

**RICE
2013
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2012-06**

December 2012

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 2013 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.

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

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

The mention in this report of any commercial product does not imply its endorsement by MSU-ES, MAFES, or USDA over other products not named nor does the omission imply they are not satisfactory.

2013 Budget Committees

Corn, Grain Sorghum, and Wheat

Larry Falconer, MSU-ES, Chairman
 Jason Bond, MSU-ES
 Angus Catchot, MSU-ES
 Tom Eubank, MAFES
 Jason Krutz, MSU-ES
 Eric Larson, MSU-ES/MAFES
 Larry Oldham, MSU-ES
 H. C. Pringle, MAFES

Cotton

John Michael Riley, MSU-ES, Chairman
 Jason Bond, MAFES
 Angus Catchot, MSU-ES
 Darrin Dodds, MSU-ES
 Larry Oldham, MSU-ES
 H. C. Pringle, MAFES
 Dan Reynolds, MAFES

Peanuts

John Michael Riley, MSU-ES, Chairman
 Mike Howell, MSU-ES

Rice

John Michael Riley, MSU-ES, Chairman
 Jason Bond, MAFES
 Nathan Buehring, MSU-ES
 H. C. Pringle, MAFES
 Tim Walker, MAFES

Soybeans

Larry Falconer, MSU-ES, Chairman
 Normie W. Buehring, MAFES
 Angus Catchot, MSU-ES
 Tom Eubank, MAFES
 Trent Irby, MSU-ES
 Jason Krutz, MSU-ES
 H. C. Pringle, MAFES

Vegetables

Ken Hood, MSU-ES, Chairman
 David Ingram, MAFES
 Blake Layton, MSU-ES
 David H. Nagel, MSU-ES

Fruit & Nut

Kim Morgan, MSU-ES, Chairman
 Eric Stafne, MSU-ES
 David Ingram, MAFES
 Frank Matta, MAFES

Supporting Committees

Equipment

Larry Falconer, MSU-ES, Chairman
 W. Gail Gillis, MAFES
 Ken Hood, MSU-ES
 Dave Sites, MAFES

Prices

Larry Falconer, MSU-ES, Chairman
 W. Gail Gillis, MAFES
 Ken Hood, MSU-ES
 Dave Sites, MAFES

Documentation and Data Processing

Larry Falconer, MSU-ES, Chairman
 W. Gail Gillis, MAFES
 Ken Hood, MSU-ES
 Dave Sites, MAFES

Publication Review

Larry Falconer, MSU-ES, Chairman
 W. Gail Gillis, MAFES
 Ken Hood, MSU-ES
 Dave Sites, MAFES

Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2013 Budget Committees.....	ii
2013 Planning Budgets	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures	1
Production Practices	1
Machinery	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns	3
Irrigation Costs	3
Net Returns	3
 Enterprise Budgets	
Table	
1 Contour levee rice Flood irrigated, 33 ac-in, Delta Area	6
2 Straight levee rice Flood irrigated, 27 ac-in, Delta Area	12
3 Straight levee rice Multi inlet flood irrigated, 23 ac-in, Delta Area	18
4 Straight levee rice – zero grade Flood irrigated, 19 ac-in, Delta Area	24
5 Clearfield contour levee rice Flood irrigated, 33 ac-in, Delta Area	30
6 Clearfield straight levee rice Flood irrigated, 27 ac-in, Delta Area	36
7 Clearfield straight levee multi inlet rice Flood irrigated, 23 ac-in, Delta Area	42
8 Clearfield straight levee-zero grade rice Flood irrigated, 19 ac-in, Delta Area	48
9 Clearfield hybrid straight levee rice Flood irrigated, 27 ac-in, Delta Area	54

Appendix
Table

1	Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour	62
2	Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per acre.....	63
3	Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre	64
4	Operating inputs: estimated prices	71
5	Estimated fuel prices and interest rates	75
6	Labor types, wage rates and unallocated labor multipliers for crop enterprises.....	75
7	Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets	76
8	Contour levee rice flood irrigation system 80-acre system, 33 ac-in., Delta Area.....	77
9	Straight levee rice flood irrigation system 80-acre system, 27 ac-in., Delta Area	78
10	Straight levee rice multi-inlet flood irrigation system 80-acre system, 23 ac-in., Delta Area	79
11	Straight levee rice - zero grade flood irrigation system 80-acre system, 19 ac-in., Delta Area	80
	Literature Cited	81

2013 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 2012. (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 2012 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

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

Net Returns

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

Enterprise Budgets

Table 1.A Estimated costs per acre
 Contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.2500	19.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	0.7500	16.48	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Riceshot	pt	3.48	8.0000	27.84	_____
Facet L	pt	14.25	0.4000	5.70	_____
Permit 75 DF	oz	19.79	0.5000	9.90	_____
Clincher SF	oz	2.10	7.5000	15.75	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.29	90.0000	26.10	_____
Rice Seed (Levees)	lb	0.29	15.0000	4.35	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	148.0000	45.88	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5757	6.73	_____
Harvesters	hour	11.71	0.2030	2.38	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR					
	hour	11.72	0.5887	6.90	_____
DIESEL FUEL					
Tractors	gal	3.50	5.4144	18.95	_____
Harvesters	gal	3.50	3.3975	11.89	_____
Flood Irr.	gal	3.50	26.8827	94.09	_____
REPAIR & MAINTENANCE					
Implements	acre	7.30	1.0000	7.30	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	6.30	1.0000	6.30	_____
Flood Irr.	acre	11.59	1.0000	11.59	_____
INTEREST ON OP. CAP.	acre	9.62	1.0000	9.62	_____
TOTAL DIRECT EXPENSES				660.32	_____
FIXED EXPENSES					
Implements	acre	15.54	1.0000	15.54	_____
Tractors	acre	17.04	1.0000	17.04	_____
Harvesters	acre	25.25	1.0000	25.25	_____
Flood Irr.	acre	37.11	1.0000	37.11	_____
TOTAL FIXED EXPENSES				94.94	_____
TOTAL SPECIFIED EXPENSES				755.26	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	148.0000	925.00	_____

TOTAL INCOME				925.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.88	1.0000	21.88	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	16.48	1.0000	16.48	_____
HERBICIDES	acre	81.64	1.0000	81.64	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	30.45	1.0000	30.45	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	45.88	1.0000	45.88	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	11.71	0.7788	9.11	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	11.72	0.5887	6.90	_____
DIESEL FUEL	gal	3.50	35.6946	124.93	_____
REPAIR & MAINTENANCE	acre	27.87	1.0000	27.87	_____
INTEREST ON OP. CAP.	acre	9.62	1.0000	9.62	_____

TOTAL DIRECT EXPENSES				660.32	_____
RETURNS ABOVE DIRECT EXPENSES				264.68	_____
TOTAL FIXED EXPENSES				94.94	_____

TOTAL SPECIFIED EXPENSES				755.26	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				169.74	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.77	0.77	6.14	0.58

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Seed Conv.	lb	26.10					0.55	26.65		26.65
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed (Levees)	lb	4.35					0.09	4.44		4.44
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	27.84					0.49	28.33		28.33
Facet L	pt	5.70					0.10	5.80		5.80
Permit 75 DF	oz	9.90					0.18	10.08		10.08
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Karate Z	oz	6.30					0.11	6.41		6.41
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	15.75					0.22	15.97		15.97
Crop Oil Conc.(Pet.)	pt	3.75					0.05	3.80		3.80
Rice Management										
RICE MGT. LABOR	hour				4.53		0.06	4.59		4.59
App Fert by Air	cwt	9.75					0.14	9.89		9.89
Urea, Solid (46% N)	cwt	42.60					0.60	43.20		43.20
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	16.48					0.18	16.66		16.66
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		11.89	8.63	4.52		0.18	25.22	28.97	54.19
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	45.88					0.32	46.20		46.20
Dry Rice	bu	59.20					0.42	59.62		59.62
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	4.50	97.60	12.21	33.42		2.36	150.09	40.86	190.95
TOTALS		433.23	124.93	27.87	64.67	0.00	9.62	660.32	94.94	755.26

Note: Cost of production estimates are based on 2012 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, 2013

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	925.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.52	42.60	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	16.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.45	43.44	15.75	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.45	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	3.75	0.00	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	45.88	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	2.93	0.00	0.00	0.00	0.00	0.00	15.89	9.52	11.33	11.33	10.30	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	24.74	25.66	25.66	25.66	13.51	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.44	6.71	1.83	1.83	8.99	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.16	3.76	1.60	0.70	0.98	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	104.63	215.04	115.27	66.03	138.86	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-104.63	-215.04	-115.27	-66.03	786.14	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-114.06	-329.10	-444.37	-510.40	275.74	264.68

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	74.00	bu	-260 -355	-237 -332	-214 -309	-191 -286	-168 -262	-144 -239	-121 -216	-98 -193	-75 -170	-52 -147	-29 -124
60	88.80	bu	-201 -296	-173 -268	-146 -241	-118 -213	-90 -185	-62 -157	-35 -130	-7 -102	20 -74	48 -46	75 -19
70	103.60	bu	-142 -237	-110 -205	-78 -173	-45 -140	-13 -108	18 -76	51 -43	83 -11	116 21	148 53	180 85
80	118.40	bu	-84 -179	-47 -142	-10 -105	26 -68	63 -31	100 5	137 42	174 79	211 116	248 153	285 190
90	133.20	bu	-25 -120	16 -78	57 -37	99 4	141 46	182 87	224 129	266 171	307 212	349 254	390 295
100	148.00	bu	33 -61	79 -15	125 30	172 77	218 123	264 169	310 215	357 262	403 308	449 354	495 400
110	162.80	bu	92 -2	143 48	193 99	244 149	295 200	346 251	397 302	448 353	499 404	550 455	600 506
120	177.60	bu	151 56	206 111	262 167	317 222	373 278	428 333	484 389	539 444	595 500	650 555	706 611
130	192.40	bu	209 114	269 174	330 235	390 295	450 355	510 415	570 475	630 535	690 595	750 655	811 716
140	207.20	bu	268 173	333 238	398 303	462 367	527 432	592 497	657 562	721 626	786 691	851 756	916 821
150	222.00	bu	327 232	396 301	466 371	535 440	604 509	674 579	743 648	813 718	882 787	951 856	1021 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 2012 input prices.

Table 2.A Estimated costs per acre
 Straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.2500	19.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	0.7500	16.48	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Riceshot	pt	3.48	8.0000	27.84	_____
Facet L	pt	14.25	0.4000	5.70	_____
Permit 75 DF	oz	19.79	0.5000	9.90	_____
Clincher SF	oz	2.10	7.5000	15.75	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.29	90.0000	26.10	_____
Rice Seed (Levees)	lb	0.29	15.0000	4.35	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	156.0000	48.36	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5281	6.17	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	5.0192	17.57	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	21.9949	76.99	_____
REPAIR & MAINTENANCE					
Implements	acre	6.94	1.0000	6.94	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	11.59	1.0000	11.59	_____
INTEREST ON OP. CAP.	acre	9.05	1.0000	9.05	_____
TOTAL DIRECT EXPENSES				622.85	_____
FIXED EXPENSES					
Implements	acre	14.77	1.0000	14.77	_____
Tractors	acre	15.76	1.0000	15.76	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	58.39	1.0000	58.39	_____
TOTAL FIXED EXPENSES				110.80	_____
TOTAL SPECIFIED EXPENSES				733.65	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	156.0000	975.00	_____

TOTAL INCOME				975.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.88	1.0000	21.88	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	16.48	1.0000	16.48	_____
HERBICIDES	acre	81.64	1.0000	81.64	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	30.45	1.0000	30.45	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	48.36	1.0000	48.36	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.71	0.7041	8.23	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	29.9586	104.87	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	9.05	1.0000	9.05	_____

TOTAL DIRECT EXPENSES				622.85	_____
RETURNS ABOVE DIRECT EXPENSES				352.15	_____
TOTAL FIXED EXPENSES				110.80	_____

TOTAL SPECIFIED EXPENSES				733.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				241.35	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Seed Conv.	lb	26.10					0.55	26.65		26.65
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed (Levees)	lb	4.35					0.09	4.44		4.44
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	27.84					0.49	28.33		28.33
Facet L	pt	5.70					0.10	5.80		5.80
Permit 75 DF	oz	9.90					0.18	10.08		10.08
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Karate Z	oz	6.30					0.11	6.41		6.41
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	15.75					0.22	15.97		15.97
Crop Oil Conc.(Pet.)	pt	3.75					0.05	3.80		3.80
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	42.60					0.60	43.20		43.20
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	16.48					0.18	16.66		16.66
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	48.36					0.34	48.70		48.70
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	2.25	79.12	11.95	22.42		1.87	117.61	60.59	178.20
TOTALS		436.66	104.87	26.46	45.81	0.00	9.05	622.85	110.80	733.65

Note: Cost of production estimates are based on 2012 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, 2013

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	975.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.52	42.60	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	16.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.45	43.44	15.75	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.45	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	3.75	0.00	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	48.36	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	2.93	0.00	0.00	0.00	0.00	0.00	11.95	5.44	6.34	6.34	9.44	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	23.92	19.96	19.96	19.96	11.37	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.55	6.62	1.74	1.74	7.74	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.02	3.58	1.45	0.59	0.99	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	97.59	204.99	104.34	55.14	140.30	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-97.59	-204.99	-104.34	-55.14	834.70	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-107.02	-312.01	-416.35	-471.49	363.21	352.15

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-201 -312	-177 -287	-152 -263	-128 -239	-103 -214	-79 -190	-55 -166	-30 -141	-6 -117	17 -92	42 -68
60	93.60	bu	-139 -250	-110 -221	-80 -191	-51 -162	-22 -133	6 -104	36 -74	65 -45	94 -16	123 12	153 42
70	109.20	bu	-77 -188	-43 -154	-9 -120	24 -85	58 -51	93 -17	127 16	161 50	195 84	229 118	263 152
80	124.80	bu	-15 -126	23 -87	62 -48	101 -9	140 29	179 68	218 107	257 146	296 185	335 224	374 263
90	140.40	bu	46 -64	90 -20	134 23	178 67	221 111	265 155	309 198	353 242	397 286	441 330	485 374
100	156.00	bu	108 -2	157 46	205 95	254 143	303 192	352 241	400 290	449 338	498 387	547 436	595 485
110	171.60	bu	170 59	223 113	277 166	331 220	384 274	438 327	492 381	545 434	599 488	652 542	706 595
120	187.20	bu	232 121	290 180	349 238	407 297	466 355	524 414	583 472	641 531	700 589	758 648	817 706
130	202.80	bu	294 183	357 246	421 310	484 373	547 437	611 500	674 563	737 627	801 690	864 753	928 817
140	218.40	bu	356 245	424 313	492 381	561 450	629 518	697 586	765 654	834 723	902 791	970 859	1038 927
150	234.00	bu	418 307	491 380	564 453	637 526	710 599	783 673	857 746	930 819	1003 892	1076 965	1149 1038

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 2012 input prices.

Table 3.A Estimated costs per acre
 Straight levee rice
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.2500	19.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	0.7500	16.48	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Riceshot	pt	3.48	8.0000	27.84	_____
Facet L	pt	14.25	0.4000	5.70	_____
Permit 75 DF	oz	19.79	0.5000	9.90	_____
Clincher SF	oz	2.10	7.5000	15.75	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.29	90.0000	26.10	_____
Rice Seed (Levees)	lb	0.29	15.0000	4.35	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	156.0000	48.36	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5563	6.50	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	5.2074	18.23	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	18.7364	65.59	_____
REPAIR & MAINTENANCE					
Implements	acre	6.99	1.0000	6.99	_____
Tractors	acre	2.54	1.0000	2.54	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	11.32	1.0000	11.32	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____
TOTAL DIRECT EXPENSES				609.04	_____
FIXED EXPENSES					
Implements	acre	15.19	1.0000	15.19	_____
Tractors	acre	16.21	1.0000	16.21	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	58.10	1.0000	58.10	_____
TOTAL FIXED EXPENSES				111.38	_____
TOTAL SPECIFIED EXPENSES				720.42	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	156.0000	975.00	_____

TOTAL INCOME				975.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.88	1.0000	21.88	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	16.48	1.0000	16.48	_____
HERBICIDES	acre	81.64	1.0000	81.64	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	30.45	1.0000	30.45	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	48.36	1.0000	48.36	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	11.71	0.7323	8.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	26.8883	94.13	_____
REPAIR & MAINTENANCE	acre	26.31	1.0000	26.31	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____

TOTAL DIRECT EXPENSES				609.04	_____
RETURNS ABOVE DIRECT EXPENSES				365.96	_____
TOTAL FIXED EXPENSES				111.38	_____

TOTAL SPECIFIED EXPENSES				720.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				254.58	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed (Levees)	lb					15.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Seed Conv.	lb	26.10					0.55	26.65		26.65
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed (Levees)	lb	4.35					0.09	4.44		4.44
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	27.84					0.49	28.33		28.33
Facet L	pt	5.70					0.10	5.80		5.80
Permit 75 DF	oz	9.90					0.18	10.08		10.08
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Karate Z	oz	6.30					0.11	6.41		6.41
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	15.75					0.22	15.97		15.97
Crop Oil Conc.(Pet.)	pt	3.75					0.05	3.80		3.80
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	42.60					0.60	43.20		43.20
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	16.48					0.18	16.66		16.66
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	48.36					0.34	48.70		48.70
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	10.17	68.38	11.80	11.75		1.70	103.80	61.17	164.97
TOTALS		444.58	94.13	26.31	35.14	0.00	8.88	609.04	111.38	720.42

Note: Cost of production estimates are based on 2012 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, 2013

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	975.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.52	42.60	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	16.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.45	43.44	15.75	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	30.45	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	3.75	0.00	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	48.36	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	2.93	0.00	0.00	0.00	0.00	0.00	9.72	2.72	3.62	3.62	9.16	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	21.58	17.11	17.11	17.11	11.52	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.55	6.56	1.68	1.68	7.77	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.09	3.48	1.38	0.53	0.98	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	101.01	199.26	98.64	49.45	140.19	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-101.01	-199.26	-98.64	-49.45	834.81	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-110.44	-309.70	-408.34	-457.79	377.02	365.96

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-187 -299	-163 -274	-138 -250	-114 -225	-90 -201	-65 -177	-41 -152	-17 -128	7 -104	31 -79	56 -55
60	93.60	bu	-125 -237	-96 -207	-67 -178	-37 -149	-8 -120	20 -90	49 -61	79 -32	108 -3	137 26	166 55
70	109.20	bu	-63 -175	-29 -140	4 -106	38 -72	72 -38	106 -4	141 29	175 63	209 97	243 132	277 166
80	124.80	bu	-1 -113	37 -74	76 -35	115 3	154 42	193 81	232 120	271 159	310 198	349 237	388 276
90	140.40	bu	60 -51	104 -7	147 36	191 80	235 124	279 168	323 212	367 255	411 299	455 343	498 387
100	156.00	bu	122 10	170 59	219 108	268 157	317 205	365 254	414 303	463 352	512 400	560 449	609 498
110	171.60	bu	184 72	237 126	291 180	345 233	398 287	452 340	505 394	559 448	613 501	666 555	720 609
120	187.20	bu	246 134	304 193	363 251	421 310	480 368	538 427	597 485	655 544	714 602	772 661	831 719
130	202.80	bu	308 196	371 260	434 323	498 386	561 450	624 513	688 576	751 640	815 703	878 767	941 830
140	218.40	bu	370 258	438 326	506 395	574 463	643 531	711 599	779 668	847 736	916 804	984 872	1052 941
150	234.00	bu	432 320	505 393	578 466	651 540	724 613	797 686	870 759	943 832	1017 905	1090 978	1163 1051

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 2012 input prices.

Table 4.A Estimated costs per acre
 Straight levee rice - zero grade
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	6.00	3.2500	19.50	_____
App by Air (3 gal)	appl	4.75	0.5000	2.38	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	0.7500	16.48	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Riceshot	pt	3.48	8.0000	27.84	_____
Facet L	pt	14.25	0.4000	5.70	_____
Permit 75 DF	oz	19.79	0.5000	9.90	_____
Clincher SF	oz	2.10	7.5000	15.75	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.29	90.0000	26.10	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	164.0000	50.84	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4510	5.27	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	4.4111	15.44	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	15.4779	54.18	_____
REPAIR & MAINTENANCE					
Implements	acre	6.87	1.0000	6.87	_____
Tractors	acre	2.18	1.0000	2.18	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	9.59	1.0000	9.59	_____
INTEREST ON OP. CAP.	acre	8.28	1.0000	8.28	_____
TOTAL DIRECT EXPENSES				580.97	_____
FIXED EXPENSES					
Implements	acre	14.44	1.0000	14.44	_____
Tractors	acre	13.89	1.0000	13.89	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	57.80	1.0000	57.80	_____
TOTAL FIXED EXPENSES				108.01	_____
TOTAL SPECIFIED EXPENSES				688.98	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	164.0000	1025.00	_____
TOTAL INCOME				-----	_____
				1025.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.88	1.0000	21.88	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	16.48	1.0000	16.48	_____
HERBICIDES	acre	81.64	1.0000	81.64	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	26.10	1.0000	26.10	_____
ADJUVANTS	acre	3.75	1.0000	3.75	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	50.84	1.0000	50.84	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	11.71	0.6270	7.33	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	22.8336	79.93	_____
REPAIR & MAINTENANCE	acre	24.10	1.0000	24.10	_____
INTEREST ON OP. CAP.	acre	8.28	1.0000	8.28	_____
TOTAL DIRECT EXPENSES				-----	_____
RETURNS ABOVE DIRECT EXPENSES				580.97	_____
				444.03	_____
TOTAL FIXED EXPENSES				108.01	_____
TOTAL SPECIFIED EXPENSES				-----	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				688.98	_____
				336.02	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					90.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App by Air (5 gal)	appl			1.00	May	1.0000				
Riceshot	pt					8.0000				
Facet L	pt					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Seed Conv.	lb	26.10					0.55	26.65		26.65
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Riceshot	pt	27.84					0.49	28.33		28.33
Facet L	pt	5.70					0.10	5.80		5.80
Permit 75 DF	oz	9.90					0.18	10.08		10.08
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Karate Z	oz	6.30					0.11	6.41		6.41
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	15.75					0.22	15.97		15.97
Crop Oil Conc.(Pet.)	pt	3.75					0.05	3.80		3.80
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	42.60					0.60	43.20		43.20
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	16.48					0.18	16.66		16.66
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	50.84					0.36	51.20		51.20
Dry Rice	bu	65.60					0.46	66.06		66.06
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre		54.18	9.59	9.53		1.15	74.45	57.80	132.25
TOTALS		435.74	79.93	24.10	32.92	0.00	8.28	580.97	108.01	688.98

Note: Cost of production estimates are based on 2012 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, 2013

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	1025.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	3.00	6.88	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86.52	42.60	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	16.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	22.45	43.44	15.75	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	26.10	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	3.75	0.00	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	50.84	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	2.93	0.00	0.00	0.00	0.00	0.00	7.04	3.18	4.08	4.08	8.24	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	16.76	14.26	14.26	14.26	10.69	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	3.81	6.12	1.24	1.24	7.62	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	1.60	3.43	1.33	0.49	1.01	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	77.76	196.38	95.76	46.58	144.00	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-77.76	-196.38	-95.76	-46.58	881.00	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-87.19	-283.57	-379.33	-425.91	455.09	444.03

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
			-----dollars-----										
PERCENT	YIELD	UNIT											
50	82.00	bu	-137	-112	-86	-61	-35	-9	15	41	67	92	118
			-245	-220	-194	-169	-143	-117	-92	-66	-40	-15	10
60	98.40	bu	-72	-42	-11	19	50	80	111	142	173	203	234
			-180	-150	-119	-88	-57	-27	3	34	65	95	126
70	114.80	bu	-7	28	64	99	135	171	207	243	279	315	351
			-115	-79	-43	-8	27	63	99	135	171	207	243
80	131.20	bu	57	98	139	180	221	262	303	344	385	426	467
			-50	-9	31	72	113	154	195	236	277	318	359
90	147.60	bu	122	168	214	261	307	353	399	445	491	537	583
			14	60	106	152	199	245	291	337	383	429	475
100	164.00	bu	187	239	290	341	392	444	495	546	597	649	700
			79	131	182	233	284	336	387	438	489	541	592
110	180.40	bu	252	309	365	422	478	534	591	647	703	760	816
			144	201	257	314	370	426	483	539	595	652	708
120	196.80	bu	318	379	441	502	564	625	687	748	810	871	933
			210	271	333	394	456	517	579	640	702	763	825
130	213.20	bu	383	449	516	583	649	716	782	849	916	982	1049
			275	341	408	475	541	608	674	741	808	874	941
140	229.60	bu	448	520	591	663	735	807	878	950	1022	1094	1165
			340	412	483	555	627	699	770	842	914	986	1057
150	246.00	bu	513	590	667	744	821	897	974	1051	1128	1205	1282
			405	482	559	636	713	789	866	943	1020	1097	1174

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 2012 input prices.

Table 5.A Estimated costs per acre
 Clearfield contour levee rice
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.75	1.0000	7.75	_____
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	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	1.0000	21.97	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Newpath 2SL	oz	3.15	4.0000	12.60	_____
Clearpath	lb	48.09	0.5000	24.05	_____
Beyond	oz	3.90	1.2500	4.88	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Clearfield	lb	0.85	80.0000	68.00	_____
Rice Seed CF(Levees)	lb	0.85	14.0000	11.90	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.6000	6.00	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	148.0000	45.88	_____
DRYING					
Dry Rice	bu	0.40	148.0000	59.20	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	1.0000	4.50	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5757	6.73	_____
Harvesters	hour	11.71	0.2030	2.38	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	3.5250	31.96	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.72	0.5887	6.90	_____
DIESEL FUEL					
Tractors	gal	3.50	5.4144	18.95	_____
Harvesters	gal	3.50	3.3975	11.89	_____
Flood Irr.	gal	3.50	26.8827	94.09	_____
REPAIR & MAINTENANCE					
Implements	acre	7.30	1.0000	7.30	_____
Tractors	acre	2.68	1.0000	2.68	_____
Harvesters	acre	6.30	1.0000	6.30	_____
Flood Irr.	acre	11.59	1.0000	11.59	_____
INTEREST ON OP. CAP.	acre	10.52	1.0000	10.52	_____
TOTAL DIRECT EXPENSES				695.25	_____
FIXED EXPENSES					
Implements	acre	15.54	1.0000	15.54	_____
Tractors	acre	17.04	1.0000	17.04	_____
Harvesters	acre	25.25	1.0000	25.25	_____
Flood Irr.	acre	37.11	1.0000	37.11	_____
TOTAL FIXED EXPENSES				94.94	_____
TOTAL SPECIFIED EXPENSES				790.19	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	148.0000	925.00	_____

TOTAL INCOME				925.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.63	1.0000	23.63	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	21.97	1.0000	21.97	_____
HERBICIDES	acre	63.98	1.0000	63.98	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	79.90	1.0000	79.90	_____
ADJUVANTS	acre	6.00	1.0000	6.00	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	45.88	1.0000	45.88	_____
DRYING	acre	59.20	1.0000	59.20	_____
SURVEY & MARK LEVEES	acre	4.50	1.0000	4.50	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	3.5250	31.96	_____
OPERATOR LABOR	hour	11.71	0.7788	9.11	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.72	0.5887	6.90	_____
DIESEL FUEL	gal	3.50	35.6946	124.93	_____
REPAIR & MAINTENANCE	acre	27.87	1.0000	27.87	_____
INTEREST ON OP. CAP.	acre	10.52	1.0000	10.52	_____

TOTAL DIRECT EXPENSES				695.25	_____
RETURNS ABOVE DIRECT EXPENSES				229.75	_____
TOTAL FIXED EXPENSES				94.94	_____

TOTAL SPECIFIED EXPENSES				790.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				134.81	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (CL)	25' Rigid	325 hp	0.203	1.00	Aug		0.20	0.20	0.20	0.18
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	148.0000				
Dry Rice	bu			1.00	Aug	148.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.12	0.12	3.64	
TOTALS							0.77	0.77	5.34	0.58

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Clearfield	lb	68.00					1.45	69.45		69.45
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed CF(Levees)	lb	11.90					0.25	12.15		12.15
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	12.60					0.27	12.87		12.87
Crop Oil Conc.(Pet.)	pt	3.00					0.06	3.06		3.06
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	24.05					0.43	24.48		24.48
Karate Z	oz	6.30					0.11	6.41		6.41
Crop Oil Conc.(Pet.)	pt	3.00					0.05	3.05		3.05
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	4.88					0.07	4.95		4.95
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	42.60					0.60	43.20		43.20
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.06	6.06		6.06
Stratego	pt	21.97					0.23	22.20		22.20
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		11.89	8.63	4.52		0.18	25.22	28.97	54.19
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	45.88					0.32	46.20		46.20
Dry Rice	bu	59.20					0.42	59.62		59.62
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	4.50	97.60	12.21	33.42		2.36	150.09	40.86	190.95
TOTALS		474.51	124.93	27.87	57.42	0.00	10.52	695.25	94.94	790.19

Note: Cost of production estimates are based on 2012 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, 2013

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	925.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	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	86.52	42.60	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	21.97	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	35.05	24.05	4.88	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	79.90	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	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	45.88	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	2.93	0.00	0.00	0.00	0.00	0.00	15.89	7.71	8.61	8.61	10.30	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	24.74	25.66	25.66	25.66	13.51	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.44	6.71	1.83	1.83	8.99	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.71	3.33	1.35	0.73	0.98	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	178.98	190.41	96.18	70.33	138.86	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-178.98	-190.41	-96.18	-70.33	786.14	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-188.41	-378.82	-475.00	-545.33	240.81	229.75

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	74.00	bu	-295 -390	-272 -367	-249 -344	-226 -321	-202 -297	-179 -274	-156 -251	-133 -228	-110 -205	-87 -182	-64 -159
60	88.80	bu	-236 -331	-208 -303	-181 -276	-153 -248	-125 -220	-97 -192	-70 -165	-42 -137	-14 -109	13 -81	40 -54
70	103.60	bu	-177 -272	-145 -240	-113 -208	-80 -175	-48 -143	-16 -110	16 -78	48 -46	81 -13	113 18	145 50
80	118.40	bu	-119 -214	-82 -177	-45 -140	-8 -103	28 -66	65 -29	102 7	139 44	176 81	213 118	250 155
90	133.20	bu	-60 -155	-18 -113	22 -71	64 -30	106 11	147 52	189 94	231 136	272 177	314 219	355 261
100	148.00	bu	-1 -96	44 -50	91 -3	137 42	183 88	229 134	276 181	322 227	368 273	414 319	461 366
110	162.80	bu	57 -37	108 13	159 64	209 114	260 165	311 216	362 267	413 318	464 369	515 420	566 471
120	177.60	bu	116 21	171 76	227 132	282 187	338 243	393 298	449 354	504 409	560 465	615 520	671 576
130	192.40	bu	174 79	235 140	295 200	355 260	415 320	475 380	535 440	595 500	655 560	716 621	776 681
140	207.20	bu	233 138	298 203	363 268	427 332	492 397	557 462	622 527	686 591	751 656	816 721	881 786
150	222.00	bu	292 197	361 266	431 336	500 405	569 475	639 544	708 613	778 683	847 752	916 821	986 891

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 2012 input prices.

Table 6.A Estimated costs per acre
 Clearfield straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.75	1.0000	7.75	_____
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	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	1.0000	21.97	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Newpath 2SL	oz	3.15	4.0000	12.60	_____
Clearpath	lb	48.09	0.5000	24.05	_____
Beyond	oz	3.90	1.2500	4.88	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Clearfield	lb	0.85	80.0000	68.00	_____
Rice Seed CF(Levees)	lb	0.85	14.0000	11.90	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.6000	6.00	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	156.0000	48.36	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5281	6.17	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	5.0192	17.57	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	21.9949	76.99	_____
REPAIR & MAINTENANCE					
Implements	acre	6.94	1.0000	6.94	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	11.59	1.0000	11.59	_____
INTEREST ON OP. CAP.	acre	10.04	1.0000	10.04	_____
TOTAL DIRECT EXPENSES				665.12	_____
FIXED EXPENSES					
Implements	acre	14.77	1.0000	14.77	_____
Tractors	acre	15.76	1.0000	15.76	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	58.39	1.0000	58.39	_____
TOTAL FIXED EXPENSES				110.80	_____
TOTAL SPECIFIED EXPENSES				775.92	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	156.0000	975.00	_____

TOTAL INCOME				975.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.63	1.0000	23.63	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	21.97	1.0000	21.97	_____
HERBICIDES	acre	63.98	1.0000	63.98	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	79.90	1.0000	79.90	_____
ADJUVANTS	acre	6.00	1.0000	6.00	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	48.36	1.0000	48.36	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.71	0.7041	8.23	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	29.9586	104.87	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	10.04	1.0000	10.04	_____

TOTAL DIRECT EXPENSES				665.12	_____
RETURNS ABOVE DIRECT EXPENSES				309.88	_____
TOTAL FIXED EXPENSES				110.80	_____

TOTAL SPECIFIED EXPENSES				775.92	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				199.08	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Clearfield	lb	68.00					1.45	69.45		69.45
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed CF(Levees)	lb	11.90					0.25	12.15		12.15
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	12.60					0.27	12.87		12.87
Crop Oil Conc.(Pet.)	pt	3.00					0.06	3.06		3.06
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	24.05					0.43	24.48		24.48
Karate Z	oz	6.30					0.11	6.41		6.41
Crop Oil Conc.(Pet.)	pt	3.00					0.05	3.05		3.05
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	4.88					0.07	4.95		4.95
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	42.60					0.60	43.20		43.20
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.06	6.06		6.06
Stratego	pt	21.97					0.23	22.20		22.20
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	48.36					0.34	48.70		48.70
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	2.25	79.12	11.95	22.42		1.87	117.61	60.59	178.20
TOTALS		477.94	104.87	26.46	45.81	0.00	10.04	665.12	110.80	775.92

Note: Cost of production estimates are based on 2012 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, 2013

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	975.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	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	86.52	42.60	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	21.97	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	35.05	24.05	4.88	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	79.90	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	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	48.36	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	2.93	0.00	0.00	0.00	0.00	0.00	11.95	5.44	6.34	6.34	9.44	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	23.92	19.96	19.96	19.96	11.37	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.55	6.62	1.74	1.74	7.74	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.57	3.18	1.23	0.65	0.99	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	171.94	182.20	88.00	62.19	140.30	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-171.94	-182.20	-88.00	-62.19	834.70	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-181.37	-363.57	-451.57	-513.76	320.94	309.88

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	-----dollars-----										
50	78.00	bu	-243 -354	-219 -330	-194 -305	-170 -281	-146 -257	-121 -232	-97 -208	-73 -183	-48 -159	-24 -135	0 -110
60	93.60	bu	-181 -292	-152 -263	-123 -234	-94 -204	-64 -175	-35 -146	-6 -117	22 -87	52 -58	81 -29	110 -0
70	109.20	bu	-119 -230	-85 -196	-51 -162	-17 -128	16 -94	50 -59	84 -25	119 8	153 42	187 76	221 110
80	124.80	bu	-57 -168	-18 -129	20 -90	59 -51	98 -12	137 26	176 65	215 104	254 143	293 182	332 221
90	140.40	bu	4 -106	48 -62	91 -18	135 24	179 68	223 112	267 156	311 200	355 244	399 288	442 332
100	156.00	bu	66 -44	114 4	163 52	212 101	261 150	309 199	358 247	407 296	456 345	504 394	553 442
110	171.60	bu	128 17	181 70	235 124	288 178	342 231	396 285	449 339	503 392	557 446	610 499	664 553
120	187.20	bu	190 79	248 137	307 196	365 254	424 313	482 371	541 430	599 488	658 547	716 605	775 664
130	202.80	bu	252 141	315 204	378 267	442 331	505 394	568 458	632 521	695 584	759 648	822 711	885 774
140	218.40	bu	314 203	382 271	450 339	518 407	587 476	655 544	723 612	791 680	860 749	928 817	996 885
150	234.00	bu	375 265	449 338	522 411	595 484	668 557	741 630	814 703	887 777	960 850	1034 923	1107 996

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 2012 input prices.

Table 7.A Estimated costs per acre
 Clearfield straight levee multi inlet rice
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.75	1.0000	7.75	_____
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	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	1.0000	21.97	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Newpath 2SL	oz	3.15	4.0000	12.60	_____
Clearpath	lb	48.09	0.5000	24.05	_____
Beyond	oz	3.90	1.2500	4.88	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Rice Clearfield	lb	0.85	80.0000	68.00	_____
Rice Seed CF(Levees)	lb	0.85	14.0000	11.90	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.6000	6.00	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	156.0000	48.36	_____
DRYING					
Dry Rice	bu	0.40	156.0000	62.40	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5563	6.50	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.1250	10.18	_____
Implements	hour	9.06	0.0375	0.34	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR					
	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	5.2074	18.23	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	18.7364	65.59	_____
REPAIR & MAINTENANCE					
Implements	acre	6.99	1.0000	6.99	_____
Tractors	acre	2.54	1.0000	2.54	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	11.32	1.0000	11.32	_____
INTEREST ON OP. CAP.	acre	9.87	1.0000	9.87	_____

TOTAL DIRECT EXPENSES				651.31	_____
FIXED EXPENSES					
Implements	acre	15.19	1.0000	15.19	_____
Tractors	acre	16.21	1.0000	16.21	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	58.10	1.0000	58.10	_____

TOTAL FIXED EXPENSES				111.38	_____

TOTAL SPECIFIED EXPENSES				762.69	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	156.0000	975.00	_____

TOTAL INCOME				975.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.63	1.0000	23.63	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	21.97	1.0000	21.97	_____
HERBICIDES	acre	63.98	1.0000	63.98	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	79.90	1.0000	79.90	_____
ADJUVANTS	acre	6.00	1.0000	6.00	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	48.36	1.0000	48.36	_____
DRYING	acre	62.40	1.0000	62.40	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.1625	10.52	_____
OPERATOR LABOR	hour	11.71	0.7323	8.56	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	26.8883	94.13	_____
REPAIR & MAINTENANCE	acre	26.31	1.0000	26.31	_____
INTEREST ON OP. CAP.	acre	9.87	1.0000	9.87	_____

TOTAL DIRECT EXPENSES				651.31	_____
RETURNS ABOVE DIRECT EXPENSES				323.69	_____
TOTAL FIXED EXPENSES				111.38	_____

TOTAL SPECIFIED EXPENSES				762.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				212.31	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	156.0000				
Dry Rice	bu			1.00	Aug	156.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.10	0.10	1.26	
TOTALS							0.73	0.73	2.93	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07			0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86			0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46			0.15	7.39	5.75	13.14
Rice Clearfield	lb	68.00						1.45	69.45		69.45
Roller/Cultipacker	30'		1.70	0.44	1.10			0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76			0.04	2.06	1.05	3.11
Command 3ME	pt	17.08						0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37						0.11	5.48		5.48
Seed Levees											
Rice Seed CF(Levees)	lb	11.90						0.25	12.15		12.15
App by Air (10 gal)	appl	7.75						0.16	7.91		7.91
Newpath 2SL	oz	12.60						0.27	12.87		12.87
Crop Oil Conc.(Pet.)	pt	3.00						0.06	3.06		3.06
App Fert by Air	cwt	4.88						0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52						0.27	15.79		15.79
App Fert by Air	cwt	16.25						0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00						1.26	72.26		72.26
App by Air (5 gal)	appl	6.00						0.11	6.11		6.11
Clearpath	lb	24.05						0.43	24.48		24.48
Karate Z	oz	6.30						0.11	6.41		6.41
Crop Oil Conc.(Pet.)	pt	3.00						0.05	3.05		3.05
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	4.88						0.07	4.95		4.95
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	42.60						0.60	43.20		43.20
Rice Management											
RICE MGT. LABOR	hour				1.81			0.02	1.83		1.83
App by Air (5 gal)	appl	6.00						0.06	6.06		6.06
Stratego	pt	21.97						0.23	22.20		22.20
App by Air (3 gal)	appl	2.38						0.03	2.41		2.41
Karate Z	oz	3.15						0.03	3.18		3.18
Rice Management											
RICE MGT. LABOR	hour				1.81			0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91			0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25			0.01	0.78	0.50	1.28
Handling & Storage											
HAND LABOR	hour				2.27			0.02	2.29		2.29
Haul Rice/Field	bu	48.36						0.34	48.70		48.70
Dry Rice	bu	62.40						0.44	62.84		62.84
Disk Heavy	28'		5.18	2.47	3.37			0.04	11.06	8.40	19.46
Flood Irr.	acre	10.17	68.38	11.80	11.75			1.70	103.80	61.17	164.97
TOTALS		485.86	94.13	26.31	35.14	0.00	9.87	651.31	111.38	762.69	

Note: Cost of production estimates are based on 2012 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, 2013

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	975.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	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	86.52	42.60	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	21.97	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	35.05	24.05	4.88	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	79.90	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	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	48.36	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	2.93	0.00	0.00	0.00	0.00	0.00	9.72	2.72	3.62	3.62	9.16	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	21.58	17.11	17.11	17.11	11.52	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.55	6.56	1.68	1.68	7.77	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.64	3.08	1.16	0.59	0.98	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	175.36	176.47	82.30	56.50	140.19	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-175.36	-176.47	-82.30	-56.50	834.81	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-184.79	-361.26	-443.56	-500.06	334.75	323.69

Note: Cost of production estimates are based on 2012 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, 2013

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-229 -341	-205 -316	-181 -292	-156 -268	-132 -243	-108 -219	-83 -195	-59 -170	-34 -146	-10 -121	13 -97
60	93.60	bu	-167 -279	-138 -250	-109 -220	-80 -191	-50 -162	-21 -133	7 -103	36 -74	66 -45	95 -16	124 13
70	109.20	bu	-105 -217	-71 -183	-37 -149	-3 -114	30 -80	64 -46	98 -12	132 21	167 55	201 89	235 123
80	124.80	bu	-44 -155	-5 -116	33 -77	72 -38	111 0	150 39	189 78	228 117	267 156	306 195	345 234
90	140.40	bu	17 -93	61 -49	105 -5	149 38	193 82	237 125	281 169	325 213	368 257	412 301	456 345
100	156.00	bu	79 -31	128 17	177 66	226 114	274 163	323 212	372 261	421 309	469 358	518 407	567 456
110	171.60	bu	141 30	195 84	249 137	302 191	356 245	410 298	463 352	517 405	570 459	624 513	678 566
120	187.20	bu	203 92	262 151	320 209	379 268	437 326	496 385	554 443	613 502	671 560	730 619	788 677
130	202.80	bu	265 154	329 217	392 281	455 344	519 407	582 471	646 534	709 598	772 661	836 724	899 788
140	218.40	bu	327 216	396 284	464 352	532 421	600 489	669 557	737 625	805 694	873 762	942 830	1010 898
150	234.00	bu	389 278	462 351	536 424	609 497	682 570	755 644	828 717	901 790	974 863	1047 936	1121 1009

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 2012 input prices.

Table 8.A Estimated costs per acre
 Clearfield straight levee-zero grade rice
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.75	1.0000	7.75	_____
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	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	4.0000	113.60	_____
FUNGICIDES					
Stratego	pt	21.97	1.0000	21.97	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Newpath 2SL	oz	3.15	4.0000	12.60	_____
Clearpath	lb	48.09	0.5000	24.05	_____
Beyond	oz	3.90	1.2500	4.88	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Clearfield	lb	0.85	80.0000	68.00	_____
Rice Seed CF(Levees)	lb	0.85	14.0000	11.90	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.6000	6.00	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.7500	30.88	_____
HAULING					
Haul Rice/Field	bu	0.31	164.0000	50.84	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.4510	5.27	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	1.0500	9.53	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	4.4111	15.44	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	15.4779	54.18	_____
REPAIR & MAINTENANCE					
Implements	acre	6.87	1.0000	6.87	_____
Tractors	acre	2.18	1.0000	2.18	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	9.59	1.0000	9.59	_____
INTEREST ON OP. CAP.	acre	9.36	1.0000	9.36	_____
TOTAL DIRECT EXPENSES				627.68	_____
FIXED EXPENSES					
Implements	acre	14.44	1.0000	14.44	_____
Tractors	acre	13.89	1.0000	13.89	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	57.80	1.0000	57.80	_____
TOTAL FIXED EXPENSES				108.01	_____
TOTAL SPECIFIED EXPENSES				735.69	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	164.0000	1025.00	_____

TOTAL INCOME				1025.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.63	1.0000	23.63	_____
FERTILIZERS	acre	129.12	1.0000	129.12	_____
FUNGICIDES	acre	21.97	1.0000	21.97	_____
HERBICIDES	acre	63.98	1.0000	63.98	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	79.90	1.0000	79.90	_____
ADJUVANTS	acre	6.00	1.0000	6.00	_____
CUSTOM FERTILIZE	acre	30.88	1.0000	30.88	_____
HAULING	acre	50.84	1.0000	50.84	_____
DRYING	acre	65.60	1.0000	65.60	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	1.0500	9.53	_____
OPERATOR LABOR	hour	11.71	0.6270	7.33	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	22.8336	79.93	_____
REPAIR & MAINTENANCE	acre	24.10	1.0000	24.10	_____
INTEREST ON OP. CAP.	acre	9.36	1.0000	9.36	_____

TOTAL DIRECT EXPENSES				627.68	_____
RETURNS ABOVE DIRECT EXPENSES				397.32	_____
TOTAL FIXED EXPENSES				108.01	_____

TOTAL SPECIFIED EXPENSES				735.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				289.31	_____

Note: Cost of production estimates are based on 2012 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, 2013

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					80.0000				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CF(Levees)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.5000				
Urea, Solid (46% N)	cwt					1.5000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Stratego	pt					1.0000				
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	164.0000				
Dry Rice	bu			1.00	Aug	164.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000			1.05	
TOTALS							0.62	0.62	2.71	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Clearfield	lb	68.00					1.45	69.45		69.45
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed CF(Levees)	lb	11.90					0.25	12.15		12.15
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	12.60					0.27	12.87		12.87
Crop Oil Conc.(Pet.)	pt	3.00					0.06	3.06		3.06
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App Fert by Air	cwt	16.25					0.29	16.54		16.54
Urea, Solid (46% N)	cwt	71.00					1.26	72.26		72.26
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	24.05					0.43	24.48		24.48
Karate Z	oz	6.30					0.11	6.41		6.41
Crop Oil Conc.(Pet.)	pt	3.00					0.05	3.05		3.05
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	4.88					0.07	4.95		4.95
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	42.60					0.60	43.20		43.20
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	6.00					0.06	6.06		6.06
Stratego	pt	21.97					0.23	22.20		22.20
App by Air (3 gal)	appl	2.38					0.03	2.41		2.41
Karate Z	oz	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	50.84					0.36	51.20		51.20
Dry Rice	bu	65.60					0.46	66.06		66.06
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre		54.18	9.59	9.53		1.15	74.45	57.80	132.25
TOTALS		481.37	79.93	24.10	32.92	0.00	9.36	627.68	108.01	735.69

Note: Cost of production estimates are based on 2012 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, 2013

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	1025.00	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	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	86.52	42.60	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	21.97	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	35.05	24.05	4.88	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	79.90	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.13	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	50.84	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	2.93	0.00	0.00	0.00	0.00	0.00	7.04	3.18	4.08	4.08	8.24	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	16.76	14.26	14.26	14.26	10.69	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	3.81	6.12	1.24	1.24	7.62	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.24	3.03	1.11	0.55	1.01	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	156.55	173.59	79.42	53.63	144.00	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-156.55	-173.59	-79.42	-53.63	881.00	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-165.98	-339.57	-418.99	-472.62	408.38	397.32

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT YIELD UNIT			-----dollars-----										
50	82.00	bu	-184 -292	-159 -267	-133 -241	-107 -215	-82 -190	-56 -164	-30 -138	-5 -113	20 -87	45 -62	71 -36
60	98.40	bu	-119 -227	-88 -196	-58 -166	-27 -135	3 -104	34 -73	64 -43	95 -12	126 18	157 49	187 79
70	114.80	bu	-54 -162	-18 -126	17 -90	53 -54	89 -18	124 16	160 52	196 88	232 124	268 160	304 196
80	131.20	bu	10 -97	51 -56	92 -15	133 25	174 66	215 107	256 148	297 189	338 230	379 271	420 312
90	147.60	bu	75 -32	122 14	168 60	214 106	260 152	306 198	352 244	398 290	444 336	491 383	537 429
100	164.00	bu	141 33	192 84	243 135	294 186	346 238	397 289	448 340	499 391	551 443	602 494	653 545
110	180.40	bu	206 98	262 154	318 210	375 267	431 323	488 380	544 436	600 492	657 549	713 605	769 661
120	196.80	bu	271 163	332 224	394 286	455 347	517 409	578 470	640 532	701 593	763 655	824 716	886 778
130	213.20	bu	336 228	403 295	469 361	536 428	603 495	669 561	736 628	802 694	869 761	936 828	1002 894
140	229.60	bu	401 293	473 365	545 437	616 508	688 580	760 652	832 724	903 795	975 867	1047 939	1119 1011
150	246.00	bu	466 358	543 435	620 512	697 589	774 666	851 743	928 820	1004 896	1081 973	1158 1050	1235 1127

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 2012 input prices.

Table 9.A Estimated costs per acre
 Clearfield hybrid straight levee rice
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (10 gal)	appl	7.75	1.0000	7.75	_____
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	20.70	0.7500	15.52	_____
Urea, Solid (46% N)	cwt	28.40	3.6700	104.23	_____
HERBICIDES					
Command 3ME	pt	17.08	1.0000	17.08	_____
Glyphosate 3lbs a.e	pt	1.79	3.0000	5.37	_____
Newpath 2SL	oz	3.15	4.0000	12.60	_____
Clearpath	lb	48.09	0.5000	24.05	_____
Beyond	oz	3.90	1.2500	4.88	_____
INSECTICIDES					
Karate Z	oz	3.15	3.0000	9.45	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	6.90	25.0000	172.50	_____
Rice Seed CFH(Levee)	lb	6.90	14.0000	96.60	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	3.75	1.6000	6.00	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.50	4.4200	28.73	_____
HAULING					
Haul Rice/Field	bu	0.31	179.0000	55.49	_____
DRYING					
Dry Rice	bu	0.40	179.0000	71.60	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
OPERATOR LABOR					
Tractors	hour	11.71	0.5281	6.17	_____
Harvesters	hour	11.71	0.1760	2.06	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	2.3750	21.52	_____
HAND LABOR					
Special Labor	hour	9.06	0.2500	2.27	_____
Implements	hour	9.06	0.0926	0.84	_____
RICE MGT. LABOR					
Special Labor	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL					
Tractors	gal	3.50	5.0192	17.57	_____
Harvesters	gal	3.50	2.9444	10.31	_____
Flood Irr.	gal	3.50	21.9949	76.99	_____
REPAIR & MAINTENANCE					
Implements	acre	6.94	1.0000	6.94	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	5.46	1.0000	5.46	_____
Flood Irr.	acre	11.59	1.0000	11.59	_____
INTEREST ON OP. CAP.	acre	13.74	1.0000	13.74	_____
TOTAL DIRECT EXPENSES				834.87	_____
FIXED EXPENSES					
Implements	acre	14.77	1.0000	14.77	_____
Tractors	acre	15.76	1.0000	15.76	_____
Harvesters	acre	21.88	1.0000	21.88	_____
Flood Irr.	acre	58.39	1.0000	58.39	_____
TOTAL FIXED EXPENSES				110.80	_____
TOTAL SPECIFIED EXPENSES				945.67	_____

Note: Cost of production estimates are based on 2012 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, 2013

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.25	179.0000	1118.75	_____

TOTAL INCOME				1118.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.63	1.0000	17.63	_____
FERTILIZERS	acre	119.75	1.0000	119.75	_____
HERBICIDES	acre	63.98	1.0000	63.98	_____
INSECTICIDES	acre	9.45	1.0000	9.45	_____
SEED/PLANTS	acre	269.10	1.0000	269.10	_____
ADJUVANTS	acre	6.00	1.0000	6.00	_____
CUSTOM FERTILIZE	acre	28.74	1.0000	28.74	_____
HAULING	acre	55.49	1.0000	55.49	_____
DRYING	acre	71.60	1.0000	71.60	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
HAND LABOR	hour	9.06	0.3426	3.11	_____
IRRIGATE LABOR	hour	9.06	2.3750	21.52	_____
OPERATOR LABOR	hour	11.71	0.7041	8.23	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.71	0.5643	6.61	_____
DIESEL FUEL	gal	3.50	29.9586	104.87	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	13.74	1.0000	13.74	_____

TOTAL DIRECT EXPENSES				834.87	_____
RETURNS ABOVE DIRECT EXPENSES				283.88	_____
TOTAL FIXED EXPENSES				110.80	_____

TOTAL SPECIFIED EXPENSES				945.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				173.08	_____

Note: Cost of production estimates are based on 2012 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, 2013

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				
Roller/Cultipacker	30'	MFWD 190	0.049	1.00	Apr		0.04	0.04	0.04	0.04
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Command 3ME	pt					1.0000				
Glyphosate 3lbs a.e	pt					3.0000				
Seed Levees				1.00	Apr					
Rice Seed CFH(Levee)	lb					14.0000				
App by Air (10 gal)	appl			1.00	Apr	1.0000				
Newpath 2SL	oz					4.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
App Fert by Air	cwt			0.75	May	0.7500				
Amm Sulfate (21% N)	cwt					0.7500				
App Fert by Air	cwt			1.00	May	2.6700				
Urea, Solid (46% N)	cwt					2.6700				
App by Air (5 gal)	appl			1.00	May	1.0000				
Clearpath	lb					0.5000				
Karate Z	oz					2.0000				
Crop Oil Conc.(Pet.)	pt					0.8000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.25	Jun	0.2500				
Beyond	oz					1.2500				
Rice Management				1.00	Jun					
RICE MGT. LABOR	hour								0.20	
App Fert by Air	cwt			1.00	Jun	1.0000				
Urea, Solid (46% N)	cwt					1.0000				
Rice Management				1.00	Jul					
RICE MGT. LABOR	hour								0.20	
App by Air (3 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					1.0000				
Rice Management				1.00	Aug					
RICE MGT. LABOR	hour								0.20	
Header - Draper (SL)	25' Rigid	325 hp	0.176	1.00	Aug		0.17	0.17	0.17	0.15
Grain Cart Rice	700 bu	MFWD 190	0.055	0.20	Aug		0.01	0.01	0.01	0.00
Handling & Storage				1.00	Aug					
HAND LABOR	hour								0.25	
Haul Rice/Field	bu			1.00	Aug	179.0000				
Dry Rice	bu			1.00	Aug	179.0000				
Disk Heavy	28'	MFWD 190	0.075	2.00	Sep		0.15	0.15	0.15	0.13
Flood Irr.	acre				Jan	1.0000	0.07	0.07	2.45	
TOTALS							0.70	0.70	4.12	0.56

Note: Cost of production estimates are based on 2012 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, 2013

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'		3.19	1.19	2.07		0.27	6.72	6.07	12.79
Harrow - Folding	40'		1.33	0.41	0.86		0.11	2.71	1.54	4.25
Grain Drill	24'		2.69	2.09	2.46		0.15	7.39	5.75	13.14
Rice Clearfield Hyb	lb	172.50					3.67	176.17		176.17
Roller/Cultipacker	30'		1.70	0.44	1.10		0.07	3.31	1.80	5.11
Spray (Broadcast)	60'		0.97	0.29	0.76		0.04	2.06	1.05	3.11
Command 3ME	pt	17.08					0.36	17.44		17.44
Glyphosate 3lbs a.e	pt	5.37					0.11	5.48		5.48
Seed Levees										
Rice Seed CFH(Levee)	lb	96.60					2.05	98.65		98.65
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	12.60					0.27	12.87		12.87
Crop Oil Conc.(Pet.)	pt	3.00					0.06	3.06		3.06
App Fert by Air	cwt	4.88					0.09	4.97		4.97
Amm Sulfate (21% N)	cwt	15.52					0.27	15.79		15.79
App Fert by Air	cwt	17.36					0.31	17.67		17.67
Urea, Solid (46% N)	cwt	75.83					1.34	77.17		77.17
App by Air (5 gal)	appl	6.00					0.11	6.11		6.11
Clearpath	lb	24.05					0.43	24.48		24.48
Karate Z	oz	6.30					0.11	6.41		6.41
Crop Oil Conc.(Pet.)	pt	3.00					0.05	3.05		3.05
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	4.88					0.07	4.95		4.95
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	6.50					0.09	6.59		6.59
Urea, Solid (46% N)	cwt	28.40					0.40	28.80		28.80
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	3.15					0.03	3.18		3.18
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.31	7.48	3.91		0.15	21.85	25.10	46.95
Grain Cart Rice	700 bu		0.38	0.14	0.25		0.01	0.78	0.50	1.28
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	55.49					0.39	55.88		55.88
Dry Rice	bu	71.60					0.51	72.11		72.11
Disk Heavy	28'		5.18	2.47	3.37		0.04	11.06	8.40	19.46
Flood Irr.	acre	2.25	79.12	11.95	22.42		1.87	117.61	60.59	178.20
TOTALS		643.99	104.87	26.46	45.81	0.00	13.74	834.87	110.80	945.67

Note: Cost of production estimates are based on 2012 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, 2013

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	1118.75	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	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	91.35	28.40	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	35.05	24.05	4.88	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.00	3.15	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	269.10	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	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	55.49	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	2.93	0.00	0.00	0.00	0.00	0.00	11.95	5.44	6.34	6.34	9.44	3.37
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	4.52	0.00	0.00	0.00	0.00	0.00	23.92	19.96	19.96	19.96	11.37	5.18
REPAIR & MAINTENANCE	1.60	0.00	0.00	0.00	0.00	0.00	4.55	6.62	1.74	1.74	7.74	2.47
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	7.59	3.28	0.98	0.36	1.11	0.04
TOTAL DIRECT EXPENSES	9.43	0.00	0.00	0.00	0.00	0.00	365.16	188.24	70.30	33.93	156.75	11.06
NET INCOME	-9.43	0.00	0.00	0.00	0.00	0.00	-365.16	-188.24	-70.30	-33.93	962.00	-11.06
NET INCOME TO DATE	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-374.59	-562.83	-633.13	-667.06	294.94	283.88

Note: Cost of production estimates are based on 2012 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, 2013

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Rice			4.68	5.00	5.31	5.62	5.93	6.25	6.56	6.87	7.18	7.50	7.81
PERCENT YIELD UNIT			-----dollars-----										
50	89.50	bu	-351 -462	-323 -434	-295 -406	-267 -378	-239 -350	-211 -322	-183 -294	-155 -266	-127 -238	-99 -210	-71 -182
60	107.40	bu	-280 -391	-246 -357	-213 -323	-179 -290	-145 -256	-112 -223	-78 -189	-45 -156	-11 -122	21 -88	55 -55
70	125.30	bu	-209 -319	-169 -280	-130 -241	-91 -202	-52 -163	-13 -124	25 -84	64 -45	104 -6	143 32	182 71
80	143.20	bu	-138 -248	-93 -204	-48 -159	-3 -114	40 -69	85 -25	130 19	175 64	219 109	264 153	309 198
90	161.10	bu	-66 -177	-16 -127	33 -77	84 -26	134 23	184 74	235 124	285 174	335 225	386 275	436 325
100	179.00	bu	4 -106	60 -50	116 5	172 61	227 117	283 173	339 229	395 284	451 340	507 396	563 452
110	196.90	bu	75 -35	136 26	198 87	259 149	321 210	382 272	444 333	506 395	567 456	629 518	690 579
120	214.80	bu	146 35	213 102	280 169	347 236	414 304	482 371	549 438	616 505	683 572	750 639	817 706
130	232.70	bu	217 106	290 179	362 252	435 324	508 397	581 470	653 543	726 615	799 688	871 761	944 833
140	250.60	bu	288 177	366 256	445 334	523 412	601 491	680 569	758 647	836 726	915 804	993 882	1071 960
150	268.50	bu	359 248	443 332	527 416	611 500	695 584	779 668	863 752	947 836	1030 920	1114 1004	1198 1087

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 2012 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, 2013

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	259,000	300	8	13.64	11.60	47.74	26.97	86.31	108.04	194.36
Combine (300-349 hp)	325 hp	298,000	300	8	16.73	11.60	58.55	31.04	101.19	124.31	225.51
Combine (350-399 hp)	355 hp	316,000	300	8	18.27	11.60	63.94	32.91	108.46	131.82	240.28
Combine (400-449 hp)	425 hp	339,000	300	8	21.87	11.60	76.56	35.31	123.47	141.42	264.90
Combine (450-499hp)	475 hp	356,000	300	8	24.44	11.60	85.57	37.08	134.25	148.51	282.76
Cotton Stripper	173 hp	170,000	200	8	8.08	11.60	28.28	26.56	66.44	106.37	172.82
Tractor(20-39hp)CB	MFWD 30	28,100	600	8	1.54	11.60	5.40	0.87	17.88	5.37	23.25
Tractor(20-39hp)RB	MFWD 30	17,400	600	8	1.54	11.60	5.40	0.54	17.54	3.32	20.87
Tractor(40-59hp)CB	2WD 50	35,200	600	8	2.57	11.60	9.00	1.10	21.70	6.73	28.44
Tractor(40-59hp)CB	MFWD 50	36,700	600	8	2.57	11.60	9.00	1.14	21.75	7.02	28.77
Tractor(40-59hp)RB	2WD 50	20,500	600	8	2.57	11.60	9.00	0.64	21.24	3.92	25.16
Tractor(40-59hp)RB	MFWD 50	29,000	600	8	2.57	11.60	9.00	0.90	21.51	5.54	27.06
Tractor(60-89hp)CB	2WD 75	45,300	600	8	3.86	11.60	13.51	1.41	26.52	8.66	35.19
Tractor(60-89hp)CB	MFWD 75	49,400	600	8	3.86	11.60	13.51	1.54	26.65	9.44	36.10
Tractor(60-89hp)RB	2WD 75	33,600	600	8	3.86	11.60	13.51	1.05	26.16	6.42	32.58
Tractor(60-89hp)RB	MFWD 75	40,300	600	8	3.86	11.60	13.51	1.25	26.37	7.70	34.07
Tractor(90-119hp)CB	2WD 105	57,700	600	8	5.40	11.60	18.91	1.80	32.31	11.03	43.35
Tractor(90-119hp)CB	MFWD 105	74,700	600	8	5.40	11.60	18.91	2.33	32.85	14.28	47.13
Tractor(90-119hp)RB	2WD 105	45,800	600	8	5.40	11.60	18.91	1.43	31.94	8.76	40.70
Tractor(90-119hp)RB	MFWD 105	51,800	600	8	5.40	11.60	18.91	1.61	32.13	9.90	42.04
Tractor(120-139hp)CB	2WD 130	82,300	600	8	6.69	11.60	23.41	2.57	37.59	15.74	53.33
Tractor(120-139hp)CB	MFWD 130	101,000	600	8	6.69	11.60	23.41	3.15	38.17	19.32	57.49
Tractor(140-159hp)CB	2WD 150	131,000	600	8	7.72	11.60	27.02	4.09	42.71	25.05	67.77
Tractor(140-159hp)CB	MFWD 150	133,000	600	8	7.72	11.60	27.02	4.15	42.77	25.44	68.22
Tractor(160-179hp)CB	MFWD 170	144,000	600	8	8.75	11.60	30.62	4.50	46.72	28.79	75.51
Tractor(180-199hp)CB	MFWD 190	154,000	600	8	9.77	11.60	34.22	4.81	50.64	30.79	81.43
Tractor(200-249hp)CB	MFWD 225	208,000	600	8	11.58	11.60	40.53	6.50	58.63	41.58	100.22
Tractor(200-249hp)CB	Track 225	258,000	600	8	11.58	11.60	40.53	8.06	60.19	51.58	111.78
Tractor(250-349hp)CB	4WD 300	262,000	600	8	15.44	11.60	54.04	8.18	73.83	52.38	126.21
Tractor(250-349hp)CB	MFWD 300	247,000	600	8	15.44	11.60	54.04	7.71	73.36	49.38	122.74
Tractor(250-349hp)CB	Track 300	260,000	600	8	15.44	11.60	54.04	8.12	73.77	51.98	125.75
Tractor(350-449hp)CB	4WD 400	300,000	600	8	20.58	11.60	72.06	9.37	93.03	59.98	153.01
Tractor(350-449hp)CB	Track 400	345,000	600	8	20.58	11.60	72.06	10.78	94.44	68.97	163.42
Tractor(450-550hp)CB	4WD 500	343,000	600	8	25.73	11.60	90.07	10.71	112.39	68.57	180.97
Tractor(450-550hp)CB	Track 500	376,000	600	8	25.73	11.60	90.07	11.75	113.42	75.17	188.60
Utility Vehicle	800 CC	7,400	200	8	0.70	11.60	2.38	1.15	15.13	4.63	19.76
Utility Vehicle-mule	600 CC	7,100	200	8	0.50	11.60	1.70	1.10	14.40	4.44	18.85

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2013

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Backhoe	2WD Cab	73,000	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker	4R-30(350)	350,000	200	8	18.01	0.327	6.76	20.64	17.90	45.30	71.70	117.01
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.32	11.84	10.75	27.92	43.06	70.99
Cotton Picker	4R-38(350)	382,000	200	8	18.01	0.257	5.32	16.25	15.38	36.96	61.62	98.58
Cotton Picker	4R2x1(350)	388,000	200	8	18.01	0.172	3.55	10.86	10.44	24.87	41.83	66.70
Cotton Picker	6R-30(355)	441,000	200	8	18.27	0.218	4.50	13.95	15.03	33.50	60.22	93.73
Cotton Picker	6R-38(355)	441,000	200	8	18.27	0.172	3.55	11.02	11.87	26.45	47.55	74.00
Cotton Picker/Module	4R-38(365)	515,000	200	8	18.78	0.257	5.32	16.95	20.74	43.01	83.07	126.09
Cotton Picker/Module	6R-30(365)	572,000	200	8	18.78	0.218	4.50	14.35	19.50	38.36	78.11	116.48
Cotton Picker/Module	6R-30(500)	609,000	200	8	25.73	0.218	4.50	19.65	20.76	44.93	83.17	128.10
Cotton Picker/Module	6R-38(365)	571,000	200	8	18.78	0.172	3.55	11.33	15.37	30.26	61.56	91.83
Cotton Picker/Module	6R-38(500)	610,000	200	8	25.73	0.172	3.55	15.52	16.42	35.50	65.77	101.27
Dry Applicator SP	70'300cuft	281,000	350	8	16.98	0.015	0.24	0.89	0.22	1.36	1.51	2.88
Sprayer 110Gal	30' 50hp	43,300	350	8	2.41	0.035	0.56	0.29	0.08	0.94	0.54	1.49
Sprayer 300-450gal	60' 125hp	103,000	350	8	5.66	0.017	0.28	0.34	0.09	0.73	0.64	1.38
Sprayer 300-450gal	80' 125hp	103,000	350	8	6.43	0.013	0.21	0.29	0.07	0.58	0.48	1.07
Sprayer 600-750gal	60' 175hp	161,000	350	8	9.00	0.017	0.28	0.55	0.15	0.99	1.01	2.00
Sprayer 600-825gal	80' 175hp	161,000	350	8	11.81	0.013	0.21	0.54	0.11	0.87	0.76	1.63
Sprayer 600-825gal	90' 250hp	237,000	350	8	12.73	0.011	0.18	0.52	0.14	0.86	0.99	1.85
Sprayer 800gal	100' 250hp	232,000	350	8	14.15	0.010	0.17	0.52	0.13	0.82	0.87	1.70
Sprayer 800gal	80' 250hp	233,000	350	8	12.86	0.013	0.21	0.59	0.16	0.97	1.10	2.07
Sprayer 1000-1400gal	90' 275hp	272,000	350	8	14.15	0.010	0.17	0.52	0.15	0.84	1.02	1.87
Sprayer 1000gal	100' 300hp	274,000	350	8	15.44	0.010	0.17	0.57	0.15	0.89	1.03	1.93
Sprayer 1200+gal	120' 300hp	286,000	350	8	15.44	0.008	0.14	0.47	0.13	0.75	0.90	1.65
Utility Vehicle	20'	7,400	200	8	0.70	0.052	0.85	0.12	0.06	1.03	0.24	1.28
Utility Vehicle	75"ropewic	7,100	200	8	0.50	0.170	2.75	0.29	0.18	3.23	0.75	3.98

Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Bed-Disk (Hipper)	4R-38	MFWD 150	7,700	160	10	0.147	1.71	3.98	0.28	0.61	6.60	0.76	3.75	11.12
Bed-Disk (Hipper)	6R-30	MFWD 170	10,700	160	10	0.125	1.45	3.82	0.33	0.56	6.17	0.89	3.59	10.67
Bed-Disk (Hipper)	6R-38	MFWD 170	12,600	160	10	0.098	1.14	3.02	0.31	0.44	4.92	0.83	2.84	8.59
Bed-Disk (Hipper)	8R-30	MFWD 190	14,800	160	10	0.093	1.08	3.20	0.34	0.45	5.09	0.93	2.88	8.91
Bed-Disk (Hipper)	8R-38 2x1	MFWD 190	27,700	160	10	0.049	0.57	1.68	0.34	0.23	2.84	0.91	1.51	5.27
Bed-Disk (Hipper)	10R-30	MFWD 225	22,900	160	10	0.075	0.87	3.04	0.42	0.48	4.82	1.15	3.11	9.10
Bed-Disk (Hipper)	10R-38	MFWD 225	23,700	160	10	0.059	0.68	2.39	0.35	0.38	3.81	0.94	2.45	7.22
Bed-Disk (Hipper)	12R-30	MFWD 225	27,900	160	10	0.062	0.72	2.53	0.43	0.40	4.10	1.17	2.59	7.87
Bed-Disk (Hipper)	12R-38	MFWD 225	27,700	160	10	0.049	0.57	1.99	0.34	0.32	3.23	0.91	2.05	6.20
Bed-Disk (Hipper)Fl	8R-38	MFWD 190	20,400	160	10	0.074	0.85	2.53	0.37	0.35	4.13	1.01	2.28	7.42
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	15,100	160	10	0.074	0.85	2.53	0.27	0.35	4.03	0.75	2.28	7.06
Bed-Disk w/roller	8R-30	MFWD 190	21,000	160	10	0.093	1.08	3.20	0.49	0.45	5.23	1.32	2.88	9.44
Bed-Disk w/roller	12R-30	MFWD 225	35,800	160	10	0.062	0.72	2.53	0.55	0.40	4.22	1.50	2.59	8.32
Bed-Disk w/roller	8R-38	MFWD 190	24,100	160	10	0.074	0.85	2.53	0.44	0.35	4.19	1.20	2.28	7.68
Bed-Middle Buster	4R-38	MFWD 150	10,800	160	8	0.228	2.64	6.17	0.57	0.94	10.34	1.84	5.81	18.00
Bed-Middle Buster	6R-38	MFWD 150	12,800	160	8	0.120	1.39	3.24	0.36	0.49	5.50	1.15	3.05	9.71
Bed-Middle Buster	8R-30	MFWD 190	20,781	160	8	0.114	1.32	3.90	0.55	0.54	6.33	1.77	3.51	11.63
Bed-Middle Buster	8R-38	MFWD 190	18,100	160	8	0.090	1.04	3.08	0.38	0.43	4.95	1.22	2.77	8.95
Bed-Middle Buster	8R-38 2x1	MFWD 190	29,200	160	8	0.060	0.69	2.05	0.41	0.28	3.45	1.31	1.85	6.62
Bed-Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.05	3.70	0.62	0.59	5.98	2.00	3.79	11.78
Bed-Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.83	2.92	0.54	0.46	4.76	1.73	2.99	9.49
Bed-Middle Buster	12R-38	MFWD 225	29,200	160	8	0.060	0.69	2.43	0.41	0.39	3.93	1.31	2.49	7.75
Bed-Paratill Fold	8R-38	MFWD 225	54,400	150	12	0.080	0.93	3.27	1.58	0.52	6.32	2.80	3.35	12.48
Bed-Paratill Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.62	2.17	1.34	0.34	4.49	2.37	2.23	9.10
Bed-Paratill Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.62	2.17	1.34	0.34	4.49	2.37	2.23	9.10
Bed-Paratill Rigid	4R-30	MFWD 225	14,800	150	12	0.204	2.37	8.28	1.09	1.32	13.07	1.93	8.49	23.50
Bed-Paratill Rigid	4R-38	MFWD 225	13,900	150	12	0.160	1.86	6.52	0.80	1.04	10.24	1.42	6.69	18.36
Bed-Paratill Rigid	6R-30	MFWD 225	20,100	150	12	0.136	1.58	5.52	0.98	0.88	8.97	1.74	5.66	16.39
Bed-Paratill Rigid	6R-38	MFWD 225	18,800	150	12	0.107	1.24	4.35	0.73	0.69	7.03	1.29	4.47	12.79
Bed-Paratill Rigid	8R-30	MFWD 225	28,100	150	12	0.102	1.18	4.14	1.03	0.66	7.02	1.83	4.24	13.11
Bed-Paratill Rigid	8R-38	MFWD 225	26,900	150	12	0.080	0.93	3.27	0.78	0.52	5.51	1.38	3.35	10.26
Bed-Paratill w/rol	4R-30	MFWD 225	14,100	150	12	0.204	2.37	8.28	1.04	1.32	13.02	1.84	8.49	23.35
Bed-Paratill w/rol	4R-38	MFWD 225	14,100	150	12	0.160	1.86	6.52	0.81	1.04	10.25	1.44	6.69	18.39
Bed-Paratill w/rol	6R-38	MFWD 225	18,600	150	12	0.107	1.24	4.35	0.72	0.69	7.02	1.27	4.47	12.77
Bed-Rip/Disk Fold.	8R-38	MFWD 190	32,200	300	20	0.073	0.84	2.50	0.11	0.35	3.81	0.57	2.24	6.64
Bed-Rip/Disk Fold.	12R-30	MFWD 225	48,200	300	20	0.061	0.71	2.49	0.14	0.40	3.76	0.72	2.56	7.04
Bed-Rip/Disk Fold.	12R-38	MFWD 225	48,100	300	20	0.046	0.53	1.87	0.11	0.30	2.82	0.54	1.92	5.28
Bed-Rip/Disk Rigid	4R-30	MFWD 190	13,700	300	20	0.184	2.14	6.32	0.12	0.88	9.48	0.61	5.69	15.79
Bed-Rip/Disk Rigid	4R-38	MFWD 190	13,700	300	20	0.146	1.70	5.02	0.10	0.70	7.53	0.48	4.51	12.53
Bed-Rip/Disk Rigid	6R-38	MFWD 190	21,400	300	20	0.097	1.12	3.33	0.10	0.46	5.03	0.50	2.99	8.53
Bed-Rip/Disk Rigid	8R-30	MFWD 190	26,900	300	20	0.139	1.61	4.75	0.18	0.66	7.22	0.91	4.27	12.41
Bed-Rip/Disk Rigid	8R-38	MFWD 190	26,900	300	20	0.073	0.84	2.50	0.09	0.35	3.79	0.47	2.24	6.52
Bed-Rip/Disk Rigid	6R-30	MFWD 190	21,400	300	20	0.123	1.42	4.21	0.13	0.59	6.37	0.64	3.79	10.81
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	19,300	150	12	0.107	1.24	4.35	0.74	0.69	7.05	1.32	4.47	12.85
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	23,000	150	12	0.080	0.93	3.27	0.67	0.52	5.40	1.18	3.35	9.95
Bed-Roll-Fold.	8R-38	MFWD 190	24,700	160	10	0.074	0.85	2.53	0.45	0.35	4.21	1.22	2.28	7.72
Bed-Roll-Fold.	12R-30	MFWD 225	26,500	160	10	0.062	0.72	2.53	0.41	0.40	4.07	1.11	2.59	7.79
Bed-Roll-Fold.	12R-38	MFWD 225	29,700	160	10	0.049	0.57	1.99	0.36	0.32	3.25	0.98	2.05	6.29
Bed-Roll-Fold.	16R-30	MFWD 225	30,900	160	10	0.046	0.54	1.90	0.36	0.30	3.11	0.97	1.94	6.03
Bed-Roll-Rigid	8R-38	MFWD 190	18,400	160	10	0.074	0.85	2.53	0.34	0.35	4.09	0.91	2.28	7.29
Blade-Box	6'-7'	2WD 130	1,030	200	20	0.020	0.23	0.46	0.00	0.05	0.76	0.00	0.31	1.08
Blade-Box	8'-10'	2WD 50	4,880	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	2WD 50	6,970	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	2WD 50	1,090	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	2WD 50	3,030	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	2WD 50	6,220	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-30(325)	MFWD 190	26,200	200	10	0.327	3.79	11.20	2.14	1.57	18.72	4.44	10.08	33.24
Boll Buggy	4R-38(255)	MFWD 190	26,200	200	10	0.257	2.99	8.82	1.68	1.24	14.74	3.49	7.93	26.17
Boll Buggy	4R-38(325)	MFWD 190	26,200	200	10	0.257	2.99	8.82	1.68	1.24	14.74	3.49	7.93	26.17
Boll Buggy	4R2x1(350)	MFWD 190	26,200	200	10	0.172	1.99	5.89	1.12	0.82	9.85	2.33	5.30	17.49
Boll Buggy	6R-30(325)	MFWD 190	26,200	200	10	0.218	2.53	7.47	1.42	1.05	12.48	2.96	6.72	22.16
Boll Buggy	6R-38(330)	MFWD 190	26,200	200	10	0.172	1.99	5.89	1.12	0.82	9.85	2.33	5.30	17.49
Boll Buggy-Stripper	13' Bcast	MFWD 150	26,200	200	10	0.251	2.92	6.80	1.64	1.04	12.42	3.41	6.40	22.24
Boll Buggy-Stripper	16' Bcast	MFWD 150	26,200	200	10	0.204	2.37	5.52	1.34	0.85	10.09	2.77	5.20	18.07
Boll Buggy-Stripper	19' Bcast	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	26,200	200	10	0.218	2.53	5.89	1.42	0.90	10.76	2.96	5.55	19.28
Boll Buggy-Stripper	4R-36	MFWD 150	26,200	200	10	0.272	3.16	7.37	1.78	1.13	13.45	3.70	6.94	24.10
Boll Buggy-Stripper	4R-38	MFWD 150	26,200	200	10	0.257	2.99	6.96	1.68	1.07	12.71	3.49	6.55	22.77
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	5R-30	MFWD 150	26,200	200	10	0.261	3.03	7.07	1.71	1.08	12.91	3.55	6.66	23.13
Boll Buggy-Stripper	5R-38	MFWD 150	26,200	200	10	0.207	2.40	5.59	1.35	0.86	10.22	2.81	5.27	18.30
Boll Buggy-Stripper	6R-30	MFWD 150	26,200	200	10	0.218	2.53	5.89	1.42	0.90	10.76	2.96	5.55	19.28
Boll Buggy-Stripper	6R-38	MFWD 150	26,200	200	10	0.172	1.99	4.65	1.12	0.71	8.49	2.33	4.38	15.22
Boll Buggy-Stripper	8R-30	MFWD 150	26,200	200	10	0.163	1.89	4.42	1.07	0.68	8.07	2.22	4.16	14.46
Boll Buggy-Stripper	8R-36/38	MFWD 150	26,200	200	10	0.129	1.50	3.49	0.84	0.53	6.38	1.75	3.29	11.43
Chisel Plow-Folding	16'	2WD 130	21,300	150	12	0.115	1.34	2.70	0.88	0.29	5.23	1.57	1.81	8.62
Chisel Plow-Folding	24'	MFWD 190	33,200	150	12	0.076	0.88	2.61	0.91	0.36	4.78	1.62	2.35	8.76
Chisel Plow-Folding	32'	MFWD 225	37,000	150	12	0.057	0.67	2.34	0.77	0.37	4.15	1.36	2.40	7.92

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Chisel Plow-Folding	42'	MFWD 225	43,700	150	12	0.044	0.51	1.78	0.69	0.28	3.27	1.22	1.83	6.33
Chisel Plow-Folding	50'	MFWD 225	67,000	150	10	0.036	0.42	1.49	1.07	0.24	3.24	1.77	1.53	6.55
Chisel Plow-Folding	61'	MFWD 225	71,300	150	12	0.030	0.35	1.22	0.78	0.19	2.55	1.38	1.26	5.19
Chisel Plow-Rigid	10'	MFWD 170	7,300	150	12	0.184	2.14	5.66	0.48	0.83	9.12	0.86	5.32	15.31
Chisel Plow-Rigid	15'	2WD 130	8,600	150	12	0.123	1.42	2.88	0.38	0.31	5.01	0.67	1.94	7.63
Chisel Plow-Rigid	20'	MFWD 225	9,600	150	12	0.102	1.19	4.16	0.35	0.66	6.37	0.63	4.27	11.27
Chisel Plow-Rigid	24'	MFWD 190	10,000	150	12	0.077	0.89	2.63	0.27	0.37	4.17	0.49	2.37	7.04
Chisel-Harrow	21 shank	2WD 190	12,100	150	12	0.088	1.02	3.01	0.38	0.30	4.72	0.68	1.93	7.33
Chisel-Harrow	27 shank	MFWD 225	13,600	150	12	0.068	0.79	2.77	0.33	0.44	4.35	0.59	2.84	7.79
Coulter-Chisel-Harro	21 shank	2WD 190	18,800	150	12	0.088	1.02	3.01	0.59	0.30	4.93	1.05	1.93	7.92
Coulter-Chisel-Harro	27 shank	MFWD 225	23,500	150	12	0.068	0.79	2.77	0.58	0.44	4.59	1.02	2.84	8.47
Cult & PD Ridge Till	8R-30	2WD 150	30,000	200	12	0.110	1.77	2.97	1.58	0.45	6.77	1.63	2.75	11.16
Cult & PD Ridge Till	12R-30	2WD 190	43,100	200	12	0.073	1.18	2.51	1.51	0.25	5.45	1.56	1.61	8.63
Cultivate	4R-30	2WD 105	10,800	150	10	0.206	2.39	3.90	0.59	0.37	7.25	1.59	2.27	11.13
Cultivate	4R-38	2WD 105	10,600	150	10	0.162	1.88	3.07	0.45	0.23	5.64	1.23	1.42	8.30
Cultivate	6R-30	MFWD 150	16,000	150	10	0.137	1.59	3.71	0.58	0.57	6.46	1.57	3.49	11.54
Cultivate	6R-38	MFWD 150	16,000	150	10	0.108	1.25	2.93	0.46	0.45	5.10	1.24	2.76	9.11
Cultivate	8R-30	MFWD 190	19,700	150	10	0.103	1.19	3.53	0.54	0.49	5.76	1.45	3.17	10.39
Cultivate	8R-38	MFWD 190	21,200	150	10	0.073	0.85	2.52	0.41	0.35	4.14	1.11	2.26	7.53
Cultivate	8R-38 2x1	MFWD 190	30,600	150	10	0.054	0.62	1.85	0.44	0.26	3.19	1.19	1.67	6.05
Cultivate	10R-30	MFWD 225	26,900	150	10	0.082	0.95	3.34	0.59	0.53	5.42	1.59	3.43	10.45
Cultivate	12R-30	MFWD 225	35,800	150	10	0.068	0.79	2.78	0.65	0.44	4.68	1.76	2.85	9.31
Cultivate	12R-38	MFWD 225	35,500	150	10	0.054	0.62	2.20	0.51	0.35	3.69	1.38	2.25	7.33
Cultivate	16R-30	MFWD 225	42,600	150	10	0.051	0.59	2.08	0.58	0.33	3.60	1.57	2.14	7.32
Cultivate & Post	4R-30	2WD 105	16,100	150	10	0.220	3.54	4.16	0.94	0.31	8.96	2.53	1.92	13.43
Cultivate & Post	4R-38	2WD 105	15,900	150	10	0.173	2.79	3.27	0.73	0.24	7.05	1.97	1.51	10.54
Cultivate & Post	6R-30	MFWD 150	21,300	150	10	0.146	2.36	3.96	0.83	0.60	7.77	2.23	3.73	13.74
Cultivate & Post	6R-38	MFWD 150	21,400	150	10	0.115	1.86	3.12	0.66	0.48	6.13	1.77	2.94	10.86
Cultivate & Post	8R-30	MFWD 190	25,000	150	10	0.110	1.77	3.76	0.73	0.52	6.80	1.97	3.38	12.16
Cultivate & Post	8R-38	MFWD 190	26,500	150	10	0.086	1.40	2.97	0.61	0.41	5.41	1.65	2.67	9.74
Cultivate & Post	8R-38 2x1	MFWD 190	37,500	150	10	0.057	0.93	1.98	0.57	0.27	3.77	1.55	1.78	7.11
Cultivate & Post	10R-30	MFWD 225	32,200	150	10	0.088	1.41	3.56	0.75	0.57	6.31	2.03	3.65	12.00
Cultivate & Post	12R-30	MFWD 225	41,100	150	10	0.073	1.18	2.97	0.80	0.47	5.43	2.16	3.04	10.64
Cultivate & Post	12R-38	MFWD 225	42,500	150	10	0.057	0.93	2.34	0.65	0.37	4.31	1.76	2.40	8.48
Cultivate & Post	16R-30	MFWD 225	49,400	150	10	0.055	0.88	2.22	0.72	0.35	4.19	1.94	2.28	8.43
Cultivate Ridge Till	8R-30	2WD 170	24,700	200	12	0.103	1.19	3.15	1.22	0.38	5.95	1.26	2.45	9.67
Cultivate Ridge Till	12R-30	2WD 190	37,700	200	12	0.068	0.79	2.35	1.24	0.23	4.62	1.28	1.51	7.42
Disk & Incorporate	14'	2WD 130	27,300	200	10	0.149	2.41	3.50	1.22	0.38	7.52	2.19	2.35	12.08
Disk & Incorporate	20'	MFWD 190	39,800	180	10	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disk & Incorporate	24'	MFWD 190	40,200	200	10	0.087	1.40	2.98	1.05	0.42	5.86	1.88	2.68	10.44
Disk & Incorporate	28'	MFWD 225	46,700	200	10	0.074	1.20	3.03	1.04	0.48	5.77	1.87	3.11	10.76
Disk & Incorporate	32'	MFWD 225	54,400	200	10	0.065	1.05	2.65	1.06	0.42	5.20	1.91	2.72	9.84
Disk Harrow	14'	2WD 130	21,900	180	10	0.140	1.62	3.28	0.85	0.36	6.12	1.83	2.20	10.17
Disk Harrow	20'	MFWD 190	34,500	180	10	0.098	1.13	3.36	0.94	0.47	5.91	2.02	3.02	10.96
Disk Harrow	24'	MFWD 190	34,900	180	10	0.081	0.94	2.80	0.79	0.39	4.93	1.70	2.52	9.16
Disk Harrow	28'	MFWD 225	41,400	180	10	0.070	0.81	2.84	0.80	0.45	4.91	1.73	2.91	9.57
Disk Harrow	32'	MFWD 225	47,400	180	10	0.061	0.71	2.48	0.80	0.39	4.40	1.73	2.55	8.69
Disk Harrow	42'	MFWD 225	88,900	180	10	0.046	0.54	1.89	1.15	0.30	3.89	2.48	1.94	8.32
Disk Harrow 40-100hp	14'	2WD 75	15,300	180	10	0.140	1.62	1.89	0.59	0.14	4.26	1.28	0.90	6.45
Disk Heavy	14'	MFWD 150	21,900	180	10	0.145	1.69	3.94	0.88	0.60	7.13	1.90	3.71	12.75
Disk Heavy	20'	MFWD 170	34,500	180	10	0.097	1.12	2.97	0.93	0.43	5.47	2.00	2.80	10.28
Disk Heavy	28'	MFWD 190	41,400	180	10	0.075	0.87	2.59	0.87	0.36	4.70	1.87	2.33	8.90
Disk Ripper	15'	MFWD 225	37,500	180	10	0.136	1.58	5.52	1.41	0.88	9.40	3.05	5.66	18.12
Ditcher		2WD 130	4,630	200	10	0.020	0.23	0.46	0.03	0.05	0.78	0.04	0.31	1.15
Ditcher (1m/160a)		2WD 130	4,630	200	10	0.009	0.10	0.21	0.01	0.02	0.36	0.02	0.14	0.54
Fert Appl (Liquid)	4R-38	MFWD 150	12,800	150	8	0.154	2.49	4.17	1.31	0.64	8.63	1.51	3.93	14.08
Fert Appl (Liquid)	6R-30	MFWD 170	15,700	150	8	0.130	2.11	4.01	1.37	0.58	8.08	1.57	3.77	13.42
Fert Appl (Liquid)	6R-38	MFWD 170	13,800	150	8	0.103	1.66	3.16	0.95	0.46	6.24	1.09	2.97	10.31
Fert Appl (Liquid)	8R-30	MFWD 190	13,700	150	8	0.098	1.58	3.36	0.89	0.47	6.31	1.02	3.02	10.36
Fert Appl (Liquid)	8R-38	MFWD 190	16,600	150	8	0.077	1.25	2.65	0.85	0.37	5.14	0.98	2.39	8.51
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	17,000	150	8	0.051	0.83	1.76	0.58	0.24	3.43	0.67	1.59	5.70
Fert Appl (Liquid)	10R-30	MFWD 225	17,100	150	8	0.078	1.26	3.18	0.89	0.51	5.85	1.02	3.26	10.15
Fert Appl (Liquid)	10R-38	MFWD 225	19,600	150	8	0.061	0.99	2.51	0.80	0.40	4.72	0.92	2.57	8.22
Fert Appl (Liquid)	12R-30	MFWD 225	17,500	150	8	0.078	1.26	3.18	0.91	0.51	5.87	1.05	3.26	10.19
Fert Appl (Liquid)	12R-38	MFWD 225	17,000	150	8	0.051	0.83	2.09	0.58	0.33	3.85	0.67	2.14	6.67
Field Cult & Inc	42'	MFWD 225	56,100	100	10	0.037	0.60	1.53	0.52	0.24	2.91	2.27	1.57	6.76
Field Cult & Inc	50'	MFWD 225	69,000	100	10	0.031	0.51	1.28	0.54	0.20	2.55	2.35	1.31	6.22
Field Cult & Inc Fld	24'	MFWD 170	30,100	100	10	0.066	1.06	2.02	0.49	0.29	3.88	2.13	1.90	7.92
Field Cult & Inc Fld	32'	MFWD 190	37,200	100	10	0.049	0.79	1.69	0.46	0.23	3.19	1.98	1.52	6.70
Field Cult & Inc Rdg	12'	2WD 150	15,200	100	10	0.132	2.13	3.57	0.50	0.54	6.74	2.16	3.31	12.22
Field Cultivate Fld	24'	MFWD 170	24,700	100	10	0.062	0.72	1.90	0.38	0.27	3.29	1.65	1.79	6.73
Field Cultivate Fld	32'	MFWD 190	31,900	100	10	0.046	0.54	1.59	0.37	0.22	2.73	1.60	1.43	5.77
Field Cultivate Fld	42'	MFWD 225	49,100	100	10	0.035	0.41	1.44	0.43	0.23	2.52	1.87	1.47	5.87
Field Cultivate Fld	50'	MFWD 225	60,100	100	10	0.029	0.34	1.21	0.44	0.19	2.19	1.92	1.24	5.37
Field Cultivate Rdg	12'	2WD 150	9,890	100	10	0.124	1.44	3.36	0.30	0.50	5.62	1.32	3.11	10.06
Grain Cart Corn	500 bu	MFWD 190	25,100	200	12	0.031	0.37	1.09	0.21	0.15	1.83	0.38	0.98	3.20
Grain Cart Corn	700 bu	MFWD 190	29,900	200	12	0.025	0.29	0.85	0.20	0.12	1.46	0.35	0.76	2.59
Grain Cart Corn	1000 bu	MFWD 225	43,800	200	12	0.025	0.29	1.01	0.29	0.16	1.76	0.52	1.03	3.32
Grain Cart Rice	500 bu	MFWD 190	25,100	200	12	0.062	0.72	2.13	0.42	0.30	3.58	0.75	1.92	6.26

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Grain Cart Rice	700 bu	MFWD 190	29,900	200	12	0.055	0.63	1.88	0.44	0.26	3.23	0.78	1.69	5.71
Grain Cart Rice	1000 bu	MFWD 190	43,800	200	12	0.045	0.53	1.56	0.54	0.22	2.86	0.96	1.41	5.23
Grain Cart Soybean	500 bu	MFWD 190	25,100	200	12	0.025	0.29	0.87	0.17	0.12	1.46	0.30	0.78	2.55
Grain Cart Soybean	700 bu	MFWD 190	29,900	200	12	0.021	0.24	0.72	0.17	0.10	1.24	0.30	0.65	2.20
Grain Cart Soybean	1000 bu	MFWD 190	43,800	200	12	0.021	0.24	0.72	0.25	0.10	1.32	0.44	0.65	2.42
Grain Cart Wht/Sor	500 bu	MFWD 190	25,100	200	12	0.025	0.29	0.87	0.17	0.12	1.46	0.30	0.78	2.55
Grain Cart Wht/Sor	700 bu	MFWD 190	29,900	200	12	0.021	0.24	0.72	0.17	0.10	1.24	0.30	0.65	2.20
Grain Cart Wht/Sor	1000 bu	MFWD 190	43,800	200	12	0.021	0.24	0.72	0.25	0.10	1.32	0.44	0.65	2.42
Grain Drill	8'	2WD 130	19,000	150	8	0.235	4.86	5.52	1.67	0.60	12.67	3.27	3.71	19.65
Grain Drill	10'	2WD 130	22,700	150	8	0.188	3.89	4.41	1.60	0.48	10.40	3.12	2.96	16.49
Grain Drill	12'	2WD 130	22,400	150	8	0.157	3.24	3.68	1.31	0.40	8.65	2.57	2.47	13.69
Grain Drill	15'	MFWD 150	28,000	150	8	0.125	2.59	3.39	1.31	0.52	7.83	2.57	3.19	13.60
Grain Drill	20'	MFWD 170	36,700	150	8	0.094	1.94	2.88	1.29	0.42	6.55	2.52	2.71	11.80
Grain Drill	24'	MFWD 190	58,100	150	8	0.078	1.62	2.68	1.71	0.37	6.40	3.33	2.41	12.15
Grain Drill	30'	MFWD 225	61,300	150	8	0.062	1.29	2.54	1.44	0.40	5.70	2.81	2.61	11.12
Grain Drill	35'	MFWD 225	78,200	150	8	0.053	1.11	2.18	1.58	0.35	5.22	3.07	2.24	10.54
Grain Drill & Pre	8'	2WD 130	24,300	150	8	0.253	5.24	5.94	2.31	0.65	14.15	4.50	3.99	22.65
Grain Drill & Pre	10'	2WD 130	28,100	150	8	0.203	4.19	4.75	2.13	0.52	11.61	4.16	3.19	18.98
Grain Drill & Pre	12'	2WD 130	27,700	150	8	0.169	3.49	3.96	1.75	0.43	9.65	3.42	2.66	15.74
Grain Drill & Pre	15'	MFWD 150	33,300	150	8	0.135	2.79	3.65	1.69	0.56	8.70	3.29	3.44	15.44
Grain Drill & Pre	20'	MFWD 170	42,100	150	8	0.101	2.09	3.10	1.60	0.45	7.26	3.12	2.92	13.31
Grain Drill & Pre	24'	MFWD 190	63,500	150	8	0.084	1.74	2.89	2.01	0.40	7.06	3.92	2.60	13.59
Grain Drill & Pre	30'	MFWD 225	66,700	150	8	0.067	1.39	2.74	1.69	0.43	6.27	3.29	2.81	12.38
Grain Drill & Pre	35'	MFWD 225	83,500	150	8	0.058	1.19	2.35	1.81	0.37	5.74	3.53	2.41	11.69
Grain Drill & Pre T	8R-38	MFWD 225	45,700	150	8	0.062	1.29	2.54	1.07	0.40	5.33	2.09	2.61	10.04
Harrow - Rigid	21'	2WD 150	4,640	200	10	0.073	0.85	1.99	0.12	0.30	3.27	0.18	1.85	5.31
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.12	3.32	0.16	0.46	5.08	0.26	2.98	8.33
Harrow - Folding	24'	MFWD 190	11,900	200	10	0.064	0.75	2.21	0.26	0.31	3.54	0.41	1.99	5.95
Harrow - Folding	30'	MFWD 190	12,900	200	10	0.051	0.60	1.77	0.23	0.24	2.85	0.35	1.59	4.80
Harrow - Folding	40'	MFWD 190	16,200	200	10	0.038	0.45	1.32	0.22	0.18	2.18	0.33	1.19	3.71
Harrow - Folding	48'	MFWD 225	20,000	200	10	0.032	0.37	1.31	0.22	0.21	2.12	0.34	1.34	3.81
Harrow - Rigid	13'	2WD 130	3,430	200	10	0.119	1.38	2.79	0.14	0.30	4.63	0.22	1.88	6.73
Header - Corn	6R-30	265 hp	40,700	300	8	0.170	1.97	8.12	1.73	4.59	16.43	2.65	18.39	37.48
Header - Corn	6R-38	265 hp	41,800	300	8	0.134	1.55	6.41	1.40	3.62	13.00	2.14	14.52	29.68
Header - Corn	8R-30	265 hp	52,600	300	8	0.127	1.48	6.09	1.67	3.44	12.70	2.56	13.79	29.07
Header - Corn	8R-38	325 hp	54,100	300	8	0.100	1.17	5.91	1.36	3.13	11.58	2.08	12.55	26.22
Header - Corn	12R-20	325 hp	73,800	300	8	0.127	1.48	7.47	2.35	3.96	15.28	3.60	15.87	34.76
Header - Corn	12R-30	325 hp	82,200	300	8	0.085	0.98	4.98	1.74	2.64	10.36	2.67	10.58	23.62
Header - Draper (CL)	25' Rigid	265 hp	50,100	300	8	0.203	2.35	9.69	2.33	5.47	19.86	3.71	21.94	45.52
Header - Draper (CL)	30' Rigid	325 hp	55,500	300	8	0.169	1.96	9.90	2.15	5.25	19.27	3.43	21.03	43.74
Header - Draper (CL)	36' Rigid	355 hp	59,400	300	8	0.141	1.63	9.01	1.91	4.64	17.21	3.06	18.59	38.86
Header - Draper (SL)	25' Rigid	325 hp	50,100	300	8	0.176	2.04	10.30	2.02	5.46	19.83	3.22	21.87	44.93
Header - Draper (SL)	30' Rigid	325 hp	55,500	300	8	0.146	1.70	8.58	1.86	4.55	16.70	2.97	18.23	37.91
Header - Draper (SL)	36' Rigid	355 hp	59,400	300	8	0.122	1.41	7.81	1.66	4.02	14.91	2.65	16.11	33.68
Header - Rice (CL)	25' Rigid	325 hp	51,600	300	8	0.253	2.94	14.86	3.27	7.87	28.96	5.01	31.55	65.53
Header - Rice (CL)	30' Rigid	325 hp	59,000	300	8	0.211	2.45	12.38	3.12	6.56	24.52	4.77	26.29	55.60
Header - Rice (SL)	25' Rigid	325 hp	51,600	300	8	0.220	2.55	12.88	2.83	6.82	25.10	4.34	27.34	56.79
Header - Rice (SL)	30' Rigid	325 hp	59,000	300	8	0.183	2.12	10.73	2.70	5.69	21.25	4.13	22.79	48.18
Header -RiceStrp(CL)	20'	265 hp	44,000	300	8	0.253	2.94	12.11	2.79	6.84	24.70	4.27	27.42	56.40
Header -RiceStrp(CL)	24'	325 hp	48,300	300	8	0.211	2.45	12.38	2.55	6.56	23.96	3.90	26.29	54.16
Header -RiceStrp(CL)	32'	325 hp	53,300	300	8	0.158	1.84	9.28	2.11	4.92	18.16	3.23	19.72	41.12
Header -RiceStrp(SL)	20'	265 hp	44,000	300	8	0.220	2.55	10.50	2.42	5.93	21.41	3.70	23.77	48.88
Header -RiceStrp(SL)	24'	325 hp	48,300	300	8	0.183	2.12	10.73	2.21	5.69	20.76	3.38	22.79	46.94
Header -RiceStrp(SL)	32'	325 hp	53,300	300	8	0.137	1.59	8.05	1.83	4.26	15.74	2.80	17.09	35.64
Header -Soybean	22' Flex	265 hp	27,700	300	8	0.116	1.34	5.54	0.80	3.13	10.82	1.23	12.54	24.60
Header -Soybean	25' Flex	325 hp	29,800	300	8	0.102	1.18	5.98	0.76	3.17	11.10	1.16	12.70	24.96
Header -Soybean	30' Flex	325 hp	26,700	300	8	0.085	0.98	4.98	0.56	2.64	9.18	0.86	10.58	20.63
Header -Soybean	35' Flex	355 hp	39,500	300	8	0.072	0.84	4.66	0.72	2.40	8.63	1.10	9.62	19.35
Header Wheat/Sorghum	22' Rigid	265 hp	21,900	300	8	0.116	1.34	5.54	0.63	3.13	10.65	0.97	12.54	24.17
Header Wheat/Sorghum	25' Rigid	325 hp	25,600	300	8	0.102	1.18	5.98	0.65	3.17	10.99	1.00	12.70	24.69
Header Wheat/Sorghum	30' Rigid	325 hp	28,500	300	8	0.085	0.98	4.98	0.60	2.64	9.22	0.92	10.58	20.73
Header-Cotton Bcast	13'	173 hp	19,400	200	8	0.251	5.20	7.12	0.91	6.68	19.92	2.80	26.78	49.52
Header-Cotton-Bcast	16'	173 hp	21,600	200	8	0.204	4.22	5.78	0.82	5.43	16.27	2.53	21.76	40.57
Header-Cotton-Bcast	19'	173 hp	23,900	200	8	0.172	3.55	4.87	0.77	4.57	13.78	2.36	18.33	34.47
Header-Cotton-Brush	4R-30 2x1	173 hp	32,500	200	8	0.218	4.50	6.17	1.32	5.79	17.80	4.07	23.21	45.09
Header-Cotton-Brush	4R-36	173 hp	32,200	200	8	0.272	5.63	7.71	1.64	7.24	22.24	5.04	29.02	56.30
Header-Cotton-Brush	4R-38	173 hp	32,100	200	8	0.257	5.32	7.29	1.55	6.84	21.01	4.74	27.42	53.18
Header-Cotton-Brush	4R-38 2x1	173 hp	34,000	200	8	0.172	3.55	4.87	1.09	4.57	14.10	3.36	18.33	35.80
Header-Cotton-Brush	5R-30	173 hp	40,400	200	8	0.261	5.41	7.40	1.98	6.95	21.75	6.07	27.86	55.69
Header-Cotton-Brush	5R-38	173 hp	41,900	200	8	0.207	4.28	5.85	1.62	5.50	17.27	4.98	22.04	44.29
Header-Cotton-Brush	6R-30	173 hp	49,800	200	8	0.218	4.50	6.17	2.03	5.79	18.51	6.23	23.21	47.97
Header-Cotton-Brush	6R-38	173 hp	51,300	200	8	0.172	3.55	4.87	1.65	4.57	14.66	5.07	18.33	38.07
Header-Cotton-Brush	8R-30	173 hp	68,700	200	8	0.163	3.38	4.62	2.10	4.34	14.46	6.45	17.41	38.33
Header-Cotton-Brush	8R-36/38	173 hp	70,100	200	8	0.129	2.67	3.65	1.70	3.43	11.47	5.20	13.76	30.44
Land Plane	50'x16'	MFWD 190	11,300	200	10	0.151	1.75	5.19	0.34	0.72	8.02	0.92	4.66	13.61
Levee Pull & Seed	8 Blade	MFWD 170	8,130	100	10	0.003	0.04	0.10	0.00	0.01	0.17	0.03	0.10	0.30
Levee Pull (1m/80a)	8 blade	MFWD 170	6,800	100	10	0.003	0.04	0.10	0.00	0.01	0.17	0.02	0.10	0.30
Levee Splitter (1/80	32"	MFWD 150	3,280	100	10	0.004	0.04	0.11	0.00	0.01	0.18	0.01	0.10	0.30

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2013 (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-----							
Stalk Shredder-Flail	18'	MFWD 150	24,900	200	10	0.091	1.06	2.47	1.99	0.38	5.91	1.22	2.33	9.47
Stalk Shredder-Flail	20'	MFWD 150	25,600	200	10	0.082	0.95	2.22	1.84	0.34	5.37	1.13	2.09	8.61
Stalk Shredder-Flail	25'	MFWD 150	34,100	200	10	0.066	0.76	1.78	1.96	0.27	4.79	1.20	1.67	7.68
Strip Till	8R38/12R30	MFWD 225	32,000	150	10	0.061	0.71	2.49	0.85	0.40	4.46	1.41	2.56	8.44
Subsoiler	3 shank	MFWD 190	3,390	100	15	0.204	2.37	6.99	0.23	0.98	10.57	0.58	6.29	17.45
Subsoiler	4 shank	MFWD 225	7,610	100	15	0.153	1.78	6.22	0.38	0.99	9.39	0.98	6.38	16.77
Subsoiler	5 shank	MFWD 225	7,300	100	15	0.122	1.41	4.95	0.29	0.79	7.47	0.75	5.08	13.31
Subsoiler low-till	6 shank	MFWD 225	10,200	100	15	0.102	1.18	4.14	0.34	0.66	6.33	0.87	4.24	11.46
Subsoiler low-till	8 shank	MFWD 225	19,600	100	15	0.076	0.88	3.10	0.50	0.49	4.98	1.26	3.18	9.43

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, 2013

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Dithane Rainshield	lb	2.84
Crop Oil Conc.(Pet.)	pt	3.75	Enable 2F	oz	1.93
Crop Oil Conc.(Veg.)	pt	4.34	Folicur 3.6	oz	1.08
Drift/Defoamer	pt	5.25	Headline EC	oz	2.81
Spreader Sticker	pt	3.28	Headline SC	oz	3.06
Surfactant	pt	3.50	Manzate 75 DF	lb	4.93
CLEANING			Moncut 70 DF	lb	24.85
Cleaning Peanuts	ton	18.00	Prevail	lb	28.26
CROP CONSULTANT			Provost	oz	2.18
Crop Consultant	acre	5.50	Quadris	oz	2.47
Rice Consultant	acre	8.00	Quilt	pt	19.37
CUSTOM FERTILIZE			Quilt XCEL	pt	26.52
App Fert by Air	cwt	6.50	Ridomil Gold	oz	6.22
App Fert by Air(Min)	appl	6.50	Ridomil Gold PC GR	lb	2.42
Custom Apply Fert	acre	7.00	Rovral 4F	pt	17.72
CUSTOM LIME			Stiletto	oz	0.56
Lime (Spread)	ton	45.00	Stratego	pt	21.97
CUSTOM PLANT			Stratego YLD	oz	4.60
Custom Plant	acre	7.00	Terrachlor 2EC	pt	1.87
Custom Plant Air	cwt	6.50	Tilt 3.6 EC	oz	1.17
CUSTOM SPRAY			Tilt/ Bravo SE	oz	0.38
App by Air (2 gal)	appl	4.00	Uniform	oz	4.42
App by Air (3 gal)	appl	4.75	Vitavax RTU-Thiram	oz	0.35
App by Air (5 gal)	appl	6.00	GINNING		
App by Air (10 gal)	appl	7.75	Gin & Haul	lb	0.11
Custom Spray	acre	6.50	GROWTH REGULATORS		
DRYING			Early Harvest PGR	oz	1.55
Dry Corn	bu	0.19	Mepex	oz	0.10
Dry Grain Sorghum	cwt	0.25	Mepex Gin Out	oz	0.15
Dry Peanuts	ton	24.00	Mepichlor 4.2%	oz	0.13
Dry Rice	bu	0.40	Mepiquat	oz	0.11
ERADICATION FEE			Mepiquat Extra	oz	0.08
Eradication	acre	1.00	Pentia	pt	5.72
FERTILIZERS			Pix Plus	oz	0.25
Amm Nitrate (34% N)	cwt	22.50	Stance	oz	1.24
Amm Sulfate (21% N)	cwt	20.70	SuperBoll	pt	3.24
Amm Sulfate dry/mix	lb	0.28	HARVEST AIDS		
Boron 15G	lb	0.40	Adios	oz	1.30
Boron Plus	pt	4.00	Aim 2EC	oz	7.38
DAP	cwt	32.00	Ammonium Sulfate	lb	0.28
Fert 10-34-0	cwt	35.00	CottonQuik	pt	4.25
Fert 11-37-0	cwt	36.50	Def 6	pt	7.34
Fert 30-0-0-5	cwt	18.32	Def/Folex	pt	8.42
Fert 33-0-0-12s	cwt	21.50	Defol 3	gal	3.45
Fert 41-0-0-4	cwt	26.30	Defol 5	gal	6.11
Lime	ton	35.00	Defol 750	pt	1.72
MAP	cwt	33.33	Dropp SC	oz	2.34
Phosphorus(46% P2O5)	cwt	29.30	ET	pt	47.80
Potash (60% K2O)	cwt	29.80	Ethephon 6E	pt	3.34
Sulfur 90%	lb	0.27	Finish 6	pt	9.22
Sulfur 90%	lb	0.27	First Pick	pt	3.66
Sulfur Plus	pt	2.37	Folex 6EC	pt	9.50
SuperMax AMS	pt	2.47	Freefall SC	oz	1.57
UAN (32% N)	cwt	21.10	Ginstar EC	pt	31.92
UAN + Sulfur (28%)	cwt	20.90	Gramoxone SL	oz	0.25
Urea, Solid (46% N)	cwt	28.40	Paraquat	oz	0.25
Zinc Plus	pt	2.62	Prep	pt	3.00
Zinc Sulfate 31%	lb	0.55	Sharpen	oz	5.30
FUNGICIDES			Shed-a-leaf	gal	3.60
Abound	pt	30.16	Sodium Chlorate 3L	gal	3.45
Allegiance Flowable	pt	59.52	Sodium Chlorate 5L	gal	6.11
Apron Maxx RTA	oz	0.87	TDZ SC	oz	1.41
Apron Maxx RTA+Moly	pt	15.47	Thidiazuron 4lb	oz	1.80
Apron XL LS	oz	7.93	Tribufos 6lb	pt	8.42
Artisan	oz	0.96	HAULING		
Bravo Ultrex	lb	5.48	Haul Corn/Bin	bu	0.23
Bravo Weather Stick	pt	4.42	Haul Corn/Field	bu	0.28
Captan 50 WP	lb	6.00	Haul Cotton	lb	0.02
Cotton Seed Trt.	acre	20.00	Haul Peanuts	ton	14.50
CruiserMaxx	oz	4.07	Haul Rice/Bin	bu	0.30
Dithane F-45	qt	8.17			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Rice/Field	bu	0.31	Fusion	pt	26.64
Haul Sorghum/Bin	bu	0.23	Glyfos	pt	1.94
Haul Sorghum/Field	bu	0.28	Glyfos Xtra	pt	1.80
Haul Soybeans/Bin	bu	0.23	Glyphosate 3lbs a.e	pt	1.79
Haul Soybeans/Field	bu	0.28	Glyphosate 3lbs a.e	oz	0.13
Haul Wheat/Bin	bu	0.23	Glystar	pt	1.81
Haul Wheat/Field	bu	0.28	Glystar Plus	pt	1.80
HERBICIDES			Goal 2XL	pt	9.87
2,4-D Amine 4	pt	2.54	Gramonone SL 2.0	oz	0.25
2,4-D LV 4Ester	pt	2.31	Grandstand R	qt	28.37
2,4-D Weedar 64	pt	2.54	Guardman Max	pt	6.92
AAtrex 4L	pt	2.28	Halex GT	pt	6.16
AAtrex NINE-O	lb	4.22	Halomax	oz	18.42
Accent Q	oz	32.47	Harmony Extra SG	oz	13.27
Aim 2EC	oz	7.38	Harmony Extra XP	oz	14.40
Armezon	oz	0.00	Harmony GT	oz	20.72
Assure II	oz	0.90	Harness	pt	11.88
Atrazine 4L	pt	1.72	Harness XTRA	pt	7.00
Atrazine 90DF	lb	3.24	Hoelon 3EC	pt	11.03
Axial	oz	0.98	Impact	oz	20.34
Axiom 68DF	oz	1.73	Karmex XP	lb	6.81
Banvel	pt	6.98	Lariat	qt	7.29
Basagran	pt	13.23	Laudis	oz	4.89
Basis	oz	18.57	Layby Pro	qt	13.87
Beyond	oz	3.90	Lexar	pt	6.85
Bicep II Magnum	qt	11.82	Liberty 280	pt	8.84
Bicep Lite Magnum	pt	7.95	Linex 4L	pt	9.92
Blazer Ultra	pt	9.40	Londax 60DF	oz	14.75
Bolero 8EC	pt	7.30	Lorox 50DF	lb	20.60
Boundary 6.5 EC	pt	9.67	Makaze	pt	1.50
Buccaneer Plus	pt	1.74	MSMA 6.6	pt	2.79
Bullet	pt	3.65	MSMA6 Plus	pt	2.71
Butoxone 200(2,4-D	pt	3.21	Newpath 2SL	oz	3.15
Butyrac 200 (2,4-DB)	pt	4.18	Osprey	oz	3.20
Cadre	oz	3.65	Outlook	pt	22.99
Callisto 4SC	oz	5.50	Paraquat	oz	0.25
Canopy 75%	oz	2.21	Parazone 3SL	oz	0.26
Canopy EX	oz	7.76	Parrlay	pt	8.13
Caparol 4L	pt	2.54	Peak Accu Pak	oz	14.69
Capreno	oz	5.78	Permit 75 DF	oz	19.79
Celebrity Plus	lb	84.50	Poast 1.53	pt	11.25
Clarity	pt	10.83	Poast Plus	pt	8.42
Classic	oz	16.06	Prefix	pt	6.84
Clearpath	lb	48.09	Propimax EC	pt	20.31
Clincher SF	oz	2.10	Prowl 3.3 EC	pt	5.51
Cobra 2EC	oz	1.47	Prowl H20	pt	5.37
Command 3ME	pt	17.08	Pursuit 2S	oz	3.93
Cornerstone Plus	pt	1.56	Python WDG	oz	13.22
Cotoran 4L	pt	6.12	Quinstar	lb	48.70
Cotton Pro	pt	3.44	Raptor	oz	4.05
Credit Extra	pt	2.04	Reflex 2LC	pt	16.10
Direx 4L	pt	4.05	Regiment 80WP	oz	40.64
Diuron 4L	pt	3.85	Remedy Ultra	pt	8.45
Diuron 80 DF	lb	5.13	Resolve SG	oz	7.77
Diuron 80%	lb	5.13	Resource .86EC	pt	27.28
Dual II Magnum	pt	14.43	Ricebeaux	pt	5.17
Dual Magnum	pt	13.54	RicePro	pt	4.85
Duet	pt	4.78	Riceshot	pt	3.48
Envoke	oz	88.92	Ricestar HT	pt	22.25
Evik DF 80W	lb	10.11	Rifel	pt	4.38
Exceed	oz	10.71	Roundup Power Max	oz	0.18
Expert	pt	4.19	Roundup PowerMax	pt	2.83
Facet L	pt	14.25	Roundup WeatherMax	oz	0.24
Finesse	oz	15.34	Roundup WeatherMax	pt	3.77
First Rate	oz	39.68	Salvo	pt	3.56
Flexstar	pt	16.78	Scepter 70 DG	oz	4.33
Frontier 6.0	oz	0.63	Select Max	pt	12.59
Fultime	pt	5.21	Sequence	pt	5.08
Fusilade DX	oz	1.23			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Simazine 4L	pt	2.86	Intrepid 2F	oz	1.81
Stalwart	pt	6.25	Intruder 70WSP	oz	8.75
Stam 80 EDF	lb	7.13	Karate Z	oz	3.15
Stam M4	qt	7.51	Kelthane MF 4EC	pt	5.03
Staple LX	oz	8.25	Lannate LV	pt	9.87
Steadfast	oz	23.95	Lannate SP	oz	1.83
Steadfast ATZ	oz	0.00	Larvin 3.2	oz	0.62
Sterling Blue	pt	9.81	Leverage 2.7	oz	1.33
Storm	pt	10.62	Lorsban 15G	lb	2.24
Strada WG	oz	5.96	Lorsban 4E	pt	5.54
Strongarm	oz	47.07	Malathion 5E	pt	4.60
Superwham	qt	8.49	Malathion 8E	pt	5.50
Suprend	lb		Methyl Parathion 4	pt	5.58
Surpass EC	qt	25.92	Monitor 4	pt	16.33
Synchrony XP	oz	11.75	Mustang Max	oz	1.58
Touchdown Total	qt	5.49	Oberon 4 SC	pt	76.18
Treflan TR-10	lb	1.10	Orthene 90S	lb	6.50
Tricor DF	lb	14.46	Penncap-M	pt	5.90
Trifluralin 4EC	pt	3.19	Phorate	lb	3.00
Valor SX	oz	5.55	Pounce 25WP	lb	12.77
Valor XLT	oz	4.10	Prolex	oz	2.62
Verdict	oz	1.58	Respect .8EC	pt	33.79
Zidua	oz	0.00	Sevin 4F	pt	6.01
Zorial Rapid 80DF	lb	13.95	Sevin 80S	lb	7.35
INOCULANT			Sevin XLR Plus	qt	12.39
Nitrastick S	lbseed	0.02	Sniper	oz	0.70
Nitro Fix	lbseed	0.03	Steward	pt	31.20
Optimize LIFT	oz	0.70	Temik 15G Grit	lb	4.11
INSECT SCOUTING			Temik 15G Gypsum	lb	4.11
Insect Scouting	acre	7.00	Thimet 20-G Lock N L	lb	3.33
INSECTICIDES			Thionex 3 EC	pt	4.46
Acephate 90%	lb	6.53	Thionex 50W	lb	10.51
Acephate 90SP	lb	6.56	Tombstone Helios	pt	36.30
Acramite-4SC	oz	1.37	Tracer 4SC	oz	8.45
Ambush 25 WP	.66	0.00	Trimax Pro	oz	1.85
Asana .66 XL	oz	0.75	Tundra	oz	0.78
Aztec 2.1% G	lb	3.40	Vydate C-LV	oz	0.83
Baythroid XL	oz	2.27	Warrior Z	oz	1.80
Bidrin 8WM	oz	1.01	Zeal	oz	18.59
Bidrin XP	oz	0.78	Zephyr	oz	2.20
Bifenture 2EC	pt	12.50	IRRIGATION SUPPLIES		
Brigade EC	pt	14.58	Roll-Out Pipe	ft	0.24
Brigade WSB	lb	22.22	SEED/PLANTS		
Capture 2EC	oz	1.76	Corn Seed Bt	thous	2.60
Capture LFR	oz	2.16	Corn Seed BtRR	thous	3.34
Carbaryl 4L	pt	4.88	Corn Seed Conv.	thous	2.57
Carbine 50WG	oz	5.50	Corn Seed RR2	thous	3.11
Centric 40WG	oz	4.46	Corn Seed VT3	thous	3.29
Comite 1l	pt	7.23	Corn Seed VT3Pro	thous	3.38
Confirm 2F	oz	1.94	Corn Seed YGCB	thous	2.60
Counter 15G	lb	2.55	Cotton Seed B2RF	thous	0.68
Curacron 8E	pt	10.74	Cotton Seed LL	thous	1.15
Cypermethrin	oz	0.47	Cotton Seed LLB2	thous	1.16
Denim 0.16 EC	pt	30.23	Cotton Seed RF	thous	0.63
Diamond .83EC	pt	17.83	Cotton Seed W	thous	0.67
Dimethoate 4E	pt	5.45	Cotton Seed WRF	thous	0.67
Dimilin 2L	oz	1.84	Peanut Seed	lb	1.13
Dipel DF	lb	13.98	Rice Clearfield	lb	0.85
Dipel ES	pt	5.28	Rice Clearfield Hyb	lb	6.90
Discipline 2 EC	oz	0.78	Rice Conv. Hybrid	lb	5.34
Endigo ZC	pt	29.19	Rice Seed (Levees)	lb	0.29
Fanfare 2EC	oz	0.78	Rice Seed CF(Levees)	lb	0.85
Force 3G	lb	6.25	Rice Seed CFH(Levee)	lb	6.90
Furadan 4F	pt	9.81	Rice Seed Conv.	lb	0.29
Furadan 4FLFR	pt	9.81	Rice Seed Std.Blend	lb	2.30
Gaucha 600	oz	5.75	Sorghum Concept	lb	2.03
Hero	pt	23.05	Soybean Seed LL	lb	1.13
Holster	pt	0.80	Soybean Seed RR2	lb	1.04
Imidan 70 WSB	oz	0.70	Wheat Seed Private	lb	0.37
Incidental Pest Trt	acre	12.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2013 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
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
B2RF Cot Tech Fee	thous	1.49	WS Cotton Tech Fee	cap/ac	24.00

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2013

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.50
Gasoline	gal	3.40
LP Gas	gal	2.00
INTEREST RATES		
Short-term	%	4.25
Intermediate-term	%	5.25

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2013

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.71
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, 2013

	Unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '13	6.32	-0.3012	6.02	2.09	6.02
Cotton Lint	lb	Dec '13	0.770	-0.0276	0.743	.524	0.74
Cottonseed	lb						0.103 ^f
Grain Sorghum	bu				5.72	3.61	5.72
Peanuts	ton				575.00	355.00	575.00
Soybeans	bu	Nov '13	13.35	-0.3030	13.05	5.21	13.05
Rice	bu	Sep '13	7.07	-0.8110	6.25	2.97	6.25
Wheat	bu	Jul '13	8.51	-0.6908	7.82	2.87	7.82

^a Average of the futures contract month closings in October.

^b The basis is computed by subtracting the 2001-2012 average near futures contract month closings in October from the daily spot cash prices reported in October. Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USDA Market News.

^c The forward contract price for cotton, soybeans, corn, wheat, and rice is the futures contract price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is estimated from a poll of industry peanut buyers.

^d Average Mississippi loan rate for the 2012 crop year for soybeans, corn, grain sorghum, and wheat. 2012 Mississippi base loan rate for the Delta area for cotton. 2012 Mississippi loan rate for long grain rice. 2012 national average loan rate for peanuts.

^e Price used in the 2013 MAFES Planning Budgets.

^f Cottonseed price is the marketing year average price averaged over the years 2008-2012, Agricultural Prices Summary, USDA.

Appendix Table 8. Estimated costs for field operations, per acre
 Contour levee rice flood irrigation system
 80-acre system, 33 ac-in., Delta Area, Mississippi, 2013

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		0.49	0.09	0.19			0.02	0.79	0.58
Survey & Mark Levees	acre	4.50						0.10	4.60	4.60
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.31	0.25	0.50			0.04	2.10	1.54
Butt Levees										
Blade-Box	6'-7'		0.47	0.06	0.23			0.02	0.78	0.32
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
***Gate Installer			0.47	0.23	0.41			0.02	1.13	0.92
IRRIGATE LABOR	hour				0.91			0.02	0.93	0.93
Apply Water										
IRRIGATE LABOR	hour				6.80			0.14	6.94	6.94
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"		0.90	0.16	0.39			0.01	1.46	0.96
Tear Down Levees										
Levee Splitter (1/80	32"		0.34	0.06	0.15				0.55	0.35
Land Forming (\$75)	each									7.09
Levee Gates	each									0.59
Well & Pump, Flood	each			4.88				0.09	4.97	14.78
Engine, Rice CL, 75	each									14.65
May Irrigation	ac-in		17.11	1.22				0.39	18.72	18.72
June Irrigation	ac-in		25.66	1.83				0.49	27.98	27.98
July Irrigation	ac-in		25.66	1.83				0.39	27.88	27.88
August Irrigation	ac-in		25.66	1.83				0.29	27.78	27.78
TOTALS		4.50	98.07	12.44	32.02	0.00		2.34	149.37	41.78
										191.15

Note: Cost of production estimates are based on 2012 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, 2013

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		0.98	0.18	0.38			0.03	1.57	1.16 2.73
Butt Levees										
Blade-Box	6'-7'		0.47	0.06	0.23			0.02	0.78	0.32 1.10
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			0.06	4.59	4.59
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"		0.68	0.12	0.29			0.01	1.10	0.72 1.82
Land Forming (\$390)	each									28.37 28.37
Levee Gates	each									0.59 0.59
Well & Pump, Flood	each			4.88				0.09	4.97	14.78 19.75
Engine, Rice SL, 75	each									14.65 14.65
May Irrigation	ac-in		17.11	1.49				0.40	19.00	19.00
June Irrigation	ac-in		19.96	1.74				0.38	22.08	22.08
July Irrigation	ac-in		19.96	1.74				0.31	22.01	22.01
August Irrigation	ac-in		19.96	1.74				0.23	21.93	21.93
TOTALS		2.25	79.12	11.95	22.42	0.00	1.87	117.61	60.59	178.20

Note: Cost of production estimates are based on 2012 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, 2013

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		0.98	0.18	0.38			0.03	1.57	1.16 2.73
Butt Levees										
Blade-Box	6'-7'		0.47	0.06	0.23			0.02	0.78	0.32 1.10
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Ditcher (1m/160a)			0.22	0.04	0.11			0.01	0.38	0.17 0.55
Roll-Out Pipe	ft	7.92						0.17	8.09	8.09
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.29	0.05	0.38			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"		0.68	0.12	0.29			0.01	1.10	0.72 1.82
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.15	0.03	0.18				0.36	0.23 0.59
Land Forming (\$390)	each									28.37 28.37
Levee Gates	each									0.30 0.30
Well & Pump, Flood	each			4.88				0.09	4.97	14.78 19.75
Engine, Mult In Rice	each									14.65 14.65
May Irrigation	ac-in		14.26	1.40				0.33	15.99	15.99
June Irrigation	ac-in		17.11	1.68				0.33	19.12	19.12
July Irrigation	ac-in		17.11	1.68				0.27	19.06	19.06
August Irrigation	ac-in		17.11	1.68				0.20	18.99	18.99
TOTALS		10.17	68.38	11.80	11.75	0.00	1.70		103.80	61.17 164.97

Note: Cost of production estimates are based on 2012 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, 2013

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								28.37	28.37
Well & Pump, Flood	each			4.88				0.09	4.97	14.78
Engine, Rice SL, 75	each								14.65	14.65
May Irrigation	ac-in		11.40	0.99				0.26	12.65	12.65
June Irrigation	ac-in		14.26	1.24				0.27	15.77	15.77
July Irrigation	ac-in		14.26	1.24				0.22	15.72	15.72
August Irrigation	ac-in		14.26	1.24				0.16	15.66	15.66
TOTALS		0.00	54.18	9.59	9.53	0.00	1.15	74.45	57.80	132.25

Note: Cost of production estimates are based on 2012 input prices.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968."
4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2012 Planning Budgets." Budget Report No. 2011-03, Department of Agricultural Economics, Mississippi State University, December 2011.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2012 Planning Budgets." Budget Report No. 2011-01, Department of Agricultural Economics, Mississippi State University, December 2011.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2012 Planning Budgets." Budget Report No. 2012-01, Department of Agricultural Economics, Mississippi State University, May 2012.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Mississippi Agricultural Statistics." Mississippi Department of Agriculture and Commerce and Department of Agriculture, Mississippi Agriculture Statistical Service, Jackson, Mississippi.
16. "Rice 2012 Planning Budgets." Budget Report No. 2011-04, Department of Agricultural Economics, Mississippi State University, December 2011.
17. "Soybeans 2012 Planning Budgets." Budget Report No. 2011-02, Department of Agricultural Economics, Mississippi State University, December 2011.
18. "Vegetables 2012 Planning Budgets." Budget Report No. 2011-08, Department of Agricultural Economics, Mississippi State University December 2011.
19. "Peanuts 2012 Planning Budgets." Budget Report No. 2011-07, Department of Agricultural Economics, Mississippi State University, December 2011.



MISSISSIPPI STATE
UNIVERSITY

Mark E. Keenum, President

Division of Agriculture, Forestry, and Veterinary Medicine
Gregory Bohach, Vice President

Department of Agricultural Economics
Steven C. Turner, Head

Discrimination based upon race, color, religion, sex, national origin, age, disability, or veteran's status is a violation of federal and state law and MSU policy and will not be tolerated. Discrimination based upon sexual orientation or group affiliation is a violation of MSU policy and will not be tolerated.