0.61	2.67	8.52	0.95	10.85	20.33
Header Wheat/Sorghum	30' Rigid	325 hp	27,200	300	8	0.085	0.96	3.40	0.57	2.22	7.17	0.90	9.04	17.12
Header-Cotton-Bcast	13'	173 hp	18,000	200	8	0.251	5.13	4.86	0.84	5.70	16.55	2.64	23.18	42.39
Header-Cotton-Bcast	16'	173 hp	21,100	200	8	0.204	4.17	3.95	0.80	4.63	13.57	2.51	18.84	34.93
Header-Cotton-Bcast	19'	173 hp	22,800	200	8	0.172	3.51	3.32	0.73	3.90	11.48	2.29	15.86	29.64
Header-Cotton-Brush	4R-30 2x1	173 hp	28,900	200	8	0.218	4.45	4.21	1.18	4.94	14.79	3.68	20.09	38.57
Header-Cotton-Brush	4R-36	173 hp	28,000	200	8	0.272	5.56	5.26	1.43	6.18	18.45	4.45	25.12	48.02
Header-Cotton-Brush	4R-38	173 hp	27,900	200	8	0.257	5.26	4.97	1.34	5.84	17.42	4.19	23.73	45.36
Header-Cotton-Brush	4R-38 2x1	173 hp	29,300	200	8	0.172	3.51	3.32	0.94	3.90	11.69	2.94	15.86	30.50
Header-Cotton-Brush	5R-30	173 hp	35,200	200	8	0.261	5.34	5.05	1.72	5.93	18.06	5.38	24.11	47.56
Header-Cotton-Brush	5R-38	173 hp	36,200	200	8	0.207	4.22	4.00	1.40	4.69	14.33	4.37	19.07	37.78
Header-Cotton-Brush	6R-30	173 hp	43,300	200	8	0.218	4.45	4.21	1.77	4.94	15.38	5.51	20.09	40.99
Header-Cotton-Brush	6R-38	173 hp	44,500	200	8	0.172	3.51	3.32	1.43	3.90	12.18	4.47	15.86	32.52
Header-Cotton-Brush	8R-30	173 hp	59,600	200	8	0.163	3.34	3.16	1.82	3.70	12.03	5.69	15.07	32.80
Header-Cotton-Brush	8R-36/38	173 hp	61,200	200	8	0.129	2.64	2.49	1.48	2.93	9.55	4.62	11.91	26.09
Land Plane	50'x16'	MFWD 190	10,300	200	10	0.151	1.72	3.54	0.31	0.60	6.18	0.85	3.92	10.96
Levee Pull & Seed	8 Blade	MFWD 170	7,540	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Pull (1m/80a)	8 blade	MFWD 170	6,760	100	10	0.003	0.04	0.07	0.00	0.01	0.13	0.02	0.09	0.25
Levee Splitter (1/80)	8 blade	MFWD 150	6,760	100	10	0.004	0.04	0.07	0.00	0.01	0.14	0.03	0.08	0.26
Middle Buster	4R-38	MFWD 150	9,550	160	8	0.228	2.59	4.21	0.51	0.78	8.10	1.66	4.88	14.64
Middle Buster	6R-38	MFWD 150	11,700	160	8	0.120	1.36	2.21	0.32	0.41	4.32	1.07	2.56	7.96
Middle Buster	8R-30	MFWD 190	17,110	160	8	0.114	1.29	2.66	0.45	0.45	4.87	1.48	2.95	9.32
Middle Buster	8R-38	MFWD 190	15,500	160	8	0.090	1.02	2.10	0.32	0.35	3.82	1.06	2.33	7.22
Middle Buster	8R-38 2x1	MFWD 190	25,900	160	8	0.060	0.68	1.40	0.36	0.23	2.69	1.18	1.55	5.43
Middle Buster	10R-30	MFWD 225	27,000	160	8	0.091	1.03	2.52	0.57	0.46	4.60	1.87	2.99	9.47
Middle Buster	10R-38	MFWD 225	29,500	160	8	0.072	0.81	1.99	0.49	0.36	3.67	1.61	2.36	7.65
Middle Buster	12R-38	MFWD 225	25,900	160	8	0.060	0.68	1.66	0.36	0.30	3.01	1.18	1.97	6.16
Module Builder	4R-30(250)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-30(325)	MFWD 190	30,500	200	10	0.327	6.68	7.65	2.49	1.30	18.13	5.26	8.47	31.87
Module Builder	4R-38(255)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R-38(325)	MFWD 190	30,500	200	10	0.257	5.26	6.02	1.96	1.02	14.27	4.14	6.67	25.10
Module Builder	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder	5R-30(255)	MFWD 190	30,500	200	10	0.261	5.34	6.12	1.99	1.04	14.50	4.21	6.78	25.50
Module Builder	5R-38(250)	MFWD 190	30,500	200	10	0.207	4.22	4.84	1.57	0.82	11.47	3.33	5.36	20.17
Module Builder	6R-30(325)	MFWD 190	30,500	200	10	0.218	4.45	5.10	1.66	0.86	12.08	3.51	5.65	21.25
Module Builder	6R-38(330)	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	13' Bcast	MFWD 150	30,500	200	10	0.251	5.13	4.64	1.92	0.86	12.57	4.05	5.38	22.00
Module Builder-Strip	16' Bcast	MFWD 150	30,500	200	10	0.204	4.17	3.77	1.56	0.70	10.21	3.29	4.37	17.88
Module Builder-Strip	19' Bcast	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	4R-30 2x1	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07
Module Builder-Strip	4R-36	MFWD 150	30,500	200	10	0.272	5.56	5.03	2.08	0.93	13.61	4.38	5.83	23.84
Module Builder-Strip	4R-38	MFWD 150	30,500	200	10	0.257	5.26	4.75	1.96	0.88	12.86	4.14	5.51	22.52
Module Builder-Strip	4R-38 2x1	MFWD 150	30,500	200	10	0.172	3.51	3.17	1.31	0.59	8.60	2.77	3.68	15.05
Module Builder-Strip	5R-30	MFWD 150	30,500	200	10	0.261	5.34	4.83	1.99	0.89	13.07	4.21	5.59	22.88
Module Builder-Strip	5R-38	MFWD 150	30,500	200	10	0.207	4.22	3.82	1.57	0.71	10.34	3.33	4.42	18.10
Module Builder-Strip	6R-30	MFWD 150	30,500	200	10	0.218	4.45	4.02	1.66	0.74	10.89	3.51	4.66	19.07

(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-----							
Module Builder-Strip	6R-38	MFWD 190	30,500	200	10	0.172	3.51	4.02	1.31	0.68	9.54	2.77	4.46	16.77
Module Builder-Strip	8R-36/38	MFWD 190	30,500	200	10	0.129	2.64	3.02	0.98	0.51	7.16	2.08	3.35	12.60
NT Grain Drill	6'	MFWD 170	18,800	150	8	0.327	6.68	6.84	2.30	1.31	17.15	4.57	8.53	30.26
NT Grain Drill	10'	2WD 130	28,500	150	8	0.235	4.81	3.76	2.51	0.62	11.72	4.99	3.91	20.64
NT Grain Drill	12'	2WD 130	35,100	150	8	0.163	3.34	2.61	2.15	0.43	8.55	4.27	2.71	15.54
NT Grain Drill	15'	MFWD 150	38,600	150	8	0.130	2.67	2.41	1.89	0.44	7.43	3.75	2.79	13.99
NT Grain Drill	20'	MFWD 170	55,200	150	8	0.098	2.00	2.05	2.03	0.39	6.48	4.03	2.56	13.07
NT Grain Drill	24'	MFWD 190	74,200	150	8	0.081	1.67	1.91	2.27	0.32	6.18	4.51	2.11	12.82
NT Grain Drill	30'	MFWD 225	94,400	150	8	0.065	1.33	1.81	2.31	0.33	5.79	4.59	2.14	12.54
NT Grain Drill & Pre	6'	MFWD 170	23,800	150	8	0.352	7.19	7.37	3.14	1.41	19.13	6.24	9.19	34.56
NT Grain Drill & Pre	10'	2WD 130	33,400	150	8	0.211	4.31	3.38	2.64	0.56	10.91	5.25	3.51	19.68
NT Grain Drill & Pre	12'	2WD 130	40,100	150	8	0.176	3.59	2.81	2.65	0.47	9.53	5.25	2.92	17.72
NT Grain Drill & Pre	15'	MFWD 150	43,600	150	8	0.141	2.87	2.60	2.30	0.48	8.27	4.57	3.01	15.85
NT Grain Drill & Pre	20'	MFWD 170	60,100	150	8	0.105	2.15	2.21	2.38	0.42	7.17	4.72	2.75	14.66
NT Grain Drill & Pre	24'	MFWD 190	79,100	150	8	0.088	1.79	2.06	2.61	0.35	6.82	5.18	2.28	14.29
NT Grain Drill & Pre	30'	MFWD 225	99,400	150	8	0.070	1.43	1.95	2.62	0.35	6.37	5.21	2.31	13.89
NT Plant&Pre-Folding	8R-38	MFWD 170	44,300	150	8	0.083	1.70	1.74	1.38	0.33	5.17	2.75	2.18	10.11
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	72,400	150	8	0.055	1.13	1.16	1.51	0.22	4.03	2.99	1.45	8.48
NT Plant&Pre-Folding	12R-20	MFWD 190	66,700	150	8	0.105	2.15	2.47	2.64	0.42	7.69	5.24	2.73	15.68
NT Plant&Pre-Folding	12R-30	MFWD 190	69,100	150	8	0.070	1.43	1.64	1.82	0.28	5.19	3.62	1.82	10.64
NT Plant&Pre-Folding	12R-38	MFWD 190	72,400	150	8	0.055	1.13	1.30	1.51	0.22	4.17	2.99	1.44	8.61
NT Plant&Pre-Folding	16R-30	MFWD 190	96,400	150	8	0.052	1.07	1.23	1.91	0.21	4.43	3.79	1.36	9.59
NT Plant&Pre-Folding	23R-15	MFWD 190	101,000	150	8	0.073	1.49	1.71	2.78	0.29	6.29	5.51	1.90	13.71
NT Plant&Pre-Folding	24R-15	MFWD 225	117,000	150	8	0.070	1.43	1.95	3.09	0.35	6.84	6.13	2.31	15.28
NT Plant&Pre-Folding	24R-20	MFWD 190	127,000	150	8	0.052	1.07	1.23	2.51	0.21	5.04	4.99	1.36	11.40
NT Plant&Pre-Folding	24R-30	MFWD 190	151,000	150	8	0.035	0.71	0.82	1.99	0.14	3.68	3.96	0.91	8.55
NT Plant&Pre-Folding	31R-15	MFWD 225	137,000	150	8	0.054	1.11	1.51	2.80	0.27	5.71	5.57	1.79	13.07
NT Plant&Pre-Folding	32R-15	MFWD 225	149,000	150	8	0.052	1.07	1.46	2.95	0.26	5.76	5.86	1.73	13.35
NT Plant&Pre-Folding	36R-20	MFWD 225	167,000	150	8	0.035	0.71	0.97	2.20	0.17	4.08	4.38	1.15	9.61
NT Plant&Pre-Rigid	4R-30	2WD 130	25,100	150	8	0.211	4.31	3.38	1.99	0.56	10.25	3.94	3.51	17.72
NT Plant&Pre-Rigid	4R-38	2WD 130	26,600	150	8	0.166	3.39	2.66	1.66	0.44	8.16	3.29	2.76	14.23
NT Plant&Pre-Rigid	6R-30	MFWD 150	33,600	150	8	0.141	2.87	2.60	1.77	0.48	7.74	3.52	3.01	14.28
NT Plant&Pre-Rigid	6R-38	MFWD 150	31,700	150	8	0.111	2.27	2.05	1.32	0.38	6.03	2.62	2.38	11.03
NT Plant&Pre-Rigid	8R-30	MFWD 170	40,200	150	8	0.105	2.15	2.21	1.59	0.42	6.38	3.16	2.75	12.31
NT Plant&Pre-Rigid	8R-38	MFWD 170	37,100	150	8	0.083	1.70	1.74	1.16	0.33	4.95	2.30	2.18	9.44
NT Plant&Pre-Rigid	10R-30	MFWD 190	39,600	150	8	0.084	1.72	1.97	1.25	0.33	5.29	2.49	2.19	9.98
NT Plant&Pre-Rigid	11R-15	MFWD 170	45,100	150	8	0.143	2.93	3.00	2.43	0.57	8.95	4.82	3.75	17.53
NT Plant&Pre-Rigid	11R-20	MFWD 170	42,500	150	8	0.115	2.35	2.41	1.84	0.46	7.08	3.65	3.01	13.75
NT Plant&Pre-Rigid	12R-20	MFWD 190	49,200	150	8	0.105	2.15	2.47	1.95	0.42	7.00	3.87	2.73	13.61
NT Plant&Pre-Rigid	12R-30	MFWD 190	55,300	150	8	0.070	1.43	1.64	1.46	0.28	4.83	2.90	1.82	9.55
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	47,400	150	8	0.097	1.98	2.69	1.73	0.49	6.91	3.43	3.19	13.54
NT Plant&Pre-Rigid	15R-15	MFWD 190	57,700	150	8	0.113	2.30	2.64	2.44	0.45	7.85	4.85	2.92	15.63
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	108,000	150	8	0.055	1.13	1.54	2.25	0.28	5.21	4.47	1.82	11.50
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	86,600	150	8	0.083	1.70	2.31	2.71	0.42	7.15	5.38	2.74	15.28
NT Plant-Folding	8R-38	MFWD 170	39,300	150	8	0.077	1.58	1.62	1.14	0.31	4.66	2.26	2.02	8.95
NT Plant-Folding	8R-38 2x1	MFWD 170	65,700	150	8	0.051	1.05	1.08	1.27	0.20	3.61	2.52	1.34	7.49
NT Plant-Folding	12R-20	MFWD 190	61,800	150	8	0.098	2.00	2.29	2.27	0.39	6.96	4.51	2.54	14.02
NT Plant-Folding	12R-30	MFWD 190	64,100	150	8	0.065	1.33	1.53	1.57	0.26	4.70	3.12	1.69	9.51
NT Plant-Folding	12R-38	MFWD 190	65,900	150	8	0.051	1.05	1.20	1.27	0.20	3.74	2.53	1.33	7.61
NT Plant-Folding	16R-30	MFWD 190	89,800	150	8	0.049	1.00	1.14	1.65	0.19	3.99	3.28	1.27	8.55
NT Plant-Folding	23R-15	MFWD 190	106,000	150	8	0.068	1.39	1.59	2.71	0.27	5.96	5.37	1.76	13.11
NT Plant-Folding	24R-15	MFWD 225	112,000	150	8	0.065	1.33	1.81	2.75	0.33	6.22	5.45	2.14	13.83
NT Plant-Folding	24R-20	MFWD 190	120,000	150	8	0.049	1.00	1.14	2.20	0.19	4.55	4.38	1.27	10.21
NT Plant-Folding	24R-30	MFWD 190	141,000	150	8	0.032	0.66	0.76	1.73	0.13	3.29	3.43	0.84	7.57
NT Plant-Folding	31R-15	MFWD 225	128,000	150	8	0.050	1.03	1.40	2.43	0.25	5.13	4.83	1.66	11.63
NT Plant-Folding	32R-15	MFWD 225	139,000	150	8	0.049	1.00	1.35	2.55	0.24	5.16	5.07	1.60	11.85
NT Plant-Folding	36R-20	MFWD 225	157,000	150	8	0.032	0.66	0.90	1.92	0.16	3.66	3.82	1.07	8.56
NT Plant-Rigid	4R-30	2WD 130	20,100	150	8	0.196	4.00	3.14	1.48	0.52	9.15	2.93	3.26	15.35
NT Plant-Rigid	4R-38	2WD 130	21,600	150	8	0.154	3.15	2.47	1.25	0.41	7.29	2.48	2.56	12.35
NT Plant-Rigid	6R-30	MFWD 150	28,700	150	8	0.130	2.67	2.41	1.40	0.44	6.94	2.79	2.79	12.54
NT Plant-Rigid	6R-38	MFWD 150	26,700	150	8	0.103	2.10	1.90	1.03	0.35	5.40	2.05	2.21	9.67
NT Plant-Rigid	8R-30	MFWD 170	35,200	150	8	0.098	2.00	2.05	1.29	0.39	5.74	2.57	2.56	10.88
NT Plant-Rigid	8R-38	MFWD 170	32,100	150	8	0.077	1.58	1.62	0.93	0.31	4.45	1.85	2.02	8.33
NT Plant-Rigid	10R-30	MFWD 190	34,700	150	8	0.078	1.60	1.83	1.02	0.31	4.77	2.02	2.03	8.83
NT Plant-Rigid	11R-15	MFWD 170	40,100	150	8	0.133	2.72	2.79	2.00	0.53	8.06	3.98	3.48	15.53
NT Plant-Rigid	11R-20	MFWD 170	37,600	150	8	0.107	2.19	2.24	1.51	0.43	6.37	3.00	2.79	12.18
NT Plant-Rigid	12R-20	MFWD 190	44,200	150	8	0.098	2.00	2.29	1.62	0.39	6.31	3.22	2.54	12.09
NT Plant-Rigid	12R-30	MFWD 190	50,300	150	8	0.065	1.33	1.53	1.23	0.26	4.36	2.44	1.69	8.50
NT Plant-Rigid	13R-18/20	MFWD 225	41,380	150	8	0.090	1.85	2.51	1.41	0.45	6.24	2.79	2.98	12.02
NT Plant-Rigid	15R-15	MFWD 190	51,100	150	8	0.105	2.14	2.45	2.01	0.41	7.03	3.99	2.72	13.74
NT Plant-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.051	1.05	1.43	1.95	0.26	4.70	3.88	1.69	10.28
NT Plant-TwinRow	8R-30/40	MFWD 225	81,600	150	8	0.077	1.58	2.14	2.37	0.39	6.50	4.71	2.54	13.75
One Trip Plow	4R-38	MFWD 170	20,000	150	10	0.146	1.66	3.06	1.36	0.58	6.69	2.13	3.82	12.65
One Trip Plow	6R-38	MFWD 190	24,000	150	10	0.097	1.10	2.27	1.08	0.38	4.85	1.70	2.51	9.07
One Trip Plow	8R-38	MFWD 225	35,700	150	10	0.073	0.83	2.04	1.23	0.37	4.49	1.92	2.42	8.84
Paratill & Bed Fold.	8R-38	MFWD 225	50,300	150	12	0.080	0.91	2.23	1.46	0.40	5.02	2.64	2.64	10.32
Paratill & Bed Fold.	8R-38 2x1	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Fold.	10R-30	MFWD 225	32,100	150	12	0.081	0.92	2.26	0.94	0.41	4.54	1.70	2.67	8.93

(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-----							
Paratill & Bed Fold.	12R-38	MFWD 225	63,900	150	12	0.053	0.61	1.48	1.24	0.27	3.61	2.23	1.76	7.61
Paratill & Bed Rigid	4R-30	MFWD 225	12,200	150	12	0.204	2.31	5.65	0.90	1.03	9.90	1.62	6.69	18.22
Paratill & Bed Rigid	4R-38	MFWD 225	12,200	150	12	0.160	1.82	4.45	0.70	0.81	7.79	1.27	5.27	14.35
Paratill & Bed Rigid	6R-30	MFWD 225	16,000	150	12	0.136	1.54	3.77	0.78	0.68	6.79	1.41	4.46	12.67
Paratill & Bed Rigid	6R-38	MFWD 225	17,000	150	12	0.107	1.22	2.97	0.66	0.54	5.39	1.19	3.52	10.11
Paratill & Bed Rigid	8R-30	MFWD 225	21,100	150	12	0.102	1.15	2.82	0.77	0.51	5.28	1.40	3.34	10.03
Paratill & Bed Rigid	8R-38	MFWD 225	22,200	150	12	0.080	0.91	2.23	0.64	0.40	4.20	1.16	2.64	8.02
Paratill & Bed Rigid	10R-30	MFWD 225	24,400	150	12	0.081	0.92	2.26	0.72	0.41	4.32	1.29	2.67	8.30
Peanut Cond.& Lifter	6-Row	MFWD 190	11,000	300	20	0.100	1.13	2.33	0.18	0.39	4.05	0.28	2.58	6.92
Peanut Conditioner	6-Row	MFWD 190	11,500	300	20	0.100	1.13	2.33	0.23	0.39	4.10	0.26	2.58	6.95
Peanut Dig/Invertor	4R-30	MFWD 190	20,900	300	15	0.235	2.67	5.51	1.22	0.93	10.35	1.52	6.10	17.99
Peanut Dig/Invertor	4R-38	MFWD 190	20,900	300	15	0.186	2.11	4.35	0.96	0.74	8.17	1.20	4.82	14.20
Peanut Dig/Invertor	6R-38	MFWD 190	30,300	300	15	0.124	1.40	2.89	0.65	0.49	5.46	1.16	3.21	9.83
Peanut Dump Cart	6-Row	MFWD 190	34,900	300	20	0.310	3.51	7.24	0.63	1.23	12.63	2.70	8.02	23.36
Peanut Harvester	4R-30	MFWD 225	95,400	300	20	0.849	9.64	23.52	4.59	4.28	42.05	18.74	27.86	88.66
Peanut Harvester	4R-38	MFWD 225	95,400	300	20	0.934	10.60	25.86	5.05	4.71	46.24	21.45	30.63	98.33
Peanut Harvester	6R-38	MFWD 225	118,000	300	20	0.625	7.09	17.29	3.56	3.15	31.11	17.75	20.48	69.34
Peanut Lifter	6-Row	MFWD 225	4,000	300	20	0.100	1.13	2.76	0.08	0.50	4.48	0.09	3.27	7.86
Peanut Plt&Pre Fold.	12R-38	MFWD 190	66,100	150	8	0.080	1.64	1.87	1.99	0.32	5.83	3.95	2.08	11.87
Peanut Plt&Pre Rigid	8R-30	MFWD 190	36,000	150	8	0.152	3.11	3.57	2.06	0.60	9.36	4.09	3.95	17.40
Peanut Plt&Pre Rigid	8R-38	MFWD 190	32,900	150	8	0.120	2.46	2.82	1.49	0.48	7.25	2.95	3.12	13.34
Pipe Spool 160ac	1/4m roll	2WD 130	3,470	15	12	0.003	0.09	0.04	0.00	0.00	0.15	0.07	0.05	0.27
Pipe Trailer 1m/160a	30'	2WD 130	1,100	100	15	0.003	0.17	0.05	0.00	0.01	0.24	0.00	0.06	0.31
Plant & Pre-Folding	8R-38	MFWD 170	40,000	150	8	0.080	1.63	1.67	1.20	0.32	4.84	2.38	2.09	9.32
Plant & Pre-Folding	8R-38 2x1	MFWD 170	66,100	150	8	0.053	1.09	1.11	1.32	0.21	3.74	2.62	1.39	7.76
Plant & Pre-Folding	12R-20	MFWD 190	60,400	150	8	0.101	2.07	2.37	2.29	0.40	7.15	4.56	2.62	14.34
Plant & Pre-Folding	12R-30	MFWD 190	62,800	150	8	0.067	1.38	1.58	1.59	0.26	4.82	3.16	1.75	9.74
Plant & Pre-Folding	12R-38	MFWD 190	66,100	150	8	0.053	1.09	1.24	1.32	0.21	3.87	2.62	1.38	7.88
Plant & Pre-Folding	16R-30	MFWD 190	88,000	150	8	0.050	1.03	1.18	1.67	0.20	4.10	3.32	1.31	8.73
Plant & Pre-Folding	23R-15	MFWD 190	98,500	150	8	0.070	1.43	1.64	2.60	0.28	5.97	5.16	1.82	12.96
Plant & Pre-Folding	24R-15	MFWD 225	104,000	150	8	0.067	1.38	1.87	2.63	0.34	6.23	5.23	2.21	13.69
Plant & Pre-Folding	24R-20	MFWD 190	114,000	150	8	0.050	1.03	1.18	2.17	0.20	4.59	4.30	1.31	10.21
Plant & Pre-Folding	24R-30	MFWD 190	138,000	150	8	0.033	0.69	0.79	1.75	0.13	3.36	3.47	0.87	7.71
Plant & Pre-Folding	31R-15	MFWD 225	121,000	150	8	0.052	1.07	1.45	2.38	0.26	5.16	4.72	1.72	11.61
Plant & Pre-Folding	32R-15	MFWD 225	132,000	150	8	0.050	1.03	1.40	2.51	0.25	5.21	4.98	1.66	11.85
Plant & Pre-Folding	36R-20	MFWD 225	148,000	150	8	0.033	0.69	0.93	1.87	0.17	3.67	3.72	1.10	8.51
Plant & Pre-Rigid	4R-30	2WD 130	23,000	150	8	0.203	4.14	3.24	1.75	0.54	9.68	3.47	3.37	16.53
Plant & Pre-Rigid	4R-38	2WD 130	24,500	150	8	0.159	3.26	2.55	1.46	0.42	7.71	2.91	2.65	13.28
Plant & Pre-Rigid	6R-30	MFWD 150	31,500	150	8	0.135	2.76	2.49	1.59	0.46	7.32	3.17	2.89	13.39
Plant & Pre-Rigid	6R-38	MFWD 150	28,500	150	8	0.106	2.18	1.97	1.14	0.36	5.66	2.26	2.28	10.21
Plant & Pre-Rigid	8R-30	MFWD 170	36,000	150	8	0.101	2.07	2.12	1.37	0.40	5.97	2.71	2.64	11.34
Plant & Pre-Rigid	8R-38	MFWD 170	32,900	150	8	0.080	1.63	1.67	0.99	0.32	4.62	1.96	2.09	8.68
Plant & Pre-Rigid	10R-30	MFWD 190	34,400	150	8	0.081	1.65	1.89	1.04	0.32	4.92	2.07	2.10	9.11
Plant & Pre-Rigid	11R-15	MFWD 170	39,300	150	8	0.148	3.02	3.09	2.18	0.59	8.90	4.33	3.86	17.10
Plant & Pre-Rigid	11R-20	MFWD 170	36,800	150	8	0.110	2.26	2.32	1.53	0.44	6.56	3.03	2.89	12.49
Plant & Pre-Rigid	12R-20	MFWD 190	42,900	150	8	0.101	2.07	2.37	1.63	0.40	6.48	3.24	2.62	12.35
Plant & Pre-Rigid	12R-30	MFWD 190	49,000	150	8	0.067	1.38	1.58	1.24	0.26	4.47	2.46	1.75	8.69
Plant & Pre-Rigid	13R-18/20	MFWD 225	41,375	150	8	0.093	1.90	2.59	1.45	0.47	6.42	2.88	3.06	12.37
Plant & Pre-Rigid	15R-15	MFWD 190	49,800	150	8	0.108	2.21	2.53	2.02	0.43	7.21	4.02	2.81	14.05
Plant & Pre-TwinRow	12R-30/40	MFWD 225	101,000	150	8	0.053	1.09	1.47	2.02	0.26	4.86	4.01	1.75	10.63
Plant & Pre-TwinRow	8R-30/40	MFWD 225	82,400	150	8	0.080	1.63	2.22	2.48	0.40	6.74	4.91	2.63	14.29
Plant - Folding	8R-38	MFWD 170	35,100	150	8	0.074	1.52	1.55	0.98	0.29	4.35	1.94	1.94	8.24
Plant - Folding	8R-38 2x1	MFWD 170	59,600	150	8	0.049	1.01	1.03	1.10	0.19	3.35	2.19	1.29	6.85
Plant - Folding	12R-20	MFWD 190	55,400	150	8	0.094	1.92	2.20	1.95	0.37	6.46	3.88	2.44	12.79
Plant - Folding	12R-30	MFWD 190	57,800	150	8	0.062	1.28	1.46	1.36	0.25	4.36	2.70	1.62	8.69
Plant - Folding	12R-38	MFWD 190	59,600	150	8	0.049	1.01	1.15	1.10	0.19	3.47	2.19	1.28	6.96
Plant - Folding	16R-30	MFWD 190	81,400	150	8	0.047	0.96	1.10	1.43	0.18	3.69	2.85	1.22	7.76
Plant - Folding	23R-15	MFWD 190	93,500	150	8	0.065	1.33	1.53	2.29	0.26	5.42	4.55	1.69	11.67
Plant - Folding	24R-15	MFWD 225	99,000	150	8	0.062	1.28	1.73	2.33	0.31	5.67	4.62	2.06	12.36
Plant - Folding	24R-20	MFWD 190	108,000	150	8	0.047	0.96	1.10	1.90	0.18	4.16	3.78	1.22	9.16
Plant - Folding	24R-30	MFWD 190	128,100	150	8	0.031	0.64	0.73	1.50	0.12	3.01	2.99	0.81	6.81
Plant - Folding	31R-15	MFWD 225	111,000	150	8	0.048	0.99	1.34	2.02	0.24	4.61	4.02	1.59	10.23
Plant - Folding	32R-15	MFWD 225	123,000	150	8	0.047	0.96	1.30	2.17	0.23	4.67	4.31	1.54	10.53
Plant - Folding	36R-20	MFWD 225	138,000	150	8	0.031	0.64	0.86	1.62	0.15	3.29	3.22	1.03	7.55
Plant - Rigid	4R-30	2WD 130	18,000	150	8	0.188	3.84	3.01	1.27	0.50	8.64	2.52	3.13	14.29
Plant - Rigid	4R-38	2WD 130	19,500	150	8	0.148	3.03	2.37	1.08	0.39	6.88	2.15	2.46	11.50
Plant - Rigid	6R-30	MFWD 150	26,600	150	8	0.125	2.56	2.31	1.25	0.43	6.57	2.48	2.68	11.74
Plant - Rigid	6R-38	MFWD 150	23,500	150	8	0.099	2.02	1.83	0.87	0.34	5.07	1.73	2.12	8.92
Plant - Rigid	8R-30	MFWD 170	31,000	150	8	0.094	1.92	1.97	1.09	0.37	5.37	2.17	2.45	10.00
Plant - Rigid	8R-38	MFWD 170	27,900	150	8	0.074	1.52	1.55	0.77	0.29	4.15	1.54	1.94	7.64
Plant - Rigid	10R-30	MFWD 190	29,400	150	8	0.075	1.53	1.76	0.83	0.30	4.43	1.64	1.95	8.03
Plant - Rigid	11R-15	MFWD 170	34,300	150	8	0.137	2.80	2.87	1.77	0.55	8.01	3.51	3.58	15.11
Plant - Rigid	11R-20	MFWD 170	31,800	150	8	0.103	2.10	2.15	1.22	0.41	5.90	2.43	2.68	11.02
Plant - Rigid	12R-20	MFWD 190	37,900	150	8	0.094	1.92	2.20	1.34	0.37	5.84	2.65	2.44	10.94
Plant - Rigid	12R-30	MFWD 190	44,000	150	8	0.062	1.28	1.46	1.03	0.25	4.03	2.05	1.62	7.72
Plant - Rigid	13R-18/20	MFWD 225	41,100	150	8	0.086	1.77	2.40	1.33	0.43	5.95	2.65	2.84	11.46
Plant - Rigid	15R-15	2WD 150	43,200	150	8	0.094	1.92	1.73	1.52	0.30	5.49	3.02	1.89	10.42
Plant - TwinRow	12R-30/40	MFWD 225	94,700	150	8	0.049	1.01	1.37	1.76	0.25	4.39	3.49	1.62	9.52
Plant - TwinRow	8R-30/40	MFWD 225	77,400	150	8	0.074	1.52	2.06	2.16	0.37	6.12	4.29	2.44	12.85

(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-----							
Ridge Till Cult + PD	8R-30	2WD 150	27,000	200	12	0.110	1.74	2.02	1.42	0.35	5.55	1.49	2.21	9.26
Ridge Till Cult + PD	12R-30	2WD 190	37,600	200	12	0.073	1.16	1.71	1.32	0.25	4.45	1.38	1.63	7.47
Ridge Till Cultivate	8R-30	2WD 170	22,000	200	12	0.103	1.17	2.15	1.08	0.35	4.76	1.14	2.29	8.20
Ridge Till Cultivate	12R-30	2WD 190	32,600	200	12	0.068	0.78	1.60	1.07	0.23	3.69	1.12	1.53	6.36
Rip/Bed/Till-Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.82	1.70	0.11	0.29	2.93	0.55	1.89	5.38
Rip/Bed/Till-Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.69	1.70	0.14	0.31	2.85	0.70	2.01	5.58
Rip/Bed/Till-Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.52	1.27	0.10	0.23	2.14	0.52	1.51	4.18
Rip/Bed/Till-Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.09	4.32	0.11	0.73	7.27	0.59	4.78	12.65
Rip/Bed/Till-Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.66	3.42	0.09	0.58	5.77	0.47	3.79	10.04
Rip/Bed/Till-Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.10	2.27	0.09	0.38	3.86	0.48	2.51	6.86
Rip/Bed/Till-Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.57	3.24	0.17	0.55	5.55	0.88	3.59	10.03
Rip/Bed/Till-Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.82	1.70	0.09	0.29	2.92	0.46	1.89	5.27
Rip/Bed/Till-Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.39	2.88	0.12	0.49	4.89	0.61	3.19	8.69
Ripper Conditioner	6-Row	MFWD 225	18,200	150	12	0.107	1.22	2.97	0.70	0.54	5.44	1.27	3.52	10.24
Ripper Conditioner	8-Row	MFWD 225	19,000	150	12	0.080	0.91	2.23	0.55	0.40	4.11	0.99	2.64	7.76
Roller/Cultipacker	12'	2WD 130	5,020	300	12	0.124	1.41	1.98	0.14	0.33	3.88	0.20	2.06	6.15
Roller/Cultipacker	20'	MFWD 150	14,700	300	12	0.074	0.84	1.37	0.25	0.25	2.74	0.36	1.59	4.70
Roller/Cultipacker	30'	MFWD 170	14,900	300	12	0.049	0.56	1.04	0.17	0.19	1.98	0.24	1.29	3.52
Roller/Cultipacker	38'	MFWD 225	16,100	300	12	0.039	0.44	1.08	0.14	0.19	1.88	0.21	1.28	3.38
Roller/Stubble	20'	2WD 50	10,900	300	12	0.074	0.84	0.45	0.19	0.05	1.55	0.27	0.32	2.15
Roller/Stubble	32'	MFWD 225	18,500	300	12	0.046	0.52	1.29	0.20	0.23	2.26	0.28	1.52	4.07
Rotary Cutter	7'	MFWD 130	3,920	185	10	0.168	1.91	2.69	0.53	0.48	5.62	0.39	3.01	9.03
Rotary Cutter	12'	2WD 150	10,100	185	10	0.098	1.11	1.81	0.80	0.31	4.04	0.58	1.97	6.60
Rotary Cutter-Flex	15'	MFWD 150	17,500	185	10	0.078	0.89	1.44	1.11	0.26	3.72	0.81	1.67	6.21
Rotary Cutter-Flex	20'	MFWD 150	25,000	185	10	0.058	0.66	1.08	1.19	0.20	3.15	0.87	1.25	5.28
Row Cond & Inc-Fold.	26'	MFWD 190	22,300	100	10	0.063	1.00	1.48	0.35	0.25	3.09	1.54	1.64	6.28
Row Cond & Inc-Fold.	38'	MFWD 225	27,900	100	10	0.043	0.68	1.20	0.30	0.21	2.41	1.32	1.42	5.16
Row Cond & Inc-Rigid	13'	2WD 130	11,100	100	10	0.126	2.01	2.02	0.35	0.33	4.73	1.54	2.10	8.38
Row Cond & Inc-Rigid	21'	2WD 170	14,600	100	10	0.078	1.24	1.64	0.28	0.26	3.44	1.25	1.74	6.44
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.62	0.11	0.10	1.26	0.48	0.68	2.43
Row Cond Folding	26'	MFWD 225	17,300	100	10	0.059	0.67	1.65	0.25	0.30	2.89	1.13	1.95	5.97
Row Cond Folding	38'	MFWD 225	21,100	100	10	0.040	0.46	1.13	0.21	0.20	2.01	0.94	1.33	4.29
Row Cond Rigid	13'	2WD 130	6,100	100	10	0.119	1.35	1.91	0.18	0.31	3.76	0.79	1.98	6.54
Row Cond Rigid	21'	2WD 170	9,600	100	10	0.073	0.83	1.54	0.17	0.25	2.81	0.77	1.64	5.23
Row Cond Rigid	26'	MFWD 190	11,600	100	10	0.059	0.67	1.39	0.17	0.23	2.48	0.75	1.54	4.78
Spin Spreader	5 ton	MFWD 190	10,600	100	8	0.042	0.85	0.98	0.25	0.16	2.26	0.52	1.08	3.87
Spray (ATV Ropewick)	75"	800 CC	540	200	8	0.260	4.13	0.47	0.06	0.43	5.11	0.08	1.78	6.98
Spray (ATV)	12'/17'	800 CC	550	200	8	0.112	1.79	0.20	0.02	0.19	2.21	0.03	0.77	3.02
Spray (ATV)	20'	800 CC	1,250	200	8	0.084	1.34	0.15	0.04	0.14	1.69	0.06	0.58	2.33
Spray (Band)	27' Fold	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Band)	40' Fold	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Band)	50' Fold	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 (Band)	53' Fold	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 (Band)	60' Fold	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,070	200	8	0.130	2.06	2.40	0.30	0.44	5.22	0.38	2.78	8.39
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,960	200	8	0.084	1.34	1.56	0.23	0.29	3.43	0.29	1.80	5.53
Spray (Bcast/HB)	27' Fold	MFWD 170	9,910	200	8	0.062	0.99	1.31	0.29	0.25	2.84	0.36	1.63	4.84
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,850	200	8	0.062	0.99	1.31	0.20	0.25	2.75	0.25	1.63	4.64
Spray (Bcast/HB)	30' Fold	MFWD 170	13,000	200	8	0.056	0.89	1.17	0.34	0.22	2.64	0.42	1.47	4.54
Spray (Bcast/HB)	40' Fold	MFWD 170	13,800	200	8	0.042	0.67	0.88	0.27	0.16	2.00	0.34	1.10	3.44
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	0.99	1.31	0.60	0.25	3.16	0.74	1.63	5.54
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.67	0.88	0.48	0.16	2.21	0.60	1.10	3.91
Spray (Broadcast)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Broadcast)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Broadcast)	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 (Broadcast)	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 (Broadcast)	60'	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Direct/Hood)	8R-30	MFWD 170	14,500	200	8	0.084	1.34	1.76	0.57	0.33	4.02	0.71	2.20	6.95
Spray (Direct/Hood)	8R-38	MFWD 170	15,700	200	8	0.066	1.06	1.39	0.49	0.26	3.22	0.61	1.74	5.57
Spray (Direct/Hood)	12R-30	MFWD 170	18,400	200	8	0.056	0.89	1.17	0.48	0.22	2.78	0.60	1.47	4.86
Spray (Direct/Hood)	12R-38	MFWD 170	18,800	200	8	0.044	0.70	0.93	0.39	0.17	2.20	0.48	1.16	3.85
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.34	1.76	0.41	0.33	3.86	0.51	2.20	6.59
Spray (Direct/Layby)	8R-38	MFWD 170	11,000	200	8	0.066	1.06	1.39	0.34	0.26	3.07	0.42	1.74	5.24
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.07	1.41	0.38	0.27	3.14	0.48	1.76	5.39
Spray (Direct/Layby)	12R-30	MFWD 170	15,400	200	8	0.056	0.89	1.17	0.40	0.22	2.70	0.50	1.47	4.68
Spray (Direct/Layby)	12R-38	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.00	1.32	0.29	0.25	2.87	0.36	1.65	4.89
Spray (Levee Leaper)	50'	MFWD 225	11,500	200	8	0.033	0.53	0.93	0.18	0.17	1.82	0.22	1.10	3.16
Spray (Pull Type)	60'	MFWD 225	26,500	200	8	0.028	0.44	0.78	0.35	0.14	1.72	0.43	0.92	3.08
Spray (Pull Type)	80'	MFWD 225	36,400	200	8	0.021	0.33	0.58	0.36	0.10	1.38	0.44	0.69	2.53
Spray (Pull Type)	90'	2WD 50	36,800	200	8	0.018	0.29	0.11	0.32	0.01	0.75	0.40	0.08	1.23
Spray (Pull Type)	100'	MFWD 225	39,000	200	8	0.016	0.26	0.46	0.30	0.08	1.13	0.38	0.55	2.07
Spray (Pull Type)	120'	MFWD 225	48,800	200	8	0.014	0.22	0.39	0.32	0.07	1.00	0.40	0.46	1.87
Spray (Ropewick)	20'	MFWD 190	2,390	200	8	0.084	1.34	1.97	0.09	0.33	3.75	0.11	2.19	6.06
Spray (Spot)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Spot)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12

(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	Annual	Useful	Perf	Labor	Fuel	---R&M---		Total	--Fixed--		Total
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost
			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 PowerMax	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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