

**RICE
2015
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2014-04**

October 2014

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 2015 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

A list of individuals who contributed to the development of the agricultural enterprise budgets follows this acknowledgment. The administrative committee structure and enterprise committees have shown a spirit of cooperation seldom found when so many work together. A team effort has led to many improvements in the budgets over the years.

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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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2015 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 2014. (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 2014 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 September. The basis is determined by subtracting the average daily cash price for the month of September 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	148.0000	51.80	_____
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	12.55	0.5757	7.23	_____
Harvesters	hour	12.55	0.2030	2.55	_____
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	12.53	0.5887	7.38	_____
DIESEL FUEL					
Tractors	gal	3.20	5.4144	17.32	_____
Harvesters	gal	3.20	3.3975	10.87	_____
Flood Irr.	gal	3.20	26.8827	86.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	6.88	1.0000	6.88	_____
Flood Irr.	acre	12.43	1.0000	12.43	_____
INTEREST ON OP. CAP.	acre	10.33	1.0000	10.33	_____
TOTAL DIRECT EXPENSES				680.55	_____
FIXED EXPENSES					
Implements	acre	15.91	1.0000	15.91	_____
Tractors	acre	17.51	1.0000	17.51	_____
Harvesters	acre	26.32	1.0000	26.32	_____
Flood Irr.	acre	37.33	1.0000	37.33	_____
TOTAL FIXED EXPENSES				97.07	_____
TOTAL SPECIFIED EXPENSES				777.62	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	148.0000	825.84	_____

TOTAL INCOME				825.84	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	51.80	1.0000	51.80	_____
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	12.55	0.7788	9.78	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	12.53	0.5887	7.38	_____
DIESEL FUEL	gal	3.20	35.6946	114.21	_____
REPAIR & MAINTENANCE	acre	29.92	1.0000	29.92	_____
INTEREST ON OP. CAP.	acre	10.33	1.0000	10.33	_____

TOTAL DIRECT EXPENSES				680.55	_____
RETURNS ABOVE DIRECT EXPENSES				145.29	_____
TOTAL FIXED EXPENSES				97.07	_____

TOTAL SPECIFIED EXPENSES				777.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				48.22	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					80.0000				
Cruiser Maxx Rice	lbseed					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 (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
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					7.5000				
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				
Surfactant	pt					0.0750				
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	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							0.77	0.77	6.14	0.58

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				2.72		0.05	2.77		2.77
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				4.53		0.07	4.60		4.60
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				4.53		0.05	4.58		4.58
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		10.87	9.32	4.84		0.18	25.21	30.00	55.21
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	51.80					0.38	52.18		52.18
Dry Rice	bu	59.20					0.43	59.63		59.63
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	4.50	89.23	13.12	33.53		2.30	142.68	41.26	183.94
TOTALS		460.27	114.21	29.92	65.82	0.00	10.33	680.55	97.07	777.62

Note: Cost of production estimates are based on 2014 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, 2015

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	825.84	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	35.57	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	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	51.80	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	3.15	0.00	0.00	0.00	0.00	0.00	16.21	9.52	11.33	11.33	10.67	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	22.62	23.46	23.46	23.46	12.34	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.64	6.94	2.06	2.06	9.73	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.70	3.84	1.58	0.72	1.05	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	126.09	212.95	109.91	66.25	144.79	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-126.09	-212.95	-109.91	-66.25	681.05	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-135.57	-348.52	-458.43	-524.68	156.37	145.29

Note: Cost of production estimates are based on 2014 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, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-314 -412	-294 -391	-273 -370	-253 -350	-232 -329	-211 -308	-191 -288	-170 -267	-149 -246	-129 -226	-108 -205
60	88.80	bu	-264 -361	-239 -336	-214 -311	-189 -286	-165 -262	-140 -237	-115 -212	-90 -187	-65 -163	-41 -138	-16 -113
70	103.60	bu	-213 -310	-184 -281	-155 -252	-126 -223	-97 -194	-68 -165	-40 -137	-11 -108	17 -79	46 -50	75 -21
80	118.40	bu	-162 -259	-129 -226	-96 -193	-63 -160	-30 -127	2 -94	35 -61	68 -28	101 4	134 37	167 70
90	133.20	bu	-111 -208	-74 -171	-37 -134	-0 -97	36 -60	73 -23	111 13	148 51	185 88	222 125	259 162
100	148.00	bu	-61 -158	-19 -116	21 -75	62 -34	103 6	145 48	186 89	227 130	269 172	310 213	351 254
110	162.80	bu	-10 -107	35 -62	80 -16	125 28	171 74	216 119	262 165	307 210	352 255	398 301	443 346
120	177.60	bu	40 -56	89 -7	139 42	188 91	238 141	288 191	337 240	387 290	436 339	486 389	535 438
130	192.40	bu	91 -5	144 47	198 101	252 155	305 208	359 262	413 316	466 369	520 423	574 477	627 530
140	207.20	bu	141 44	199 102	257 160	315 218	373 276	430 333	488 391	546 449	604 507	662 565	719 622
150	222.00	bu	192 95	254 157	316 219	378 281	440 343	502 405	564 467	626 529	688 591	750 652	811 714

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 2014 input prices.

Table 2.A Estimated costs per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
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	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	9.78	1.0000	9.78	_____
TOTAL DIRECT EXPENSES				644.50	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				757.72	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
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	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	9.78	1.0000	9.78	_____

TOTAL DIRECT EXPENSES				644.50	_____
RETURNS ABOVE DIRECT EXPENSES				225.98	_____
TOTAL FIXED EXPENSES				113.22	_____

TOTAL SPECIFIED EXPENSES				757.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				112.76	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					80.0000				
Cruiser Maxx Rice	lbseed					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 (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
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					7.5000				
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				
Surfactant	pt					0.0750				
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	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							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48		1.82	111.28	61.41	172.69
TOTALS		464.02	95.87	27.95	46.88	0.00	9.78	644.50	113.22	757.72

Note: Cost of production estimates are based on 2014 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, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	35.57	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	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	54.60	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	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.55	3.67	1.43	0.61	1.08	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	119.01	203.27	99.34	55.72	146.60	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-119.01	-203.27	-99.34	-55.72	723.88	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-128.49	-331.76	-431.10	-486.82	237.06	225.98

Note: Cost of production estimates are based on 2014 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, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-259 -372	-237 -350	-215 -328	-193 -307	-172 -285	-150 -263	-128 -241	-106 -220	-85 -198	-63 -176	-41 -154
60	93.60	bu	-205 -318	-179 -292	-153 -266	-127 -240	-101 -214	-75 -188	-48 -162	-22 -136	3 -109	29 -83	55 -57
70	109.20	bu	-152 -265	-121 -234	-91 -204	-60 -173	-30 -143	0 -113	30 -82	61 -52	91 -21	122 8	152 39
80	124.80	bu	-98 -211	-63 -177	-29 -142	5 -107	40 -72	75 -37	110 -2	145 31	179 66	214 101	249 136
90	140.40	bu	-45 -158	-5 -119	33 -80	72 -40	111 -1	150 37	189 76	229 115	268 155	307 194	346 233
100	156.00	bu	8 -104	51 -61	95 -17	138 25	182 69	225 112	269 156	313 199	356 243	400 286	443 330
110	171.60	bu	61 -51	109 -3	157 44	205 92	253 140	301 188	349 235	396 283	444 331	492 379	540 427
120	187.20	bu	115 2	167 54	219 106	272 158	324 211	376 263	428 315	480 367	533 419	585 472	637 524
130	202.80	bu	168 55	225 112	282 168	338 225	395 281	451 338	508 395	564 451	621 508	678 564	734 621
140	218.40	bu	222 109	283 170	344 231	405 291	466 352	527 413	587 474	648 535	709 596	770 657	831 718
150	234.00	bu	275 162	341 227	406 293	471 358	537 423	602 489	667 554	732 619	798 684	863 750	928 815

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 2014 input prices.

Table 3.A Estimated costs per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	93.6000	14.04	_____
Karate Z	oz	2.85	1.0000	2.85	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
Rice Seed (Levees)	lb	0.38	13.6000	5.17	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
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	12.55	0.5563	6.98	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.2074	16.66	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	18.7364	59.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	12.12	1.0000	12.12	_____
INTEREST ON OP. CAP.	acre	9.64	1.0000	9.64	_____
TOTAL DIRECT EXPENSES				632.75	_____
FIXED EXPENSES					
Implements	acre	15.47	1.0000	15.47	_____
Tractors	acre	16.73	1.0000	16.73	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.79	1.0000	59.79	_____
TOTAL FIXED EXPENSES				114.80	_____
TOTAL SPECIFIED EXPENSES				747.55	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	16.89	1.0000	16.89	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	35.57	1.0000	35.57	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
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	12.55	0.7323	9.19	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	26.8883	86.03	_____
REPAIR & MAINTENANCE	acre	28.24	1.0000	28.24	_____
INTEREST ON OP. CAP.	acre	9.64	1.0000	9.64	_____

TOTAL DIRECT EXPENSES				632.75	_____
RETURNS ABOVE DIRECT EXPENSES				237.73	_____
TOTAL FIXED EXPENSES				114.80	_____

TOTAL SPECIFIED EXPENSES				747.55	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				122.93	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					80.0000				
Cruiser Maxx Rice	lbseed					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 (Levees)	lb					13.6000				
Cruiser Maxx Rice	lbseed					13.6000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
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					7.5000				
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				
Surfactant	pt					0.0750				
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	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							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40					0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00					0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed (Levees)	lb	5.17					0.11	5.28		5.28
Cruiser Maxx Rice	lbseed	2.04					0.04	2.08		2.08
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	30.48					0.56	31.04		31.04
Facet L	pt	20.72					0.38	21.10		21.10
Permit 75 DF	oz	9.87					0.18	10.05		10.05
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	3.00					0.04	3.04		3.04
Clincher SF	oz	17.25					0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60					0.05	3.65		3.65
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.50					0.05	4.55		4.55
Stratego	pt	18.68					0.21	18.89		18.89
Surfactant	pt	0.27						0.27		0.27
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	54.60					0.40	55.00		55.00
Dry Rice	bu	62.40					0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	10.83	62.50	12.68	11.84		1.68	99.53	62.99	162.52
TOTALS		472.60	86.03	28.24	36.24	0.00	9.64	632.75	114.80	747.55

Note: Cost of production estimates are based on 2014 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, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	14.04	0.00	0.00	2.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	35.57	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	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	54.60	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	3.15	0.00	0.00	0.00	0.00	0.00	10.03	2.72	3.62	3.62	9.49	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	19.73	15.64	15.64	15.64	10.51	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.79	6.77	1.89	1.89	8.41	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.65	3.57	1.36	0.55	1.07	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	123.45	197.89	93.99	50.38	146.48	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-123.45	-197.89	-93.99	-50.38	724.00	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-132.93	-330.82	-424.81	-475.19	248.81	237.73

Note: Cost of production estimates are based on 2014 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, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-247 -362	-225 -340	-203 -318	-182 -296	-160 -275	-138 -253	-116 -231	-95 -209	-73 -188	-51 -166	-29 -144
60	93.60	bu	-193 -308	-167 -282	-141 -256	-115 -230	-89 -204	-63 -178	-37 -152	-11 -125	15 -99	41 -73	67 -47
70	109.20	bu	-140 -255	-109 -224	-79 -194	-48 -163	-18 -133	11 -102	42 -72	72 -41	103 -11	133 19	164 49
80	124.80	bu	-86 -201	-52 -166	-17 -132	17 -97	52 -62	87 -27	122 7	156 42	191 76	226 111	261 146
90	140.40	bu	-33 -148	5 -109	44 -69	84 -30	123 8	162 47	201 86	240 126	279 165	319 204	358 243
100	156.00	bu	20 -94	63 -51	107 -7	150 35	194 79	237 122	281 166	324 209	368 253	411 297	455 340
110	171.60	bu	73 -41	121 6	169 54	217 102	265 150	312 198	360 246	408 293	456 341	504 389	552 437
120	187.20	bu	127 12	179 64	231 116	283 168	336 221	388 273	440 325	492 377	544 430	597 482	649 534
130	202.80	bu	180 65	237 122	293 178	350 235	406 292	463 348	520 405	576 461	633 518	689 575	746 631
140	218.40	bu	234 119	295 180	355 241	416 302	477 363	538 423	599 484	660 545	721 606	782 667	843 728
150	234.00	bu	287 172	352 238	418 303	483 368	548 433	614 499	679 564	744 629	809 695	875 760	940 825

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 2014 input prices.

Table 4.A Estimated costs per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	0.7500	18.68	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Riceshot	pt	3.81	8.0000	30.48	_____
Facet L	pt	10.36	2.0000	20.72	_____
Permit 75 DF	oz	19.73	0.5000	9.87	_____
Clincher SF	oz	2.30	7.5000	17.25	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	80.0000	12.00	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.38	80.0000	30.40	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	1.0000	3.60	_____
Surfactant	pt	3.60	0.0750	0.27	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	164.0000	57.40	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4510	5.66	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	4.4111	14.11	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	15.4779	49.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	2.36	1.0000	2.36	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	9.86	1.0000	9.86	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____
TOTAL DIRECT EXPENSES				601.93	_____
FIXED EXPENSES					
Implements	acre	14.65	1.0000	14.65	_____
Tractors	acre	14.35	1.0000	14.35	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				110.37	_____
TOTAL SPECIFIED EXPENSES				712.30	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	164.0000	915.12	_____

TOTAL INCOME				915.12	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.88	1.0000	15.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	18.68	1.0000	18.68	_____
HERBICIDES	acre	104.13	1.0000	104.13	_____
INSECTICIDES	acre	14.85	1.0000	14.85	_____
SEED/PLANTS	acre	30.40	1.0000	30.40	_____
ADJUVANTS	acre	3.87	1.0000	3.87	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	57.40	1.0000	57.40	_____
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	12.55	0.6270	7.87	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	22.8336	73.05	_____
REPAIR & MAINTENANCE	acre	25.42	1.0000	25.42	_____
INTEREST ON OP. CAP.	acre	8.97	1.0000	8.97	_____

TOTAL DIRECT EXPENSES				601.93	_____
RETURNS ABOVE DIRECT EXPENSES				313.19	_____
TOTAL FIXED EXPENSES				110.37	_____

TOTAL SPECIFIED EXPENSES				712.30	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				202.82	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					80.0000				
Cruiser Maxx Rice	lbseed					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				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					2.0000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
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					7.5000				
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				
Surfactant	pt					0.0750				
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	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							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22			0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93			0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59			0.16	7.29	5.58	12.87
Rice Seed Conv.	lb	30.40						0.67	31.07		31.07
Cruiser Maxx Rice	lbseed	12.00						0.26	12.26		12.26
Roller/Cultipacker	30'		1.56	0.47	1.18			0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Command 3ME	pt	19.06						0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75						0.15	6.90		6.90
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98						0.13	7.11		7.11
DAP	cwt	10.88						0.20	11.08		11.08
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Riceshot	pt	30.48						0.56	31.04		31.04
Facet L	pt	20.72						0.38	21.10		21.10
Permit 75 DF	oz	9.87						0.18	10.05		10.05
App Fert by Air	cwt	16.25						0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13						1.16	64.29		64.29
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	3.00						0.04	3.04		3.04
Clincher SF	oz	17.25						0.25	17.50		17.50
Crop Oil Conc.(Pet.)	pt	3.60						0.05	3.65		3.65
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	9.75						0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88						0.56	38.44		38.44
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	4.50						0.05	4.55		4.55
Stratego	pt	18.68						0.21	18.89		18.89
Surfactant	pt	0.27							0.27		0.27
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	2.85						0.03	2.88		2.88
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20			0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26			0.01	0.77	0.52	1.29
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	57.40						0.42	57.82		57.82
Dry Rice	bu	65.60						0.48	66.08		66.08
Disk Heavy	28'		4.74	2.69	3.61			0.04	11.08	8.70	19.78
Flood Irr.	acre		49.52	9.86	9.53			1.12	70.03	58.56	128.59
TOTALS		460.56	73.05	25.42	33.93	0.00	8.97	601.93	110.37	712.30	

Note: Cost of production estimates are based on 2014 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, 2015

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	915.12	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	18.68	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	25.81	61.07	17.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.40	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	3.60	0.27	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	57.40	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	3.15	0.00	0.00	0.00	0.00	0.00	7.29	3.18	4.08	4.08	8.54	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	15.33	13.03	13.03	13.03	9.76	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	3.88	6.19	1.31	1.31	8.24	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	2.08	3.52	1.31	0.52	1.10	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	96.79	195.11	91.21	47.62	150.64	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-96.79	-195.11	-91.21	-47.62	764.48	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-106.27	-301.38	-392.59	-440.21	324.27	313.19

Note: Cost of production estimates are based on 2014 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, 2015

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	-----dollars-----										
50	82.00	bu	-196	-173	-151	-128	-105	-82	-59	-36	-13	9	31
			-307	-284	-261	-238	-215	-192	-169	-147	-124	-101	-78
60	98.40	bu	-140	-113	-85	-58	-30	-3	24	51	79	106	133
			-250	-223	-196	-168	-141	-113	-86	-58	-31	-3	23
70	114.80	bu	-84	-52	-20	11	43	75	107	139	171	203	235
			-194	-162	-130	-98	-66	-34	-2	29	61	93	125
80	131.20	bu	-28	8	45	81	118	154	191	228	264	301	337
			-138	-101	-65	-28	7	44	81	117	154	190	227
90	147.60	bu	28	69	110	151	192	234	275	316	357	398	439
			-82	-41	0	41	82	123	164	206	247	288	329
100	164.00	bu	84	130	175	221	267	313	358	404	450	496	541
			-25	19	65	111	157	202	248	294	340	385	431
110	180.40	bu	140	190	241	291	341	392	442	492	543	593	643
			30	80	130	181	231	281	332	382	432	483	533
120	196.80	bu	196	251	306	361	416	471	526	581	636	691	745
			86	141	196	251	306	361	415	470	525	580	635
130	213.20	bu	253	312	372	431	491	550	610	669	729	788	847
			142	202	261	321	380	440	499	559	618	678	737
140	229.60	bu	309	373	437	501	565	629	693	757	821	885	949
			199	263	327	391	455	519	583	647	711	775	839
150	246.00	bu	365	434	502	571	640	708	777	846	914	983	1051
			255	323	392	461	529	598	667	735	804	872	941

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 2014 input prices.

Table 5.A Estimated costs per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	148.0000	51.80	_____
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	12.55	0.5757	7.23	_____
Harvesters	hour	12.55	0.2030	2.55	_____
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	12.53	0.5887	7.38	_____
DIESEL FUEL					
Tractors	gal	3.20	5.4144	17.32	_____
Harvesters	gal	3.20	3.3975	10.87	_____
Flood Irr.	gal	3.20	26.8827	86.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.72	1.0000	7.72	_____
Tractors	acre	2.89	1.0000	2.89	_____
Harvesters	acre	6.88	1.0000	6.88	_____
Flood Irr.	acre	12.43	1.0000	12.43	_____
INTEREST ON OP. CAP.	acre	11.35	1.0000	11.35	_____
TOTAL DIRECT EXPENSES				719.45	_____
FIXED EXPENSES					
Implements	acre	15.91	1.0000	15.91	_____
Tractors	acre	17.51	1.0000	17.51	_____
Harvesters	acre	26.32	1.0000	26.32	_____
Flood Irr.	acre	37.33	1.0000	37.33	_____
TOTAL FIXED EXPENSES				97.07	_____
TOTAL SPECIFIED EXPENSES				816.52	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	148.0000	825.84	_____

TOTAL INCOME				825.84	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	51.80	1.0000	51.80	_____
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	12.55	0.7788	9.78	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.53	0.5887	7.38	_____
DIESEL FUEL	gal	3.20	35.6946	114.21	_____
REPAIR & MAINTENANCE	acre	29.92	1.0000	29.92	_____
INTEREST ON OP. CAP.	acre	11.35	1.0000	11.35	_____

TOTAL DIRECT EXPENSES				719.45	_____
RETURNS ABOVE DIRECT EXPENSES				106.39	_____
TOTAL FIXED EXPENSES				97.07	_____

TOTAL SPECIFIED EXPENSES				816.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				9.32	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
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					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
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				
Crop Oil Conc. (Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
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				
Crop Oil Conc. (Pet.)	pt					0.5000				
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				
Surfactant	pt					0.1000				
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	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							0.77	0.77	5.34	0.58

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00					1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50					0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CF(Levees)	lb	10.80					0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80					0.04	1.84		1.84
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Stratego	pt	24.91					0.27	25.18		25.18
Surfactant	pt	0.36						0.36		0.36
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		10.87	9.32	4.84		0.18	25.21	30.00	55.21
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	51.80					0.38	52.18		52.18
Dry Rice	bu	59.20					0.43	59.63		59.63
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	4.50	89.23	13.12	33.53		2.30	142.68	41.26	183.94
TOTALS		505.40	114.21	29.92	58.57	0.00	11.35	719.45	97.07	816.52

Note: Cost of production estimates are based on 2014 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, 2015

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	825.84	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	51.80	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	3.15	0.00	0.00	0.00	0.00	0.00	16.21	7.71	8.61	8.61	10.67	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	22.62	23.46	23.46	23.46	12.34	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.64	6.94	2.06	2.06	9.73	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.32	3.44	1.33	0.77	1.05	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	200.22	190.73	91.75	71.40	144.79	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-200.22	-190.73	-91.75	-71.40	681.05	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-209.70	-400.43	-492.18	-563.58	117.47	106.39

Note: Cost of production estimates are based on 2014 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, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-353 -450	-333 -430	-312 -409	-291 -388	-271 -368	-250 -347	-229 -327	-209 -306	-188 -285	-168 -265	-147 -244
60	88.80	bu	-303 -400	-278 -375	-253 -350	-228 -325	-203 -301	-179 -276	-154 -251	-129 -226	-104 -201	-80 -177	-55 -152
70	103.60	bu	-252 -349	-223 -320	-194 -291	-165 -262	-136 -233	-107 -204	-78 -175	-50 -147	-21 -118	7 -89	36 -60
80	118.40	bu	-201 -298	-168 -265	-135 -232	-102 -199	-69 -166	-36 -133	-3 -100	29 -67	62 -34	95 -1	128 31
90	133.20	bu	-150 -247	-113 -210	-76 -173	-39 -136	-2 -99	34 -62	72 -24	109 12	146 49	183 86	220 123
100	148.00	bu	-100 -197	-58 -155	-17 -114	23 -73	65 -31	106 9	147 50	188 91	230 133	271 174	312 215
110	162.80	bu	-49 -146	-3 -100	41 -55	86 -10	132 35	177 80	223 126	268 171	314 216	359 262	404 307
120	177.60	bu	1 -95	50 -46	100 3	150 53	199 102	249 152	298 201	348 251	397 300	447 350	496 399
130	192.40	bu	52 -44	105 8	159 62	213 116	266 169	320 223	374 277	427 330	481 384	535 438	588 491
140	207.20	bu	102 5	160 63	218 121	276 179	334 237	392 294	449 352	507 410	565 468	623 526	681 583
150	222.00	bu	153 56	215 118	277 180	339 242	401 304	463 366	525 428	587 490	649 552	711 614	773 676

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 2014 input prices.

Table 6.A Estimated costs per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
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	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	10.90	1.0000	10.90	_____
TOTAL DIRECT EXPENSES				690.75	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				803.97	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
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	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	10.90	1.0000	10.90	_____

TOTAL DIRECT EXPENSES				690.75	_____
RETURNS ABOVE DIRECT EXPENSES				179.73	_____
TOTAL FIXED EXPENSES				113.22	_____

TOTAL SPECIFIED EXPENSES				803.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				66.51	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
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					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
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				
Crop Oil Conc. (Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
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				
Crop Oil Conc. (Pet.)	pt					0.5000				
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				
Surfactant	pt					0.1000				
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	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							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22			0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93			0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59			0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00						1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50						0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18			0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Command 3ME	pt	19.06						0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75						0.15	6.90		6.90
Seed Levees											
Rice Seed CF(Levees)	lb	10.80						0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80						0.04	1.84		1.84
App by Air (10 gal)	appl	8.00						0.18	8.18		8.18
Newpath 2SL	oz	20.82						0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20						0.16	7.36		7.36
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98						0.13	7.11		7.11
DAP	cwt	10.88						0.20	11.08		11.08
App Fert by Air	cwt	16.25						0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13						1.16	64.29		64.29
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Clearpath	lb	27.53						0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20						0.13	7.33		7.33
Aim 2EC	oz	6.33						0.12	6.45		6.45
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	1.50						0.02	1.52		1.52
Beyond	oz	5.36						0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80						0.03	1.83		1.83
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	9.75						0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88						0.56	38.44		38.44
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Stratego	pt	24.91						0.27	25.18		25.18
Surfactant	pt	0.36							0.36		0.36
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	2.85						0.03	2.88		2.88
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20			0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26			0.01	0.77	0.52	1.29
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.40	55.00		55.00
Dry Rice	bu	62.40						0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61			0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48			1.82	111.28	61.41	172.69
TOTALS		509.15	95.87	27.95	46.88	0.00	10.90	690.75	113.22	803.97	

Note: Cost of production estimates are based on 2014 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, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	54.60	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	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.17	3.30	1.22	0.69	1.08	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	193.14	182.89	83.94	63.62	146.60	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-193.14	-182.89	-83.94	-63.62	723.88	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-202.62	-385.51	-469.45	-533.07	190.81	179.73

Note: Cost of production estimates are based on 2014 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, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT YIELD UNIT			dollars										
50	78.00	bu	-305 -418	-283 -396	-261 -375	-240 -353	-218 -331	-196 -309	-174 -288	-153 -266	-131 -244	-109 -222	-87 -200
60	93.60	bu	-251 -365	-225 -338	-199 -312	-173 -286	-147 -260	-121 -234	-95 -208	-69 -182	-42 -156	-16 -130	9 -103
70	109.20	bu	-198 -311	-167 -281	-137 -250	-106 -220	-76 -189	-46 -159	-15 -128	14 -98	45 -67	75 -37	106 -6
80	124.80	bu	-144 -258	-110 -223	-75 -188	-40 -153	-5 -118	29 -84	64 -49	98 -14	133 20	168 55	203 90
90	140.40	bu	-91 -204	-52 -165	-13 -126	26 -87	65 -47	104 -8	143 30	182 69	221 108	261 147	300 187
100	156.00	bu	-37 -151	5 -107	49 -64	92 -20	136 22	179 66	223 110	266 153	310 197	353 240	397 284
110	171.60	bu	15 -97	63 -49	111 -1	159 46	207 93	254 141	302 189	350 237	398 285	446 333	494 381
120	187.20	bu	69 -44	121 8	173 60	225 112	278 164	330 217	382 269	434 321	486 373	539 425	591 478
130	202.80	bu	122 9	179 65	235 122	292 179	348 235	405 292	462 348	518 405	575 462	631 518	688 575
140	218.40	bu	176 62	237 123	297 184	358 245	419 306	480 367	541 428	602 489	663 550	724 611	785 672
150	234.00	bu	229 116	294 181	360 246	425 312	490 377	556 442	621 508	686 573	751 638	817 703	882 769

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 2014 input prices.

Table 7.A Estimated costs per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	3.0000	8.55	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.26	33.0000	8.58	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc. (Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	156.0000	54.60	_____
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	12.55	0.5563	6.98	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.2074	16.66	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	18.7364	59.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	2.77	1.0000	2.77	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	12.12	1.0000	12.12	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____
TOTAL DIRECT EXPENSES				684.80	_____
FIXED EXPENSES					
Implements	acre	15.47	1.0000	15.47	_____
Tractors	acre	16.73	1.0000	16.73	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.79	1.0000	59.79	_____
TOTAL FIXED EXPENSES				114.80	_____
TOTAL SPECIFIED EXPENSES				799.60	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	156.0000	870.48	_____

TOTAL INCOME				870.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	20.85	1.0000	20.85	_____
IRRIGATION SUPPLIES	acre	8.58	1.0000	8.58	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	54.60	1.0000	54.60	_____
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	12.55	0.7323	9.19	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	26.8883	86.03	_____
REPAIR & MAINTENANCE	acre	28.24	1.0000	28.24	_____
INTEREST ON OP. CAP.	acre	10.86	1.0000	10.86	_____

TOTAL DIRECT EXPENSES				684.80	_____
RETURNS ABOVE DIRECT EXPENSES				185.68	_____
TOTAL FIXED EXPENSES				114.80	_____

TOTAL SPECIFIED EXPENSES				799.60	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				70.88	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
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					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
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					2.0000				
Aim 2EC	oz					1.0000				
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				
Crop Oil Conc. (Pet.)	pt					0.5000				
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				
Surfactant	pt					0.1000				
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	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							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22			0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93			0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59			0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00						1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50						0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18			0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80			0.04	2.00	1.05	3.05
Command 3ME	pt	19.06						0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75						0.15	6.90		6.90
Seed Levees											
Rice Seed CF(Levees)	lb	10.80						0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80						0.04	1.84		1.84
App by Air (10 gal)	appl	8.00						0.18	8.18		8.18
Newpath 2SL	oz	20.82						0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20						0.16	7.36		7.36
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98						0.13	7.11		7.11
DAP	cwt	10.88						0.20	11.08		11.08
App Fert by Air	cwt	16.25						0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13						1.16	64.29		64.29
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Clearpath	lb	27.53						0.50	28.03		28.03
Karate Z	oz	5.70						0.10	5.80		5.80
Crop Oil Conc.(Pet.)	pt	7.20						0.13	7.33		7.33
Aim 2EC	oz	6.33						0.12	6.45		6.45
Rice Management											
RICE MGT. LABOR	hour				0.91			0.02	0.93		0.93
App by Air (5 gal)	appl	1.50						0.02	1.52		1.52
Beyond	oz	5.36						0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80						0.03	1.83		1.83
Rice Management											
RICE MGT. LABOR	hour				1.81			0.03	1.84		1.84
App Fert by Air	cwt	9.75						0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88						0.56	38.44		38.44
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.00						0.07	6.07		6.07
Stratego	pt	24.91						0.27	25.18		25.18
Surfactant	pt	0.36							0.36		0.36
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	2.85						0.03	2.88		2.88
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20			0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26			0.01	0.77	0.52	1.29
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice	bu	54.60						0.40	55.00		55.00
Dry Rice	bu	62.40						0.46	62.86		62.86
Disk Heavy	28'		4.74	2.69	3.61			0.04	11.08	8.70	19.78
Flood Irr.	acre	10.83	62.50	12.68	11.84			1.68	99.53	62.99	162.52
TOTALS			523.43	86.03	28.24	36.24	0.00	10.86	684.80	114.80	799.60

Note: Cost of production estimates are based on 2014 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, 2015

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	870.48	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	5.70	0.00	2.85	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	8.58	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	54.60	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	3.15	0.00	0.00	0.00	0.00	0.00	10.03	2.72	3.62	3.62	9.49	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	19.73	15.64	15.64	15.64	10.51	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.79	6.77	1.89	1.89	8.41	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	4.27	3.30	1.15	0.63	1.07	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	197.58	183.31	78.59	58.28	146.48	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-197.58	-183.31	-78.59	-58.28	724.00	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-207.06	-390.37	-468.96	-527.24	196.76	185.68

Note: Cost of production estimates are based on 2014 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, 2015

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Rice	4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97		
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-299 -414	-277 -392	-255 -370	-234 -348	-212 -327	-190 -305	-168 -283	-147 -261	-125 -240	-103 -218	-81 -196
60	93.60	bu	-245 -360	-219 -334	-193 -308	-167 -282	-141 -256	-115 -230	-89 -204	-63 -177	-37 -151	-10 -125	15 -99
70	109.20	bu	-192 -307	-161 -276	-131 -246	-101 -215	-70 -185	-40 -154	-9 -124	20 -93	51 -63	81 -33	112 -2
80	124.80	bu	-138 -253	-104 -218	-69 -184	-34 -149	0 -114	35 -79	69 -44	104 -10	139 24	174 59	209 94
90	140.40	bu	-85 -200	-46 -161	-7 -121	32 -82	71 -43	110 -4	149 34	188 73	227 113	267 152	306 191
100	156.00	bu	-31 -146	11 -103	55 -59	98 -16	142 27	185 70	229 114	272 157	316 201	359 244	403 288
110	171.60	bu	21 -93	69 -45	117 2	165 50	213 98	260 146	308 194	356 241	404 289	452 337	500 385
120	187.20	bu	75 -39	127 12	179 64	231 116	283 169	336 221	388 273	440 325	492 378	545 430	597 482
130	202.80	bu	128 13	185 70	241 126	298 183	354 240	411 296	468 353	524 409	581 466	637 522	694 579
140	218.40	bu	182 67	242 128	303 189	364 250	425 310	486 371	547 432	608 493	669 554	730 615	791 676
150	234.00	bu	235 120	300 186	366 251	431 316	496 381	561 447	627 512	692 577	757 643	823 708	888 773

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 2014 input prices.

Table 8.A Estimated costs per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	2.2500	13.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
HARVEST AIDS					
Aim 2EC	oz	6.33	1.0000	6.33	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	4.0000	101.00	_____
FUNGICIDES					
Stratego	pt	24.91	1.0000	24.91	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	82.0000	12.30	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield	lb	0.90	70.0000	63.00	_____
Rice Seed CF(Levees)	lb	0.90	12.0000	10.80	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	4.5000	16.20	_____
Surfactant	pt	3.60	0.1000	0.36	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice	bu	0.35	164.0000	57.40	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	12.55	0.4510	5.66	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	4.4111	14.11	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	15.4779	49.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	2.36	1.0000	2.36	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	9.86	1.0000	9.86	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____
TOTAL DIRECT EXPENSES				655.54	_____
FIXED EXPENSES					
Implements	acre	14.65	1.0000	14.65	_____
Tractors	acre	14.35	1.0000	14.35	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				110.37	_____
TOTAL SPECIFIED EXPENSES				765.91	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	164.0000	915.12	_____

TOTAL INCOME				915.12	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.88	1.0000	23.88	_____
HARVEST AIDS	acre	6.33	1.0000	6.33	_____
FERTILIZERS	acre	118.87	1.0000	118.87	_____
FUNGICIDES	acre	24.91	1.0000	24.91	_____
HERBICIDES	acre	79.52	1.0000	79.52	_____
INSECTICIDES	acre	15.15	1.0000	15.15	_____
SEED/PLANTS	acre	73.80	1.0000	73.80	_____
ADJUVANTS	acre	16.56	1.0000	16.56	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	57.40	1.0000	57.40	_____
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	12.55	0.6270	7.87	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	22.8336	73.05	_____
REPAIR & MAINTENANCE	acre	25.42	1.0000	25.42	_____
INTEREST ON OP. CAP.	acre	10.24	1.0000	10.24	_____

TOTAL DIRECT EXPENSES				655.54	_____
RETURNS ABOVE DIRECT EXPENSES				259.58	_____
TOTAL FIXED EXPENSES				110.37	_____

TOTAL SPECIFIED EXPENSES				765.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				149.21	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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					70.0000				
Cruiser Maxx Rice	lbseed					70.0000				
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					12.0000				
Cruiser Maxx Rice	lbseed					12.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
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				
Crop Oil Conc. (Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
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				
Crop Oil Conc. (Pet.)	pt					0.5000				
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				
Surfactant	pt					0.1000				
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	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							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield	lb	63.00					1.39	64.39		64.39
Cruiser Maxx Rice	lbseed	10.50					0.23	10.73		10.73
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CF(Levees)	lb	10.80					0.24	11.04		11.04
Cruiser Maxx Rice	lbseed	1.80					0.04	1.84		1.84
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	16.25					0.30	16.55		16.55
Urea, Solid (46% N)	cwt	63.13					1.16	64.29		64.29
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	37.88					0.56	38.44		38.44
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.07	6.07		6.07
Stratego	pt	24.91					0.27	25.18		25.18
Surfactant	pt	0.36						0.36		0.36
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	57.40					0.42	57.82		57.82
Dry Rice	bu	65.60					0.48	66.08		66.08
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre		49.52	9.86	9.53		1.12	70.03	58.56	128.59
TOTALS		512.90	73.05	25.42	33.93	0.00	10.24	655.54	110.37	765.91

Note: Cost of production estimates are based on 2014 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, 2015

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	915.12	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	8.38	0.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.33	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.99	37.88	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	24.91	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	27.53	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	73.80	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.36	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	9.75	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	57.40	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	3.15	0.00	0.00	0.00	0.00	0.00	7.29	3.18	4.08	4.08	8.54	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	15.33	13.03	13.03	13.03	9.76	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	3.88	6.19	1.31	1.31	8.24	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	3.85	3.15	1.10	0.60	1.10	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	178.28	174.73	75.81	55.52	150.64	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-178.28	-174.73	-75.81	-55.52	764.48	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-187.76	-362.49	-438.30	-493.82	270.66	259.58

Note: Cost of production estimates are based on 2014 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, 2015

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
			dollars										
PERCENT	YIELD	UNIT											
50	82.00	bu	-250 -360	-227 -337	-204 -315	-181 -292	-158 -269	-136 -246	-113 -223	-90 -200	-67 -177	-44 -154	-21 -132
60	98.40	bu	-194 -304	-166 -277	-139 -249	-111 -222	-84 -194	-56 -167	-29 -139	-2 -112	25 -84	52 -57	80 -30
70	114.80	bu	-137 -248	-105 -216	-73 -184	-41 -152	-9 -120	22 -88	54 -56	86 -24	118 7	150 39	182 71
80	131.20	bu	-81 -192	-45 -155	-8 -118	28 -82	64 -45	101 -9	137 27	174 64	211 100	247 137	284 173
90	147.60	bu	-25 -135	15 -94	56 -53	98 -12	139 28	180 70	221 111	262 152	303 193	345 234	386 275
100	164.00	bu	30 -79	76 -33	122 11	168 57	213 103	259 149	305 194	351 240	396 286	442 332	488 377
110	180.40	bu	87 -23	137 27	187 77	238 127	288 178	338 228	389 278	439 328	489 379	540 429	590 479
120	196.80	bu	143 32	198 87	253 142	308 197	362 252	417 307	472 362	527 417	582 472	637 527	692 581
130	213.20	bu	199 89	259 148	318 208	377 267	437 327	496 386	556 446	615 505	675 565	734 624	794 683
140	229.60	bu	255 145	319 209	383 273	447 337	512 401	576 465	640 529	704 593	768 657	832 721	896 785
150	246.00	bu	312 201	380 270	449 338	517 407	586 476	655 544	723 613	792 682	861 750	929 819	998 887

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 2014 input prices.

Table 9.A Estimated costs per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	8.00	1.0000	8.00	_____
App by Air (5 gal)	appl	6.00	1.2500	7.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.60	0.3750	6.98	_____
DAP	cwt	29.00	0.3750	10.88	_____
Urea, Solid (46% N)	cwt	25.25	3.6700	92.67	_____
HERBICIDES					
Command 3ME	pt	19.06	1.0000	19.06	_____
Glyphosate 3lbs a.e	pt	2.25	3.0000	6.75	_____
Newpath 2SL	oz	3.47	6.0000	20.82	_____
Clearpath	lb	55.06	0.5000	27.53	_____
Aim 2EC	oz	6.33	1.0000	6.33	_____
Beyond	oz	4.29	1.2500	5.36	_____
INSECTICIDES					
Cruiser Maxx Rice	lbseed	0.15	29.2500	4.39	_____
Karate Z	oz	2.85	1.0000	2.85	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	6.12	25.0000	153.00	_____
Rice Seed CFH(Levee)	lb	6.12	4.2500	26.01	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.60	4.5000	16.20	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.4200	28.73	_____
HAULING					
Haul Rice	bu	0.35	179.0000	62.65	_____
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	12.55	0.5281	6.62	_____
Harvesters	hour	12.55	0.1760	2.21	_____
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	12.54	0.5643	7.08	_____
DIESEL FUEL					
Tractors	gal	3.20	5.0192	16.06	_____
Harvesters	gal	3.20	2.9444	9.42	_____
Flood Irr.	gal	3.20	21.9949	70.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	5.96	1.0000	5.96	_____
Flood Irr.	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	12.69	1.0000	12.69	_____
TOTAL DIRECT EXPENSES				765.34	_____
FIXED EXPENSES					
Implements	acre	15.07	1.0000	15.07	_____
Tractors	acre	16.24	1.0000	16.24	_____
Harvesters	acre	22.81	1.0000	22.81	_____
Flood Irr.	acre	59.10	1.0000	59.10	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				878.56	_____

Note: Cost of production estimates are based on 2014 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, 2015

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	5.58	179.0000	998.82	_____
TOTAL INCOME				998.82	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.88	1.0000	17.88	_____
FERTILIZERS	acre	110.53	1.0000	110.53	_____
HERBICIDES	acre	85.85	1.0000	85.85	_____
INSECTICIDES	acre	7.24	1.0000	7.24	_____
SEED/PLANTS	acre	179.01	1.0000	179.01	_____
ADJUVANTS	acre	16.20	1.0000	16.20	_____
CUSTOM FERTILIZE	acre	28.74	1.0000	28.74	_____
HAULING	acre	62.65	1.0000	62.65	_____
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	12.55	0.7041	8.83	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	12.54	0.5643	7.08	_____
DIESEL FUEL	gal	3.20	29.9586	95.87	_____
REPAIR & MAINTENANCE	acre	27.95	1.0000	27.95	_____
INTEREST ON OP. CAP.	acre	12.69	1.0000	12.69	_____
TOTAL DIRECT EXPENSES				765.34	_____
RETURNS ABOVE DIRECT EXPENSES				233.48	_____
TOTAL FIXED EXPENSES				113.22	_____
TOTAL SPECIFIED EXPENSES				878.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				120.26	_____

Note: Cost of production estimates are based on 2014 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, 2015

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	2.00	Oct		0.09	0.09	0.09	0.08
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				
Cruiser Maxx Rice	lbseed					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					4.2500				
Cruiser Maxx Rice	lbseed					4.2500				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					6.0000				
Crop Oil Conc. (Pet.)	pt					2.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.3750				
DAP	cwt					0.3750				
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				
Crop Oil Conc. (Pet.)	pt					2.0000				
Aim 2EC	oz					1.0000				
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				
Crop Oil Conc. (Pet.)	pt					0.5000				
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	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							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2014 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, 2015

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'		2.92	1.36	2.22		0.29	6.79	6.52	13.31
Harrow - Folding	40'		1.21	0.44	0.93		0.11	2.69	1.58	4.27
Grain Drill	24'		2.46	2.08	2.59		0.16	7.29	5.58	12.87
Rice Clearfield Hyb	lb	153.00					3.37	156.37		156.37
Cruiser Maxx Rice	lbseed	3.75					0.08	3.83		3.83
Roller/Cultipacker	30'		1.56	0.47	1.18		0.07	3.28	1.86	5.14
Spray (Broadcast)	60'		0.88	0.28	0.80		0.04	2.00	1.05	3.05
Command 3ME	pt	19.06					0.42	19.48		19.48
Glyphosate 3lbs a.e	pt	6.75					0.15	6.90		6.90
Seed Levees										
Rice Seed CFH(Levee)	lb	26.01					0.57	26.58		26.58
Cruiser Maxx Rice	lbseed	0.64					0.01	0.65		0.65
App by Air (10 gal)	appl	8.00					0.18	8.18		8.18
Newpath 2SL	oz	20.82					0.46	21.28		21.28
Crop Oil Conc.(Pet.)	pt	7.20					0.16	7.36		7.36
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	6.98					0.13	7.11		7.11
DAP	cwt	10.88					0.20	11.08		11.08
App Fert by Air	cwt	17.36					0.32	17.68		17.68
Urea, Solid (46% N)	cwt	67.42					1.24	68.66		68.66
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	27.53					0.50	28.03		28.03
Crop Oil Conc.(Pet.)	pt	7.20					0.13	7.33		7.33
Aim 2EC	oz	6.33					0.12	6.45		6.45
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.50					0.02	1.52		1.52
Beyond	oz	5.36					0.08	5.44		5.44
Crop Oil Conc.(Pet.)	pt	1.80					0.03	1.83		1.83
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	6.50					0.10	6.60		6.60
Urea, Solid (46% N)	cwt	25.25					0.37	25.62		25.62
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	2.85					0.03	2.88		2.88
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		9.42	8.08	4.20		0.16	21.86	26.00	47.86
Grain Cart Rice	700 bu		0.34	0.16	0.26		0.01	0.77	0.52	1.29
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice	bu	62.65					0.46	63.11		63.11
Dry Rice	bu	71.60					0.53	72.13		72.13
Disk Heavy	28'		4.74	2.69	3.61		0.04	11.08	8.70	19.78
Flood Irr.	acre	2.25	72.34	12.39	22.48		1.82	111.28	61.41	172.69
TOTALS		581.95	95.87	27.95	46.88	0.00	12.69	765.34	113.22	878.56

Note: Cost of production estimates are based on 2014 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, 2015

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	998.82	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	8.00	6.00	1.50	2.38	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.28	25.25	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	46.63	33.86	5.36	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.00	2.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	179.01	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	7.20	7.20	1.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.24	6.50	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	62.65	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	3.15	0.00	0.00	0.00	0.00	0.00	12.24	5.44	6.34	6.34	9.76	3.61
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	4.13	0.00	0.00	0.00	0.00	0.00	21.87	18.25	18.25	18.25	10.38	4.74
REPAIR & MAINTENANCE	1.80	0.00	0.00	0.00	0.00	0.00	4.68	6.72	1.84	1.84	8.38	2.69
INTEREST ON OP. CAP.	0.40	0.00	0.00	0.00	0.00	0.00	6.30	3.40	0.99	0.35	1.21	0.04
TOTAL DIRECT EXPENSES	9.48	0.00	0.00	0.00	0.00	0.00	292.57	188.39	67.83	32.01	163.98	11.08
NET INCOME	-9.48	0.00	0.00	0.00	0.00	0.00	-292.57	-188.39	-67.83	-32.01	834.84	-11.08
NET INCOME TO DATE	-9.48	-9.48	-9.48	-9.48	-9.48	-9.48	-302.05	-490.44	-558.27	-590.28	244.56	233.48

Note: Cost of production estimates are based on 2014 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, 2015

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.18	4.46	4.74	5.02	5.30	5.58	5.85	6.13	6.41	6.69	6.97
PERCENT	YIELD	UNIT	dollars										
50	89.50	bu	-323 -436	-298 -411	-273 -386	-248 -361	-223 -336	-198 -311	-173 -286	-148 -261	-123 -236	-98 -211	-73 -186
60	107.40	bu	-261 -374	-231 -345	-201 -315	-171 -285	-141 -255	-111 -225	-81 -195	-52 -165	-22 -135	7 -105	37 -75
70	125.30	bu	-200 -313	-165 -278	-130 -243	-95 -208	-60 -173	-25 -138	9 -103	44 -68	79 -33	114 1	149 35
80	143.20	bu	-139 -252	-99 -212	-59 -172	-19 -132	20 -92	60 -52	100 -12	140 27	180 67	220 107	260 147
90	161.10	bu	-77 -190	-32 -145	12 -100	57 -55	102 -11	147 33	192 78	237 123	281 168	326 213	371 258
100	179.00	bu	-16 -129	33 -79	83 -29	133 20	183 70	233 120	283 170	333 220	383 270	433 320	483 369
110	196.90	bu	45 -68	100 -13	155 41	209 96	264 151	319 206	374 261	429 316	484 371	539 426	594 481
120	214.80	bu	106 -6	166 53	226 113	286 173	346 233	406 292	466 352	526 412	585 472	645 532	705 592
130	232.70	bu	167 54	232 119	297 184	362 249	427 314	492 379	557 444	622 509	687 574	752 639	817 703
140	250.60	bu	229 116	299 186	369 255	439 325	508 395	578 465	648 535	718 605	788 675	858 745	928 815
150	268.50	bu	290 177	365 252	440 327	515 402	590 477	665 552	740 626	815 701	890 776	964 851	1039 926

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 2014 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, 2015

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	291,000	300	8	13.64	12.55	43.64	30.31	86.51	116.03	202.54
Combine (300-349 hp)	325 hp	325,000	300	8	16.73	12.55	53.53	33.85	99.94	129.59	229.53
Combine (350-399 hp)	355 hp	350,000	300	8	18.27	12.55	58.46	36.45	107.47	139.56	247.03
Combine (400-449 hp)	425 hp	375,000	300	8	21.87	12.55	70.00	39.06	121.61	149.53	271.14
Combine (450-499hp)	475 hp	397,000	300	8	24.44	12.55	78.23	41.35	132.14	158.30	290.44
Cotton Stripper	173 hp	170,000	200	8	8.08	12.55	25.85	26.56	64.96	101.68	166.65
Tractor(20-39hp)CB	MFWD 30	31,100	600	8	1.54	12.55	4.94	0.97	18.46	5.64	24.11
Tractor(20-39hp)RB	MFWD 30	18,600	600	8	1.54	12.55	4.94	0.58	18.07	3.37	21.44
Tractor(40-59hp)CB	2WD 50	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor(40-59hp)CB	MFWD 50	38,900	600	8	2.57	12.55	8.23	1.21	22.00	7.06	29.06
Tractor(40-59hp)RB	2WD 50	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor(40-59hp)RB	MFWD 50	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor(60-89hp)CB	2WD 75	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor(60-89hp)CB	MFWD 75	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor(60-89hp)RB	2WD 75	35,000	600	8	3.86	12.55	12.35	1.09	25.99	6.35	32.35
Tractor(60-89hp)RB	MFWD 75	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor(90-119hp)CB	2WD 105	63,100	600	8	5.40	12.55	17.29	1.97	31.81	11.45	43.27
Tractor(90-119hp)CB	MFWD 105	74,400	600	8	5.40	12.55	17.29	2.32	32.16	13.51	45.68
Tractor(90-119hp)RB	2WD 105	54,300	600	8	5.40	12.55	17.29	1.69	31.54	9.86	41.40
Tractor(90-119hp)RB	MFWD 105	56,900	600	8	5.40	12.55	17.29	1.77	31.62	10.33	41.95
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	12.55	21.41	3.00	36.97	17.48	54.46
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	12.55	21.41	3.56	37.52	20.70	58.22
Tractor(140-159hp)CB	2WD 150	127,000	600	8	7.72	12.55	24.70	3.96	41.22	23.06	64.29
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	12.55	24.70	4.46	41.72	25.97	67.69
Tractor(160-179hp)CB	MFWD 170	156,000	600	8	8.75	12.55	28.00	4.87	45.42	29.71	75.14
Tractor(180-199hp)CB	MFWD 190	167,000	600	8	9.77	12.55	31.29	5.21	49.06	31.81	80.87
Tractor(200-249hp)CB	MFWD 225	226,000	600	8	11.58	12.55	37.06	7.06	56.67	43.05	99.72
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	12.55	37.06	8.65	58.26	52.76	111.03
Tractor(250-349hp)CB	4WD 300	277,000	600	8	15.44	12.55	49.41	8.65	70.62	52.76	123.38
Tractor(250-349hp)CB	MFWD 300	271,000	600	8	15.44	12.55	49.41	8.46	70.43	51.62	122.05
Tractor(250-349hp)CB	Track 300	281,000	600	8	15.44	12.55	49.41	8.78	70.74	53.52	124.27
Tractor(350-449hp)CB	4WD 400	313,000	600	8	20.58	12.55	65.88	9.78	88.21	59.62	147.84
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	12.55	65.88	11.37	89.80	69.33	159.14
Tractor(450-550hp)CB	4WD 500	361,000	600	8	25.73	12.55	82.35	11.28	106.18	68.76	174.95
Tractor(450-550hp)CB	Track 500	399,000	600	8	25.73	12.55	82.35	12.46	107.37	76.00	183.38
Utility Vechicle	900 CC	14,300	200	8	1.00	12.55	3.40	2.23	18.18	8.55	26.73
Utility Vehicle	800 CC	6,500	200	8	0.70	12.55	2.38	1.01	15.94	3.88	19.83
Utility Vehicle-mule	600 CC	11,500	200	8	0.50	12.55	1.70	1.79	16.04	6.87	22.92

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2015

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	291,000	300	8	13.64	12.55	43.64	30.31	86.51	116.03	202.54
Combine (300-349 hp)	325 hp	325,000	300	8	16.73	12.55	53.53	33.85	99.94	129.59	229.53
Combine (350-399 hp)	355 hp	350,000	300	8	18.27	12.55	58.46	36.45	107.47	139.56	247.03
Combine (400-449 hp)	425 hp	375,000	300	8	21.87	12.55	70.00	39.06	121.61	149.53	271.14
Combine (450-499hp)	475 hp	397,000	300	8	24.44	12.55	78.23	41.35	132.14	158.30	290.44
Cotton Stripper	173 hp	170,000	200	8	8.08	12.55	25.85	26.56	64.96	101.68	166.65
Tractor(20-39hp)CB	MFWD 30	31,100	600	8	1.54	12.55	4.94	0.97	18.46	5.64	24.11
Tractor(20-39hp)RB	MFWD 30	18,600	600	8	1.54	12.55	4.94	0.58	18.07	3.37	21.44
Tractor(40-59hp)CB	2WD 50	33,700	600	8	2.57	12.55	8.23	1.05	21.83	6.12	27.95
Tractor(40-59hp)CB	MFWD 50	38,900	600	8	2.57	12.55	8.23	1.21	22.00	7.06	29.06
Tractor(40-59hp)RB	2WD 50	18,900	600	8	2.57	12.55	8.23	0.59	21.37	3.43	24.80
Tractor(40-59hp)RB	MFWD 50	26,200	600	8	2.57	12.55	8.23	0.81	21.60	4.75	26.36
Tractor(60-89hp)CB	2WD 75	43,400	600	8	3.86	12.55	12.35	1.35	26.25	7.88	34.14
Tractor(60-89hp)CB	MFWD 75	47,900	600	8	3.86	12.55	12.35	1.49	26.40	8.69	35.09
Tractor(60-89hp)RB	2WD 75	35,000	600	8	3.86	12.55	12.35	1.09	25.99	6.35	32.35
Tractor(60-89hp)RB	MFWD 75	39,600	600	8	3.86	12.55	12.35	1.23	26.14	7.19	33.33
Tractor(90-119hp)CB	2WD 105	63,100	600	8	5.40	12.55	17.29	1.97	31.81	11.45	43.27
Tractor(90-119hp)CB	MFWD 105	74,400	600	8	5.40	12.55	17.29	2.32	32.16	13.51	45.68
Tractor(90-119hp)RB	2WD 105	54,300	600	8	5.40	12.55	17.29	1.69	31.54	9.86	41.40
Tractor(90-119hp)RB	MFWD 105	56,900	600	8	5.40	12.55	17.29	1.77	31.62	10.33	41.95
Tractor(120-139hp)CB	2WD 130	96,300	600	8	6.69	12.55	21.41	3.00	36.97	17.48	54.46
Tractor(120-139hp)CB	MFWD 130	114,000	600	8	6.69	12.55	21.41	3.56	37.52	20.70	58.22
Tractor(140-159hp)CB	2WD 150	127,000	600	8	7.72	12.55	24.70	3.96	41.22	23.06	64.29
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	12.55	24.70	4.46	41.72	25.97	67.69
Tractor(160-179hp)CB	MFWD 170	156,000	600	8	8.75	12.55	28.00	4.87	45.42	29.71	75.14
Tractor(180-199hp)CB	MFWD 190	167,000	600	8	9.77	12.55	31.29	5.21	49.06	31.81	80.87
Tractor(200-249hp)CB	MFWD 225	226,000	600	8	11.58	12.55	37.06	7.06	56.67	43.05	99.72
Tractor(200-249hp)CB	Track 225	277,000	600	8	11.58	12.55	37.06	8.65	58.26	52.76	111.03
Tractor(250-349hp)CB	4WD 300	277,000	600	8	15.44	12.55	49.41	8.65	70.62	52.76	123.38
Tractor(250-349hp)CB	MFWD 300	271,000	600	8	15.44	12.55	49.41	8.46	70.43	51.62	122.05
Tractor(250-349hp)CB	Track 300	281,000	600	8	15.44	12.55	49.41	8.78	70.74	53.52	124.27
Tractor(350-449hp)CB	4WD 400	313,000	600	8	20.58	12.55	65.88	9.78	88.21	59.62	147.84
Tractor(350-449hp)CB	Track 400	364,000	600	8	20.58	12.55	65.88	11.37	89.80	69.33	159.14
Tractor(450-550hp)CB	4WD 500	361,000	600	8	25.73	12.55	82.35	11.28	106.18	68.76	174.95
Tractor(450-550hp)CB	Track 500	399,000	600	8	25.73	12.55	82.35	12.46	107.37	76.00	183.38
Utility Vehicle	900 CC	14,300	200	8	1.00	12.55	3.40	2.23	18.18	8.55	26.73
Utility Vehicle	800 CC	6,500	200	8	0.70	12.55	2.38	1.01	15.94	3.88	19.83
Utility Vehicle-mule	600 CC	11,500	200	8	0.50	12.55	1.70	1.79	16.04	6.87	22.92

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2015 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Spray (Levee Leaper)	50'	MFWD 225	14,000	200	8	0.033	0.57	1.25	0.22	0.23	2.29	0.25	1.45	4.00
Spray (Pull Type)	60'	MFWD 225	29,700	200	8	0.028	0.48	1.04	0.39	0.19	2.11	0.45	1.21	3.79
Spray (Pull Type)	80'	MFWD 225	39,400	200	8	0.021	0.36	0.78	0.39	0.14	1.68	0.45	0.91	3.04
Spray (Pull Type)	90'	2WD 50	39,900	200	8	0.018	0.32	0.15	0.35	0.01	0.83	0.40	0.06	1.31
Spray (Pull Type)	120'	MFWD 225	72,900	200	8	0.014	0.24	0.52	0.48	0.09	1.34	0.56	0.60	2.51
Spray (Ropewick)	20'	MFWD 190	2,650	200	8	0.084	1.44	2.64	0.10	0.44	4.64	0.12	2.69	7.45
Spray (Spot)	27'	MFWD 170	5,940	200	8	0.062	1.07	1.75	0.17	0.30	3.30	0.20	1.86	5.37
Spray (Spot)	40'	MFWD 170	7,350	200	8	0.042	0.72	1.18	0.14	0.20	2.25	0.16	1.25	3.68
Spray (Spot)	50'	MFWD 170	67,300	200	8	0.033	0.57	0.94	1.06	0.16	2.75	1.24	1.00	5.00
Spray (Spot)	53'	MFWD 170	7,650	200	8	0.031	0.54	0.89	0.11	0.15	1.70	0.13	0.94	2.79
Spray (Spot)	60'	MFWD 225	10,000	200	8	0.028	0.48	1.04	0.13	0.19	1.85	0.15	1.21	3.22
Stalk Shredder	14'	MFWD 150	13,200	200	10	0.117	1.47	2.91	1.36	0.52	6.27	0.79	3.06	10.13
Stalk Shredder Flex	20'	MFWD 150	34,000	200	10	0.082	1.03	2.03	2.45	0.36	5.89	1.43	2.14	9.46
Stalk Shredder-Flail	12'	MFWD 150	15,800	200	10	0.137	1.72	3.39	1.90	0.61	7.63	1.10	3.57	12.31
Stalk Shredder-Flail	15'	MFWD 150	19,900	200	10	0.110	1.38	2.71	1.91	0.49	6.50	1.11	2.85	10.47
Stalk Shredder-Flail	18'	MFWD 150	25,700	200	10	0.091	1.15	2.26	2.06	0.40	5.88	1.20	2.38	9.46
Stalk Shredder-Flail	20'	MFWD 150	26,900	200	10	0.082	1.03	2.03	1.94	0.36	5.38	1.13	2.14	8.65
Stalk Shredder-Flail	25'	MFWD 150	37,700	200	10	0.066	0.82	1.63	2.17	0.29	4.93	1.26	1.71	7.91
Strip Till	8R-38	MFWD 225	38,600	150	10	0.061	0.77	2.28	1.03	0.43	4.52	1.61	2.65	8.79
Strip Till	12R-30	MFWD 225	47,500	150	10	0.061	0.77	2.28	1.26	0.43	4.76	1.98	2.65	9.40
Strip Till	12R-40	MFWD 225	54,100	150	10	0.046	0.58	1.71	1.08	0.32	3.70	1.69	1.98	7.39
Subsoiler	3 shank	MFWD 190	3,550	100	15	0.204	2.56	6.39	0.24	1.06	10.26	0.57	6.50	17.33
Subsoiler	4 shank	MFWD 225	8,230	100	15	0.153	1.92	5.69	0.42	1.08	9.12	0.99	6.61	16.73
Subsoiler	5 shank	MFWD 225	11,100	100	15	0.122	1.53	4.53	0.45	0.86	7.38	1.06	5.26	13.72
Subsoiler low-till	4 shank	MFWD 225	12,400	100	15	0.153	1.92	5.69	0.63	1.08	9.34	1.49	6.61	17.45
Subsoiler low-till	6 shank	MFWD 225	14,800	100	15	0.102	1.28	3.78	0.50	0.72	6.29	1.18	4.39	11.88
Subsoiler low-till	8 shank	MFWD 225	22,200	100	15	0.076	0.96	2.83	0.56	0.54	4.90	1.33	3.29	9.53

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, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			CruiserMaxx	oz	4.15
Crop Oil Conc.(Pet.)	pt	3.60	Dithane F-45	qt	7.94
Crop Oil Conc.(Veg.)	pt	4.60	Dithane Rainshield	lb	2.75
Drift/Defoamer	pt	4.90	Enable 2F	oz	1.94
Spreader Sticker	pt	3.55	Folicur 3.6	oz	1.08
Surfactant	pt	3.60	Headline EC	oz	3.62
CLEANING			Headline SC	oz	3.53
Cleaning Peanuts	ton	18.00	Manzate 75 DF	lb	4.83
CROP CONSULTANT			Moncut 70 DF	lb	25.00
Crop Consultant	acre	7.00	Prevail	lb	28.50
Rice Consultant	acre	7.00	Prosaro	oz	2.77
CUSTOM FERTILIZE			Provost	oz	2.46
App Fert by Air	cwt	6.50	Quadris	oz	2.86
App Fert by Air(Mi)	appl	6.50	Quilt	pt	22.34
Custom Apply Fert	acre	6.50	Quilt XCEL	pt	30.41
CUSTOM LIME			Ridomil Gold	oz	6.54
Lime (Spread)	ton	45.00	Ridomil Gold PC GR	lb	4.00
CUSTOM PLANT			Rovral 4F	pt	14.20
Custom Plant	acre	13.00	Stiletto	oz	0.58
Custom Plant Air	cwt	6.50	Stratego	pt	24.91
CUSTOM SPRAY			Stratego YLD	oz	4.91
App by Air (2 gal)	appl	3.25	Tebuconazole	oz	0.78
App by Air (3 gal)	appl	4.75	Terrachlor 2EC	pt	1.87
App by Air (5 gal)	appl	6.00	Tilt 3.6 EC	oz	0.84
App by Air (10 gal)	appl	8.00	Tilt/ Bravo SE	oz	0.43
Custom Spray Ground	acre	7.50	Uniform	oz	5.12
Custom Spray Self Pr	acre	6.25	Vitavax RTU-Thiram	oz	0.40
Custom Spray Tractor	acre	7.75	GINNING		
DRYING			Gin & Haul	lb	0.11
Dry Corn	bu	0.19	GROWTH REGULATORS		
Dry Grain Sorghum	cwt	0.25	Early Harvest PGR	oz	1.55
Dry Peanuts	ton	24.00	Mepex	oz	0.09
Dry Rice	bu	0.40	Mepex Gin Out	oz	0.16
ERADICATION FEE			Mepichlor 4.2%	oz	0.11
Eradication	acre	1.00	Mepiquat	oz	0.90
FERTILIZERS			Mepiquat Extra	oz	0.10
Amm Sulfate (21% N)	cwt	18.60	Pentia	pt	5.89
Amm Sulfate dry/mix	lb	0.20	Pix Plus	oz	0.19
Boron 15G	lb	0.75	Stance	oz	1.22
Boron Plus	pt	4.25	SuperBoll	oz	2.57
DAP	cwt	29.00	HARVEST AIDS		
Fert 10-34-0	cwt	26.00	Adios	oz	1.38
Fert 11-37-0	cwt	28.00	Aim 2EC	oz	6.33
Fert 30-0-0-5	cwt	18.00	Ammonium Sulfate	lb	0.20
Fert 33-0-0-12S	cwt	23.75	CottonQuik	pt	4.52
Fert 41-0-0-4	cwt	23.50	Def 6	pt	8.25
Lime	ton	35.00	Def/Folex	pt	8.62
Phosphorus(46% P2O5)	cwt	24.50	Defol 3	gal	3.49
Potash (60% K2O)	cwt	23.60	Defol 5	gal	6.07
Sulfur 90%	lb	0.26	Defol 750	pt	2.04
Sulfur 90%	lb	0.26	Dropp SC	oz	1.60
Sulfur Plus	pt	2.60	ET	pt	47.26
SuperMax AMS	pt	2.70	Ethephon 6E	pt	3.27
UAN (32% N)	cwt	18.50	Finish 6	pt	8.59
UAN + Sulfur (28%)	cwt	17.90	First Pick	pt	3.55
Urea, Solid (46% N)	cwt	25.25	Flash	pt	6.34
Zinc Plus	pt	3.00	Folex 6EC	pt	8.99
Zinc Sulfate 31%	lb	0.50	Freefall SC	oz	1.34
FUNGICIDES			Ginstar EC	pt	27.89
Abound	pt	31.43	Gramoxone SL	oz	0.30
Alfa Guard	lb	1.61	Paraquat	oz	0.33
Allegiance Flowable	pt	55.63	Prep	pt	3.32
Apron Maxx RTA	oz	0.81	Sharpen	oz	5.63
Apron Maxx RTA+Moly	pt	14.74	Shed-a-leaf	gal	3.60
Apron XL LS	oz	7.93	Sodium Chlorate 3L	gal	3.50
Artisan	oz	1.02	Sodium Chlorate 5L	gal	5.57
Bravo Ultrex	lb	5.83	TDZ SC	oz	1.50
Bravo Weather Stick	pt	4.43	Thidiazuron 4lb	oz	1.50
Captan 50 WP	lb	6.00	Tribufos 6lb	pt	9.13
Cotton Seed Trt.	acre	20.00	Vacate	oz	1.17

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
HAULING			Glyfos Xtra	pt	2.25
Haul Corn	bu	0.23	Glyphosate 3lbs a.e	pt	2.25
Haul Peanuts	ton	14.50	Glyphosate 3lbs a.e	oz	0.14
Haul Rice	bu	0.35	Glystar Plus	pt	2.25
Haul Sorghum	bu	0.25	Goal 2XL	pt	10.00
Haul Soybeans	bu	0.27	Gramonone SL 2.0	oz	0.32
Haul Wheat	bu	0.26	Grandstand R	qt	28.38
HERBICIDES			Guardman Max	pt	6.93
2,4-D Amine 4	pt	2.44	Halex GT	pt	5.96
2,4-D Weedar 64	pt	3.00	Halomax	oz	19.00
AAtrex 4L	pt	2.08	Harmony Extra SG	oz	12.84
AAtrex NINE-O	lb	3.93	Harmony Extra XP	oz	14.35
Accent Q	oz	32.47	Harness XTRA	pt	7.24
Aim 2EC	oz	6.33	Hoelon 3EC	pt	11.03
Assure II	oz	0.74	Ignite 280	pt	8.93
Atrazine 4L	pt	1.93	Impact	oz	11.67
Atrazine 90DF	lb	3.93	Karmex XP	lb	5.93
Axial XL	oz	1.05	Lariat	qt	7.49
Axiom 68DF	oz	1.86	Laudis	oz	5.43
Banvel	pt	11.10	Layby Pro	qt	14.18
Basagran	pt	11.88	Leadoff	oz	4.00
Basis	oz	17.91	Lexar	pt	7.08
Beyond	oz	4.29	Liberty 280	oz	0.66
Bicep II Magnum	qt	10.97	Linex 4L	pt	12.12
Bicep Lite Magnum	pt	7.24	Londax 60DF	oz	17.25
Blazer Ultra	pt	9.56	Lorox 50DF	lb	18.70
Bolero 8EC	pt	7.50	Makaze	pt	1.88
Boundary 6.5 EC	pt	10.05	Metribuzin 75	lb	10.75
Buccaneer Plus	pt	2.19	MSMA 6.6	pt	3.50
Bullet	pt	3.73	MSMA6 Plus	pt	3.21
Butyrac 175 (2,4-D)	pt	3.27	Newpath 2SL	oz	3.47
Butyrac 200 (2,4-DB)	pt	4.20	Osprey	oz	3.08
Cadre	oz	4.01	Outlook	pt	16.88
Callisto 4SC	oz	5.68	Paraquat	oz	0.33
Canopy 75%	oz	2.69	Parazone 3SL	oz	0.32
Canopy EX	oz	7.63	Parrlay	pt	8.13
Caparol 4L	pt	3.69	Parrot 4L	pt	2.95
Capreno	oz	6.48	Peak Accu Pak	oz	15.45
Celebrity Plus	lb	84.50	Permit 75 DF	oz	19.73
Clarity	pt	11.88	Poast 1.53	pt	11.95
Classic	oz	16.28	Poast Plus	pt	8.66
Clearpath	lb	55.06	PowerFlex	pt	10.39
Clincher SF	oz	2.30	Prefix	pt	6.26
Cobra 2EC	oz	1.61	Propimax EC	pt	15.81
Command 3ME	pt	19.06	Prowl 3.3 EC	pt	5.63
Cornerstone Plus	pt	1.56	Prowl H20	pt	5.95
Corvus	oz	6.46	Pursuit 2S	oz	3.25
Cotoran 4L	pt	5.98	Python WDG	oz	13.04
Cotton Pro	pt	3.50	Quinstar	lb	45.94
Credit Extra	pt	2.10	Raptor	oz	4.18
Dicamba	pt	11.41	RealmQ	oz	4.75
Direx 4L	pt	4.44	Reflex 2LC	pt	7.04
Diuron 4L	pt	4.19	Regiment 80WP	oz	41.38
Diuron 80 DF	lb	2.70	Remedy Ultra	pt	8.60
Diuron 80%	lb	2.70	Resolve SG	oz	7.95
Dual II Magnum	pt	14.50	Resource .86EC	pt	28.75
Dual Magnum	pt	13.49	Ricebeaux	pt	5.40
Duet	pt	4.99	RicePro	pt	4.87
Envoke	oz	93.50	Riceshot	pt	3.81
Evik DF 80W	lb	11.75	Ricestar HT	pt	22.55
Exceed	oz	10.71	Rifel	pt	8.24
Expert	pt	4.27	Roundup Power Max	oz	0.21
Facet L	pt	10.36	Roundup PowerMax	pt	3.25
Finesse	oz	8.06	Roundup WeatherMax	oz	0.27
First Rate	oz	38.78	Roundup WeatherMax	pt	4.07
Flexstar	pt	10.68	Salvo	pt	5.13
Frontier 6.0	oz	0.63	Scepter 70 DG	oz	4.52
Fultime	pt	5.25	Select Max	pt	12.32
Fusilade DX	oz	1.14	Sequence	pt	5.96

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Sharpen	oz	5.68	Imidan 70 WSB	oz	0.68
Simazine 4L	pt	3.17	Incidental Pest Trt	acre	12.00
Stalwart	pt	7.44	Intrepid 2F	oz	2.00
Stam 80 EDF	lb	8.04	Intruder 70WSP	oz	9.65
Stam M4	qt	7.75	Karate Z	oz	2.85
Staple LX	oz	8.55	Kelthane MF 4EC	pt	5.00
Steadfast	oz	11.85	Lambda	oz	1.10
Sterling Blue	pt	9.81	Lannate LV	pt	10.34
Storm	pt	11.50	Lannate SP	oz	1.93
Strada WG	oz	6.50	Larvin 3.2	oz	0.63
Strongarm	oz	51.20	Leverage 2.7	oz	1.66
Superwham	qt	8.83	Lorsban 15G	lb	3.59
Suprend	lb	12.92	Lorsban 4E	pt	5.63
Surpass EC	qt	26.25	Macho	oz	0.91
Synchrony XP	oz	12.07	Malathion 5E	pt	4.99
Touchdown Total	qt	6.74	Malathion 8E	pt	5.60
Treflan 4D	pt	3.40	Methyl Parathion 4	pt	5.79
Tricor DF	lb	15.28	Monitor 4	pt	16.50
Trifluralin 4EC	pt	3.34	Montana	oz	0.91
Valor SX	oz	6.15	Mustang Max	oz	1.60
Valor XLT	oz	4.69	Nuprid 4F	oz	1.15
Verdict	oz	1.65	Oberon 4 SC	pt	76.00
Zidua	oz	7.80	Orthene 90S	lb	6.55
Zorial Rapid 80DF	lb	14.10	PennCap-M	pt	6.71
INOCULANT			Pounce 25WP	lb	12.85
Nitrastick S	lbseed	0.02	Prolex	oz	2.62
Nitro Fix	lbseed	0.03	Provoke	oz	1.75
Optimize LIFT	oz	0.54	Radiant	oz	6.20
INSECT SCOUTING			Respect .8EC	pt	34.00
Insect Scouting	acre	7.00	Sevin 4F	pt	6.00
INSECTICIDES			Sevin 80S	lb	7.40
Abamectin .15EC	pt	12.50	Sevin XLR Plus	qt	12.50
Acephate 90%	lb	6.88	Sniper	oz	1.05
Acephate 90SP	lb	7.23	Steward	pt	30.12
Acramite-4SC	oz	1.88	Temik 15G Grit	lb	4.00
Asana .66 XL	oz	0.64	Temik 15G Gypsum	lb	4.00
Aztec 2.1% G	lb	3.68	Thimet 20-G Lock N L	lb	3.60
Baythroid XL	oz	2.40	Thionex 3 EC	pt	4.65
Bidrin 8WM	oz	1.04	Thionex 50W	lb	10.45
Bidrin XP	oz	0.80	Tombstone Helios	pt	43.75
Bifenthrin	oz	0.95	Tracer 4SC	oz	9.73
Bifenture 2EC	pt	14.69	Trimax Pro	oz	1.85
Brigade EC	pt	21.01	Tundra	oz	0.78
Brigade WSB	lb	22.20	Vydate C-LV	oz	0.89
Capture LFR	oz	2.40	Phorate	lb	3.00
Carbaryl 4L	pt	5.35	Zeal Miticid I	oz	15.89
Carbine 50WG	oz	5.25	Zephyr	oz	0.85
Centric 40WG	oz	4.83	IRRIGATION SUPPLIES		
Comite 1l	pt	8.46	Roll-Out Pipe	ft	0.26
Confirm 2F	oz	2.05	SEED/PLANTS		
Counter 15G	lb	4.22	Corn Seed BtRR	thous	3.47
Cruiser Maxx Rice	lbseed	0.15	Corn Seed Conv.	thous	2.88
Curacron 8E	pt	10.75	Corn Seed LLRRBT	thous	3.43
Cypermethrin	oz	0.55	Corn Seed RR2	thous	3.08
Denim 0.16 EC	pt	32.63	Corn Seed VT3	thous	3.72
Diamond .83EC	pt	16.61	Corn Seed VT3Pro	thous	3.56
Dimethoate 4E	pt	6.27	Cotton Seed B2RF	thous	0.74
Dimilin 2L	oz	2.01	Cotton Seed LLB2	thous	1.19
Dipel DF	lb	13.50	Peanut Seed	lb	0.70
Dipel ES	pt	5.00	Rice Clearfield	lb	0.90
Discipline 2 EC	oz	0.86	Rice Clearfield Hyb	lb	6.12
Endigo ZC	pt	15.07	Rice Conv. Hybrid	lb	5.80
Epi-Mek	pt	15.66	Rice Seed (Levees)	lb	0.38
Fanfare 2EC	oz	0.88	Rice Seed CF(Levees)	lb	0.90
Force 3G	lb	6.73	Rice Seed CFH(Levee)	lb	6.12
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.38
Furadan 4FLFR	pt	9.81	Sorghum Concept	lb	2.28
Gaicho 600	oz	5.80	Soybean Seed LL	lb	1.12
Hero	pt	24.59	Soybean Seed RR2	lb	1.19
Holster	pt	14.38			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2015 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Wheat Seed Private	lb	0.32	B2RF Cot Tech Fee	thous	1.49
SURVEY & MARK LEVEES			B2RF Cot Tech Fee	cap/ac	62.69
Survey & Mark Levees	acre	4.50	LLB2 Cot Tech Fee	thous	0.76
Survey & Mark Levees	acre	4.50	RF Cot Tech Fee	thous	1.04
TECHNOLOGY FEE			RF Cot Tech Fee	cap/ac	43.66
B2 Cot Tech Fee	thous	0.76	WRF Cot Tech Fee	thous	1.45
B2 Cot Tech Fee	cap/ac	31.91	WS Cot Tech Fee	thous	0.41
			WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2015

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel (DI) Price	(\$/gal):	3.20
Gasoline (GA) Price.	(\$/gal):	3.40
LP Gas (LP) Price.	(\$/gal):	2.30
INTEREST RATES		
Short-term Interest Rate	(%):	4.40
Intermediate-term Interest Rate.	(%):	4.50

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2015

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	12.55
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, 2015

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '15	3.84420	-0.3411	3.50	2.1	3.50
Cotton Lint	lb	Dec '15	0.67240	-0.0310	0.641	0.52	0.64
Cottonseed	lb						0.113 ^f
Grain Sorghum	bu				3.34	2.02	3.34
Peanuts	ton				425.00	355.00	425.00
Soybeans	bu	Nov '15	9.86050	-0.2036	9.66	5.21	9.66
Rice	bu	Sep '15	5.83450	-0.2583	5.58	2.98	5.58
Wheat	bu	Jul '15	5.37180	-0.3954	4.98	2.65	4.98

^a Average of the daily closing futures contract prices during September 2014 for the stated contract months.

^b Basis is the mid-week Greenville, MS cash price minus the futures contract price for the stated contract month. The reported basis is an Olympic average from 2006 to 2013, which removes the highest and lowest within week basis value. All basis values are composed of the typical harvest timeframe for each crop according to USDA, NASS crop progress reports.

^c The forward contract price for cotton, soybeans, corn, wheat, and rice is the futures contract price plus the basis. is estimated from a poll of industry peanut buyers.

^d Average Mississippi loan rate for the 2014 crop year for soybeans, corn, grain sorghum, and wheat. 2014 National average Loan rate for cotton. 2014 Mississippi farm stored loan rate for long grain rice. 2014 national average loan rate for peanuts.

^e Price used in the 2015 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2010-2014.

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, 2015

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		0.45	0.10	0.20			0.02	0.77	1.37
Survey & Mark Levees	acre	4.50						0.10	4.60	4.60
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.20	0.27	0.54			0.04	2.05	3.63
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25			0.02	0.77	1.13
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)	32"		0.82	0.18	0.42			0.01	1.43	2.44
Tear Down Levees										
Levee Splitter (1/80)	32"		0.31	0.07	0.16				0.54	0.92
Land Forming (\$113)	each								7.62	7.62
Levee Gates	each								0.54	0.54
Well & Pump, Flood	each			4.88				0.09	4.97	13.70
Engine, Rice CL, 75	each								15.47	15.47
May Irrigation	ac-in		15.64	1.37				0.37	17.38	17.38
June Irrigation	ac-in		23.46	2.06				0.47	25.99	25.99
July Irrigation	ac-in		23.46	2.06				0.37	25.89	25.89
August Irrigation	ac-in		23.46	2.06				0.28	25.80	25.80
TOTALS		4.50	89.23	13.12	33.53	0.00	2.30	142.68	41.26	183.94

Note: Cost of production estimates are based on 2014 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, 2015

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		0.90	0.21	0.40			0.03	1.54	1.19 2.73
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25			0.02	0.77	0.36 1.13
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	32"		0.62	0.14	0.31			0.01	1.08	0.76 1.84
Land Forming (\$390)	each								30.35	30.35
Levee Gates	each								0.54	0.54
Well & Pump, Flood	each			4.88				0.09	4.97	13.70 18.67
Engine, Rice SL, 75	each								14.51	14.51
May Irrigation	ac-in		15.64	1.57				0.38	17.59	17.59
June Irrigation	ac-in		18.25	1.84				0.37	20.46	20.46
July Irrigation	ac-in		18.25	1.84				0.29	20.38	20.38
August Irrigation	ac-in		18.25	1.84				0.22	20.31	20.31
TOTALS		2.25	72.34	12.39	22.48	0.00	1.82	111.28	61.41	172.69

Note: Cost of production estimates are based on 2014 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, 2015

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		0.90	0.21	0.40		0.03	1.54	1.19	2.73
Butt Levees										
Blade-Box	6'-7'		0.43	0.07	0.25		0.02	0.77	0.36	1.13
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Ditcher (1m/160a)			0.20	0.05	0.12		0.01	0.38	0.18	0.56
Roll-Out Pipe	ft	8.58					0.19	8.77		8.77
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.27	0.06	0.39		0.02	0.74	0.47	1.21
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)	32"		0.62	0.14	0.31		0.01	1.08	0.76	1.84
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.13	0.03	0.19			0.35	0.24	0.59
Land Forming (\$390)	each								30.35	30.35
Levee Gates	each								0.27	0.27
Well & Pump, Flood	each			4.88			0.09	4.97	13.70	18.67
Engine, Mult In Rice	each								15.47	15.47
May Irrigation	ac-in		13.03	1.57			0.32	14.92		14.92
June Irrigation	ac-in		15.64	1.89			0.32	17.85		17.85
July Irrigation	ac-in		15.64	1.89			0.26	17.79		17.79
August Irrigation	ac-in		15.64	1.89			0.19	17.72		17.72
TOTALS		10.83	62.50	12.68	11.84	0.00	1.68	99.53	62.99	162.52

Note: Cost of production estimates are based on 2014 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, 2015

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 (\$390)	each								30.35	30.35
Well & Pump, Flood	each			4.88				0.09	4.97	13.70
Engine, Rice SL, 75	each								14.51	14.51
May Irrigation	ac-in		10.43	1.05				0.25	11.73	11.73
June Irrigation	ac-in		13.03	1.31				0.26	14.60	14.60
July Irrigation	ac-in		13.03	1.31				0.21	14.55	14.55
August Irrigation	ac-in		13.03	1.31				0.16	14.50	14.50
TOTALS		0.00	49.52	9.86	9.53	0.00	1.12	70.03	58.56	128.59

Note: Cost of production estimates are based on 2014 input prices.

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