RICE
2012
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2011-04

December 2011

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 2012 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.

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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 2011. (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:

$$RPH = \frac{RLC \; x \; RP}{THL}$$

$$RPA = RPH \; x \; PR$$

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 perquisites (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

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

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:

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

$$CRCPA = CRCPH \times PR$$

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 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	3.2500	18.69	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	_____
FUNGICIDES					
Stratego	pt	19.31	0.7500	14.48	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	3.34	8.0000	26.72	_____
Facet 75DF	lb	45.50	0.4000	18.20	_____
Permit 75 DF	oz	17.88	0.5000	8.94	_____
Clincher SF	oz	1.97	7.5000	14.78	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.45	90.0000	40.50	_____
Rice Seed (Levees)	lb	0.45	15.0000	6.75	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.26	148.0000	38.48	_____
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	11.60	0.5757	6.69	_____
Harvesters	hour	11.60	0.2030	2.36	_____
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	11.58	0.5887	6.82	_____
DIESEL FUEL					
Tractors	gal	3.40	5.4144	18.40	_____
Harvesters	gal	3.40	3.3975	11.55	_____
Flood Irr.	gal	3.40	26.8827	91.41	_____
REPAIR & MAINTENANCE					
Implements	acre	6.99	1.0000	6.99	_____
Tractors	acre	2.49	1.0000	2.49	_____
Harvesters	acre	5.69	1.0000	5.69	_____
Flood Irr.	acre	11.55	1.0000	11.55	_____
INTEREST ON OP. CAP.	acre	9.44	1.0000	9.44	_____

TOTAL DIRECT EXPENSES				638.32	_____
FIXED EXPENSES					
Implements	acre	15.08	1.0000	15.08	_____
Tractors	acre	15.85	1.0000	15.85	_____
Harvesters	acre	22.79	1.0000	22.79	_____
Flood Irr.	acre	36.95	1.0000	36.95	_____

TOTAL FIXED EXPENSES				90.67	_____

TOTAL SPECIFIED EXPENSES				728.99	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	148.0000	987.16	_____
TOTAL INCOME				987.16	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	20.94	1.0000	20.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	14.48	1.0000	14.48	_____
HERBICIDES	acre	88.64	1.0000	88.64	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
SEED/PLANTS	acre	47.25	1.0000	47.25	_____
ADJUVANTS	acre	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	38.48	1.0000	38.48	_____
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	11.60	0.7788	9.05	_____
RICE MGT. LABOR	hour	9.06	1.5000	13.59	_____
UNALLOCATED LABOR	hour	11.58	0.5887	6.82	_____
DIESEL FUEL	gal	3.40	35.6946	121.36	_____
REPAIR & MAINTENANCE	acre	26.72	1.0000	26.72	_____
INTEREST ON OP. CAP.	acre	9.44	1.0000	9.44	_____
TOTAL DIRECT EXPENSES				638.32	_____
RETURNS ABOVE DIRECT EXPENSES				348.84	_____
TOTAL FIXED EXPENSES				90.67	_____
TOTAL SPECIFIED EXPENSES				728.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				258.17	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.30	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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 2011 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, 2012

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'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Seed Conv.	lb	40.50					0.86	41.36		41.36
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	6.75					0.14	6.89		6.89
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Riceshot	pt	26.72					0.47	27.19		27.19
Facet 75DF	lb	18.20					0.32	18.52		18.52
Permit 75 DF	oz	8.94					0.16	9.10		9.10
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Karate Z	oz	5.46					0.10	5.56		5.56
Rice Management										
RICE MGT. LABOR	hour				2.72		0.05	2.77		2.77
App by Air (5 gal)	appl	2.88					0.04	2.92		2.92
Clincher SF	oz	14.78					0.21	14.99		14.99
Crop Oil Conc.(Pet.)	pt	1.55					0.02	1.57		1.57
Rice Management										
RICE MGT. LABOR	hour				4.53		0.06	4.59		4.59
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				4.53		0.05	4.58		4.58
App by Air (5 gal)	appl	4.31					0.05	4.36		4.36
Stratego	pt	14.48					0.15	14.63		14.63
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		11.55	7.99	4.48		0.17	24.19	26.46	50.65
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	38.48					0.27	38.75		38.75
Dry Rice	bu	59.20					0.42	59.62		59.62
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	4.50	94.82	12.18	33.41		2.31	147.22	40.67	187.89
TOTALS		416.27	121.36	26.72	64.53	0.00	9.44	638.32	90.67	728.99

Note: Cost of production estimates are based on 2011 input prices.

Table 1.E Estimated monthly income and expense flows per acre
Contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2012

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	987.16	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	2.88	6.56	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	14.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.86	14.78	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	47.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.48	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	2.91	0.00	0.00	0.00	0.00	0.00	15.86	9.52	11.33	11.33	10.24	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	24.03	24.93	24.93	24.93	13.12	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.15	6.70	1.82	1.82	8.35	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.46	3.58	1.41	0.65	0.92	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	118.25	205.77	101.52	62.50	130.31	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-118.25	-205.77	-101.52	-62.50	856.85	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-127.49	-333.26	-434.78	-497.28	359.57	348.84

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-218	-194	-169	-144	-120	-95	-70	-46	-21	3	27
			-309	-284	-260	-235	-210	-186	-161	-136	-112	-87	-62
60	88.80	bu	-154	-125	-95	-65	-36	-6	22	52	82	111	141
			-245	-215	-186	-156	-126	-97	-67	-38	-8	21	50
70	103.60	bu	-90	-55	-21	13	47	82	116	151	185	220	254
			-181	-146	-112	-77	-43	-8	26	60	95	129	164
80	118.40	bu	-26	13	52	92	131	171	210	250	289	329	368
			-117	-77	-38	1	40	80	119	159	198	238	277
90	133.20	bu	37	82	126	171	215	259	304	348	393	437	482
			-52	-8	36	80	124	169	213	258	302	346	391
100	148.00	bu	102	151	200	250	299	348	398	447	496	546	595
			11	60	110	159	208	258	307	356	406	455	504
110	162.80	bu	166	220	274	329	383	437	492	546	600	654	709
			75	129	184	238	292	347	401	455	509	564	618
120	177.60	bu	230	289	348	408	467	526	585	645	704	763	822
			139	199	258	317	376	435	495	554	613	672	732
130	192.40	bu	294	358	422	487	551	615	679	743	807	872	936
			203	268	332	396	460	524	588	653	717	781	845
140	207.20	bu	358	427	497	566	635	704	773	842	911	980	1049
			268	337	406	475	544	613	682	751	820	890	959
150	222.00	bu	423	497	571	645	719	793	867	941	1015	1089	1163
			332	406	480	554	628	702	776	850	924	998	1072

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 2011 input prices.

Table 2.A Estimated costs per acre
Straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	3.2500	18.69	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	_____
FUNGICIDES					
Stratego	pt	19.31	0.7500	14.48	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Riceshot	pt	3.34	8.0000	26.72	_____
Facet 75DF	lb	45.50	0.4000	18.20	_____
Permit 75 DF	oz	17.88	0.5000	8.94	_____
Clincher SF	oz	1.97	7.5000	14.78	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Seed Conv.	lb	0.45	90.0000	40.50	_____
Rice Seed (Levees)	lb	0.45	15.0000	6.75	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.26	156.0000	40.56	_____
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	11.60	0.5281	6.13	_____
Harvesters	hour	11.60	0.1760	2.04	_____
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	11.58	0.5643	6.54	_____
DIESEL FUEL					
Tractors	gal	3.40	5.0192	17.07	_____
Harvesters	gal	3.40	2.9444	10.01	_____
Flood Irr.	gal	3.40	21.9949	74.79	_____
REPAIR & MAINTENANCE					
Implements	acre	6.61	1.0000	6.61	_____
Tractors	acre	2.31	1.0000	2.31	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Flood Irr.	acre	11.55	1.0000	11.55	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____

TOTAL DIRECT EXPENSES				601.13	_____
FIXED EXPENSES					
Implements	acre	14.24	1.0000	14.24	_____
Tractors	acre	14.68	1.0000	14.68	_____
Harvesters	acre	19.75	1.0000	19.75	_____
Flood Irr.	acre	58.23	1.0000	58.23	_____

TOTAL FIXED EXPENSES				106.90	_____

TOTAL SPECIFIED EXPENSES				708.03	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	156.0000	1040.52	_____
TOTAL INCOME				1040.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	20.94	1.0000	20.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	14.48	1.0000	14.48	_____
HERBICIDES	acre	88.64	1.0000	88.64	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
SEED/PLANTS	acre	47.25	1.0000	47.25	_____
ADJUVANTS	acre	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	40.56	1.0000	40.56	_____
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	11.60	0.7041	8.17	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	_____
DIESEL FUEL	gal	3.40	29.9586	101.87	_____
REPAIR & MAINTENANCE	acre	25.40	1.0000	25.40	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____
TOTAL DIRECT EXPENSES				601.13	_____
RETURNS ABOVE DIRECT EXPENSES				439.39	_____
TOTAL FIXED EXPENSES				106.90	_____
TOTAL SPECIFIED EXPENSES				708.03	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				332.49	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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 2011 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, 2012

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'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Seed Conv.	lb	40.50					0.86	41.36		41.36
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	6.75					0.14	6.89		6.89
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Riceshot	pt	26.72					0.47	27.19		27.19
Facet 75DF	lb	18.20					0.32	18.52		18.52
Permit 75 DF	oz	8.94					0.16	9.10		9.10
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Karate Z	oz	5.46					0.10	5.56		5.56
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	2.88					0.04	2.92		2.92
Clincher SF	oz	14.78					0.21	14.99		14.99
Crop Oil Conc.(Pet.)	pt	1.55					0.02	1.57		1.57
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.31					0.05	4.36		4.36
Stratego	pt	14.48					0.15	14.63		14.63
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	40.56					0.29	40.85		40.85
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	2.25	76.87	11.92	22.41		1.82	115.27	60.43	175.70
TOTALS		419.30	101.87	25.40	45.68	0.00	8.88	601.13	106.90	708.03

Note: Cost of production estimates are based on 2011 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, 2012

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	1040.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	2.88	6.56	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	14.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.86	14.78	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	47.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.56	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	2.91	0.00	0.00	0.00	0.00	0.00	11.91	5.44	6.34	6.34	9.40	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	23.24	19.39	19.39	19.39	11.04	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.27	6.61	1.73	1.73	7.18	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.31	3.41	1.26	0.54	0.94	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	111.23	195.89	90.75	51.77	131.52	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-111.23	-195.89	-90.75	-51.77	909.00	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-120.47	-316.36	-407.11	-458.88	450.12	439.39

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-159	-133	-107	-81	-55	-29	-3	23	49	75	101
			-265	-239	-213	-187	-161	-135	-109	-83	-57	-31	-5
60	93.60	bu	-91	-60	-28	2	33	64	95	127	158	189	220
			-198	-167	-135	-104	-73	-42	-11	20	51	82	113
70	109.20	bu	-23	12	49	85	121	158	194	231	267	304	340
			-130	-94	-57	-21	15	51	87	124	160	197	233
80	124.80	bu	43	85	127	168	210	252	293	335	376	418	460
			-62	-21	20	61	103	145	186	228	269	311	353
90	140.40	bu	111	158	205	252	298	345	392	439	486	533	579
			4	51	98	145	191	238	285	332	379	426	472
100	156.00	bu	179	231	283	335	387	439	491	543	595	647	699
			72	124	176	228	280	332	384	436	488	540	592
110	171.60	bu	246	304	361	418	475	533	590	647	704	761	819
			140	197	254	311	368	426	483	540	597	655	712
120	187.20	bu	314	377	439	501	564	626	689	751	814	876	938
			207	270	332	394	457	519	582	644	707	769	832
130	202.80	bu	382	449	517	585	652	720	788	855	923	990	1058
			275	343	410	478	545	613	681	748	816	884	951
140	218.40	bu	449	522	595	668	741	814	886	959	1032	1105	1178
			343	415	488	561	634	707	780	852	925	998	1071
150	234.00	bu	517	595	673	751	829	907	985	1063	1141	1219	1298
			410	488	566	644	722	800	878	956	1035	1113	1191

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 2011 input prices.

Table 3.A Estimated costs per acre
Straight levee rice
Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	3.2500	18.69	
App by Air (3 gal)	appl	4.50	0.5000	2.25	
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	
FUNGICIDES					
Stratego	pt	19.31	0.7500	14.48	
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	
Riceshot	pt	3.34	8.0000	26.72	
Facet 75DF	lb	45.50	0.4000	18.20	
Permit 75 DF	oz	17.88	0.5000	8.94	
Clincher SF	oz	1.97	7.5000	14.78	
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	
SEED/PLANTS					
Rice Seed Conv.	lb	0.45	90.0000	40.50	
Rice Seed (Levees)	lb	0.45	15.0000	6.75	
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.0000	1.55	
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	
HAULING					
Haul Rice/Field	bu	0.26	156.0000	40.56	
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	11.60	0.5563	6.45	
Harvesters	hour	11.60	0.1760	2.04	
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	11.58	0.5643	6.54	
DIESEL FUEL					
Tractors	gal	3.40	5.2074	17.70	
Harvesters	gal	3.40	2.9444	10.01	
Flood Irr.	gal	3.40	18.7364	63.71	
REPAIR & MAINTENANCE					
Implements	acre	6.66	1.0000	6.66	
Tractors	acre	2.40	1.0000	2.40	
Harvesters	acre	4.93	1.0000	4.93	
Flood Irr.	acre	11.25	1.0000	11.25	
INTEREST ON OP. CAP.	acre	8.69	1.0000	8.69	

TOTAL DIRECT EXPENSES				586.25	
FIXED EXPENSES					
Implements	acre	14.66	1.0000	14.66	
Tractors	acre	15.20	1.0000	15.20	
Harvesters	acre	19.75	1.0000	19.75	
Flood Irr.	acre	57.96	1.0000	57.96	

TOTAL FIXED EXPENSES				107.57	

TOTAL SPECIFIED EXPENSES				693.82	

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	156.0000	1040.52	_____
TOTAL INCOME				1040.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	20.94	1.0000	20.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	14.48	1.0000	14.48	_____
HERBICIDES	acre	88.64	1.0000	88.64	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	47.25	1.0000	47.25	_____
ADJUVANTS	acre	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	40.56	1.0000	40.56	_____
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	11.60	0.7323	8.49	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	_____
DIESEL FUEL	gal	3.40	26.8883	91.42	_____
REPAIR & MAINTENANCE	acre	25.24	1.0000	25.24	_____
INTEREST ON OP. CAP.	acre	8.69	1.0000	8.69	_____
TOTAL DIRECT EXPENSES				586.25	_____
RETURNS ABOVE DIRECT EXPENSES				454.27	_____
TOTAL FIXED EXPENSES				107.57	_____
TOTAL SPECIFIED EXPENSES				693.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				346.70	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Field Cultivate Fld	32'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Seed Conv.	lb	40.50					0.86	41.36		41.36
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed (Levees)	lb	6.75					0.14	6.89		6.89
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Riceshot	pt	26.72					0.47	27.19		27.19
Facet 75DF	lb	18.20					0.32	18.52		18.52
Permit 75 DF	oz	8.94					0.16	9.10		9.10
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Karate Z	oz	5.46					0.10	5.56		5.56
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	2.88					0.04	2.92		2.92
Clincher SF	oz	14.78					0.21	14.99		14.99
Crop Oil Conc.(Pet.)	pt	1.55					0.02	1.57		1.57
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.31					0.05	4.36		4.36
Stratego	pt	14.48					0.15	14.63		14.63
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	40.56					0.29	40.85		40.85
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	8.85	66.42	11.76	11.73		1.63	100.39	61.10	161.49
TOTALS		425.90	91.42	25.24	35.00	0.00	8.69	586.25	107.57	693.82

Note: Cost of production estimates are based on 2011 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, 2012

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	1040.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	2.88	6.56	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	14.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.86	14.78	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	47.25	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.56	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	2.91	0.00	0.00	0.00	0.00	0.00	9.67	2.72	3.62	3.62	9.12	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	20.96	16.62	16.62	16.62	11.18	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.29	6.54	1.66	1.66	7.21	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	2.36	3.31	1.19	0.48	0.93	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	113.38	190.23	85.12	46.15	131.40	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-113.38	-190.23	-85.12	-46.15	909.12	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-122.62	-312.85	-397.97	-444.12	465.00	454.27

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-144	-118	-92	-66	-40	-14	11	37	63	89	115
			-251	-225	-199	-173	-147	-121	-95	-69	-43	-17	8
60	93.60	bu	-76	-45	-14	17	48	79	110	141	173	204	235
			-184	-152	-121	-90	-59	-28	3	34	65	96	128
70	109.20	bu	-8	27	63	100	136	173	209	246	282	318	355
			-116	-80	-43	-7	29	65	102	138	174	211	247
80	124.80	bu	58	100	142	183	225	266	308	350	391	433	475
			-48	-7	34	76	117	159	200	242	284	325	367
90	140.40	bu	126	173	220	266	313	360	407	454	501	547	594
			18	65	112	159	206	253	299	346	393	440	487
100	156.00	bu	194	246	298	350	402	454	506	558	610	662	714
			86	138	190	242	294	346	398	450	502	554	606
110	171.60	bu	261	319	376	433	490	547	605	662	719	776	834
			154	211	268	325	383	440	497	554	612	669	726
120	187.20	bu	329	391	454	516	579	641	704	766	828	891	953
			221	284	346	409	471	534	596	658	721	783	846
130	202.80	bu	397	464	532	600	667	735	802	870	938	1005	1073
			289	357	424	492	560	627	695	763	830	898	965
140	218.40	bu	464	537	610	683	756	829	901	974	1047	1120	1193
			357	430	502	575	648	721	794	867	939	1012	1085
150	234.00	bu	532	610	688	766	844	922	1000	1078	1156	1234	1312
			424	502	580	659	737	815	893	971	1049	1127	1205

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 2011 input prices.

Table 4.A Estimated costs per acre
Straight levee rice - zero grade
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	5.75	3.2500	18.69	
App by Air (3 gal)	appl	4.50	0.5000	2.25	
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	
FUNGICIDES					
Stratego	pt	19.31	0.7500	14.48	
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	
Riceshot	pt	3.34	8.0000	26.72	
Facet 75DF	lb	45.50	0.4000	18.20	
Permit 75 DF	oz	17.88	0.5000	8.94	
Clincher SF	oz	1.97	7.5000	14.78	
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	
SEED/PLANTS					
Rice Seed Conv.	lb	0.45	90.0000	40.50	
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.0000	1.55	
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	
HAULING					
Haul Rice/Field	bu	0.26	164.0000	42.64	
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	
OPERATOR LABOR					
Tractors	hour	11.60	0.4510	5.24	
Harvesters	hour	11.60	0.1760	2.04	
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	11.58	0.5643	6.54	
DIESEL FUEL					
Tractors	gal	3.40	4.4111	14.99	
Harvesters	gal	3.40	2.9444	10.01	
Flood Irr.	gal	3.40	15.4779	52.63	
REPAIR & MAINTENANCE					
Implements	acre	6.53	1.0000	6.53	
Tractors	acre	2.02	1.0000	2.02	
Harvesters	acre	4.93	1.0000	4.93	
Flood Irr.	acre	9.56	1.0000	9.56	
INTEREST ON OP. CAP.	acre	8.09	1.0000	8.09	

TOTAL DIRECT EXPENSES				557.14	
FIXED EXPENSES					
Implements	acre	13.82	1.0000	13.82	
Tractors	acre	12.90	1.0000	12.90	
Harvesters	acre	19.75	1.0000	19.75	
Flood Irr.	acre	57.70	1.0000	57.70	

TOTAL FIXED EXPENSES				104.17	

TOTAL SPECIFIED EXPENSES				661.31	

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	164.0000	1093.88	_____
TOTAL INCOME				1093.88	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	20.94	1.0000	20.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	14.48	1.0000	14.48	_____
HERBICIDES	acre	88.64	1.0000	88.64	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
SEED/PLANTS	acre	40.50	1.0000	40.50	_____
ADJUVANTS	acre	1.55	1.0000	1.55	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	42.64	1.0000	42.64	_____
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	11.60	0.6270	7.28	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	_____
DIESEL FUEL	gal	3.40	22.8336	77.63	_____
REPAIR & MAINTENANCE	acre	23.04	1.0000	23.04	_____
INTEREST ON OP. CAP.	acre	8.09	1.0000	8.09	_____
TOTAL DIRECT EXPENSES				557.14	_____
RETURNS ABOVE DIRECT EXPENSES				536.74	_____
TOTAL FIXED EXPENSES				104.17	_____
TOTAL SPECIFIED EXPENSES				661.31	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				432.57	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 75DF	lb					0.4000				
Permit 75 DF	oz					0.5000				
App Fert by Air	cwt			1.00	May	2.5000				
Urea, Solid (46% N)	cwt					2.5000				
App by Air (5 gal)	appl			1.00	May	1.0000				
Karate Z	oz					2.0000				
Rice Management				1.00	May					
RICE MGT. LABOR	hour								0.10	
App by Air (5 gal)	appl			0.50	Jun	0.5000				
Clincher SF	oz					7.5000				
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 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Field Cultivate Fld	32'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Seed Conv.	lb	40.50					0.86	41.36		41.36
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Riceshot	pt	26.72					0.47	27.19		27.19
Facet 75DF	lb	18.20					0.32	18.52		18.52
Permit 75 DF	oz	8.94					0.16	9.10		9.10
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Karate Z	oz	5.46					0.10	5.56		5.56
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	2.88					0.04	2.92		2.92
Clincher SF	oz	14.78					0.21	14.99		14.99
Crop Oil Conc.(Pet.)	pt	1.55					0.02	1.57		1.57
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	4.31					0.05	4.36		4.36
Stratego	pt	14.48					0.15	14.63		14.63
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.64					0.30	42.94		42.94
Dry Rice	bu	65.60					0.46	66.06		66.06
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre		52.63	9.56	9.53		1.14	72.86	57.70	130.56
TOTALS		415.58	77.63	23.04	32.80	0.00	8.09	557.14	104.17	661.31

Note: Cost of production estimates are based on 2011 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, 2012

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	1093.88	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	2.88	6.56	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	14.48	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	53.86	14.78	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	40.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.64	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	2.91	0.00	0.00	0.00	0.00	0.00	7.01	3.18	4.08	4.08	8.20	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	16.28	13.85	13.85	13.85	10.38	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	3.53	6.11	1.23	1.23	7.06	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	1.86	3.27	1.14	0.45	0.95	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	89.18	187.45	82.33	43.38	134.83	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-89.18	-187.45	-82.33	-43.38	959.05	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-98.42	-285.87	-368.20	-411.58	547.47	536.74

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	82.00	bu	-92	-65	-37	-10	16	44	71	98	126	153	181
			-196	-169	-141	-114	-87	-59	-32	-5	22	49	76
60	98.40	bu	-21	11	44	77	109	142	175	208	241	274	306
			-125	-92	-59	-27	5	38	71	104	137	169	202
70	114.80	bu	49	88	126	164	202	241	279	317	356	394	432
			-54	-16	22	60	98	137	175	213	251	290	328
80	131.20	bu	120	164	208	252	296	339	383	427	471	514	558
			16	60	104	148	191	235	279	323	366	410	454
90	147.60	bu	192	241	290	339	389	438	487	536	585	635	684
			87	137	186	235	284	334	383	432	481	530	580
100	164.00	bu	263	317	372	427	482	536	591	646	700	755	810
			159	213	268	323	377	432	487	541	596	651	706
110	180.40	bu	334	394	454	514	575	635	695	755	815	875	936
			230	290	350	410	470	531	591	651	711	771	831
120	196.80	bu	405	471	536	602	668	733	799	864	930	996	1061
			301	367	432	498	563	629	695	760	826	892	957
130	213.20	bu	476	547	618	690	761	832	903	974	1045	1116	1187
			372	443	514	585	656	728	799	870	941	1012	1083
140	229.60	bu	547	624	700	777	854	930	1007	1083	1160	1236	1313
			443	520	596	673	749	826	903	979	1056	1132	1209
150	246.00	bu	618	701	783	865	947	1029	1111	1193	1275	1357	1439
			514	596	678	760	842	925	1007	1089	1171	1253	1335

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 2011 input prices.

Table 5.A Estimated costs per acre
Clearfield contour levee rice
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2012

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	5.75	2.2500	12.94	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	_____
FUNGICIDES					
Stratego	pt	19.31	1.0000	19.31	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.29	4.0000	13.16	_____
Clearpath	lb	50.00	0.5000	25.00	_____
Beyond	oz	4.20	1.2500	5.25	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Clearfield	lb	0.94	80.0000	75.20	_____
Rice Seed CF(Levees)	lb	0.94	14.0000	13.16	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.6000	2.48	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.26	148.0000	38.48	_____
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	11.60	0.5757	6.69	_____
Harvesters	hour	11.60	0.2030	2.36	_____
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	11.58	0.5887	6.82	_____
DIESEL FUEL					
Tractors	gal	3.40	5.4144	18.40	_____
Harvesters	gal	3.40	3.3975	11.55	_____
Flood Irr.	gal	3.40	26.8827	91.41	_____
REPAIR & MAINTENANCE					
Implements	acre	6.99	1.0000	6.99	_____
Tractors	acre	2.49	1.0000	2.49	_____
Harvesters	acre	5.69	1.0000	5.69	_____
Flood Irr.	acre	11.55	1.0000	11.55	_____
INTEREST ON OP. CAP.	acre	10.00	1.0000	10.00	_____

TOTAL DIRECT EXPENSES				655.27	_____
FIXED EXPENSES					
Implements	acre	15.08	1.0000	15.08	_____
Tractors	acre	15.85	1.0000	15.85	_____
Harvesters	acre	22.79	1.0000	22.79	_____
Flood Irr.	acre	36.95	1.0000	36.95	_____

TOTAL FIXED EXPENSES				90.67	_____

TOTAL SPECIFIED EXPENSES				745.94	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	148.0000	987.16	_____
TOTAL INCOME				987.16	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.94	1.0000	22.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	19.31	1.0000	19.31	_____
HERBICIDES	acre	63.41	1.0000	63.41	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
SEED/PLANTS	acre	88.36	1.0000	88.36	_____
ADJUVANTS	acre	2.48	1.0000	2.48	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	38.48	1.0000	38.48	_____
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	11.60	0.7788	9.05	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.58	0.5887	6.82	_____
DIESEL FUEL	gal	3.40	35.6946	121.36	_____
REPAIR & MAINTENANCE	acre	26.72	1.0000	26.72	_____
INTEREST ON OP. CAP.	acre	10.00	1.0000	10.00	_____
TOTAL DIRECT EXPENSES				655.27	_____
RETURNS ABOVE DIRECT EXPENSES				331.89	_____
TOTAL FIXED EXPENSES				90.67	_____
TOTAL SPECIFIED EXPENSES				745.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				241.22	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Field Cultivate Fld	32'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Clearfield	lb	75.20					1.60	76.80		76.80
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	13.16					0.28	13.44		13.44
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	13.16					0.28	13.44		13.44
Crop Oil Conc.(Pet.)	pt	1.24					0.03	1.27		1.27
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Clearpath	lb	25.00					0.44	25.44		25.44
Karate Z	oz	5.46					0.10	5.56		5.56
Crop Oil Conc.(Pet.)	pt	1.24					0.02	1.26		1.26
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.44					0.02	1.46		1.46
Beyond	oz	5.25					0.07	5.32		5.32
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	5.75					0.06	5.81		5.81
Stratego	pt	19.31					0.21	19.52		19.52
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (CL)	25' Rigid		11.55	7.99	4.48		0.17	24.19	26.46	50.65
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	38.48					0.27	38.75		38.75
Dry Rice	bu	59.20					0.42	59.62		59.62
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	4.50	94.82	12.18	33.41		2.31	147.22	40.67	187.89
TOTALS		439.91	121.36	26.72	57.28	0.00	10.00	655.27	90.67	745.94

Note: Cost of production estimates are based on 2011 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, 2012

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	987.16	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	5.75	1.44	8.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	19.31	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	33.16	25.00	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	88.36	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.48	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	2.91	0.00	0.00	0.00	0.00	0.00	15.86	7.71	8.61	8.61	10.24	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	24.03	24.93	24.93	24.93	13.12	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.15	6.70	1.82	1.82	8.35	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.81	2.96	1.20	0.69	0.92	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	182.86	169.97	86.07	66.09	130.31	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-182.86	-169.97	-86.07	-66.09	856.85	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-192.10	-362.07	-448.14	-514.23	342.62	331.89

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	74.00	bu	-235	-211	-186	-161	-137	-112	-87	-63	-38	-13	10
			-326	-301	-277	-252	-227	-203	-178	-153	-129	-104	-79
60	88.80	bu	-171	-142	-112	-82	-53	-23	5	35	65	94	124
			-262	-232	-203	-173	-143	-114	-84	-55	-25	4	33
70	103.60	bu	-107	-72	-38	-3	30	65	99	134	168	203	238
			-198	-163	-129	-94	-59	-25	9	43	78	112	147
80	118.40	bu	-43	-3	35	75	114	154	193	233	272	312	351
			-133	-94	-54	-15	23	63	102	142	181	221	260
90	133.20	bu	20	65	109	154	198	243	287	331	376	420	465
			-69	-25	19	63	107	152	196	241	285	330	374
100	148.00	bu	85	134	183	233	282	331	381	430	479	529	578
			-5	43	93	142	191	241	290	339	389	438	488
110	162.80	bu	149	203	257	312	366	420	475	529	583	637	692
			58	112	167	221	275	330	384	438	492	547	601
120	177.60	bu	213	272	331	391	450	509	568	628	687	746	805
			122	182	241	300	359	418	478	537	596	655	715
130	192.40	bu	277	341	406	470	534	598	662	726	791	855	919
			187	251	315	379	443	507	572	636	700	764	828
140	207.20	bu	341	411	480	549	618	687	756	825	894	963	1032
			251	320	389	458	527	596	665	734	804	873	942
150	222.00	bu	406	480	554	628	702	776	850	924	998	1072	1146
			315	389	463	537	611	685	759	833	907	981	1055

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 2011 input prices.

Table 6.A Estimated costs per acre
Clearfield straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2012

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	5.75	2.2500	12.94	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	_____
FUNGICIDES					
Stratego	pt	19.31	1.0000	19.31	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.29	4.0000	13.16	_____
Clearpath	lb	50.00	0.5000	25.00	_____
Beyond	oz	4.20	1.2500	5.25	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Clearfield	lb	0.94	80.0000	75.20	_____
Rice Seed CF(Levees)	lb	0.94	14.0000	13.16	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.6000	2.48	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.26	156.0000	40.56	_____
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	11.60	0.5281	6.13	_____
Harvesters	hour	11.60	0.1760	2.04	_____
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	11.58	0.5643	6.54	_____
DIESEL FUEL					
Tractors	gal	3.40	5.0192	17.07	_____
Harvesters	gal	3.40	2.9444	10.01	_____
Flood Irr.	gal	3.40	21.9949	74.79	_____
REPAIR & MAINTENANCE					
Implements	acre	6.61	1.0000	6.61	_____
Tractors	acre	2.31	1.0000	2.31	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Flood Irr.	acre	11.55	1.0000	11.55	_____
INTEREST ON OP. CAP.	acre	9.53	1.0000	9.53	_____

TOTAL DIRECT EXPENSES				625.42	_____
FIXED EXPENSES					
Implements	acre	14.24	1.0000	14.24	_____
Tractors	acre	14.68	1.0000	14.68	_____
Harvesters	acre	19.75	1.0000	19.75	_____
Flood Irr.	acre	58.23	1.0000	58.23	_____

TOTAL FIXED EXPENSES				106.90	_____

TOTAL SPECIFIED EXPENSES				732.32	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	156.0000	1040.52	_____
TOTAL INCOME				1040.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.94	1.0000	22.94	_____
FERTILIZERS	acre	103.34	1.0000	103.34	_____
FUNGICIDES	acre	19.31	1.0000	19.31	_____
HERBICIDES	acre	63.41	1.0000	63.41	_____
INSECTICIDES	acre	8.19	1.0000	8.19	_____
SEED/PLANTS	acre	88.36	1.0000	88.36	_____
ADJUVANTS	acre	2.48	1.0000	2.48	_____
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	_____
HAULING	acre	40.56	1.0000	40.56	_____
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	11.60	0.7041	8.17	_____
RICE MGT. LABOR	hour	9.06	0.7000	6.34	_____
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	_____
DIESEL FUEL	gal	3.40	29.9586	101.87	_____
REPAIR & MAINTENANCE	acre	25.40	1.0000	25.40	_____
INTEREST ON OP. CAP.	acre	9.53	1.0000	9.53	_____
TOTAL DIRECT EXPENSES				625.42	_____
RETURNS ABOVE DIRECT EXPENSES				415.10	_____
TOTAL FIXED EXPENSES				106.90	_____
TOTAL SPECIFIED EXPENSES				732.32	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				308.20	_____

Note: Cost of production estimates are based on 2011 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, 2012

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 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Field Cultivate Fld	32'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Clearfield	lb	75.20					1.60	76.80		76.80
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	13.16					0.28	13.44		13.44
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	13.16					0.28	13.44		13.44
Crop Oil Conc.(Pet.)	pt	1.24					0.03	1.27		1.27
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Clearpath	lb	25.00					0.44	25.44		25.44
Karate Z	oz	5.46					0.10	5.56		5.56
Crop Oil Conc.(Pet.)	pt	1.24					0.02	1.26		1.26
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.44					0.02	1.46		1.46
Beyond	oz	5.25					0.07	5.32		5.32
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	5.75					0.06	5.81		5.81
Stratego	pt	19.31					0.21	19.52		19.52
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	40.56					0.29	40.85		40.85
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	2.25	76.87	11.92	22.41		1.82	115.27	60.43	175.70
TOTALS		442.94	101.87	25.40	45.68	0.00	9.53	625.42	106.90	732.32

Note: Cost of production estimates are based on 2011 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, 2012

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	1040.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	5.75	1.44	8.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	19.31	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	33.16	25.00	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	88.36	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.56	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	2.91	0.00	0.00	0.00	0.00	0.00	11.91	5.44	6.34	6.34	9.40	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	23.24	19.39	19.39	19.39	11.04	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.27	6.61	1.73	1.73	7.18	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.66	2.82	1.08	0.61	0.94	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	175.84	161.93	78.05	58.11	131.52	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-175.84	-161.93	-78.05	-58.11	909.00	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-185.08	-347.01	-425.06	-483.17	425.83	415.10

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	78.00	bu	-183	-157	-131	-105	-79	-53	-27	-1	24	50	76
			-290	-264	-238	-212	-186	-160	-134	-108	-82	-56	-30
60	93.60	bu	-115	-84	-53	-22	9	40	71	102	134	165	196
			-222	-191	-160	-128	-97	-66	-35	-4	27	58	89
70	109.20	bu	-48	-11	24	61	97	134	170	206	243	279	316
			-154	-118	-82	-45	-9	27	63	99	136	172	209
80	124.80	bu	19	61	102	144	186	227	269	310	352	394	435
			-87	-45	-4	37	79	120	162	204	245	287	328
90	140.40	bu	87	134	180	227	274	321	368	415	461	508	555
			-19	27	74	120	167	214	261	308	354	401	448
100	156.00	bu	154	206	259	311	363	415	467	519	571	623	675
			48	100	152	204	256	308	360	412	464	516	568
110	171.60	bu	222	279	337	394	451	508	566	623	680	737	794
			115	172	230	287	344	401	459	516	573	630	688
120	187.20	bu	290	352	415	477	540	602	664	727	789	852	914
			183	245	308	370	433	495	557	620	682	745	807
130	202.80	bu	357	425	493	560	628	696	763	831	899	966	1034
			251	318	386	453	521	589	656	724	792	859	927
140	218.40	bu	425	498	571	644	716	789	862	935	1008	1081	1154
			318	391	464	537	610	682	755	828	901	974	1047
150	234.00	bu	493	571	649	727	805	883	961	1039	1117	1195	1273
			386	464	542	620	698	776	854	932	1010	1088	1166

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 2011 input prices.

Table 7.A Estimated costs per acre
Clearfield straight levee multi inlet rice
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2012

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	5.75	2.2500	12.94	
App by Air (3 gal)	appl	4.50	0.5000	2.25	
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	
FUNGICIDES					
Stratego	pt	19.31	1.0000	19.31	
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	
Newpath 2SL	oz	3.29	4.0000	13.16	
Clearpath	lb	50.00	0.5000	25.00	
Beyond	oz	4.20	1.2500	5.25	
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	
SEED/PLANTS					
Rice Clearfield	lb	0.94	80.0000	75.20	
Rice Seed CF(Levees)	lb	0.94	14.0000	13.16	
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.6000	2.48	
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	
HAULING					
Haul Rice/Field	bu	0.26	156.0000	40.56	
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	11.60	0.5563	6.45	
Harvesters	hour	11.60	0.1760	2.04	
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	11.58	0.5643	6.54	
DIESEL FUEL					
Tractors	gal	3.40	5.2074	17.70	
Harvesters	gal	3.40	2.9444	10.01	
Flood Irr.	gal	3.40	18.7364	63.71	
REPAIR & MAINTENANCE					
Implements	acre	6.66	1.0000	6.66	
Tractors	acre	2.40	1.0000	2.40	
Harvesters	acre	4.93	1.0000	4.93	
Flood Irr.	acre	11.25	1.0000	11.25	
INTEREST ON OP. CAP.	acre	9.34	1.0000	9.34	

TOTAL DIRECT EXPENSES				610.54	
FIXED EXPENSES					
Implements	acre	14.66	1.0000	14.66	
Tractors	acre	15.20	1.0000	15.20	
Harvesters	acre	19.75	1.0000	19.75	
Flood Irr.	acre	57.96	1.0000	57.96	

TOTAL FIXED EXPENSES				107.57	

TOTAL SPECIFIED EXPENSES				718.11	

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	156.0000	1040.52	
TOTAL INCOME				1040.52	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.94	1.0000	22.94	
FERTILIZERS	acre	103.34	1.0000	103.34	
FUNGICIDES	acre	19.31	1.0000	19.31	
HERBICIDES	acre	63.41	1.0000	63.41	
INSECTICIDES	acre	8.19	1.0000	8.19	
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	
SEED/PLANTS	acre	88.36	1.0000	88.36	
ADJUVANTS	acre	2.48	1.0000	2.48	
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	
HAULING	acre	40.56	1.0000	40.56	
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	11.60	0.7323	8.49	
RICE MGT. LABOR	hour	9.06	0.7000	6.34	
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	
DIESEL FUEL	gal	3.40	26.8883	91.42	
REPAIR & MAINTENANCE	acre	25.24	1.0000	25.24	
INTEREST ON OP. CAP.	acre	9.34	1.0000	9.34	
TOTAL DIRECT EXPENSES				610.54	
RETURNS ABOVE DIRECT EXPENSES				429.98	
TOTAL FIXED EXPENSES				107.57	
TOTAL SPECIFIED EXPENSES				718.11	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				322.41	

Note: Cost of production estimates are based on 2011 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, 2012

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 2011 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, 2012

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'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Clearfield	lb	75.20					1.60	76.80		76.80
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	13.16					0.28	13.44		13.44
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	13.16					0.28	13.44		13.44
Crop Oil Conc.(Pet.)	pt	1.24					0.03	1.27		1.27
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Clearpath	lb	25.00					0.44	25.44		25.44
Karate Z	oz	5.46					0.10	5.56		5.56
Crop Oil Conc.(Pet.)	pt	1.24					0.02	1.26		1.26
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.44					0.02	1.46		1.46
Beyond	oz	5.25					0.07	5.32		5.32
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	5.75					0.06	5.81		5.81
Stratego	pt	19.31					0.21	19.52		19.52
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	40.56					0.29	40.85		40.85
Dry Rice	bu	62.40					0.44	62.84		62.84
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	8.85	66.42	11.76	11.73		1.63	100.39	61.10	161.49
TOTALS		449.54	91.42	25.24	35.00	0.00	9.34	610.54	107.57	718.11

Note: Cost of production estimates are based on 2011 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, 2012

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	1040.52	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	5.75	1.44	8.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	19.31	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	33.16	25.00	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	88.36	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.56	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	2.91	0.00	0.00	0.00	0.00	0.00	9.67	2.72	3.62	3.62	9.12	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	20.96	16.62	16.62	16.62	11.18	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.29	6.54	1.66	1.66	7.21	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.71	2.72	1.01	0.55	0.93	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	177.99	156.27	72.42	52.49	131.40	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-177.99	-156.27	-72.42	-52.49	909.12	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-187.23	-343.50	-415.92	-468.41	440.71	429.98

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT									
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE									
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars									
50	78.00	bu	-168	-142	-116	-90	-64	-38	-12	13	39	65	91
			-276	-250	-224	-198	-172	-146	-119	-93	-67	-41	-15
60	93.60	bu	-100	-69	-38	-7	24	55	86	117	148	180	211
			-208	-177	-145	-114	-83	-52	-21	10	41	72	103
70	109.20	bu	-33	3	39	76	112	148	185	221	258	294	331
			-140	-104	-67	-31	4	41	77	114	150	187	223
80	124.80	bu	34	76	117	159	200	242	284	325	367	409	450
			-73	-31	10	51	93	135	176	218	259	301	343
90	140.40	bu	102	149	195	242	289	336	383	429	476	523	570
			-5	41	88	135	181	228	275	322	369	416	462
100	156.00	bu	169	221	273	325	377	429	482	534	586	638	690
			62	114	166	218	270	322	374	426	478	530	582
110	171.60	bu	237	294	351	409	466	523	580	638	695	752	809
			129	187	244	301	358	416	473	530	587	645	702
120	187.20	bu	305	367	430	492	554	617	679	742	804	867	929
			197	260	322	384	447	509	572	634	697	759	821
130	202.80	bu	372	440	508	575	643	711	778	846	913	981	1049
			265	332	400	468	535	603	671	738	806	873	941
140	218.40	bu	440	513	586	659	731	804	877	950	1023	1096	1168
			332	405	478	551	624	697	769	842	915	988	1061
150	234.00	bu	508	586	664	742	820	898	976	1054	1132	1210	1288
			400	478	556	634	712	790	868	946	1024	1102	1181

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 2011 input prices.

Table 8.A Estimated costs per acre
Clearfield straight levee-zero grade rice
Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2012

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	5.75	2.2500	12.94	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	4.0000	89.16	_____
FUNGICIDES					
Stratego	pt	19.31	1.0000	19.31	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.29	4.0000	13.16	_____
Clearpath	lb	50.00	0.5000	25.00	_____
Beyond	oz	4.20	1.2500	5.25	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Clearfield	lb	0.94	80.0000	75.20	_____
Rice Seed CF(Levees)	lb	0.94	14.0000	13.16	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.6000	2.48	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.7500	29.69	_____
HAULING					
Haul Rice/Field	bu	0.26	164.0000	42.64	_____
DRYING					
Dry Rice	bu	0.40	164.0000	65.60	_____
OPERATOR LABOR					
Tractors	hour	11.60	0.4510	5.24	_____
Harvesters	hour	11.60	0.1760	2.04	_____
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	11.58	0.5643	6.54	_____
DIESEL FUEL					
Tractors	gal	3.40	4.4111	14.99	_____
Harvesters	gal	3.40	2.9444	10.01	_____
Flood Irr.	gal	3.40	15.4779	52.63	_____
REPAIR & MAINTENANCE					
Implements	acre	6.53	1.0000	6.53	_____
Tractors	acre	2.02	1.0000	2.02	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Flood Irr.	acre	9.56	1.0000	9.56	_____
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	_____
TOTAL DIRECT EXPENSES				588.32	_____
FIXED EXPENSES					
Implements	acre	13.82	1.0000	13.82	_____
Tractors	acre	12.90	1.0000	12.90	_____
Harvesters	acre	19.75	1.0000	19.75	_____
Flood Irr.	acre	57.70	1.0000	57.70	_____
TOTAL FIXED EXPENSES				104.17	_____
TOTAL SPECIFIED EXPENSES				692.49	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	164.0000	1093.88	
TOTAL INCOME				1093.88	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.94	1.0000	22.94	
FERTILIZERS	acre	103.34	1.0000	103.34	
FUNGICIDES	acre	19.31	1.0000	19.31	
HERBICIDES	acre	63.41	1.0000	63.41	
INSECTICIDES	acre	8.19	1.0000	8.19	
SEED/PLANTS	acre	88.36	1.0000	88.36	
ADJUVANTS	acre	2.48	1.0000	2.48	
CUSTOM FERTILIZE	acre	29.70	1.0000	29.70	
HAULING	acre	42.64	1.0000	42.64	
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	11.60	0.6270	7.28	
RICE MGT. LABOR	hour	9.06	0.7000	6.34	
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	
DIESEL FUEL	gal	3.40	22.8336	77.63	
REPAIR & MAINTENANCE	acre	23.04	1.0000	23.04	
INTEREST ON OP. CAP.	acre	8.88	1.0000	8.88	
TOTAL DIRECT EXPENSES				588.32	
RETURNS ABOVE DIRECT EXPENSES				505.56	
TOTAL FIXED EXPENSES				104.17	
TOTAL SPECIFIED EXPENSES				692.49	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				401.39	

Note: Cost of production estimates are based on 2011 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, 2012

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 2011 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, 2012

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'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Clearfield	lb	75.20					1.60	76.80		76.80
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CF(Levees)	lb	13.16					0.28	13.44		13.44
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	13.16					0.28	13.44		13.44
Crop Oil Conc.(Pet.)	pt	1.24					0.03	1.27		1.27
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App Fert by Air	cwt	15.63					0.28	15.91		15.91
Urea, Solid (46% N)	cwt	55.72					0.99	56.71		56.71
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Clearpath	lb	25.00					0.44	25.44		25.44
Karate Z	oz	5.46					0.10	5.56		5.56
Crop Oil Conc.(Pet.)	pt	1.24					0.02	1.26		1.26
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.44					0.02	1.46		1.46
Beyond	oz	5.25					0.07	5.32		5.32
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	9.38					0.13	9.51		9.51
Urea, Solid (46% N)	cwt	33.44					0.47	33.91		33.91
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (5 gal)	appl	5.75					0.06	5.81		5.81
Stratego	pt	19.31					0.21	19.52		19.52
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	42.64					0.30	42.94		42.94
Dry Rice	bu	65.60					0.46	66.06		66.06
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre		52.63	9.56	9.53		1.14	72.86	57.70	130.56
TOTALS		445.97	77.63	23.04	32.80	0.00	8.88	588.32	104.17	692.49

Note: Cost of production estimates are based on 2011 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, 2012

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	1093.88	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	5.75	1.44	8.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.90	33.44	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	19.31	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	33.16	25.00	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	88.36	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.32	9.38	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.64	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	2.91	0.00	0.00	0.00	0.00	0.00	7.01	3.18	4.08	4.08	8.20	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	16.28	13.85	13.85	13.85	10.38	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	3.53	6.11	1.23	1.23	7.06	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	3.35	2.68	0.96	0.52	0.95	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	160.68	153.49	69.63	49.72	134.83	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-160.68	-153.49	-69.63	-49.72	959.05	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-169.92	-323.41	-393.04	-442.76	516.29	505.56

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	82.00	bu	-123	-96	-68	-41	-14	13	40	67	95	122	149
			-227	-200	-173	-145	-118	-91	-63	-36	-9	18	45
60	98.40	bu	-52	-19	13	45	78	111	144	177	210	242	275
			-156	-123	-91	-58	-25	7	40	73	105	138	171
70	114.80	bu	18	56	95	133	171	210	248	286	324	363	401
			-85	-47	-8	29	67	105	144	182	220	259	297
80	131.20	bu	89	133	177	221	264	308	352	396	439	483	527
			-14	29	73	116	160	204	248	291	335	379	423
90	147.60	bu	160	210	259	308	357	407	456	505	554	603	653
			56	106	155	204	253	302	352	401	450	499	549
100	164.00	bu	232	286	341	396	450	505	560	614	669	724	779
			127	182	237	292	346	401	456	510	565	620	674
110	180.40	bu	303	363	423	483	543	604	664	724	784	844	904
			199	259	319	379	439	499	560	620	680	740	800
120	196.80	bu	374	440	505	571	636	702	768	833	899	965	1030
			270	335	401	467	532	598	663	729	795	860	926
130	213.20	bu	445	516	587	658	729	801	872	943	1014	1085	1156
			341	412	483	554	625	696	767	839	910	981	1052
140	229.60	bu	516	593	669	746	822	899	976	1052	1129	1205	1282
			412	489	565	642	718	795	871	948	1025	1101	1178
150	246.00	bu	587	669	751	833	915	998	1080	1162	1244	1326	1408
			483	565	647	729	811	893	975	1057	1139	1221	1304

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 2011 input prices.

Table 9.A Estimated costs per acre
Clearfield hybrid straight levee rice
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2012

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	5.75	1.2500	7.19	_____
App by Air (3 gal)	appl	4.50	0.5000	2.25	_____
FERTILIZERS					
Amm Sulfate (21% N)	cwt	18.90	0.7500	14.18	_____
Urea, Solid (46% N)	cwt	22.29	3.6700	81.80	_____
HERBICIDES					
Command 3ME	pt	14.75	1.0000	14.75	_____
Glyphosate 3lbs a.e.	pt	1.75	3.0000	5.25	_____
Newpath 2SL	oz	3.29	4.0000	13.16	_____
Clearpath	lb	50.00	0.5000	25.00	_____
Beyond	oz	4.20	1.2500	5.25	_____
INSECTICIDES					
Karate Z	oz	2.73	3.0000	8.19	_____
SEED/PLANTS					
Rice Clearfield Hyb	lb	5.70	25.0000	142.50	_____
Rice Seed CFH(Levee)	lb	5.70	14.0000	79.80	_____
ADJUVANTS					
Crop Oil Conc.(Pet.)	pt	1.55	1.6000	2.48	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	4.4200	27.63	_____
HAULING					
Haul Rice/Field	bu	0.26	179.0000	46.54	_____
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	11.60	0.5281	6.13	_____
Harvesters	hour	11.60	0.1760	2.04	_____
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	11.58	0.5643	6.54	_____
DIESEL FUEL					
Tractors	gal	3.40	5.0192	17.07	_____
Harvesters	gal	3.40	2.9444	10.01	_____
Flood Irr.	gal	3.40	21.9949	74.79	_____
REPAIR & MAINTENANCE					
Implements	acre	6.61	1.0000	6.61	_____
Tractors	acre	2.31	1.0000	2.31	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Flood Irr.	acre	11.55	1.0000	11.55	_____
INTEREST ON OP. CAP.	acre	12.11	1.0000	12.11	_____

TOTAL DIRECT EXPENSES				742.63	_____
FIXED EXPENSES					
Implements	acre	14.24	1.0000	14.24	_____
Tractors	acre	14.68	1.0000	14.68	_____
Harvesters	acre	19.75	1.0000	19.75	_____
Flood Irr.	acre	58.23	1.0000	58.23	_____

TOTAL FIXED EXPENSES				106.90	_____

TOTAL SPECIFIED EXPENSES				849.53	_____

Note: Cost of production estimates are based on 2011 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, 2012

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.67	179.0000	1193.93	
TOTAL INCOME				1193.93	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	17.19	1.0000	17.19	
FERTILIZERS	acre	95.98	1.0000	95.98	
HERBICIDES	acre	63.41	1.0000	63.41	
INSECTICIDES	acre	8.19	1.0000	8.19	
SEED/PLANTS	acre	222.30	1.0000	222.30	
ADJUVANTS	acre	2.48	1.0000	2.48	
CUSTOM FERTILIZE	acre	27.63	1.0000	27.63	
HAULING	acre	46.54	1.0000	46.54	
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	11.60	0.7041	8.17	
RICE MGT. LABOR	hour	9.06	0.7000	6.34	
UNALLOCATED LABOR	hour	11.58	0.5643	6.54	
DIESEL FUEL	gal	3.40	29.9586	101.87	
REPAIR & MAINTENANCE	acre	25.40	1.0000	25.40	
INTEREST ON OP. CAP.	acre	12.11	1.0000	12.11	
TOTAL DIRECT EXPENSES				742.63	
RETURNS ABOVE DIRECT EXPENSES				451.30	
TOTAL FIXED EXPENSES				106.90	
TOTAL SPECIFIED EXPENSES				849.53	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				344.40	

Note: Cost of production estimates are based on 2011 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, 2012

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 2011 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, 2012

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'		3.10	1.18	2.05		0.27	6.60	5.95	12.55
Harrow - Folding	40'		1.29	0.38	0.86		0.11	2.64	1.43	4.07
Grain Drill	24'		2.61	1.85	2.44		0.15	7.05	5.17	12.22
Rice Clearfield Hyb	lb	142.50					3.03	145.53		145.53
Roller/Cultipacker	30'		1.65	0.41	1.10		0.07	3.23	1.68	4.91
Spray (Broadcast)	60'		0.94	0.28	0.75		0.04	2.01	0.99	3.00
Command 3ME	pt	14.75					0.31	15.06		15.06
Glyphosate 3lbs a.e.	pt	5.25					0.11	5.36		5.36
Seed Levees										
Rice Seed CFH(Levee)	lb	79.80					1.70	81.50		81.50
App by Air (10 gal)	appl	7.75					0.16	7.91		7.91
Newpath 2SL	oz	13.16					0.28	13.44		13.44
Crop Oil Conc.(Pet.)	pt	1.24					0.03	1.27		1.27
App Fert by Air	cwt	4.69					0.08	4.77		4.77
Amm Sulfate (21% N)	cwt	14.18					0.25	14.43		14.43
App Fert by Air	cwt	16.69					0.30	16.99		16.99
Urea, Solid (46% N)	cwt	59.51					1.05	60.56		60.56
App by Air (5 gal)	appl	5.75					0.10	5.85		5.85
Clearpath	lb	25.00					0.44	25.44		25.44
Karate Z	oz	5.46					0.10	5.56		5.56
Crop Oil Conc.(Pet.)	pt	1.24					0.02	1.26		1.26
Rice Management										
RICE MGT. LABOR	hour				0.91		0.02	0.93		0.93
App by Air (5 gal)	appl	1.44					0.02	1.46		1.46
Beyond	oz	5.25					0.07	5.32		5.32
Rice Management										
RICE MGT. LABOR	hour				1.81		0.03	1.84		1.84
App Fert by Air	cwt	6.25					0.09	6.34		6.34
Urea, Solid (46% N)	cwt	22.29					0.32	22.61		22.61
Rice Management										
RICE MGT. LABOR	hour				1.81		0.02	1.83		1.83
App by Air (3 gal)	appl	2.25					0.02	2.27		2.27
Karate Z	oz	2.73					0.03	2.76		2.76
Rice Management										
RICE MGT. LABOR	hour				1.81		0.01	1.82		1.82
Header - Draper (SL)	25' Rigid		10.01	6.93	3.88		0.15	20.97	22.93	43.90
Grain Cart Rice	700 bu		0.37	0.13	0.24		0.01	0.75	0.46	1.21
Handling & Storage										
HAND LABOR	hour				2.27		0.02	2.29		2.29
Haul Rice/Field	bu	46.54					0.33	46.87		46.87
Dry Rice	bu	71.60					0.51	72.11		72.11
Disk Heavy	28'		5.03	2.32	3.34		0.04	10.73	7.86	18.59
Flood Irr.	acre	2.25	76.87	11.92	22.41		1.82	115.27	60.43	175.70
TOTALS		557.57	101.87	25.40	45.68	0.00	12.11	742.63	106.90	849.53

Note: Cost of production estimates are based on 2011 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, 2012

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	1193.93	0.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	7.75	5.75	1.44	2.25	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.69	22.29	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	33.16	25.00	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.46	0.00	2.73	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	222.30	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.38	6.25	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.54	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	2.91	0.00	0.00	0.00	0.00	0.00	11.91	5.44	6.34	6.34	9.40	3.34
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	4.39	0.00	0.00	0.00	0.00	0.00	23.24	19.39	19.39	19.39	11.04	5.03
REPAIR & MAINTENANCE	1.56	0.00	0.00	0.00	0.00	0.00	4.27	6.61	1.73	1.73	7.18	2.32
INTEREST ON OP. CAP.	0.38	0.00	0.00	0.00	0.00	0.00	6.51	2.90	0.89	0.34	1.05	0.04
TOTAL DIRECT EXPENSES	9.24	0.00	0.00	0.00	0.00	0.00	312.63	166.86	63.58	32.78	146.81	10.73
NET INCOME	-9.24	0.00	0.00	0.00	0.00	0.00	-312.63	-166.86	-63.58	-32.78	1047.12	-10.73
NET INCOME TO DATE	-9.24	-9.24	-9.24	-9.24	-9.24	-9.24	-321.87	-488.73	-552.31	-585.09	462.03	451.30

Note: Cost of production estimates are based on 2011 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, 2012

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			5.00	5.33	5.66	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33
PERCENT	YIELD	UNIT	dollars										
50	89.50	bu	-235	-205	-175	-145	-116	-86	-56	-26	3	33	63
			-342	-312	-282	-252	-222	-193	-163	-133	-103	-73	-43
60	107.40	bu	-157	-121	-86	-50	-14	21	57	92	128	164	200
			-264	-228	-193	-157	-121	-85	-49	-13	21	57	93
70	125.30	bu	-80	-38	3	45	87	128	170	212	254	295	337
			-187	-145	-103	-61	-19	21	63	105	147	189	230
80	143.20	bu	-2	45	93	140	188	236	284	331	379	427	475
			-109	-61	-13	33	81	129	177	224	272	320	368
90	161.10	bu	75	128	182	236	290	343	397	451	504	558	612
			-31	21	75	129	183	236	290	344	398	451	505
100	179.00	bu	152	212	272	331	391	451	510	570	630	690	749
			45	105	165	225	284	344	404	463	523	583	642
110	196.90	bu	230	296	361	427	493	558	624	690	755	821	887
			123	189	254	320	386	451	517	583	648	714	780
120	214.80	bu	308	379	451	523	594	666	737	809	881	952	1024
			201	272	344	416	487	559	631	702	774	845	917
130	232.70	bu	385	463	540	618	696	773	851	928	1006	1084	1161
			278	356	434	511	589	666	744	822	899	977	1054
140	250.60	bu	463	546	630	714	797	881	964	1048	1132	1215	1299
			356	440	523	607	690	774	857	941	1025	1108	1192
150	268.50	bu	541	630	720	809	899	988	1078	1167	1257	1346	1436
			434	523	613	702	792	881	971	1060	1150	1240	1329

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 2011 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, 2012

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	241,000	300	8	13.64	11.60	46.37	25.10	83.08	100.53	183.61
Combine (300-349 hp)	325 hp	269,000	300	8	16.73	11.60	56.88	28.02	96.50	112.22	208.72
Combine (350-399 hp)	355 hp	288,000	300	8	18.27	11.60	62.11	30.00	103.71	120.14	223.86
Combine (400-449 hp)	425 hp	321,000	300	8	21.87	11.60	74.37	33.43	119.41	133.91	253.32
Combine (450-499hp)	475 hp	342,000	300	8	24.44	11.60	83.12	35.62	130.35	142.67	273.02
Cotton Stripper	173 hp	157,000	200	8	8.08	11.60	27.47	24.53	63.60	98.24	161.84
Tractor(20-39hp)CB	MFWD 30	24,700	600	8	1.54	11.60	5.24	0.77	17.62	4.72	22.34
Tractor(20-39hp)RB	MFWD 30	19,000	600	8	1.54	11.60	5.24	0.59	17.44	3.63	21.07
Tractor(40-59hp)CB	2WD 50	31,500	600	8	2.57	11.60	8.75	0.98	21.33	6.02	27.36
Tractor(40-59hp)CB	MFWD 50	32,900	600	8	2.57	11.60	8.75	1.02	21.37	6.29	27.67
Tractor(40-59hp)RB	2WD 50	25,500	600	8	2.57	11.60	8.75	0.79	21.14	4.87	26.02
Tractor(40-59hp)RB	MFWD 50	30,100	600	8	2.57	11.60	8.75	0.94	21.29	5.75	27.04
Tractor(60-89hp)CB	2WD 75	42,100	600	8	3.86	11.60	13.12	1.31	26.04	8.05	34.09
Tractor(60-89hp)CB	MFWD 75	46,600	600	8	3.86	11.60	13.12	1.45	26.18	8.91	35.09
Tractor(60-89hp)RB	2WD 75	35,600	600	8	3.86	11.60	13.12	1.11	25.83	6.80	32.64
Tractor(60-89hp)RB	MFWD 75	39,300	600	8	3.86	11.60	13.12	1.22	25.95	7.51	33.47
Tractor(90-119hp)CB	2WD 105	65,300	600	8	5.40	11.60	18.37	2.04	32.01	12.49	44.50
Tractor(90-119hp)CB	MFWD 105	69,600	600	8	5.40	11.60	18.37	2.17	32.15	13.31	45.46
Tractor(90-119hp)RB	2WD 105	52,700	600	8	5.40	11.60	18.37	1.64	31.62	10.08	41.70
Tractor(90-119hp)RB	MFWD 105	55,500	600	8	5.40	11.60	18.37	1.73	31.71	10.61	42.32
Tractor(120-139hp)CB	2WD 130	97,500	600	8	6.69	11.60	22.75	3.04	37.39	18.65	56.04
Tractor(120-139hp)CB	MFWD 130	98,000	600	8	6.69	11.60	22.75	3.06	37.41	18.74	56.15
Tractor(140-159hp)CB	2WD 150	113,000	600	8	7.72	11.60	26.25	3.53	41.38	21.61	62.99
Tractor(140-159hp)CB	MFWD 150	122,000	600	8	7.72	11.60	26.25	3.81	41.66	23.33	65.00
Tractor(160-179hp)CB	2WD 170	119,000	600	8	8.75	11.60	29.75	3.71	45.06	23.79	68.86
Tractor(160-179hp)CB	MFWD 170	135,000	600	8	8.75	11.60	29.75	4.21	45.56	26.99	72.56
Tractor(180-199hp)CB	MFWD 190	143,000	600	8	9.77	11.60	33.25	4.46	49.32	28.59	77.91
Tractor(200-249hp)CB	MFWD 225	191,000	600	8	11.58	11.60	39.37	5.96	56.94	38.18	95.13
Tractor(200-249hp)CB	Track 225	212,000	600	8	11.58	11.60	39.37	6.62	57.60	42.38	99.98
Tractor(250-349hp)CB	4WD 300	211,000	600	8	15.44	11.60	52.50	6.59	70.69	42.18	112.88
Tractor(250-349hp)CB	MFWD 300	246,000	600	8	15.44	11.60	52.50	7.68	71.78	49.18	120.97
Tractor(250-349hp)CB	Track 300	225,000	600	8	15.44	11.60	52.50	7.03	71.13	44.98	116.11
Tractor(350-449hp)CB	4WD 400	245,000	600	8	20.58	11.60	70.00	7.65	89.25	48.98	138.24
Tractor(350-449hp)CB	Track 400	305,000	600	8	20.58	11.60	70.00	9.53	91.13	60.98	152.11
Tractor(450-550hp)CB	4WD 500	294,000	600	8	25.73	11.60	87.50	9.18	108.28	58.78	167.07
Tractor(450-550hp)CB	Track 500	347,000	600	8	25.73	11.60	87.50	10.84	109.94	69.37	179.32
Utility Vehicle	500 CC	6,500	200	8	0.40	11.60	1.40	1.01	14.01	4.06	18.08
Utility Vehicle	800 CC	7,600	200	8	0.70	11.60	2.45	1.18	15.23	4.75	19.99
Utility Vehicle-mule	600 CC	9,800	200	8	0.50	11.60	1.75	1.53	14.88	6.13	21.01

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, 2012

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	$/acre					
Backhoe	2WD Cab	75,218	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	20.05	17.90	44.71	71.70	116.42
Cotton Picker	4R-38(255)	267,000	200	8	13.12	0.257	5.32	11.50	10.75	27.58	43.06	70.65
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	5.32	15.78	14.13	35.25	56.61	91.87
Cotton Picker	4R2x1(350)	274,000	200	8	18.01	0.172	3.55	10.55	7.37	21.49	29.54	51.03
Cotton Picker	6R-30(355)	429,000	200	8	18.27	0.218	4.50	13.55	14.62	32.69	58.58	91.28
Cotton Picker	6R-38(355)	429,000	200	8	18.27	0.172	3.55	10.70	11.55	25.81	46.25	72.07
Cotton Picker/Module	4R-38(365)	470,000	200	8	18.78	0.257	5.32	16.46	18.93	40.72	75.81	116.53
Cotton Picker/Module	6R-30(365)	521,000	200	8	18.78	0.218	4.50	13.94	17.76	36.21	71.15	107.37
Cotton Picker/Module	6R-30(500)	600,000	200	8	25.73	0.218	4.50	19.09	20.46	44.06	81.94	126.01
Cotton Picker/Module	6R-38(365)	523,000	200	8	18.78	0.172	3.55	11.00	14.08	28.64	56.39	85.03
Cotton Picker/Module	6R-38(500)	601,000	200	8	25.73	0.172	3.55	15.07	16.18	34.81	64.80	99.62
Dry Applicator SP	70'300cuft	282,000	350	8	16.98	0.015	0.24	0.87	0.22	1.34	1.52	2.86
Sprayer 110Gal	30' 50hp	40,300	350	8	2.41	0.035	0.56	0.29	0.07	0.93	0.50	1.44
Sprayer 300-450gal	60' 125hp	98,100	350	8	5.66	0.017	0.28	0.33	0.09	0.71	0.61	1.33
Sprayer 300-450gal	80' 125hp	102,000	350	8	6.43	0.013	0.21	0.28	0.07	0.57	0.48	1.05
Sprayer 600-750gal	60' 175hp	154,000	350	8	9.00	0.017	0.28	0.53	0.14	0.96	0.97	1.94
Sprayer 600-825gal	80' 175hp	154,000	350	8	11.81	0.013	0.21	0.53	0.10	0.85	0.72	1.58
Sprayer 600-825gal	90' 250hp	223,000	350	8	12.73	0.011	0.18	0.50	0.14	0.83	0.93	1.77
Sprayer 800gal	100' 250hp	224,000	350	8	14.15	0.010	0.17	0.50	0.12	0.80	0.84	1.65
Sprayer 800gal	80' 250hp	213,000	350	8	12.86	0.013	0.21	0.57	0.15	0.94	1.00	1.94
Sprayer 1000-1400gal	90' 275hp	256,000	350	8	14.15	0.010	0.17	0.50	0.14	0.82	0.96	1.79
Sprayer 1000gal	100' 300hp	257,000	350	8	15.44	0.010	0.17	0.55	0.14	0.87	0.97	1.84
Sprayer 1200+gal	120' 300hp	266,000	350	8	15.44	0.008	0.14	0.46	0.12	0.73	0.83	1.56
Utility Vehicle	20'	11,100	200	8	0.50	0.052	0.85	0.09	0.09	1.03	0.36	1.40
Utility Vehicle	75"ropewic	7,100	200	8	0.40	0.170	2.75	0.23	0.18	3.17	0.75	3.93

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, 2012

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Bed-Disk (Hipper)	4R-38	MFWD 150	7,970	160	10	0.147	1.71	3.87	0.29	0.56	6.44	0.79	3.44	10.68
Bed-Disk (Hipper)	6R-30	MFWD 170	10,904	160	10	0.125	1.45	3.71	0.34	0.52	6.03	0.91	3.37	10.32
Bed-Disk (Hipper)	6R-38	MFWD 170	12,600	160	10	0.098	1.14	2.93	0.31	0.41	4.80	0.83	2.66	8.30
Bed-Disk (Hipper)	8R-30	MFWD 190	14,400	160	10	0.093	1.08	3.11	0.33	0.41	4.96	0.90	2.68	8.54
Bed-Disk (Hipper)	8R-38 2x1	MFWD 190	27,700	160	10	0.049	0.57	1.64	0.34	0.22	2.77	0.91	1.41	5.10
Bed-Disk (Hipper)	10R-30	MFWD 225	22,900	160	10	0.075	0.87	2.95	0.42	0.44	4.70	1.15	2.86	8.71
Bed-Disk (Hipper)	10R-38	MFWD 225	23,700	160	10	0.059	0.68	2.32	0.35	0.35	3.71	0.94	2.25	6.91
Bed-Disk (Hipper)	12R-30	MFWD 225	27,300	160	10	0.062	0.72	2.46	0.42	0.37	3.98	1.14	2.38	7.51
Bed-Disk (Hipper)	12R-38	MFWD 225	27,700	160	10	0.049	0.57	1.94	0.34	0.29	3.15	0.91	1.88	5.95
Bed-Disk (Hipper)Fl	8R-38	MFWD 190	17,700	160	10	0.074	0.85	2.46	0.32	0.33	3.98	0.88	2.11	6.98
Bed-Disk (Hipper)Rd	8R-38	MFWD 190	15,100	160	10	0.074	0.85	2.46	0.27	0.33	3.93	0.75	2.11	6.80
Bed-Disk w/roller	8R-30	MFWD 190	20,700	160	10	0.093	1.08	3.11	0.48	0.41	5.10	1.30	2.68	9.09
Bed-Disk w/roller	12R-30	MFWD 225	34,500	160	10	0.062	0.72	2.46	0.53	0.37	4.09	1.44	2.38	7.93
Bed-Disk w/roller	8R-38	MFWD 190	23,100	160	10	0.074	0.85	2.46	0.42	0.33	4.08	1.15	2.11	7.35
Bed-Middle Buster	4R-38	MFWD 150	10,600	160	8	0.228	2.64	5.99	0.56	0.87	10.08	1.81	5.32	17.22
Bed-Middle Buster	6R-38	MFWD 150	12,700	160	8	0.120	1.39	3.15	0.35	0.45	5.36	1.14	2.80	9.31
Bed-Middle Buster	8R-30	MFWD 190	20,600	160	8	0.114	1.32	3.79	0.55	0.51	6.18	1.76	3.26	11.21
Bed-Middle Buster	8R-38	MFWD 190	18,000	160	8	0.090	1.04	3.00	0.38	0.40	4.83	1.21	2.58	8.63
Bed-Middle Buster	8R-38 2x1	MFWD 190	28,900	160	8	0.060	0.69	1.99	0.40	0.26	3.37	1.30	1.71	6.39
Bed-Middle Buster	10R-30	MFWD 225	29,300	160	8	0.091	1.05	3.59	0.62	0.54	5.82	2.00	3.48	11.32
Bed-Middle Buster	10R-38	MFWD 225	32,100	160	8	0.072	0.83	2.83	0.54	0.42	4.64	1.73	2.75	9.12
Bed-Middle Buster	12R-38	MFWD 225	28,900	160	8	0.060	0.69	2.36	0.40	0.35	3.82	1.30	2.29	7.42
Bed-Paratill Fold	8R-38	MFWD 225	54,000	150	12	0.080	0.93	3.18	1.57	0.48	6.17	2.78	3.08	12.04
Bed-Paratill Fold	8R-38 2x1	MFWD 225	69,100	150	12	0.053	0.62	2.11	1.34	0.32	4.40	2.37	2.05	8.83
Bed-Paratill Fold	10R-30	MFWD 225	32,100	150	12	0.081	0.94	3.21	0.94	0.48	5.60	1.67	3.12	10.39
Bed-Paratill Fold	12R-38	MFWD 225	69,100	150	12	0.053	0.62	2.11	1.34	0.32	4.40	2.37	2.05	8.83
Bed-Paratill Rigid	4R-30	MFWD 225	14,300	150	12	0.204	2.37	8.04	1.05	1.21	12.69	1.86	7.80	22.36
Bed-Paratill Rigid	4R-38	MFWD 225	13,200	150	12	0.160	1.86	6.33	0.76	0.96	9.92	1.35	6.14	17.42
Bed-Paratill Rigid	6R-30	MFWD 225	19,000	150	12	0.136	1.58	5.36	0.93	0.81	8.69	1.65	5.20	15.54
Bed-Paratill Rigid	6R-38	MFWD 225	18,400	150	12	0.107	1.24	4.23	0.71	0.64	6.83	1.26	4.10	12.20
Bed-Paratill Rigid	8R-30	MFWD 225	24,300	150	12	0.102	1.18	4.02	0.89	0.60	6.71	1.58	3.90	12.20
Bed-Paratill Rigid	8R-38	MFWD 225	24,800	150	12	0.080	0.93	3.18	0.72	0.48	5.32	1.27	3.08	9.68
Bed-Paratill Rigid	10R-30	MFWD 225	24,400	150	12	0.081	0.94	3.21	0.72	0.48	5.37	1.27	3.12	9.76
Bed-Paratill w/rol	4R-30	MFWD 225	16,400	150	12	0.204	2.37	8.04	1.21	1.21	12.84	2.14	7.80	22.78
Bed-Paratill w/rol	4R-38	MFWD 225	16,400	150	12	0.160	1.86	6.33	0.95	0.96	10.11	1.68	6.14	17.94
Bed-Paratill w/rol	6R-38	MFWD 225	22,200	150	12	0.107	1.24	4.23	0.86	0.64	6.98	1.52	4.10	12.61
Bed-Rip/Disk Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.84	2.42	0.11	0.32	3.71	0.53	2.08	6.34
Bed-Rip/Disk Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.71	2.42	0.14	0.36	3.64	0.68	2.35	6.68
Bed-Rip/Disk Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.53	1.81	0.10	0.27	2.73	0.51	1.76	5.01
Bed-Rip/Disk Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.14	6.14	0.11	0.82	9.23	0.58	5.28	15.10
Bed-Rip/Disk Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.70	4.87	0.09	0.65	7.33	0.46	4.19	11.98
Bed-Rip/Disk Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.12	3.23	0.09	0.43	4.89	0.46	2.78	8.14
Bed-Rip/Disk Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.61	4.62	0.17	0.62	7.03	0.85	3.97	11.86
Bed-Rip/Disk Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.84	2.42	0.09	0.32	3.69	0.45	2.08	6.23
Bed-Rip/Disk Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.42	4.09	0.12	0.55	6.20	0.59	3.52	10.31
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	18,700	150	12	0.107	1.24	4.23	0.72	0.64	6.85	1.28	4.10	12.24
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	22,400	150	12	0.080	0.93	3.18	0.65	0.48	5.25	1.15	3.08	9.49
Bed-Roll-Fold.	8R-38	MFWD 190	23,800	160	10	0.074	0.85	2.46	0.44	0.33	4.09	1.18	2.11	7.40
Bed-Roll-Fold.	12R-30	MFWD 225	25,600	160	10	0.062	0.72	2.46	0.40	0.37	3.95	1.07	2.38	7.42
Bed-Roll-Fold.	12R-38	MFWD 225	27,900	160	10	0.049	0.57	1.94	0.34	0.29	3.15	0.92	1.88	5.96
Bed-Roll-Fold.	16R-30	MFWD 225	29,100	160	10	0.046	0.54	1.84	0.34	0.27	3.01	0.91	1.79	5.71
Bed-Roll-Rigid	8R-38	MFWD 190	17,500	160	10	0.074	0.85	2.46	0.32	0.33	3.97	0.87	2.11	6.96
Blade-Box	6'-7'	2WD 130	1,020	200	20	0.020	0.23	0.45	0.00	0.06	0.75	0.00	0.37	1.13
Boll Buggy	4R-30(325)	MFWD 190	24,300	200	10	0.327	3.79	10.88	1.98	1.46	18.13	4.11	9.36	31.61
Boll Buggy	4R-38(255)	MFWD 190	24,300	200	10	0.257	2.99	8.57	1.56	1.15	14.27	3.24	7.37	24.89
Boll Buggy	4R-38(325)	MFWD 190	24,300	200	10	0.257	2.99	8.57	1.56	1.15	14.27	3.24	7.37	24.89
Boll Buggy	4R2x1(350)	MFWD 190	24,300	200	10	0.172	1.99	5.72	1.04	0.77	9.54	2.16	4.92	16.64
Boll Buggy	6R-30(325)	MFWD 190	24,300	200	10	0.218	2.53	7.25	1.32	0.97	12.08	2.74	6.24	21.07
Boll Buggy	6R-38(330)	MFWD 190	24,300	200	10	0.172	1.99	5.72	1.04	0.77	9.54	2.16	4.92	16.64
Boll Buggy-Stripper	13' Bcast	MFWD 150	24,300	200	10	0.251	2.92	6.61	1.52	0.96	12.02	3.16	5.87	21.06
Boll Buggy-Stripper	16' Bcast	MFWD 150	24,300	200	10	0.204	2.37	5.37	1.24	0.78	9.76	2.57	4.77	17.11
Boll Buggy-Stripper	19' Bcast	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	24,300	200	10	0.218	2.53	5.72	1.32	0.83	10.41	2.74	5.09	18.25
Boll Buggy-Stripper	4R-36	MFWD 150	24,300	200	10	0.272	3.16	7.16	1.65	1.04	13.02	3.43	6.36	22.82
Boll Buggy-Stripper	4R-38	MFWD 150	24,300	200	10	0.257	2.99	6.76	1.56	0.98	12.30	3.24	6.01	21.56
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	5R-30	MFWD 150	24,300	200	10	0.261	3.03	6.87	1.59	0.99	12.50	3.29	6.11	21.91
Boll Buggy-Stripper	5R-38	MFWD 150	24,300	200	10	0.207	2.40	5.43	1.25	0.78	9.89	2.60	4.83	17.33
Boll Buggy-Stripper	6R-30	MFWD 150	24,300	200	10	0.218	2.53	5.72	1.32	0.83	10.41	2.74	5.09	18.25
Boll Buggy-Stripper	6R-38	MFWD 150	24,300	200	10	0.172	1.99	4.52	1.04	0.65	8.22	2.16	4.02	14.41
Boll Buggy-Stripper	8R-30	MFWD 150	24,300	200	10	0.163	1.89	4.29	0.99	0.62	7.81	2.05	3.82	13.69
Boll Buggy-Stripper	8R-36/38	MFWD 150	24,300	200	10	0.129	1.50	3.39	0.78	0.49	6.17	1.62	3.01	10.82
Chisel Plow-Folding	16'	2WD 130	21,300	150	12	0.115	1.34	2.62	0.88	0.35	5.21	1.57	2.15	8.93
Chisel Plow-Folding	24'	MFWD 190	31,000	150	12	0.076	0.88	2.54	0.85	0.34	4.62	1.51	2.18	8.32
Chisel Plow-Folding	32'	MFWD 225	34,200	150	12	0.057	0.67	2.27	0.71	0.34	4.00	1.26	2.20	7.47
Chisel Plow-Folding	42'	MFWD 225	40,800	150	12	0.044	0.51	1.73	0.64	0.26	3.15	1.14	1.68	5.98

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Chisel Plow-Folding	50'	MFWD 225	65,000	150	10	0.036	0.42	1.45	1.04	0.22	3.14	1.72	1.41	6.28
Chisel Plow-Folding	61'	MFWD 225	71,600	150	12	0.030	0.35	1.19	0.78	0.18	2.50	1.38	1.15	5.05
Chisel Plow-Rigid	10'	MFWD 170	8,030	150	12	0.184	2.14	5.50	0.53	0.77	8.96	0.94	4.98	14.89
Chisel Plow-Rigid	15'	2WD 130	8,280	150	12	0.123	1.42	2.80	0.36	0.37	4.97	0.65	2.29	7.92
Chisel Plow-Rigid	20'	MFWD 225	9,210	150	12	0.102	1.19	4.04	0.34	0.61	6.19	0.60	3.92	10.71
Chisel Plow-Rigid	24'	MFWD 190	10,800	150	12	0.077	0.89	2.56	0.30	0.34	4.09	0.53	2.20	6.83
Chisel-Harrow	21 shank	2WD 190	11,900	150	12	0.088	1.02	2.92	0.37	0.30	4.62	0.66	1.93	7.23
Chisel-Harrow	27 shank	MFWD 225	13,400	150	12	0.068	0.79	2.69	0.33	0.40	4.23	0.58	2.61	7.43
Coulter-Chisel-Harro	21 shank	2WD 190	18,600	150	12	0.088	1.02	2.92	0.59	0.30	4.84	1.04	1.93	7.82
Coulter-Chisel-Harro	27 shank	MFWD 225	23,200	150	12	0.068	0.79	2.69	0.57	0.40	4.47	1.01	2.61	8.10
Cult & PD Ridge Till	8R-30	2WD 150	28,000	200	12	0.110	1.77	2.88	1.47	0.38	6.52	1.52	2.37	10.42
Cult & PD Ridge Till	12R-30	2WD 190	40,400	200	12	0.073	1.18	2.43	1.41	0.25	5.29	1.46	1.61	8.37
Cultivate	4R-30	2WD 105	10,300	150	10	0.206	2.39	3.78	0.56	0.42	7.16	1.52	2.57	11.26
Cultivate	4R-38	2WD 105	10,400	150	10	0.162	1.88	2.98	0.45	0.26	5.58	1.21	1.63	8.43
Cultivate	6R-30	MFWD 150	14,900	150	10	0.137	1.59	3.60	0.54	0.52	6.27	1.46	3.20	10.95
Cultivate	6R-38	MFWD 150	15,800	150	10	0.108	1.25	2.84	0.45	0.41	4.97	1.22	2.53	8.74
Cultivate	8R-30	MFWD 190	19,000	150	10	0.103	1.19	3.42	0.52	0.46	5.60	1.40	2.94	9.96
Cultivate	8R-38	MFWD 190	20,400	150	10	0.073	0.85	2.44	0.40	0.32	4.03	1.07	2.10	7.21
Cultivate	8R-38 2x1	MFWD 190	29,000	150	10	0.054	0.62	1.80	0.41	0.24	3.09	1.12	1.55	5.77
Cultivate	10R-30	MFWD 225	26,100	150	10	0.082	0.95	3.24	0.57	0.49	5.27	1.54	3.15	9.96
Cultivate	12R-30	MFWD 225	35,600	150	10	0.068	0.79	2.70	0.65	0.41	4.56	1.75	2.62	8.94
Cultivate	12R-38	MFWD 225	34,600	150	10	0.054	0.62	2.13	0.50	0.32	3.59	1.34	2.07	7.01
Cultivate	16R-30	MFWD 225	41,100	150	10	0.051	0.59	2.03	0.56	0.30	3.50	1.51	1.96	6.98
Cultivate & Post	4R-30	2WD 105	15,400	150	10	0.220	3.54	4.04	0.90	0.36	8.85	2.42	2.21	13.50
Cultivate & Post	4R-38	2WD 105	15,500	150	10	0.173	2.79	3.18	0.71	0.28	6.97	1.92	1.74	10.64
Cultivate & Post	6R-30	MFWD 150	20,000	150	10	0.146	2.36	3.85	0.78	0.55	7.55	2.10	3.42	13.08
Cultivate & Post	6R-38	MFWD 150	20,900	150	10	0.115	1.86	3.03	0.64	0.44	5.99	1.73	2.70	10.43
Cultivate & Post	8R-30	MFWD 190	24,100	150	10	0.110	1.77	3.65	0.70	0.49	6.63	1.90	3.14	11.67
Cultivate & Post	8R-38	MFWD 190	25,500	150	10	0.086	1.40	2.89	0.59	0.38	5.27	1.58	2.48	9.34
Cultivate & Post	8R-38 2x1	MFWD 190	34,100	150	10	0.057	0.93	1.92	0.52	0.25	3.64	1.41	1.65	6.71
Cultivate & Post	10R-30	MFWD 225	31,200	150	10	0.088	1.41	3.46	0.73	0.52	6.14	1.96	3.36	11.47
Cultivate & Post	12R-30	MFWD 225	40,700	150	10	0.073	1.18	2.88	0.79	0.43	5.30	2.13	2.80	10.24
Cultivate & Post	12R-38	MFWD 225	39,700	150	10	0.057	0.93	2.27	0.61	0.34	4.17	1.64	2.21	8.02
Cultivate & Post	16R-30	MFWD 225	46,200	150	10	0.055	0.88	2.16	0.67	0.32	4.05	1.82	2.10	7.98
Cultivate Ridge Till	8R-30	2WD 170	22,900	200	12	0.103	1.19	3.06	1.13	0.38	5.77	1.16	2.45	9.40
Cultivate Ridge Till	12R-30	2WD 190	35,300	200	12	0.068	0.79	2.28	1.16	0.23	4.48	1.20	1.51	7.19
Disk & Incorporate	14'	2WD 130	26,200	200	10	0.149	2.41	3.40	1.17	0.45	7.45	2.10	2.79	12.35
Disk & Incorporate	24'	MFWD 190	38,100	200	10	0.087	1.40	2.90	0.99	0.39	5.69	1.78	2.49	9.98
Disk & Incorporate	28'	MFWD 225	44,200	200	10	0.074	1.20	2.94	0.99	0.44	5.59	1.77	2.85	10.22
Disk & Incorporate	32'	MFWD 225	50,800	200	10	0.065	1.05	2.57	0.99	0.39	5.02	1.78	2.50	9.31
Disk Harrow	14'	2WD 130	21,100	180	10	0.140	1.62	3.19	0.82	0.42	6.06	1.76	2.61	10.45
Disk Harrow	20'	MFWD 190	29,700	180	10	0.098	1.13	3.26	0.81	0.43	5.65	1.74	2.80	10.20
Disk Harrow	24'	MFWD 190	33,000	180	10	0.081	0.94	2.72	0.75	0.36	4.78	1.61	2.34	8.74
Disk Harrow	28'	MFWD 225	39,100	180	10	0.070	0.81	2.76	0.76	0.41	4.75	1.63	2.67	9.07
Disk Harrow	32'	MFWD 225	45,700	180	10	0.061	0.71	2.41	0.77	0.36	4.27	1.67	2.34	8.29
Disk Harrow	42'	MFWD 225	88,200	180	10	0.046	0.54	1.84	1.14	0.27	3.80	2.46	1.78	8.05
Disk Harrow 40-100hp	14'	2WD 75	14,400	180	10	0.140	1.62	1.84	0.56	0.15	4.18	1.20	0.95	6.34
Disk Heavy	14'	MFWD 150	21,100	180	10	0.145	1.69	3.83	0.85	0.55	6.93	1.83	3.40	12.18
Disk Heavy	20'	MFWD 170	29,700	180	10	0.097	1.12	2.89	0.80	0.41	5.23	1.72	2.62	9.58
Disk Heavy	28'	MFWD 190	39,100	180	10	0.075	0.87	2.51	0.82	0.33	4.55	1.76	2.16	8.48
Disk Ripper	15'	MFWD 225	37,100	180	10	0.136	1.58	5.36	1.40	0.81	9.16	3.01	5.20	17.38
Ditcher		2WD 130	4,390	200	10	0.020	0.23	0.45	0.03	0.06	0.78	0.04	0.37	1.20
Ditcher (1m/160a)		2WD 130	4,390	200	10	0.009	0.10	0.21	0.01	0.02	0.36	0.02	0.17	0.56
Fert Appl (Liquid)	4R-38	MFWD 150	14,000	150	8	0.154	2.49	4.06	1.44	0.58	8.58	1.65	3.60	13.85
Fert Appl (Liquid)	6R-30	MFWD 170	16,900	150	8	0.130	2.11	3.89	1.47	0.55	8.03	1.69	3.53	13.26
Fert Appl (Liquid)	6R-38	MFWD 170	14,700	150	8	0.103	1.66	3.07	1.01	0.43	6.19	1.16	2.79	10.14
Fert Appl (Liquid)	8R-30	MFWD 190	15,400	150	8	0.098	1.58	3.26	1.00	0.43	6.29	1.15	2.80	10.26
Fert Appl (Liquid)	8R-38	MFWD 190	17,400	150	8	0.077	1.25	2.58	0.90	0.34	5.08	1.03	2.21	8.33
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	15,400	150	8	0.051	0.83	1.71	0.53	0.23	3.31	0.60	1.47	5.40
Fert Appl (Liquid)	10R-30	MFWD 225	16,000	150	8	0.078	1.26	3.09	0.83	0.46	5.66	0.96	3.00	9.63
Fert Appl (Liquid)	10R-38	MFWD 225	18,900	150	8	0.061	0.99	2.43	0.78	0.36	4.58	0.89	2.36	7.85
Fert Appl (Liquid)	12R-30	MFWD 225	18,500	150	8	0.078	1.26	3.09	0.96	0.46	5.79	1.11	3.00	9.91
Fert Appl (Liquid)	12R-38	MFWD 225	16,600	150	8	0.051	0.83	2.03	0.57	0.30	3.74	0.65	1.97	6.38
Field Cult & Inc	42'	MFWD 225	52,800	100	10	0.037	0.60	1.48	0.49	0.22	2.82	2.14	1.44	6.40
Field Cult & Inc	50'	MFWD 225	61,900	100	10	0.031	0.51	1.24	0.49	0.18	2.44	2.11	1.21	5.76
Field Cult & Inc Fld	24'	MFWD 170	28,600	100	10	0.066	1.06	1.96	0.47	0.27	3.78	2.03	1.78	7.60
Field Cult & Inc Fld	32'	MFWD 190	37,800	100	10	0.049	0.79	1.64	0.46	0.22	3.13	2.01	1.41	6.57
Field Cult & Inc Rdg	12'	2WD 150	15,400	100	10	0.132	2.13	3.47	0.50	0.46	6.57	2.18	2.85	11.62
Field Cultivate Fld	24'	MFWD 170	23,500	100	10	0.062	0.72	1.85	0.36	0.26	3.20	1.57	1.67	6.45
Field Cultivate Fld	32'	MFWD 190	32,700	100	10	0.046	0.54	1.55	0.38	0.20	2.68	1.64	1.33	5.65
Field Cultivate Fld	42'	MFWD 225	47,700	100	10	0.035	0.41	1.39	0.42	0.21	2.44	1.82	1.35	5.62
Field Cultivate Fld	50'	MFWD 225	56,800	100	10	0.029	0.34	1.17	0.42	0.17	2.12	1.82	1.14	5.08
Field Cultivate Rdg	12'	2WD 150	10,300	100	10	0.124	1.44	3.26	0.32	0.43	5.46	1.37	2.68	9.53
Grain Cart Corn	500 bu	MFWD 190	22,100	200	12	0.031	0.37	1.06	0.19	0.14	1.76	0.33	0.91	3.01
Grain Cart Corn	700 bu	MFWD 190	28,300	200	12	0.025	0.29	0.83	0.19	0.11	1.42	0.33	0.71	2.47
Grain Cart Corn	1000 bu	MFWD 225	40,500	200	12	0.025	0.29	0.98	0.27	0.14	1.69	0.48	0.95	3.13
Grain Cart Rice	500 bu	MFWD 190	22,100	200	12	0.062	0.72	2.07	0.37	0.27	3.45	0.66	1.78	5.90

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Grain Cart Rice	700 bu	MFWD 190	28,300	200	12	0.055	0.63	1.82	0.42	0.24	3.13	0.74	1.57	5.45
Grain Cart Rice	1000 bu	MFWD 190	40,500	200	12	0.045	0.53	1.52	0.50	0.20	2.76	0.88	1.31	4.96
Grain Cart Soybean	500 bu	MFWD 190	22,100	200	12	0.025	0.29	0.84	0.15	0.11	1.41	0.27	0.72	2.40
Grain Cart Soybean	700 bu	MFWD 190	28,300	200	12	0.021	0.24	0.70	0.16	0.09	1.21	0.28	0.60	2.10
Grain Cart Soybean	1000 bu	MFWD 190	40,500	200	12	0.021	0.24	0.70	0.23	0.09	1.28	0.41	0.60	2.30
Grain Cart Wht/Sor	500 bu	MFWD 190	22,100	200	12	0.025	0.29	0.84	0.15	0.11	1.41	0.27	0.72	2.40
Grain Cart Wht/Sor	700 bu	MFWD 190	28,300	200	12	0.021	0.24	0.70	0.16	0.09	1.21	0.28	0.60	2.10
Grain Cart Wht/Sor	1000 bu	MFWD 190	40,500	200	12	0.021	0.24	0.70	0.23	0.09	1.28	0.41	0.60	2.30
Grain Drill	8'	2WD 130	15,400	150	8	0.235	4.86	5.36	1.36	0.71	12.31	2.65	4.39	19.35
Grain Drill	10'	2WD 130	16,700	150	8	0.188	3.89	4.29	1.18	0.57	9.94	2.30	3.51	15.75
Grain Drill	12'	2WD 130	17,900	150	8	0.157	3.24	3.57	1.05	0.47	8.35	2.05	2.93	13.34
Grain Drill	15'	MFWD 150	21,800	150	8	0.125	2.59	3.30	1.02	0.47	7.40	2.00	2.93	12.33
Grain Drill	20'	MFWD 170	29,000	150	8	0.094	1.94	2.80	1.02	0.39	6.17	1.99	2.54	10.71
Grain Drill	24'	MFWD 190	50,800	150	8	0.078	1.62	2.61	1.49	0.35	6.08	2.91	2.24	11.24
Grain Drill	30'	MFWD 225	53,300	150	8	0.062	1.29	2.47	1.25	0.37	5.40	2.44	2.40	10.25
Grain Drill	35'	MFWD 225	69,900	150	8	0.053	1.11	2.12	1.41	0.32	4.96	2.75	2.05	9.77
Grain Drill & Pre	8'	2WD 130	20,600	150	8	0.253	5.24	5.77	1.96	0.77	13.75	3.82	4.73	22.30
Grain Drill & Pre	10'	2WD 130	21,800	150	8	0.203	4.19	4.62	1.66	0.61	11.09	3.23	3.78	18.11
Grain Drill & Pre	12'	2WD 130	23,000	150	8	0.169	3.49	3.85	1.45	0.51	9.32	2.84	3.15	15.32
Grain Drill & Pre	15'	MFWD 150	26,900	150	8	0.135	2.79	3.55	1.36	0.51	8.23	2.66	3.15	14.05
Grain Drill & Pre	20'	MFWD 170	34,100	150	8	0.101	2.09	3.02	1.29	0.42	6.84	2.52	2.74	12.11
Grain Drill & Pre	24'	MFWD 190	55,900	150	8	0.084	1.74	2.81	1.77	0.37	6.71	3.45	2.41	12.58
Grain Drill & Pre	30'	MFWD 225	58,400	150	8	0.067	1.39	2.66	1.48	0.40	5.95	2.88	2.58	11.42
Grain Drill & Pre	35'	MFWD 225	75,000	150	8	0.058	1.19	2.28	1.63	0.34	5.46	3.17	2.21	10.85
Grain Drill & Pre T	8R-38	MFWD 225	43,500	150	8	0.062	1.29	2.47	1.02	0.37	5.17	1.99	2.40	9.57
Harrow - Rigid	21'	2WD 150	4,990	200	10	0.073	0.85	1.94	0.12	0.26	3.18	0.19	1.59	4.98
Harrow - Folding	16'	MFWD 190	5,000	200	10	0.097	1.12	3.22	0.16	0.43	4.95	0.26	2.77	7.99
Harrow - Folding	24'	MFWD 190	11,400	200	10	0.064	0.75	2.15	0.25	0.28	3.44	0.39	1.85	5.69
Harrow - Folding	30'	MFWD 190	11,900	200	10	0.051	0.60	1.72	0.21	0.23	2.76	0.33	1.47	4.57
Harrow - Folding	40'	MFWD 190	15,400	200	10	0.038	0.45	1.29	0.20	0.17	2.12	0.32	1.10	3.55
Harrow - Folding	48'	MFWD 225	18,100	200	10	0.032	0.37	1.27	0.20	0.19	2.04	0.31	1.23	3.59
Harrow - Rigid	13'	2WD 130	3,810	200	10	0.119	1.38	2.71	0.15	0.36	4.62	0.24	2.22	7.09
Header - Corn	6R-30	265 hp	39,300	300	8	0.170	1.97	7.89	1.67	4.27	15.81	2.56	17.11	35.49
Header - Corn	6R-38	265 hp	40,400	300	8	0.134	1.55	6.23	1.35	3.37	12.52	2.07	13.51	28.11
Header - Corn	8R-30	265 hp	50,700	300	8	0.127	1.48	5.92	1.61	3.20	12.22	2.47	12.83	27.54
Header - Corn	8R-38	325 hp	51,600	300	8	0.100	1.17	5.74	1.30	2.82	11.04	1.99	11.32	24.36
Header - Corn	12R-20	325 hp	66,800	300	8	0.127	1.48	7.26	2.13	3.57	14.45	3.26	14.33	32.05
Header - Corn	12R-30	325 hp	77,600	300	8	0.085	0.98	4.84	1.65	2.38	9.86	2.52	9.55	21.95
Header - Draper (CL)	25' Rigid	265 hp	49,500	300	8	0.203	2.35	9.41	2.30	5.09	19.17	3.67	20.41	43.26
Header - Draper (CL)	30' Rigid	325 hp	55,100	300	8	0.169	1.96	9.62	2.13	4.74	18.46	3.40	18.99	40.86
Header - Draper (CL)	36' Rigid	355 hp	59,500	300	8	0.141	1.63	8.76	1.92	4.23	16.55	3.06	16.94	36.55
Header - Draper (SL)	25' Rigid	325 hp	49,500	300	8	0.176	2.04	10.01	1.99	4.93	18.98	3.18	19.75	41.91
Header - Draper (SL)	30' Rigid	325 hp	55,100	300	8	0.146	1.70	8.34	1.85	4.10	16.00	2.95	16.45	35.41
Header - Draper (SL)	36' Rigid	355 hp	59,500	300	8	0.122	1.41	7.59	1.66	3.66	14.34	2.65	14.68	31.68
Header - Rice (CL)	25' Rigid	325 hp	50,400	300	8	0.253	2.94	14.43	3.19	7.11	27.69	4.89	28.48	61.07
Header - Rice (CL)	30' Rigid	325 hp	57,500	300	8	0.211	2.45	12.03	3.04	5.92	23.45	4.65	23.73	51.84
Header - Rice (SL)	25' Rigid	325 hp	50,400	300	8	0.220	2.55	12.51	2.77	6.16	24.00	4.24	24.68	52.93
Header - Rice (SL)	30' Rigid	325 hp	57,500	300	8	0.183	2.12	10.42	2.63	5.13	20.32	4.03	20.57	44.93
Header -RiceStrp(CL)	20'	265 hp	40,700	300	8	0.253	2.94	11.77	2.58	6.37	23.67	3.95	25.52	53.14
Header -RiceStrp(CL)	24'	325 hp	44,700	300	8	0.211	2.45	12.03	2.36	5.92	22.77	3.61	23.73	50.13
Header -RiceStrp(CL)	32'	325 hp	49,300	300	8	0.158	1.84	9.02	1.95	4.44	17.26	2.99	17.80	38.06
Header -RiceStrp(SL)	20'	265 hp	40,700	300	8	0.220	2.55	10.20	2.23	5.52	20.51	3.42	22.11	46.06
Header -RiceStrp(SL)	24'	325 hp	44,700	300	8	0.183	2.12	10.42	2.04	5.13	19.74	3.13	20.57	43.44
Header -RiceStrp(SL)	32'	325 hp	49,300	300	8	0.137	1.59	7.82	1.69	3.85	14.96	2.59	15.43	32.98
Header -Soybean	22' Flex	265 hp	25,100	300	8	0.116	1.34	5.38	0.72	2.91	10.37	1.11	11.67	23.16
Header -Soybean	25' Flex	325 hp	27,100	300	8	0.102	1.18	5.81	0.69	2.86	10.55	1.05	11.46	23.07
Header -Soybean	30' Flex	325 hp	30,700	300	8	0.085	0.98	4.84	0.65	2.38	8.86	0.99	9.55	19.42
Header -Soybean	35' Flex	355 hp	36,100	300	8	0.072	0.84	4.53	0.65	2.18	8.22	1.00	8.76	18.00
Header Wheat/Sorghum	22' Rigid	265 hp	19,300	300	8	0.116	1.34	5.38	0.56	2.91	10.20	0.85	11.67	22.73
Header Wheat/Sorghum	25' Rigid	325 hp	23,500	300	8	0.102	1.18	5.81	0.60	2.86	10.45	0.91	11.46	22.84
Header Wheat/Sorghum	30' Rigid	325 hp	26,300	300	8	0.085	0.98	4.84	0.55	2.38	8.77	0.85	9.55	19.18
Header-Cotton Bcast	13'	173 hp	19,800	200	8	0.251	5.20	6.91	0.93	6.17	19.23	2.86	24.74	46.83
Header-Cotton-Bcast	16'	173 hp	23,200	200	8	0.204	4.22	5.62	0.89	5.01	15.75	2.72	20.10	38.58
Header-Cotton-Bcast	19'	173 hp	25,000	200	8	0.172	3.55	4.73	0.80	4.22	13.32	2.47	16.92	32.72
Header-Cotton-Brush	4R-30 2x1	173 hp	30,100	200	8	0.218	4.50	5.99	1.23	5.35	17.09	3.76	21.44	42.30
Header-Cotton-Brush	4R-36	173 hp	29,800	200	8	0.272	5.63	7.49	1.52	6.69	21.34	4.66	26.80	52.81
Header-Cotton-Brush	4R-38	173 hp	29,700	200	8	0.257	5.32	7.08	1.43	6.32	20.16	4.39	25.32	49.88
Header-Cotton-Brush	4R-38 2x1	173 hp	31,500	200	8	0.172	3.55	4.73	1.01	4.22	13.53	3.11	16.92	33.58
Header-Cotton-Brush	5R-30	173 hp	37,400	200	8	0.261	5.41	7.19	1.83	6.42	20.86	5.62	25.73	52.21
Header-Cotton-Brush	5R-38	173 hp	38,800	200	8	0.207	4.28	5.69	1.50	5.08	16.56	4.61	20.35	41.53
Header-Cotton-Brush	6R-30	173 hp	46,100	200	8	0.218	4.50	5.99	1.88	5.35	17.74	5.77	21.44	44.96
Header-Cotton-Brush	6R-38	173 hp	47,500	200	8	0.172	3.55	4.73	1.53	4.22	14.05	4.69	16.92	35.68
Header-Cotton-Brush	8R-30	173 hp	63,600	200	8	0.163	3.38	4.49	1.95	4.01	13.84	5.97	16.08	35.90
Header-Cotton-Brush	8R-36/38	173 hp	65,000	200	8	0.129	2.67	3.55	1.57	3.17	10.97	4.82	12.71	28.51
Land Plane	50'x16'	MFWD 190	10,900	200	10	0.151	1.75	5.04	0.33	0.67	7.80	0.88	4.33	13.03
Levee Pull & Seed	8 Blade	MFWD 170	7,540	100	10	0.003	0.04	0.10	0.00	0.01	0.16	0.02	0.09	0.29
Levee Pull (1m/80a)	8 blade	MFWD 170	6,760	100	10	0.003	0.04	0.10	0.00	0.01	0.16	0.02	0.09	0.28
Levee Splitter (1/80	8 blade	MFWD 150	6,760	100	10	0.004	0.04	0.10	0.00	0.01	0.17	0.03	0.09	0.30
Module Builder	4R-30(325)	MFWD 190	30,500	200	10	0.327	6.76	10.88	2.49	1.46	21.60	5.17	9.36	36.14

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac				$/acre				
Module Builder	4R-38(255)	MFWD 190	30,500	200	10	0.257	5.32	8.57	1.96	1.15	17.01	4.07	7.37	28.45
Module Builder	4R-38(325)	MFWD 190	30,500	200	10	0.257	5.32	8.57	1.96	1.15	17.01	4.07	7.37	28.45
Module Builder	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder	6R-30(325)	MFWD 190	30,500	200	10	0.218	4.50	7.25	1.66	0.97	14.40	3.44	6.24	24.09
Module Builder	6R-38(330)	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder-Strip	13' Bcast	MFWD 150	30,500	200	10	0.251	5.20	6.61	1.92	0.96	14.69	3.97	5.87	24.54
Module Builder-Strip	16' Bcast	MFWD 150	30,500	200	10	0.204	4.22	5.37	1.56	0.78	11.93	3.23	4.77	19.94
Module Builder-Strip	19' Bcast	MFWD 150	30,500	200	10	0.172	3.55	4.52	1.31	0.65	10.05	2.72	4.02	16.79
Module Builder-Strip	4R-30 2x1	MFWD 150	30,500	200	10	0.218	4.50	5.72	1.66	0.83	12.73	3.44	5.09	21.27
Module Builder-Strip	4R-36	MFWD 150	30,500	200	10	0.272	5.63	7.16	2.08	1.04	15.91	4.30	6.36	26.59
Module Builder-Strip	4R-38	MFWD 150	30,500	200	10	0.257	5.32	6.76	1.96	0.98	15.04	4.07	6.01	25.12
Module Builder-Strip	4R-38 2x1	MFWD 150	30,500	200	10	0.172	3.55	4.52	1.31	0.65	10.05	2.72	4.02	16.79
Module Builder-Strip	5R-30	MFWD 150	30,500	200	10	0.261	5.41	6.87	1.99	0.99	15.28	4.13	6.11	25.53
Module Builder-Strip	5R-38	MFWD 150	30,500	200	10	0.207	4.28	5.43	1.57	0.78	12.08	3.27	4.83	20.19
Module Builder-Strip	6R-30	MFWD 150	30,500	200	10	0.218	4.50	5.72	1.66	0.83	12.73	3.44	5.09	21.27
Module Builder-Strip	6R-38	MFWD 190	30,500	200	10	0.172	3.55	5.72	1.31	0.77	11.37	2.72	4.92	19.02
Module Builder-Strip	8R-36/38	MFWD 190	30,500	200	10	0.129	2.67	4.30	0.98	0.57	8.54	2.04	3.69	14.28
NT Grain Drill	6'	MFWD 170	19,100	150	8	0.327	6.76	9.73	2.34	1.38	20.22	4.56	8.83	33.63
NT Grain Drill	10'	2WD 130	28,300	150	8	0.235	4.86	5.36	2.50	0.71	13.45	4.87	4.39	22.72
NT Grain Drill	12'	2WD 130	35,900	150	8	0.163	3.38	3.72	2.20	0.49	9.80	4.29	3.05	17.15
NT Grain Drill	15'	MFWD 150	40,100	150	8	0.130	2.70	3.43	1.96	0.49	8.61	3.83	3.05	15.50
NT Grain Drill	20'	MFWD 170	56,900	150	8	0.098	2.02	2.92	2.09	0.41	7.46	4.08	2.65	14.19
NT Grain Drill	24'	MFWD 190	75,400	150	8	0.081	1.69	2.72	2.31	0.36	7.09	4.50	2.34	13.94
NT Grain Drill	30'	MFWD 225	88,000	150	8	0.065	1.35	2.57	2.16	0.39	6.48	4.20	2.50	13.19
NT Grain Drill & Pre	6'	MFWD 170	24,200	150	8	0.352	7.28	10.48	3.19	1.48	22.45	6.23	9.51	38.20
NT Grain Drill & Pre	10'	2WD 130	33,500	150	8	0.211	4.37	4.81	2.65	0.64	12.48	5.17	3.94	21.60
NT Grain Drill & Pre	12'	2WD 130	41,000	150	8	0.176	3.64	4.01	2.71	0.53	10.89	5.28	3.28	19.46
NT Grain Drill & Pre	15'	MFWD 150	45,200	150	8	0.141	2.91	3.70	2.39	0.53	9.54	4.65	3.29	17.49
NT Grain Drill & Pre	20'	MFWD 170	62,100	150	8	0.105	2.18	3.14	2.46	0.44	8.24	4.79	2.85	15.89
NT Grain Drill & Pre	24'	MFWD 190	80,500	150	8	0.088	1.82	2.93	2.66	0.39	7.80	5.18	2.52	15.50
NT Grain Drill & Pre	30'	MFWD 225	93,100	150	8	0.070	1.45	2.77	2.46	0.42	7.11	4.79	2.69	14.60
NT Plant&Pre-Folding	8R-38	MFWD 170	44,300	150	8	0.083	1.72	2.48	1.38	0.35	5.95	2.70	2.25	10.91
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	70,600	150	8	0.055	1.15	1.65	1.47	0.23	4.51	2.87	1.50	8.88
NT Plant&Pre-Folding	12R-20	MFWD 190	67,800	150	8	0.105	2.18	3.51	2.68	0.47	8.86	5.23	3.02	17.12
NT Plant&Pre-Folding	12R-30	MFWD 190	70,600	150	8	0.070	1.45	2.34	1.86	0.31	5.98	3.63	2.01	11.63
NT Plant&Pre-Folding	12R-38	MFWD 190	70,600	150	8	0.055	1.15	1.85	1.47	0.24	4.72	2.87	1.59	9.18
NT Plant&Pre-Folding	16R-30	MFWD 190	92,900	150	8	0.052	1.09	1.75	1.84	0.23	4.92	3.58	1.51	10.03
NT Plant&Pre-Folding	23R-15	MFWD 190	117,000	150	8	0.073	1.51	2.44	3.22	0.32	7.51	6.27	2.10	15.88
NT Plant&Pre-Folding	24R-15	MFWD 225	126,000	150	8	0.070	1.45	2.77	3.33	0.42	7.98	6.49	2.69	17.16
NT Plant&Pre-Folding	24R-20	MFWD 190	134,000	150	8	0.052	1.09	1.75	2.65	0.23	5.74	5.17	1.51	12.43
NT Plant&Pre-Folding	24R-30	MFWD 190	152,000	150	8	0.035	0.72	1.17	2.00	0.15	4.06	3.91	1.00	8.99
NT Plant&Pre-Folding	31R-15	MFWD 225	143,000	150	8	0.054	1.12	2.15	2.93	0.32	6.53	5.71	2.08	14.33
NT Plant&Pre-Folding	32R-15	MFWD 225	158,000	150	8	0.052	1.09	2.08	3.13	0.31	6.62	6.10	2.01	14.74
NT Plant&Pre-Folding	36R-20	MFWD 225	167,000	150	8	0.035	0.72	1.38	2.20	0.21	4.53	4.30	1.34	10.18
NT Plant&Pre-Rigid	4R-30	2WD 130	25,600	150	8	0.211	4.37	4.81	2.03	0.64	11.85	3.95	3.94	19.76
NT Plant&Pre-Rigid	4R-38	2WD 130	27,100	150	8	0.166	3.44	3.78	1.69	0.50	9.43	3.29	3.10	15.83
NT Plant&Pre-Rigid	6R-30	MFWD 150	34,500	150	8	0.141	2.91	3.70	1.82	0.53	8.97	3.55	3.29	15.82
NT Plant&Pre-Rigid	6R-38	MFWD 150	32,000	150	8	0.111	2.30	2.92	1.33	0.42	6.98	2.60	2.59	12.18
NT Plant&Pre-Rigid	8R-30	MFWD 170	41,200	150	8	0.105	2.18	3.14	1.63	0.44	7.41	3.18	2.85	13.45
NT Plant&Pre-Rigid	8R-38	MFWD 170	37,500	150	8	0.083	1.72	2.48	1.17	0.35	5.74	2.29	2.25	10.29
NT Plant&Pre-Rigid	10R-30	MFWD 190	39,600	150	8	0.084	1.74	2.81	1.25	0.37	6.19	2.44	2.41	11.06
NT Plant&Pre-Rigid	11R-15	MFWD 170	46,600	150	8	0.143	2.97	4.28	2.51	0.60	10.37	4.89	3.88	19.15
NT Plant&Pre-Rigid	11R-20	MFWD 170	43,900	150	8	0.115	2.38	3.43	1.90	0.48	8.21	3.70	3.11	15.04
NT Plant&Pre-Rigid	12R-20	MFWD 190	50,400	150	8	0.105	2.18	3.51	1.99	0.47	8.17	3.89	3.02	15.09
NT Plant&Pre-Rigid	12R-30	MFWD 190	57,200	150	8	0.070	1.45	2.34	1.51	0.31	5.62	2.94	2.01	10.59
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	50,400	150	8	0.097	2.01	3.83	1.84	0.58	8.27	3.58	3.72	15.58
NT Plant&Pre-Rigid	15R-15	MFWD 190	59,600	150	8	0.113	2.33	3.76	2.52	0.50	9.13	4.92	3.23	17.29
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	108,000	150	8	0.055	1.15	2.19	2.25	0.33	5.92	4.39	2.12	12.44
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	87,900	150	8	0.083	1.72	3.29	2.75	0.49	8.27	5.36	3.19	16.83
NT Plant-Folding	8R-38	MFWD 170	39,300	150	8	0.077	1.60	2.30	1.14	0.32	5.38	2.22	2.09	9.71
NT Plant-Folding	8R-38 2x1	MFWD 170	64,000	150	8	0.051	1.06	1.53	1.24	0.21	4.06	2.41	1.39	7.87
NT Plant-Folding	12R-20	MFWD 190	62,800	150	8	0.098	2.02	3.26	2.31	0.43	8.04	4.50	2.80	15.36
NT Plant-Folding	12R-30	MFWD 190	65,600	150	8	0.065	1.35	2.17	1.61	0.29	5.43	3.13	1.87	10.44
NT Plant-Folding	12R-38	MFWD 190	64,000	150	8	0.051	1.06	1.71	1.24	0.23	4.25	2.41	1.47	8.15
NT Plant-Folding	16R-30	MFWD 190	86,400	150	8	0.049	1.01	1.63	1.59	0.21	4.45	3.09	1.40	8.96
NT Plant-Folding	23R-15	MFWD 190	112,000	150	8	0.068	1.40	2.26	2.86	0.30	6.84	5.58	1.94	14.37
NT Plant-Folding	24R-15	MFWD 225	121,000	150	8	0.065	1.35	2.57	2.97	0.39	7.29	5.78	2.50	15.58
NT Plant-Folding	24R-20	MFWD 190	127,000	150	8	0.049	1.01	1.63	2.33	0.21	5.20	4.55	1.40	11.16
NT Plant-Folding	24R-30	MFWD 190	143,000	150	8	0.032	0.67	1.08	1.75	0.14	3.66	3.42	0.93	8.02
NT Plant-Folding	31R-15	MFWD 225	134,000	150	8	0.050	1.04	1.99	2.55	0.30	5.90	4.96	1.93	12.80
NT Plant-Folding	32R-15	MFWD 225	148,000	150	8	0.049	1.01	1.93	2.72	0.29	5.96	5.30	1.87	13.15
NT Plant-Folding	36R-20	MFWD 225	158,000	150	8	0.032	0.67	1.28	1.93	0.19	4.10	3.77	1.25	9.13
NT Plant-Rigid	4R-30	2WD 130	20,600	150	8	0.196	4.05	4.46	1.51	0.59	10.64	2.95	3.66	17.26
NT Plant-Rigid	4R-38	2WD 130	22,100	150	8	0.154	3.19	3.51	1.28	0.47	8.46	2.49	2.88	13.84
NT Plant-Rigid	6R-30	MFWD 150	29,500	150	8	0.130	2.70	3.43	1.44	0.49	8.09	2.82	3.05	13.96
NT Plant-Rigid	6R-38	MFWD 150	27,000	150	8	0.103	2.13	2.71	1.04	0.39	6.29	2.03	2.41	10.74
NT Plant-Rigid	8R-30	MFWD 170	36,200	150	8	0.098	2.02	2.92	1.33	0.41	6.69	2.59	2.65	11.94
NT Plant-Rigid	8R-38	MFWD 170	32,500	150	8	0.077	1.60	2.30	0.94	0.32	5.18	1.84	2.09	9.12

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	R&M Imp.	R&M P.U.	Total Direct	Fixed Imp.	Fixed P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
NT Plant-Rigid	10R-30	MFWD 190	34,700	150	8	0.078	1.62	2.61	1.02	0.35	5.60	1.99	2.24	9.84
NT Plant-Rigid	11R-15	MFWD 170	41,600	150	8	0.133	2.76	3.97	2.08	0.56	9.38	4.06	3.60	17.05
NT Plant-Rigid	11R-20	MFWD 170	39,000	150	8	0.107	2.21	3.19	1.56	0.45	7.43	3.05	2.89	13.38
NT Plant-Rigid	12R-20	MFWD 190	45,400	150	8	0.098	2.02	3.26	1.67	0.43	7.40	3.25	2.80	13.47
NT Plant-Rigid	12R-30	MFWD 190	52,200	150	8	0.065	1.35	2.17	1.28	0.29	5.10	2.49	1.87	9.47
NT Plant-Rigid	13R-18/20	MFWD 225	45,400	150	8	0.090	1.87	3.58	1.54	0.54	7.55	3.01	3.47	14.03
NT Plant-Rigid	15R-15	MFWD 190	53,000	150	8	0.105	2.17	3.49	2.08	0.46	8.21	4.06	3.00	15.29
NT Plant-TwinRow	12R-30/40	MFWD 225	102,000	150	8	0.051	1.06	2.03	1.97	0.30	5.38	3.85	1.97	11.21
NT Plant-TwinRow	8R-30/40	MFWD 225	82,900	150	8	0.077	1.60	3.05	2.41	0.46	7.53	4.70	2.96	15.20
One-Trip Prep	4R-38	MFWD 170	20,000	150	10	0.146	1.70	4.36	1.36	0.61	8.05	2.10	3.96	14.11
One-Trip Prep	6R-38	MFWD 190	24,000	150	10	0.097	1.12	3.23	1.08	0.43	5.88	1.67	2.78	10.34
One-Trip Prep	8R-38	MFWD 225	35,700	150	10	0.073	0.85	2.91	1.23	0.44	5.44	1.89	2.82	10.15
Peanut Cond.& Lifter	6-Row	MFWD 190	11,000	300	20	0.100	1.16	3.32	0.18	0.44	5.11	0.27	2.85	8.25
Peanut Conditioner	6-Row	MFWD 190	12,000	300	20	0.100	1.16	3.32	0.24	0.44	5.17	0.26	2.85	8.30
Peanut Dig/Invertor	4R-30	MFWD 190	21,200	300	15	0.235	2.73	7.84	1.24	1.05	12.87	1.51	6.74	21.13
Peanut Dig/Invertor	4R-38	MFWD 190	21,200	300	15	0.186	2.16	6.19	0.98	0.83	10.16	1.19	5.32	16.69
Peanut Dig/Invertor	6R-38	MFWD 190	30,800	300	15	0.124	1.43	4.12	0.67	0.55	6.78	1.16	3.54	11.49
Peanut Dump Cart	6-Row	MFWD 190	37,400	300	20	0.310	3.59	10.30	0.67	1.38	15.96	2.82	8.86	27.65
Peanut Harvester	4R-30	MFWD 225	107,000	300	20	0.849	9.85	33.46	5.15	5.07	53.55	20.38	32.45	106.39
Peanut Harvester	4R-38	MFWD 225	107,000	300	20	0.934	10.84	36.80	5.66	5.57	58.88	23.39	35.68	117.96
Peanut Harvester	6R-38	MFWD 225	122,000	300	20	0.625	7.25	24.61	3.68	3.73	39.27	17.83	23.86	80.97
Peanut Lifter	6-Row	MFWD 225	4,140	300	20	0.100	1.16	3.93	0.08	0.59	5.78	0.09	3.81	9.69
Peanut Plt&Pre Fold.	12R-38	MFWD 190	64,200	150	8	0.080	1.66	2.67	1.93	0.35	6.63	3.77	2.29	12.70
Peanut Plt&Pre Rigid	8R-30	MFWD 190	37,000	150	8	0.152	3.15	5.08	2.11	0.68	11.03	4.12	4.36	19.53
Peanut Plt&Pre Rigid	8R-38	MFWD 190	33,300	150	8	0.120	2.49	4.01	1.50	0.53	8.55	2.93	3.45	14.94
Pipe Spool 160ac	1/4m roll	2WD 130	3,380	15	12	0.003	0.09	0.07	0.00	0.00	0.17	0.06	0.05	0.30
Pipe Trailer 1m/160a	30'	2WD 130	1,240	100	15	0.003	0.17	0.08	0.00	0.01	0.27	0.00	0.06	0.35
Plant & Pre-Folding	8R-38	MFWD 170	40,100	150	8	0.080	1.65	2.38	1.20	0.33	5.59	2.35	2.16	10.11
Plant & Pre-Folding	8R-38 2x1	MFWD 170	64,200	150	8	0.053	1.10	1.58	1.28	0.22	4.20	2.50	1.44	8.15
Plant & Pre-Folding	12R-20	MFWD 190	61,500	150	8	0.101	2.09	3.37	2.34	0.45	8.26	4.56	2.90	15.73
Plant & Pre-Folding	12R-30	MFWD 190	64,300	150	8	0.067	1.39	2.25	1.63	0.30	5.58	3.17	1.93	10.69
Plant & Pre-Folding	12R-38	MFWD 190	64,200	150	8	0.053	1.10	1.77	1.28	0.23	4.40	2.50	1.52	8.44
Plant & Pre-Folding	16R-30	MFWD 190	84,500	150	8	0.050	1.04	1.68	1.60	0.22	4.57	3.13	1.45	9.15
Plant & Pre-Folding	23R-15	MFWD 190	105,000	150	8	0.070	1.45	2.34	2.77	0.31	6.89	5.40	2.01	14.31
Plant & Pre-Folding	24R-15	MFWD 225	113,000	150	8	0.067	1.39	2.66	2.86	0.40	7.33	5.58	2.58	15.50
Plant & Pre-Folding	24R-20	MFWD 190	121,000	150	8	0.050	1.04	1.68	2.30	0.22	5.26	4.48	1.45	11.20
Plant & Pre-Folding	24R-30	MFWD 190	140,000	150	8	0.033	0.69	1.12	1.77	0.15	3.75	3.46	0.96	8.18
Plant & Pre-Folding	31R-15	MFWD 225	127,000	150	8	0.052	1.08	2.06	2.49	0.31	5.96	4.86	2.00	12.83
Plant & Pre-Folding	32R-15	MFWD 225	141,000	150	8	0.050	1.04	1.99	2.68	0.30	6.03	5.22	1.93	13.20
Plant & Pre-Folding	36R-20	MFWD 225	148,000	150	8	0.033	0.69	1.33	1.87	0.20	4.11	3.65	1.29	9.06
Plant & Pre-Rigid	4R-30	2WD 130	23,500	150	8	0.203	4.19	4.62	1.78	0.61	11.22	3.48	3.78	18.49
Plant & Pre-Rigid	4R-38	2WD 130	25,000	150	8	0.159	3.30	3.63	1.49	0.48	8.92	2.92	2.98	14.83
Plant & Pre-Rigid	6R-30	MFWD 150	32,400	150	8	0.135	2.79	3.55	1.64	0.51	8.51	3.20	3.15	14.87
Plant & Pre-Rigid	6R-38	MFWD 150	28,900	150	8	0.106	2.20	2.80	1.15	0.40	6.57	2.25	2.49	11.33
Plant & Pre-Rigid	8R-30	MFWD 170	37,000	150	8	0.101	2.09	3.02	1.40	0.42	6.95	2.74	2.74	12.44
Plant & Pre-Rigid	8R-38	MFWD 170	33,300	150	8	0.080	1.65	2.38	1.00	0.33	5.38	1.95	2.16	9.50
Plant & Pre-Rigid	10R-30	MFWD 190	34,400	150	8	0.081	1.67	2.70	1.04	0.36	5.79	2.04	2.32	10.15
Plant & Pre-Rigid	11R-15	MFWD 170	40,800	150	8	0.148	3.06	4.40	2.26	0.62	10.36	4.41	4.00	18.78
Plant & Pre-Rigid	11R-20	MFWD 170	38,200	150	8	0.110	2.29	3.30	1.58	0.46	7.65	3.09	2.99	13.74
Plant & Pre-Rigid	12R-20	MFWD 190	44,100	150	8	0.101	2.09	3.37	1.67	0.45	7.60	3.27	2.90	13.78
Plant & Pre-Rigid	12R-30	MFWD 190	50,900	150	8	0.067	1.39	2.25	1.29	0.30	5.24	2.51	1.93	9.69
Plant & Pre-Rigid	13R-18/20	MFWD 225	43,600	150	8	0.093	1.93	3.68	1.53	0.55	7.70	2.98	3.57	14.26
Plant & Pre-Rigid	15R-15	MFWD 190	51,700	150	8	0.108	2.24	3.61	2.10	0.48	8.44	4.10	3.10	15.65
Plant & Pre-TwinRow	12R-30/40	MFWD 225	102,000	150	8	0.053	1.10	2.10	2.04	0.31	5.57	3.98	2.04	11.59
Plant & Pre-TwinRow	8R-30/40	MFWD 225	83,700	150	8	0.080	1.65	3.16	2.51	0.47	7.81	4.90	3.06	15.79
Plant - Folding	8R-38	MFWD 170	35,100	150	8	0.074	1.53	2.21	0.98	0.31	5.05	1.91	2.01	8.97
Plant - Folding	8R-38 2x1	MFWD 170	57,700	150	8	0.049	1.02	1.47	1.07	0.20	3.78	2.09	1.33	7.21
Plant - Folding	12R-20	MFWD 190	56,500	150	8	0.094	1.94	3.13	1.99	0.42	7.50	3.89	2.69	14.09
Plant - Folding	12R-30	MFWD 190	59,300	150	8	0.062	1.29	2.09	1.39	0.28	5.06	2.72	1.79	9.58
Plant - Folding	12R-38	MFWD 190	57,700	150	8	0.049	1.02	1.64	1.07	0.22	3.97	2.09	1.41	7.48
Plant - Folding	16R-30	MFWD 190	77,900	150	8	0.047	0.97	1.56	1.37	0.21	4.12	2.68	1.34	8.15
Plant - Folding	23R-15	MFWD 190	99,600	150	8	0.065	1.35	2.17	2.44	0.29	6.26	4.76	1.87	12.90
Plant - Folding	24R-15	MFWD 225	108,000	150	8	0.062	1.29	2.47	2.54	0.37	6.69	4.95	2.40	14.05
Plant - Folding	24R-20	MFWD 190	115,000	150	8	0.047	0.97	1.56	2.03	0.21	4.78	3.96	1.34	10.09
Plant - Folding	24R-30	MFWD 190	130,000	150	8	0.031	0.64	1.04	1.53	0.14	3.36	2.98	0.89	7.25
Plant - Folding	31R-15	MFWD 225	117,000	150	8	0.048	1.00	1.91	2.13	0.29	5.35	4.16	1.86	11.38
Plant - Folding	32R-15	MFWD 225	131,000	150	8	0.047	0.97	1.85	2.31	0.28	5.42	4.51	1.80	11.73
Plant - Folding	36R-20	MFWD 225	139,000	150	8	0.031	0.64	1.23	1.63	0.18	3.71	3.19	1.20	8.10
Plant - Rigid	4R-30	2WD 130	18,500	150	8	0.188	3.89	4.29	1.30	0.57	10.06	2.54	3.51	16.13
Plant - Rigid	4R-38	2WD 130	20,000	150	8	0.148	3.06	3.37	1.11	0.45	8.01	2.16	2.76	12.95
Plant - Rigid	6R-30	MFWD 150	27,400	150	8	0.125	2.59	3.30	1.29	0.47	7.66	2.51	2.93	13.11
Plant - Rigid	6R-38	MFWD 150	23,900	150	8	0.099	2.05	2.60	0.88	0.37	5.92	1.73	2.31	9.97
Plant - Rigid	8R-30	MFWD 170	32,000	150	8	0.094	1.94	2.80	1.13	0.39	6.28	2.20	2.54	11.03
Plant - Rigid	8R-38	MFWD 170	28,300	150	8	0.074	1.53	2.21	0.79	0.31	4.86	1.54	2.01	8.41
Plant - Rigid	10R-30	MFWD 190	29,400	150	8	0.075	1.55	2.50	0.83	0.33	5.23	1.62	2.15	9.01
Plant - Rigid	11R-15	MFWD 170	35,800	150	8	0.137	2.84	4.09	1.84	0.58	9.36	3.59	3.71	16.68
Plant - Rigid	11R-20	MFWD 170	33,200	150	8	0.103	2.12	3.06	1.28	0.43	6.91	2.49	2.78	12.19
Plant - Rigid	12R-20	MFWD 190	39,100	150	8	0.094	1.94	3.13	1.38	0.42	6.88	2.69	2.69	12.27
Plant - Rigid	12R-30	MFWD 190	45,900	150	8	0.062	1.29	2.09	1.08	0.28	4.75	2.10	1.79	8.65

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Plant - Rigid	13R-18/20	MFWD 225	38,600	150	8	0.086	1.79	3.42	1.25	0.51	6.99	2.45	3.31	12.76
Plant - Rigid	15R-15	2WD 150	45,100	150	8	0.094	1.94	2.47	1.59	0.33	6.35	3.10	2.03	11.49
Plant - TwinRow	12R-30/40	MFWD 225	95,500	150	8	0.049	1.02	1.95	1.77	0.29	5.05	3.46	1.89	10.40
Plant - TwinRow	8R-30/40	MFWD 225	78,700	150	8	0.074	1.53	2.93	2.19	0.44	7.11	4.28	2.84	14.25
Roller/Cultipacker	12'	2WD 130	4,846	300	12	0.124	1.44	2.83	0.14	0.37	4.79	0.19	2.32	7.31
Roller/Cultipacker	20'	MFWD 150	15,200	300	12	0.074	0.86	1.95	0.26	0.28	3.37	0.37	1.74	5.49
Roller/Cultipacker	30'	MFWD 170	16,100	300	12	0.049	0.57	1.48	0.18	0.20	2.45	0.26	1.34	4.06
Roller/Cultipacker	38'	MFWD 225	17,100	300	12	0.039	0.45	1.54	0.15	0.23	2.39	0.22	1.50	4.11
Roller/Stubble	20'	2WD 50	11,500	300	12	0.074	0.86	0.65	0.20	0.05	1.78	0.28	0.36	2.42
Roller/Stubble	32'	MFWD 225	19,500	300	12	0.046	0.54	1.83	0.21	0.27	2.87	0.30	1.78	4.95
Rotary Cutter	7'	MFWD 130	3,950	185	10	0.168	1.95	3.83	0.53	0.51	6.83	0.38	3.15	10.38
Rotary Cutter	12'	2WD 150	10,800	185	10	0.098	1.13	2.57	0.86	0.34	4.92	0.61	2.12	7.66
Rotary Cutter-Flex	15'	MFWD 150	17,700	185	10	0.078	0.91	2.06	1.12	0.29	4.40	0.80	1.83	7.04
Rotary Cutter-Flex	20'	MFWD 150	24,500	185	10	0.058	0.68	1.54	1.17	0.22	3.62	0.83	1.37	5.84
Row Cond & Inc-Fold.	26'	MFWD 190	23,200	100	10	0.063	1.02	2.11	0.36	0.28	3.78	1.58	1.81	7.18
Row Cond & Inc-Fold.	38'	MFWD 225	27,300	100	10	0.043	0.70	1.70	0.29	0.25	2.96	1.27	1.65	5.89
Row Cond & Inc-Rigid	13'	2WD 130	11,400	100	10	0.126	2.04	2.88	0.36	0.38	5.68	1.55	2.36	9.60
Row Cond & Inc-Rigid	21'	2WD 170	15,200	100	10	0.078	1.26	2.33	0.29	0.29	4.19	1.28	1.86	7.34
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.88	0.11	0.11	1.54	0.47	0.76	2.77
Row Cond Folding	26'	MFWD 225	18,100	100	10	0.059	0.69	2.35	0.27	0.35	3.67	1.16	2.28	7.11
Row Cond Folding	38'	MFWD 225	22,200	100	10	0.040	0.47	1.60	0.22	0.24	2.55	0.97	1.56	5.09
Row Cond Rigid	13'	2WD 130	6,310	100	10	0.119	1.38	2.71	0.18	0.36	4.65	0.81	2.22	7.69
Row Cond Rigid	21'	2WD 170	10,100	100	10	0.073	0.85	2.20	0.18	0.27	3.51	0.80	1.75	6.08
Row Cond Rigid	26'	MFWD 190	11,500	100	10	0.059	0.69	1.98	0.17	0.26	3.11	0.73	1.70	5.56
Row Cond./Roll-Fold.	26'	MFWD 190	25,900	160	10	0.072	0.83	2.39	0.46	0.32	4.02	1.25	2.06	7.34
Row Cond./Roll-Fold.	30'	MFWD 190	35,400	160	10	0.062	0.72	2.07	0.55	0.27	3.63	1.48	1.78	6.90
Row Cond./Roll-Fold.	40'	MFWD 225	36,100	160	10	0.046	0.54	1.84	0.42	0.27	3.09	1.13	1.79	6.02
Row Cond./Roll-Rigid	21'	MFWD 190	19,700	160	10	0.089	1.03	2.96	0.43	0.39	4.84	1.18	2.55	8.57
Row Cond./Roll-Rigid	26'	MFWD 190	22,200	160	10	0.072	0.83	2.39	0.40	0.32	3.95	1.07	2.06	7.09
Spin Spreader	5 ton	MFWD 190	11,300	100	8	0.042	0.86	1.39	0.26	0.18	2.72	0.54	1.20	4.47
Spray (ATV Ropewick)	75"	800 CC	550	200	8	0.260	4.19	0.63	0.06	0.30	5.21	0.08	1.23	6.53
Spray (ATV)	12'/17'	800 CC	580	200	8	0.112	1.81	0.27	0.03	0.13	2.26	0.03	0.53	2.83
Spray (ATV)	20'	800 CC	1,280	200	8	0.084	1.36	0.20	0.05	0.10	1.72	0.06	0.40	2.18
Spray (Band)	27' Fold	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Band)	40' Fold	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Band)	50' Fold	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Band)	53' Fold	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Band)	60' Fold	MFWD 170	11,100	200	8	0.028	0.45	0.83	0.14	0.11	1.56	0.17	0.76	2.50
Spray (Bcast/HB)	13' Rigid	MFWD 150	4,860	200	8	0.130	2.09	3.41	0.29	0.49	6.31	0.36	3.03	9.71
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,570	200	8	0.084	1.36	2.22	0.22	0.32	4.12	0.27	1.97	6.37
Spray (Bcast/HB)	27' Fold	MFWD 170	9,640	200	8	0.062	1.01	1.86	0.28	0.26	3.42	0.34	1.69	5.46
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,410	200	8	0.062	1.01	1.86	0.18	0.26	3.32	0.23	1.69	5.25
Spray (Bcast/HB)	30' Fold	MFWD 170	13,300	200	8	0.056	0.90	1.67	0.35	0.23	3.17	0.43	1.52	5.13
Spray (Bcast/HB)	40' Fold	MFWD 170	13,500	200	8	0.042	0.68	1.25	0.26	0.17	2.38	0.32	1.14	3.85
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	1.01	1.86	0.60	0.26	3.74	0.73	1.69	6.17
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.68	1.25	0.48	0.17	2.60	0.59	1.14	4.33
Spray (Broadcast)	27'	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Broadcast)	40'	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Broadcast)	50'	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Broadcast)	53'	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Broadcast)	60'	MFWD 170	11,100	200	8	0.028	0.45	0.83	0.14	0.11	1.56	0.17	0.76	2.50
Spray (Direct/Hood)	8R-30	MFWD 170	14,700	200	8	0.084	1.36	2.51	0.58	0.35	4.82	0.71	2.28	7.82
Spray (Direct/Hood)	8R-38	MFWD 170	16,000	200	8	0.066	1.07	1.99	0.50	0.28	3.85	0.61	1.80	6.27
Spray (Direct/Hood)	12R-30	MFWD 170	18,700	200	8	0.056	0.90	1.67	0.49	0.23	3.32	0.60	1.52	5.44
Spray (Direct/Hood)	12R-38	MFWD 170	19,200	200	8	0.044	0.71	1.32	0.40	0.18	2.63	0.49	1.20	4.32
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.36	2.51	0.41	0.35	4.65	0.50	2.28	7.44
Spray (Direct/Layby)	8R-38	MFWD 170	11,300	200	8	0.066	1.07	1.99	0.35	0.28	3.70	0.43	1.80	5.94
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	16,700	200	8	0.044	0.71	1.32	0.34	0.18	2.57	0.42	1.20	4.20
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.09	2.01	0.38	0.28	3.77	0.47	1.82	6.07
Spray (Direct/Layby)	12R-30	MFWD 170	14,700	200	8	0.056	0.90	1.67	0.38	0.23	3.21	0.47	1.52	5.21
Spray (Direct/Layby)	12R-38	MFWD 170	16,700	200	8	0.044	0.71	1.32	0.34	0.18	2.57	0.42	1.20	4.20
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.02	1.88	0.29	0.26	3.46	0.35	1.71	5.53
Spray (Levee Leaper)	50'	MFWD 225	11,600	200	8	0.033	0.54	1.33	0.18	0.20	2.26	0.22	1.29	3.78
Spray (Pull Type)	60'	MFWD 225	26,900	200	8	0.028	0.45	1.11	0.35	0.16	2.08	0.43	1.07	3.60
Spray (Pull Type)	80'	MFWD 225	36,800	200	8	0.021	0.34	0.83	0.36	0.12	1.66	0.44	0.80	2.91
Spray (Pull Type)	90'	2WD 50	35,500	200	8	0.018	0.30	0.16	0.31	0.01	0.79	0.38	0.09	1.27
Spray (Pull Type)	100'	MFWD 225	36,800	200	8	0.016	0.27	0.66	0.29	0.10	1.33	0.35	0.64	2.33
Spray (Pull Type)	120'	MFWD 225	50,700	200	8	0.014	0.22	0.55	0.33	0.08	1.20	0.41	0.53	2.15
Spray (Ropewick)	20'	MFWD 190	2,450	200	8	0.084	1.36	2.81	0.09	0.37	4.65	0.11	2.41	7.19
Spray (Spot)	27'	MFWD 170	5,110	200	8	0.062	1.01	1.86	0.15	0.26	3.29	0.18	1.69	5.16
Spray (Spot)	40'	MFWD 170	6,350	200	8	0.042	0.68	1.25	0.12	0.17	2.24	0.15	1.14	3.54
Spray (Spot)	50'	MFWD 170	8,820	200	8	0.033	0.54	1.00	0.13	0.14	1.83	0.17	0.91	2.92
Spray (Spot)	53'	MFWD 170	5,800	200	8	0.031	0.51	0.94	0.08	0.13	1.68	0.10	0.86	2.65
Spray (Spot)	60'	MFWD 225	11,100	200	8	0.028	0.45	1.11	0.14	0.16	1.88	0.17	1.07	3.13
Stalk Shredder	14'	MFWD 150	12,400	200	10	0.117	1.36	3.09	1.27	0.44	6.18	0.78	2.75	9.72
Stalk Shredder	20'	MFWD 150	30,500	200	10	0.082	0.95	2.16	2.20	0.31	5.63	1.35	1.92	8.91
Stalk Shredder-Flail	12'	MFWD 150	14,800	200	10	0.137	1.59	3.60	1.78	0.52	7.50	1.09	3.20	11.81

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2012 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------$/acre----------							
Stalk Shredder-Flail	15'	MFWD 150	18,700	200	10	0.110	1.27	2.88	1.79	0.41	6.38	1.10	2.56	10.05
Stalk Shredder-Flail	18'	MFWD 150	23,100	200	10	0.091	1.06	2.40	1.85	0.34	5.67	1.13	2.13	8.94
Stalk Shredder-Flail	20'	MFWD 150	24,100	200	10	0.082	0.95	2.16	1.73	0.31	5.17	1.06	1.92	8.17
Stalk Shredder-Flail	25'	MFWD 150	31,400	200	10	0.066	0.76	1.73	1.81	0.25	4.56	1.11	1.54	7.21
Strip Till	12R-30	MFWD 225	28,600	150	10	0.061	0.71	2.42	0.76	0.36	4.27	1.26	2.35	7.88
Subsoiler	3 shank	MFWD 190	3,250	100	15	0.204	2.37	6.79	0.22	0.91	10.29	0.56	5.84	16.70
Subsoiler	4 shank	MFWD 225	7,340	100	15	0.153	1.78	6.04	0.37	0.91	9.12	0.95	5.86	15.94
Subsoiler	5 shank	MFWD 225	7,070	100	15	0.122	1.41	4.81	0.28	0.73	7.25	0.72	4.67	12.65
Subsoiler low-till	4 shank	MFWD 225	1,060	100	15	0.153	1.78	6.04	0.05	0.91	8.80	0.13	5.86	14.80
Subsoiler low-till	6 shank	MFWD 225	15,100	100	15	0.102	1.18	4.02	0.51	0.60	6.33	1.30	3.90	11.53
Subsoiler low-till	8 shank	MFWD 225	19,250	100	15	0.076	0.88	3.01	0.49	0.45	4.84	1.24	2.92	9.01

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, 2012

ITEM NAME	UNIT	PRICE
		dollars
ADJUVANTS		
Crop Oil Conc.(Pet.)	pt	1.55
Crop Oil Conc.(Veg.)	pt	3.36
Drift/Defoamer	pt	5.75
Spreader Sticker	pt	3.78
Surfactant	pt	2.62
CLEANING		
Cleaning Peanuts	ton	18.00
CROP CONSULTANT		
Crop Consultant	acre	5.00
Rice Consultant	acre	7.00
CUSTOM FERTILIZE		
App Fert by Air	cwt	6.25
App Fert by Air(Min)	appl	6.25
Custom Apply Fert	acre	7.00
CUSTOM LIME		
Lime (Spread)	ton	44.00
CUSTOM PLANT		
Custom Plant	acre	7.00
Custom Plant Air	cwt	6.25
CUSTOM SPRAY		
App by Air (2 gal)	appl	3.75
App by Air (3 gal)	appl	4.50
App by Air (5 gal)	appl	5.75
App by Air (10 gal)	appl	7.75
Custom Spray	acre	6.50
DRYING		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Peanuts	ton	24.00
Dry Rice	bu	0.40
ERADICATION FEE		
Eradication	acre	1.50
FERTILIZERS		
Amm Nitrate (34% N)	cwt	20.58
Amm Sulfate (21% N)	cwt	18.90
Amm Sulfate dry/mix	lb	0.28
Boron 15G	lb	0.40
Boron Plus	pt	4.00
DAP	cwt	32.46
Fert 10-34-0	cwt	29.25
Fert 11-37-0	cwt	30.25
Fert 30-0-0-5	cwt	18.32
Fert 33-0-0-12s	cwt	21.50
Fert 41-0-0-4	cwt	21.88
Lime	ton	34.00
MAP	cwt	33.33
Phosphorus(46% P2O5)	cwt	28.65
Potash (60% K2O)	cwt	29.19
Sulfur 90%	lb	0.30
Sulfur Plus	pt	2.37
SuperMax AMS	pt	2.47
UAN (32% N)	cwt	18.54
UAN + Sulfur (28%)	cwt	18.54
Urea, Solid (46% N)	cwt	22.29
Zinc Plus	pt	2.62
Zinc Sulfate 31%	lb	0.55
FUNGICIDES		
Abound	pt	31.25
Absolute 500SC	pt	53.42
Allegiance Flowable	pt	50.63
Apron Maxx RTA	oz	0.83
Apron Maxx RTA+Moly	pt	14.84
Apron XL LS	oz	8.51
Artisan	oz	0.85
Bravo Ultrex	lb	6.83
Bravo Weather Stick	pt	3.72
Captan 50 WP	lb	5.05
Cotton Seed Trt.	acre	20.00
Dithane F-45	qt	8.13
Dithane Rainshield	lb	2.25
Enable 2F	oz	1.90
Folicur 3.6	oz	1.08
Gem 25 WG	oz	3.70
Headline EC	oz	2.66
Manzate 75 DF	lb	3.49
Manzate Flowable	pt	4.60
Moncut 70 DF	lb	24.85
Prevail	lb	28.25
Provost	oz	2.16
Quadris	oz	2.24
Quadris Ridomil Gold	oz	3.26
Quilt	pt	16.88
Quilt XCEL	pt	22.06
Ridomil Gold	oz	6.25
Ridomil Gold PC GR	lb	2.35
Rovral 4F	pt	16.88
Stiletto	oz	0.56
Stratego	pt	19.31
Terrachlor 2EC	pt	1.87
Tilt 3.6 EC	oz	1.25
Tilt/ Bravo SE	oz	0.30
Uniform	oz	3.07
Vitavax RTU-Thiram	oz	0.35
GINNING		
Gin & Haul	lb	0.09
GROWTH REGULATORS		
Early Harvest PGR	oz	1.55
Mepex	oz	0.08
Mepex Gin Out	oz	0.14
Mepiquat	oz	0.08
Mepiquat Extra	oz	0.09
Pentia	pt	4.44
Stance	oz	1.15
SuperBoll	pt	3.00
HARVEST AIDS		
Adios	oz	1.29
Aim 2EC	oz	6.70
Ammonium Sulfate	lb	0.28
Boll Buster	pt	3.27
CottonQuik	pt	4.25
Def 6	pt	7.34
Def/Folex	pt	7.92
Defol 3	gal	3.00
Defol 5	gal	5.95
Defol 750	pt	1.24
Dropp SC	oz	1.74
ET	pt	46.88
Ethephon 6E	pt	3.55
Finish 6	pt	7.29
First Pick	pt	3.12
Folex 6EC	pt	8.49
Freefall SC	oz	1.41
Ginstar EC	pt	27.36
Gramoxone Inteon	oz	0.30
Prep	pt	3.00
Shed-a-leaf	gal	3.60
Sodium Chlorate 3L	gal	3.00
Sodium Chlorate 5L	gal	5.95
TDZ SC	oz	1.37
Thidiazuron 4lb	oz	1.41
Tribufos 6lb	pt	7.92
HAULING		
Haul Corn/Bin	bu	0.16
Haul Corn/Field	bu	0.24
Haul Cotton	lb	0.02
Haul Peanuts	ton	14.50
Haul Rice/Bin	bu	0.32
Haul Rice/Field	bu	0.26
Haul Sorghum/Bin	bu	0.16

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Haul Sorghum/Field	bu	0.24	Fusilade DX	oz	1.13
Haul Soybeans/Bin	bu	0.16	Fusion	pt	24.31
Haul Soybeans/Field	bu	0.24	Glyfos	pt	1.66
Haul Wheat/Bin	bu	0.16	Glyfos Xtra	pt	1.56
Haul Wheat/Field	bu	0.24	Glyphosate 3lbs a.e.	pt	1.75
HERBICIDES			Glyphosate 3lbs a.e.	oz	0.11
2,4-D Amine 4	pt	2.01	Glystar	pt	1.66
2,4-D LV 4Ester	pt	2.31	Glystar Plus	pt	1.56
2,4-D Weedar 64	pt	1.99	Goal 2XL	pt	9.31
2,4-DB 200	pt	4.34	Gramoxone Inteon	oz	0.25
AAtrex 4L	pt	2.12	Grandstand R	qt	24.63
AAtrex NINE-O	lb	4.60	Guardsman Max	pt	6.66
Accent Q	oz	28.05	Halex GT	pt	5.00
Accent SP	oz	36.25	Harmony Extra SG	oz	12.50
Aim 2EC	oz	10.38	Harmony Extra XP	oz	14.40
Assure II	oz	0.84	Harmony GT	oz	19.35
Atrazine 4L	pt	2.04	Harness	pt	11.88
Atrazine 90DF	lb	4.25	Harness XTRA	pt	7.31
Axial	pt	14.94	Hoelon 3EC	pt	11.03
Axiom 68DF	lb	26.95	Hornet WDG	lb	65.62
Banvel	pt	4.94	Ignite 280	oz	0.40
Basagran	pt	11.69	Impact	oz	18.25
Basis	oz	17.50	Karmex XP	lb	6.50
Beacon 75% WSP	oz	34.87	Lariat	qt	5.71
Beyond	oz	4.20	Layby Pro	qt	12.75
Bicep II Magnum	qt	11.01	Lexar	pt	5.72
Bicep Lite Magnum	pt	7.07	Lightning	oz	14.25
Blazer Ultra	pt	8.94	Linex 4L	pt	8.87
Bolero 8EC	pt	6.50	Londax 60DF	oz	14.50
Boundary 6.5 EC	pt	8.72	Lorox 50DF	lb	18.83
Buccaneer Plus	pt	1.81	Makaze	pt	1.50
Buctril 4EC	pt	17.06	MSMA 6.6	pt	2.69
Bullet	pt	2.97	MSMA6 Plus	pt	2.81
Butoxone	pt	4.12	Newpath 2SL	oz	3.29
Butyrac 200 (2,4-DB)	pt	3.84	Option	oz	9.95
Cadre	oz	3.16	Ordram 15-GM	lb	1.34
Callisto 4SC	oz	4.77	Osprey	oz	3.05
Canopy 75%	oz	3.13	Outlook	pt	20.63
Canopy EX	oz	6.50	Parrlay	pt	8.13
Caparol 4L	pt	3.59	Peak Accu Pak	oz	13.75
Celebrity Plus	lb	84.50	Permit 75 DF	oz	17.88
Clarity	pt	10.31	Poast 1.53	pt	10.22
Classic	oz	15.28	Poast Plus	pt	7.84
Clearpath	lb	50.00	Prefix	pt	6.14
Clincher SF	oz	1.97	Propimax EC	pt	
Cobra 2EC	oz	1.30	Prowl 3.3 EC	pt	4.29
Command 3ME	pt	14.75	Prowl H20	pt	5.13
Cornerstone Plus	pt	1.50	Pursuit 2S	oz	4.73
Cotoran 4L	pt	4.69	Python WDG	oz	12.44
Cotton Pro	pt	3.44	Raptor	oz	4.62
Credit Extra	pt	1.69	Reflex 2LC	pt	15.44
Direx 4L	pt	3.00	Regiment 80WP	oz	36.63
Diuron 4L	pt	3.28	Remedy Ultra	pt	11.86
Diuron 80 DF	lb	5.25	Resolve SG	oz	7.20
Diuron 80%	lb	5.25	Resource .86EC	pt	24.30
Dual II Magnum	pt	12.25	Ricebeaux	pt	5.04
Dual Magnum	pt	12.25	RicePro	pt	4.94
Duet	pt	4.45	Riceshot	pt	3.34
Envoke	oz	83.08	Ricestar HT	pt	20.59
Equip	oz	10.65	Rifel	pt	4.38
Evik DF 80W	lb	9.75	Roundup Power Max	oz	0.14
Exceed	oz	10.71	Roundup PowerMax	pt	2.28
Expert	pt	3.69	Roundup WeatherMax	oz	0.21
Facet 75DF	lb	45.50	Roundup WeatherMax	pt	3.28
Finesse	oz	14.75	Salvo	pt	3.56
First Rate	oz	38.60	Scepter 70 DG	oz	3.91
Flexstar HL	pt	15.63	Select Max	pt	11.80
Fluometuron 4lb	pt	4.50	Sequence	pt	5.53
Frontier 6.0	oz	0.63			(continued)
Fultime	pt	4.56			

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Simazine 4L	pt	3.14	Imidan 70 WSB	oz	0.66
Stalwart	pt	6.25	Incidental Pest Trt	acre	12.00
Stam 80 EDF	lb	6.25	Intrepid 2F	oz	1.79
Stam M4	qt	6.69	Intruder 70WSP	oz	9.03
Staple LX	oz	7.35	Karate Z	oz	2.73
Steadfast	oz	23.95	Kelthane MF 4EC	pt	5.03
Sterling Blue	pt	9.81	Lannate LV	pt	9.56
Storm	*pt*	*11.56*	Lannate SP	oz	1.68
Strada WG	oz	6.30	Larvin 3.2	oz	0.60
Strongarm	oz	47.50	Leverage 2.7	oz	1.33
Superwham	qt	8.26	Lorsban 15G	lb	1.85
Suprend	lb	11.50	Lorsban 4E	pt	5.00
Surpass EC	qt	23.00	Malathion 5E	pt	4.44
Synchrony XP	oz	9.98	Malathion 8E	pt	5.50
Touchdown Total	qt	4.25	Methyl Parathion 4	pt	5.44
Treflan HFP	pt	3.12	Monitor 4	pt	16.33
Treflan TR-10	lb	0.92	Mustang Max	oz	1.43
Trifluralin 4EC	pt	3.19	Oberon 4 SC	pt	71.22
Ultra Blazer	pt	10.23	Orthene 90S	lb	3.25
Valor SX	oz	4.58	Penncap-M	pt	4.59
Valor XLT	oz	3.73	Phorate	lb	2.69
Whip 360	pt	25.08	Pounce 25WP	lb	10.63
Zorial Rapid 80DF	lb	13.95	Prolex	oz	2.62
INOCULANT			Provado 1.6F	oz	1.94
Nitrastick S	lbseed	0.02	Respect .8EC	pt	29.04
Optimize LIFT	oz	0.58	Sevin 4F	pt	5.22
INSECT SCOUTING			Sevin 80S	lb	7.35
Insect Scouting	acre	7.00	Sevin XLR Plus	qt	11.13
INSECTICIDES			Sniper	oz	0.70
Acephate 90%	lb	6.63	Steward	pt	28.13
Acephate 90SP	lb	6.63	Temik 15G Grit	lb	4.00
Acramite-4SC	oz	1.37	Temik 15G Gypsum	lb	3.90
Ambush 2E	oz	0.27	Thimet 20-G Lock N L	lb	3.10
Asana .66 XL	oz	0.71	Thionex 3 EC	pt	3.47
Aztec 2.1% G	lb	2.65	Thionex 50W	lb	8.20
Baythroid XL	oz	2.19	Tombstone Helios	pt	36.30
Bidrin 8WM	oz	0.91	Tracer 4SC	oz	8.20
Bidrin XP	oz	0.78	Trimax Pro	oz	2.30
Bifenture 2EC	pt	12.50	Tundra	oz	0.80
Brigade EC	pt	12.50	Vydate C-LV	oz	0.70
Brigade WSB	lb	21.00	Warrior Z	oz	1.80
Capture 2EC	oz	1.76	Wrangler	oz	1.70
Capture LFR	oz	1.80	Zeal	oz	14.50
Carbaryl 4L	pt	4.34	Zephyr	oz	2.20
Carbine 50WG	oz	5.11	IRRIGATION SUPPLIES		
Centric 40WG	oz	3.58	Roll-Out Pipe	ft	0.20
Comite ll	pt	6.00	SEED/PLANTS		
Confirm 2F	oz	1.68	Corn Seed BtRR	thous	2.93
Counter 15G	lb	2.50	Corn Seed RR2	thous	2.78
Cruiser 5FS	oz	13.25	Corn Seed VT3	thous	2.97
Curacron 8E	pt	10.78	Corn Seed VT3Pro	thous	3.23
Cypermethrin	oz	0.47	Cotton Seed B2RF	thous	0.62
Delta Gold	pt	40.47	Cotton Seed LL	thous	1.05
Denim 0.16 EC	pt	27.19	Cotton Seed LLB2	thous	1.10
Di-Syston 15G	lb	3.48	Cotton Seed RF	thous	0.57
Di-Syston 8	pt	14.32	Cotton Seed W	thous	0.49
Diamond .83EC	pt	16.74	Cotton Seed WRF	thous	0.63
Dimethoate 4E	pt	5.50	Peanut Seed	lb	1.25
Dimilin 2L	oz	1.76	Rice Clearfield	lb	0.94
Dipel DF	lb	12.25	Rice Clearfield Hyb	lb	5.70
Dipel ES	pt	4.56	Rice Conv. Hybrid	lb	1.00
Discipline 2 EC	oz	0.78	Rice Seed (Levees)	lb	0.45
Endigo ZC	pt	26.25	Rice Seed CF(Levees)	lb	0.94
Fanfare 2EC	oz	0.78	Rice Seed CFH(Levee)	lb	5.70
Force 3G	lb	4.85	Rice Seed Conv.	lb	0.45
Furadan 4F	pt	9.81	Sorghum Concept	lb	1.82
Furadan 4FLFR	pt	9.70	Soybean Seed LL	lb	0.99
Gaucho 600	oz	5.75	Soybean Seed RR2	lb	0.98
Hero	pt	21.88	Wheat Seed Private	lb	0.32
Holster	pt	0.80			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2012 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
			LLB2 Cot Tech Fee	thous	0.76
SURVEY & MARK LEVEES			RF Cot Tech Fee	thous	1.04
Survey & Mark Levees	acre	4.50	RF Cot Tech Fee	cap/ac	48.25
Survey & Mark Levees	acre	4.50	WRF Cot Tech Fee	thous	1.45
TECHNOLOGY FEE			WS Cot Tech Fee	thous	0.41
B2 Cot Tech Fee	thous	0.76	WS Cotton Tech Fee	cap/ac	24.00
B2 Cot Tech Fee	cap/ac	35.25			
B2RF Cot Tech Fee	thous	1.49			
B2RF Cot Tech Fee	cap/ac	69.25			

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2012

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	3.40
Gasoline	gal	3.50
LP Gas	gal	2.60
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, 2012

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	11.60
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, 2012

	Unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '12	5.93	-0.2894	5.64	2.09	5.64
Cotton Lint	lb	Dec '12	0.939	-0.0263	0.913	.524	0.913
Cottonseed	lb						0.076[f]
Grain Sorghum	bu				5.36	6.31	5.36
Peanuts	ton				750.00	355.00	750.00
Soybeans	bu	Nov '12	12.17	-0.3120	11.86	5.20	11.86
Rice	bu	Sep '12	7.47	-0.8030	6.67	2.96	6.67
Wheat	bu	Jul '12	6.99	-0.7008	6.29	2.29	6.29

[a] Average of the futures contract month closings in October.

[b] The basis is computed by subtracting the 2001-2011 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 2011 crop year for soybeans, corn, grain sorghum, and wheat. 2011 Mississippi base loan rate for the Delta area for cotton. 2011 Mississippi loan rate for long grain rice. 2011 national average loan rate for peanuts.

[e] Price used in the 2012 MAFES Planning Budgets.

[f] Cottonseed price is the marketing year average price averaged over the years 2006-2010, 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.01	0.46		0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.48	0.09	0.19		0.02	0.78	0.55	1.33
Survey & Mark Levees	acre	4.50					0.10	4.60		4.60
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		1.27	0.24	0.50		0.04	2.05	1.47	3.52
Butt Levees										
Blade-Box	6'-7'		0.46	0.07	0.23		0.02	0.78	0.38	1.16
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Install Gates										
IRRIGATE LABOR	hour				2.72		0.06	2.78		2.78
Apply Water										
IRRIGATE LABOR	hour				6.80		0.14	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	8 blade		0.87	0.17	0.39		0.01	1.44	0.96	2.40
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.33	0.06	0.14			0.53	0.36	0.89
Land Forming ($75)	each								7.09	7.09
Levee Gates	each								0.53	0.53
Well & Pump, Flood	each			4.88			0.09	4.97	14.78	19.75
Engine, Rice CL, 75	each								14.55	14.55
May Irrigation	ac-in		16.62	1.21			0.38	18.21		18.21
June Irrigation	ac-in		24.93	1.82			0.47	27.22		27.22
July Irrigation	ac-in		24.93	1.82			0.38	27.13		27.13
August Irrigation	ac-in		24.93	1.82			0.28	27.03		27.03
TOTALS		4.50	94.82	12.18	33.41	0.00	2.31	147.22	40.67	187.89

Note: Cost of production estimates are based on 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		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		0.96	0.18	0.37		0.03	1.54	1.10	2.64
Butt Levees										
Blade-Box	6'-7'		0.46	0.07	0.23		0.02	0.78	0.38	1.16
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	8 blade		0.66	0.12	0.29		0.01	1.08	0.72	1.80
Land Forming ($390)	each								28.37	28.37
Levee Gates	each								0.53	0.53
Well & Pump, Flood	each			4.88			0.09	4.97	14.78	19.75
Engine, Rice SL, 75	each								14.55	14.55
May Irrigation	ac-in		16.62	1.48			0.38	18.48		18.48
June Irrigation	ac-in		19.39	1.73			0.37	21.49		21.49
July Irrigation	ac-in		19.39	1.73			0.30	21.42		21.42
August Irrigation	ac-in		19.39	1.73			0.22	21.34		21.34
TOTALS		2.25	76.87	11.92	22.41	0.00	1.82	115.27	60.43	175.70

Note: Cost of production estimates are based on 2011 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, 2012

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		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		0.96	0.18	0.37		0.03	1.54	1.10	2.64
Butt Levees										
Blade-Box	6'-7'		0.46	0.07	0.23		0.02	0.78	0.38	1.16
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Ditcher (1m/160a)			0.21	0.05	0.11		0.01	0.38	0.19	0.57
Roll-Out Pipe	ft	6.60					0.14	6.74		6.74
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.28	0.06	0.37		0.02	0.73	0.50	1.23
Install Gates										
IRRIGATE LABOR	hour				1.36		0.03	1.39		1.39
Apply Water										
IRRIGATE LABOR	hour				1.81		0.04	1.85		1.85
Apply Water										
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				1.81		0.02	1.83		1.83
Remove Gates										
IRRIGATE LABOR	hour				0.45			0.45		0.45
Tear Down Levees										
Levee Splitter (1/80	8 blade		0.66	0.12	0.29		0.01	1.08	0.72	1.80
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.14	0.03	0.18			0.35	0.25	0.60
Land Forming ($390)	each								28.37	28.37
Levee Gates	each								0.26	0.26
Well & Pump, Flood	each			4.88			0.09	4.97	14.78	19.75
Engine, Mult In Rice	each								14.55	14.55
May Irrigation	ac-in		13.85	1.39			0.32	15.56		15.56
June Irrigation	ac-in		16.62	1.66			0.32	18.60		18.60
July Irrigation	ac-in		16.62	1.66			0.26	18.54		18.54
August Irrigation	ac-in		16.62	1.66			0.19	18.47		18.47
TOTALS		8.85	66.42	11.76	11.73	0.00	1.63	100.39	61.10	161.49

Note: Cost of production estimates are based on 2011 input prices.

Appendix Table 11. Table 19.C Estimated costs for field operations, per acre
Straight levee rice - zero grade flood irrigation
80-acre system, 19 ac-in., Delta Area, Mississippi, 2012

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	19.75
Engine, Rice SL, 75	each								14.55	14.55
May Irrigation	ac-in		11.08	0.99			0.26	12.33		12.33
June Irrigation	ac-in		13.85	1.23			0.27	15.35		15.35
July Irrigation	ac-in		13.85	1.23			0.21	15.29		15.29
August Irrigation	ac-in		13.85	1.23			0.16	15.24		15.24
TOTALS		0.00	52.63	9.56	9.53	0.00	1.14	72.86	57.70	130.56

Note: Cost of production estimates are based on 2011 input prices.

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