

**DELTA  
2011  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2010-15**

**December 2010**



## Foreword

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

## Acknowledgments

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

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

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# 2011 Planning Budgets

## Budgets for Agricultural Enterprises

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

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

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

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

## Methods and Procedures

### Production Practices

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

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

### Machinery

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

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

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

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

### Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some 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

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

where:

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



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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

### Estimates of Returns

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

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

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

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

### Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 through 18. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

### 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  
Cotton, 8R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
UAN (32% N)	cwt	12.50	4.0000	50.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.1134	12.65	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	1.1322	12.84	_____
DIESEL FUEL					
Tractors	gal	2.39	10.8888	26.03	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	4.45	1.0000	4.45	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	9.06	1.0000	9.06	_____
TOTAL DIRECT EXPENSES				538.73	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				104.86	_____
TOTAL SPECIFIED EXPENSES				643.59	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 1.B Summary of estimated costs and returns per acre  
Cotton, 8R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	84.50	1.0000	84.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.7289	6.61	_____
OPERATOR LABOR	hour	11.35	1.4152	16.08	_____
UNALLOCATED LABOR	hour	11.34	1.1322	12.84	_____
DIESEL FUEL	gal	2.39	15.9294	38.08	_____
REPAIR & MAINTENANCE	acre	28.40	1.0000	28.40	_____
INTEREST ON OP. CAP.	acre	9.06	1.0000	9.06	_____
				-----	
TOTAL DIRECT EXPENSES				538.73	_____
RETURNS ABOVE DIRECT EXPENSES				315.82	_____
				-----	
TOTAL FIXED EXPENSES				104.86	_____
				-----	
TOTAL SPECIFIED EXPENSES				643.59	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				210.96	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 1.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
Paratill & Bed Fold.	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	0.50	Mar		0.03	0.03	0.03	0.02
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
<b>TOTALS</b>							<b>1.41</b>	<b>1.11</b>	<b>2.14</b>	<b>1.13</b>

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 1.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Paratill & Bed Fold.	8R-38		1.89	1.79	1.65			0.23	5.56	4.74	10.30
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Clarity	pt	5.93						0.17	6.10		6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62		3.62
Disk Bed (Hipper)Rdg	8R-38		0.87	0.29	0.76			0.06	1.98	1.35	3.33
Custom Apply Fert	acre	6.25						0.18	6.43		6.43
Potash (60% K2O)	cwt	34.50						1.00	35.50		35.50
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.12	5.00	2.98	7.98
UAN (32% N)	cwt	25.00						0.63	25.63		25.63
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31	5.41
Plant & Pre-Rigid	8R-38		1.88	1.31	2.37			0.12	5.68	4.04	9.72
Cotton Seed B2RF	thous	27.45						0.59	28.04		28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50		68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43		20.43
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	2.00						0.04	2.04		2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95	1.93
Dual Magnum	pt	12.64						0.27	12.91		12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	1.81						0.04	1.85		1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95	1.93
Centric 40WG	oz	8.44						0.15	8.59		8.59
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58		3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98	7.95
UAN (32% N)	cwt	25.00						0.45	25.45		25.45
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.06	3.90	2.16	6.06
Diuron 80%	lb	4.55						0.07	4.62		4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57		3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Acephate 90%	lb	4.52						0.07	4.59		4.59
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
App by Air ( 3 gal)	appl	1.00						0.01	1.01		1.01
Karate Z	oz	1.44						0.02	1.46		1.46
Bidrin 8WM	oz	1.70						0.02	1.72		1.72
Incidental Pest											
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Incidental Pest Trt	acre	12.00						0.17	12.17		12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04		4.04
Acephate 90%	lb	6.16						0.07	6.23		6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54		5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51		3.51
Ethephon 6E	pt	3.79						0.03	3.82		3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48	0.96
Tribufos 6lb	pt	3.27						0.02	3.29		3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46	90.43
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81	23.67
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83	27.53
Gin & Haul	lb	81.00						0.29	81.29		81.29
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82	10.71
<b>TOTALS</b>			427.66	38.08	28.40	35.53	0.00	9.06	538.73	104.86	643.59

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 1.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	34.50	25.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.65	0.00	0.00	0.00	0.76	1.93	4.03	2.37	1.67	0.00	0.22	22.90
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	1.89	0.00	0.00	0.00	0.87	1.81	3.66	2.19	1.56	0.00	0.19	25.91
REPAIR & MAINTENANCE	1.79	0.00	0.00	0.00	0.29	1.14	1.86	1.28	0.61	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.23	0.00	0.00	0.00	1.67	0.75	3.26	0.78	0.60	0.11	0.12	0.54
TOTAL DIRECT EXPENSES	29.56	0.00	0.00	0.00	59.29	30.63	154.28	44.38	41.97	10.27	16.64	151.71
NET INCOME	-29.56	0.00	0.00	0.00	-59.29	-30.63	-154.28	-44.38	-41.97	-10.27	-16.64	702.84
NET INCOME TO DATE	-29.56	-29.56	-29.56	-29.56	-88.85	-119.48	-273.76	-318.14	-360.11	-370.38	-387.02	315.82

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

PRODUCT			-----PERCENT-----										
			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-119	-100	-81	-62	-43	-24	-5	13	32	51	70
			-224	-205	-186	-167	-148	-129	-110	-91	-71	-52	-33
60	540.00	lb	-70	-47	-24	-1	20	43	66	89	112	135	157
			-175	-152	-129	-106	-83	-61	-38	-15	7	30	53
70	630.00	lb	-21	5	31	58	85	111	138	165	191	218	245
			-126	-99	-73	-46	-19	6	33	60	86	113	140
80	720.00	lb	27	57	88	118	149	179	210	240	271	301	332
			-77	-46	-16	14	44	74	105	135	166	196	227
90	810.00	lb	76	110	145	179	213	247	282	316	350	384	419
			-28	5	40	74	108	142	177	211	245	280	314
100	900.00	lb	125	163	201	239	277	315	353	391	430	468	506
			20	58	96	134	172	210	249	287	325	363	401
110	990.00	lb	174	216	258	300	341	383	425	467	509	551	593
			69	111	153	195	237	278	320	362	404	446	488
120	1080.00	lb	223	269	314	360	406	451	497	543	588	634	680
			118	164	209	255	301	346	392	438	484	529	575
130	1170.00	lb	272	321	371	420	470	519	569	618	668	717	767
			167	217	266	316	365	414	464	513	563	612	662
140	1260.00	lb	321	374	427	481	534	587	641	694	747	801	854
			216	269	323	376	429	483	536	589	642	696	749
150	1350.00	lb	370	427	484	541	598	655	712	770	827	884	941
			265	322	379	436	493	551	608	665	722	779	836

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

Table 2.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Amm Nitrate (34% N)	cwt	18.00	2.0000	36.00	_____
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
UAN (32% N)	cwt	12.50	2.0000	25.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.9212	10.47	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	0.9785	11.10	_____
DIESEL FUEL					
Tractors	gal	2.39	9.0100	21.53	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	3.68	1.0000	3.68	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	9.10	1.0000	9.10	_____
TOTAL DIRECT EXPENSES				537.99	_____
FIXED EXPENSES					
Implements	acre	12.52	1.0000	12.52	_____
Tractors	acre	23.87	1.0000	23.87	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				96.23	_____
TOTAL SPECIFIED EXPENSES				634.22	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 2.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	95.50	1.0000	95.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.6934	6.29	_____
OPERATOR LABOR	hour	11.35	1.2231	13.90	_____
UNALLOCATED LABOR	hour	11.34	0.9785	11.10	_____
DIESEL FUEL	gal	2.39	14.0506	33.58	_____
REPAIR & MAINTENANCE	acre	25.36	1.0000	25.36	_____
INTEREST ON OP. CAP.	acre	9.10	1.0000	9.10	_____
				-----	
TOTAL DIRECT EXPENSES				537.99	_____
RETURNS ABOVE DIRECT EXPENSES				316.56	_____
				-----	
TOTAL FIXED EXPENSES				96.23	_____
				-----	
TOTAL SPECIFIED EXPENSES				634.22	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				220.33	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 2.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Custom Apply Fert	acre			1.00	Mar	1.0000				
Amm Nitrate (34% N)	cwt					2.0000				
Potash (60% K2O)	cwt					1.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant&Pre-Rigid	8R-38	MFWD 190	0.083	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.22	0.92	1.91	0.97

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 2.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
Clarity	pt	5.93						0.17	6.10	6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Amm Nitrate (34% N)	cwt	36.00						1.04	37.04	37.04
Potash (60% K2O)	cwt	34.50						1.00	35.50	35.50
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31 5.41
NT Plant&Pre-Rigid	8R-38		1.95	1.49	2.47			0.13	6.04	4.48 10.52
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98 7.95
UAN (32% N)	cwt	25.00						0.45	25.45	25.45
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.07	3.91	2.16 6.07
Diuron 80%	lb	4.55						0.08	4.63	4.63
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Acephate 90%	lb	4.52						0.07	4.59	4.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48 0.96
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46 90.43
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81 23.67
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83 27.53
Gin & Haul	lb	81.00						0.29	81.29	81.29
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82 10.71
TOTALS		438.66	33.58	25.36	31.29	0.00	9.10	537.99	96.23	634.22

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 2.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	70.50	0.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	11.59	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.04	0.00	0.00	0.22	22.90
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	0.00	0.00	0.00	0.00	0.00	0.00	3.73	3.75	0.00	0.00	0.19	25.91
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.04	1.89	0.00	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.00	0.00	0.00	0.00	2.65	0.00	3.27	0.99	0.42	0.11	0.12	0.54
TOTAL DIRECT EXPENSES	24.00	0.00	0.00	0.00	94.35	0.00	154.64	56.50	29.88	10.27	16.64	151.71
NET INCOME	-24.00	0.00	0.00	0.00	-94.35	0.00	-154.64	-56.50	-29.88	-10.27	-16.64	702.84
NET INCOME TO DATE	-24.00	-24.00	-24.00	-24.00	-118.35	-118.35	-272.99	-329.49	-359.37	-369.64	-386.28	316.56

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-118	-99	-80	-61	-42	-23	-4	14	33	52	71
			-214	-195	-176	-157	-138	-119	-100	-81	-62	-43	-24
60	540.00	lb	-69	-46	-24	-1	21	44	67	90	113	135	158
			-165	-143	-120	-97	-74	-51	-28	-6	16	39	62
70	630.00	lb	-20	5	32	59	85	112	139	165	192	219	245
			-116	-90	-63	-37	-10	16	42	69	96	122	149
80	720.00	lb	28	58	89	119	150	180	210	241	271	302	332
			-67	-37	-7	23	53	84	114	145	175	206	236
90	810.00	lb	77	111	145	180	214	248	282	317	351	385	419
			-18	15	49	83	118	152	186	220	255	289	323
100	900.00	lb	126	164	202	240	278	316	354	392	430	468	506
			29	68	106	144	182	220	258	296	334	372	410
110	990.00	lb	175	217	258	300	342	384	426	468	510	552	593
			78	120	162	204	246	288	330	372	413	455	497
120	1080.00	lb	224	269	315	361	406	452	498	543	589	635	681
			127	173	219	264	310	356	402	447	493	539	584
130	1170.00	lb	273	322	372	421	471	520	570	619	669	718	768
			176	226	275	325	374	424	473	523	572	622	671
140	1260.00	lb	322	375	428	482	535	588	641	695	748	801	855
			225	279	332	385	439	492	545	598	652	705	758
150	1350.00	lb	371	428	485	542	599	656	713	770	827	885	942
			274	331	389	446	503	560	617	674	731	788	845

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 3.A Estimated costs per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2RF variety, Delta Area, Mississippi,

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	811.0000	72.99	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.3500	31.05	_____
UAN (32% N)	cwt	12.50	3.6000	45.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	96.3200	10.60	_____
Dual Magnum	pt	12.64	0.6700	8.47	_____
Diuron 80%	lb	4.55	0.6700	3.05	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	1.3400	5.65	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	30.0000	18.30	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	30.0000	44.70	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	13.3600	1.34	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.8722	9.93	_____
Self-Propelled	hour	11.35	0.1811	2.06	_____
HAND LABOR					
Implements	hour	9.06	0.3442	3.10	_____
Self-Propelled	hour	9.06	0.1767	1.60	_____
UNALLOCATED LABOR					
	hour	11.32	0.8426	9.54	_____
DIESEL FUEL					
Tractors	gal	2.39	8.5299	20.40	_____
Self-Propelled	gal	2.39	3.1835	7.61	_____
REPAIR & MAINTENANCE					
Implements	acre	8.84	1.0000	8.84	_____
Tractors	acre	3.49	1.0000	3.49	_____
Self-Propelled	acre	10.30	1.0000	10.30	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____
TOTAL DIRECT EXPENSES				445.31	_____
FIXED EXPENSES					
Implements	acre	14.72	1.0000	14.72	_____
Tractors	acre	22.57	1.0000	22.57	_____
Self-Propelled	acre	42.06	1.0000	42.06	_____
TOTAL FIXED EXPENSES				79.35	_____
TOTAL SPECIFIED EXPENSES				524.66	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.



Table 3.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2RF variety, Delta Area, Mississippi,

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	811.0000	686.11	_____
Cotton Seed	lb	0.06	1217.0000	83.97	_____
				-----	
TOTAL INCOME				770.08	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	72.99	1.0000	72.99	_____
FERTILIZERS	acre	76.05	1.0000	76.05	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	28.05	1.0000	28.05	_____
INSECTICIDES	acre	33.28	1.0000	33.28	_____
SEED/PLANTS	acre	18.30	1.0000	18.30	_____
TECHNOLOGY FEE	acre	44.70	1.0000	44.70	_____
GROWTH REGULATORS	acre	1.34	1.0000	1.34	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.5209	4.70	_____
OPERATOR LABOR	hour	11.35	1.0533	11.99	_____
UNALLOCATED LABOR	hour	11.32	0.8426	9.54	_____
DIESEL FUEL	gal	2.39	11.7135	28.01	_____
REPAIR & MAINTENANCE	acre	22.63	1.0000	22.63	_____
INTEREST ON OP. CAP.	acre	7.54	1.0000	7.54	_____
				-----	
TOTAL DIRECT EXPENSES				445.31	_____
RETURNS ABOVE DIRECT EXPENSES				324.77	_____
TOTAL FIXED EXPENSES					
				79.35	_____
				-----	
TOTAL SPECIFIED EXPENSES				524.66	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				245.42	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 3.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Nov	0.5000				
Paratill & Bed Fold.	8R-38 2x1	MFWD 190	0.053	1.00	Nov		0.05	0.05	0.05	0.04
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.3500				
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					1.8000				
Row Cond Folding	38'	MFWD 190	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	8R-38 2x1	MFWD 190	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					30.0000				
B2RF Cot Tech Fee	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 190	0.044	1.00	May		0.04	0.04	0.06	0.03
Dual Magnum	pt					0.6700				
Glyphosate 3lbs a.e.	oz					21.4400				
Acephate 90%	lb					0.2200				
Spray (Direct/Layby)	8R-38 2x1	MFWD 190	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					5.3600				
Glyphosate 3lbs a.e.	oz					21.4400				
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					1.8000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 190	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 80%	lb					0.6700				
Glyphosate 3lbs a.e.	oz					21.4400				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1(350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1(350)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1(350)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
<b>TOTALS</b>							<b>1.05</b>	<b>0.87</b>	<b>1.57</b>	<b>0.84</b>

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 3.D Estimated costs for field operations, per acre  
Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
Conservation tillage, B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Paratill & Bed Fold.	8R-38 2x1		1.26	1.45	1.10			0.16	3.97	3.63	7.60
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Clarity	pt	5.93						0.17	6.10		6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62		3.62
Disk Bed (Hipper)	8R-38 2x1		0.58	0.24	0.50			0.04	1.36	1.03	2.39
Custom Apply Fert	acre	6.25						0.18	6.43		6.43
Potash (60% K2O)	cwt	31.05						0.90	31.95		31.95
Fert Appl (Liquid)	8R-38 2x1		1.21	0.74	1.29			0.08	3.32	1.96	5.28
UAN (32% N)	cwt	22.50						0.57	23.07		23.07
Row Cond Folding	38'		0.96	0.38	0.83			0.05	2.22	2.00	4.22
Plant & Pre-Folding	8R-38 2x1		1.25	1.53	1.58			0.09	4.45	4.01	8.46
Cotton Seed B2RF	thous	18.30						0.40	18.70		18.70
B2RF Cot Tech Fee	thous	44.70						0.97	45.67		45.67
Cotton Seed Trt.	acre	13.40						0.29	13.69		13.69
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	2.00						0.04	2.04		2.04
Spray (Direct/Layby)	8R-38 2x1		1.04	0.62	1.11			0.06	2.83	1.70	4.53
Dual Magnum	pt	8.47						0.18	8.65		8.65
Glyphosate 3lbs a.e.	oz	2.36						0.05	2.41		2.41
Acephate 90%	lb	1.81						0.04	1.85		1.85
Spray (Direct/Layby)	8R-38 2x1		1.04	0.62	1.11			0.05	2.82	1.70	4.52
Centric 40WG	oz	5.65						0.10	5.75		5.75
Mepiquat Chloride	oz	0.54						0.01	0.55		0.55
Glyphosate 3lbs a.e.	oz	2.36						0.04	2.40		2.40
Fert Appl (Liquid)	8R-38 2x1		1.21	0.74	1.29			0.06	3.30	1.96	5.26
UAN (32% N)	cwt	22.50						0.41	22.91		22.91
Spray (Direct/Layby)	8R-38 2x1		1.04	0.62	1.11			0.04	2.81	1.70	4.51
Diuron 80%	lb	3.05						0.04	3.09		3.09
Glyphosate 3lbs a.e.	oz	2.36						0.03	2.39		2.39
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Acephate 90%	lb	4.52						0.07	4.59		4.59
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
App by Air ( 3 gal)	appl	1.00						0.01	1.01		1.01
Karate Z	oz	1.44						0.02	1.46		1.46
Bidrin 8WM	oz	1.70						0.02	1.72		1.72
Incidental Pest											
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Incidental Pest Trt	acre	12.00						0.17	12.17		12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04		4.04
Acephate 90%	lb	6.16						0.07	6.23		6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54		5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51		3.51
Ethephon 6E	pt	3.79						0.03	3.82		3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48	0.96
Tribufos 6lb	pt	3.27						0.02	3.29		3.29
Cotton Picker	4R2x1(350)		7.42	10.23	5.08			0.08	22.81	41.58	64.39
Boll Buggy	4R2x1(350)		4.03	1.68	3.52			0.03	9.26	6.55	15.81
Module Builder	4R2x1(350)		4.03	2.00	5.08			0.04	11.15	7.23	18.38
Gin & Haul	lb	72.99						0.26	73.25		73.25
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82	10.71
TOTALS		360.90	28.01	22.63	26.23	0.00	7.54	445.31	79.35	524.66	

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 3.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	770.08
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.99
FERTILIZERS	0.00	0.00	0.00	0.00	31.05	22.50	0.00	22.50	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	10.83	2.36	5.41	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	5.65	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	18.30	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	44.70	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.10	0.00	0.00	0.00	0.50	1.29	3.52	2.40	1.11	0.00	0.22	16.09
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	1.26	0.00	0.00	0.00	0.58	1.21	3.25	2.25	1.04	0.00	0.19	18.23
REPAIR & MAINTENANCE	1.45	0.00	0.00	0.00	0.24	0.74	2.53	1.36	0.62	0.00	0.07	15.62
INTEREST ON OP. CAP.	1.16	0.00	0.00	0.00	1.55	0.65	2.32	0.67	0.53	0.11	0.12	0.43
TOTAL DIRECT EXPENSES	27.97	0.00	0.00	0.00	55.12	26.39	109.66	37.73	38.17	10.27	16.64	123.36
NET INCOME	-27.97	0.00	0.00	0.00	-55.12	-26.39	-109.66	-37.73	-38.17	-10.27	-16.64	646.72
NET INCOME TO DATE	-27.97	-27.97	-27.97	-27.97	-83.09	-109.48	-219.14	-256.87	-295.04	-305.31	-321.95	324.77

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2RF variety, Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-67	-50	-33	-15	1	18	35	52	69	86	104
			-146	-129	-112	-95	-78	-61	-43	-26	-9	7	24
60	486.60	lb	-23	-2	17	38	59	79	100	120	141	161	182
			-102	-82	-61	-40	-20	0	20	41	62	82	103
70	567.70	lb	20	44	68	92	116	140	164	188	212	236	260
			-58	-34	-10	13	37	61	85	109	133	157	181
80	648.80	lb	64	92	119	147	174	202	229	257	284	311	339
			-14	13	40	67	95	122	150	177	205	232	260
90	729.90	lb	109	139	170	201	232	263	294	325	356	386	417
			29	60	91	122	153	184	215	245	276	307	338
100	811.00	lb	153	187	221	256	290	324	359	393	427	461	496
			73	108	142	176	211	245	279	314	348	382	416
110	892.10	lb	197	235	272	310	348	386	423	461	499	536	574
			118	155	193	231	268	306	344	382	419	457	495
120	973.20	lb	241	282	323	365	406	447	488	529	570	612	653
			162	203	244	285	326	367	409	450	491	532	573
130	1054.30	lb	285	330	374	419	464	508	553	597	642	687	731
			206	250	295	340	384	429	473	518	563	607	652
140	1135.40	lb	329	377	425	473	521	569	617	665	713	762	810
			250	298	346	394	442	490	538	586	634	682	730
150	1216.50	lb	373	425	476	528	579	631	682	734	785	837	888
			294	346	397	448	500	551	603	654	706	757	809

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 4.A Estimated costs per acre  
Cotton, 8R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	5.5000	22.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
UAN (32% N)	cwt	12.50	4.0000	50.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Tracer 4SC	oz	7.64	5.1120	39.06	_____
Karate Z	oz	2.87	6.0000	17.22	_____
Bidrin 8WM	oz	0.85	8.0000	6.80	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed RF	thous	0.57	45.0000	25.65	_____
TECHNOLOGY FEE					
RF Cot Tech Fee	thous	1.04	45.0000	46.80	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.1134	12.65	_____
Self-Propelled	hour	11.35	0.3089	3.51	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.2833	2.57	_____
UNALLOCATED LABOR					
	hour	11.33	1.1378	12.90	_____
DIESEL FUEL					
Tractors	gal	2.39	10.8888	26.03	_____
Self-Propelled	gal	2.39	5.1040	12.20	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	4.45	1.0000	4.45	_____
Self-Propelled	acre	14.55	1.0000	14.55	_____
INTEREST ON OP. CAP.	acre	9.45	1.0000	9.45	_____
TOTAL DIRECT EXPENSES				580.38	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	60.22	1.0000	60.22	_____
TOTAL FIXED EXPENSES				105.24	_____
TOTAL SPECIFIED EXPENSES				685.62	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 4.B Summary of estimated costs and returns per acre  
Cotton, 8R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	33.00	1.0000	33.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	84.50	1.0000	84.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	90.00	1.0000	90.00	_____
SEED/PLANTS	acre	25.65	1.0000	25.65	_____
TECHNOLOGY FEE	acre	46.80	1.0000	46.80	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.7324	6.64	_____
OPERATOR LABOR	hour	11.35	1.4223	16.16	_____
UNALLOCATED LABOR	hour	11.33	1.1378	12.90	_____
DIESEL FUEL	gal	2.39	15.9929	38.23	_____
REPAIR & MAINTENANCE	acre	28.46	1.0000	28.46	_____
INTEREST ON OP. CAP.	acre	9.45	1.0000	9.45	_____
				-----	
TOTAL DIRECT EXPENSES				580.38	_____
RETURNS ABOVE DIRECT EXPENSES				274.17	_____
				-----	
TOTAL FIXED EXPENSES				105.24	_____
				-----	
TOTAL SPECIFIED EXPENSES				685.62	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				168.93	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 4.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
Paratill & Bed Fold.	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	0.50	Mar		0.03	0.03	0.03	0.02
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed RF	thous					45.0000				
RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.40	Jun			0.00	0.01	0.00
Tracer 4SC	oz					0.8520				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Mepiquat Chloride	oz					8.0000				
Acephate 90%	lb					0.5500				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Bidrin 8WM	oz					8.0000				
Incidental Pest				0.50	Jul					
App by Air ( 3 gal)	appl					0.5000				
Incidental Pest Trt	acre					0.5000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Tracer 4SC	oz					2.1300				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Tracer 4SC	oz					2.1300				
Karate Z	oz					2.0000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.42	1.11	2.15	1.13

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.



Table 4.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Paratill & Bed Fold.	8R-38		1.89	1.79	1.65			0.23	5.56	4.74	10.30
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Clarity	pt	5.93						0.17	6.10		6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62		3.62
Disk Bed (Hipper)Rdg	8R-38		0.87	0.29	0.76			0.06	1.98	1.35	3.33
Custom Apply Fert	acre	6.25						0.18	6.43		6.43
Potash (60% K2O)	cwt	34.50						1.00	35.50		35.50
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.12	5.00	2.98	7.98
UAN (32% N)	cwt	25.00						0.63	25.63		25.63
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31	5.41
Plant & Pre-Rigid	8R-38		1.88	1.31	2.37			0.12	5.68	4.04	9.72
Cotton Seed RF	thous	25.65						0.56	26.21		26.21
RF Cot Tech Fee	thous	46.80						1.01	47.81		47.81
Cotton Seed Trt.	acre	20.00						0.43	20.43		20.43
Insect Scouting	acre	7.00						0.15	7.15		7.15
Eradication	acre	2.00						0.04	2.04		2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95	1.93
Dual Magnum	pt	12.64						0.27	12.91		12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	1.81						0.04	1.85		1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95	1.93
Centric 40WG	oz	8.44						0.15	8.59		8.59
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58		3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98	7.95
UAN (32% N)	cwt	25.00						0.45	25.45		25.45
Sprayer 600-750gal	60' 175hp		0.15	0.06	0.17			0.01	0.39	0.38	0.77
Tracer 4SC	oz	6.51						0.12	6.63		6.63
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.06	3.90	2.16	6.06
Diuron 80%	lb	4.55						0.07	4.62		4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57		3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Acephate 90%	lb	4.52						0.07	4.59		4.59
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Karate Z	oz	5.74						0.08	5.82		5.82
Bidrin 8WM	oz	6.80						0.10	6.90		6.90
Incidental Pest											
App by Air ( 3 gal)	appl	2.00						0.03	2.03		2.03
Incidental Pest Trt	acre	6.00						0.09	6.09		6.09
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Karate Z	oz	5.74						0.08	5.82		5.82
Tracer 4SC	oz	16.27						0.23	16.50		16.50
App by Air ( 3 gal)	appl	4.00						0.04	4.04		4.04
Acephate 90%	lb	6.16						0.07	6.23		6.23
App by Air ( 3 gal)	appl	4.00						0.04	4.04		4.04
Tracer 4SC	oz	16.27						0.18	16.45		16.45
Karate Z	oz	5.74						0.06	5.80		5.80
App by Air ( 5 gal)	appl	5.50						0.04	5.54		5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51		3.51
Ethephon 6E	pt	3.79						0.03	3.82		3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48	0.96
Tribufos 6lb	pt	3.27						0.02	3.29		3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46	90.43
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81	23.67
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83	27.53
Gin & Haul	lb	81.00						0.29	81.29		81.29
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82	10.71
TOTALS		468.54	38.23	28.46	35.70	0.00	9.45	580.38	105.24	685.62	

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 4.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	14.00	8.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	34.50	25.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	14.95	45.07	28.17	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.65	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.65	0.00	0.00	0.00	0.76	1.93	4.03	2.54	1.67	0.00	0.22	22.90
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	1.89	0.00	0.00	0.00	0.87	1.81	3.66	2.34	1.56	0.00	0.19	25.91
REPAIR & MAINTENANCE	1.79	0.00	0.00	0.00	0.29	1.14	1.86	1.34	0.61	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.23	0.00	0.00	0.00	1.67	0.75	2.79	0.91	1.05	0.39	0.12	0.54
TOTAL DIRECT EXPENSES	29.56	0.00	0.00	0.00	59.29	30.63	131.76	51.40	72.83	36.56	16.64	151.71
NET INCOME	-29.56	0.00	0.00	0.00	-59.29	-30.63	-131.76	-51.40	-72.83	-36.56	-16.64	702.84
NET INCOME TO DATE	-29.56	-29.56	-29.56	-29.56	-88.85	-119.48	-251.24	-302.64	-375.47	-412.03	-428.67	274.17

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RF variety, Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-161	-142	-122	-103	-84	-65	-46	-27	-8	10	29
			-266	-247	-228	-209	-190	-171	-152	-133	-114	-94	-75
60	540.00	lb	-112	-89	-66	-43	-20	2	24	47	70	93	116
			-217	-194	-171	-148	-125	-103	-80	-57	-34	-11	11
70	630.00	lb	-63	-36	-9	16	43	70	96	123	150	176	203
			-168	-141	-115	-88	-61	-35	-8	18	44	71	98
80	720.00	lb	-14	16	46	77	107	138	168	199	229	259	290
			-119	-88	-58	-28	2	32	63	93	124	154	185
90	810.00	lb	34	69	103	137	171	206	240	274	308	343	377
			-70	-36	-1	32	66	100	135	169	203	237	272
100	900.00	lb	83	121	159	198	236	274	312	350	388	426	464
			-21	16	54	92	130	168	207	245	283	321	359
110	990.00	lb	132	174	216	258	300	342	384	425	467	509	551
			27	69	111	153	195	236	278	320	362	404	446
120	1080.00	lb	181	227	273	318	364	410	455	501	547	592	638
			76	122	167	213	259	304	350	396	442	487	533
130	1170.00	lb	230	280	329	379	428	478	527	577	626	676	725
			125	174	224	273	323	372	422	471	521	570	620
140	1260.00	lb	279	333	386	439	492	546	599	652	706	759	812
			174	227	281	334	387	440	494	547	600	654	707
150	1350.00	lb	328	385	442	500	557	614	671	728	785	842	899
			223	280	337	394	451	508	566	623	680	737	794

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 5.A Estimated costs per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
UAN (32% N)	cwt	12.50	4.0000	50.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.7477	8.51	_____
Self-Propelled	hour	11.35	0.2016	2.29	_____
HAND LABOR					
Implements	hour	9.06	0.2997	2.70	_____
Self-Propelled	hour	9.06	0.1869	1.69	_____
UNALLOCATED LABOR					
	hour	11.33	0.7595	8.61	_____
DIESEL FUEL					
Tractors	gal	2.39	8.6602	20.69	_____
Self-Propelled	gal	2.39	3.5228	8.43	_____
REPAIR & MAINTENANCE					
Implements	acre	8.39	1.0000	8.39	_____
Tractors	acre	3.77	1.0000	3.77	_____
Self-Propelled	acre	11.58	1.0000	11.58	_____
INTEREST ON OP. CAP.	acre	8.80	1.0000	8.80	_____
TOTAL DIRECT EXPENSES				513.12	_____
FIXED EXPENSES					
Implements	acre	13.89	1.0000	13.89	_____
Tractors	acre	24.50	1.0000	24.50	_____
Self-Propelled	acre	47.93	1.0000	47.93	_____
TOTAL FIXED EXPENSES				86.32	_____
TOTAL SPECIFIED EXPENSES				599.44	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 5.B Summary of estimated costs and returns per acre  
Cotton, 12R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	84.50	1.0000	84.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.4867	4.39	_____
OPERATOR LABOR	hour	11.35	0.9494	10.80	_____
UNALLOCATED LABOR	hour	11.33	0.7595	8.61	_____
DIESEL FUEL	gal	2.39	12.1830	29.12	_____
REPAIR & MAINTENANCE	acre	23.74	1.0000	23.74	_____
INTEREST ON OP. CAP.	acre	8.80	1.0000	8.80	_____
				-----	
TOTAL DIRECT EXPENSES				513.12	_____
RETURNS ABOVE DIRECT EXPENSES				341.43	_____
TOTAL FIXED EXPENSES					
				86.32	_____
				-----	
TOTAL SPECIFIED EXPENSES				599.44	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				255.11	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 5.C Estimated resource use for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
Paratill & Bed Fold.	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K20)	cwt					1.5000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.94	0.74	1.43	0.75

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 5.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Paratill & Bed Fold.	12R-38		1.49	1.51	1.10			0.18	4.28	4.00 8.28
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
Clarity	pt	5.93						0.17	6.10	6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Disk Bed (Hipper)	12R-38		0.68	0.26	0.50			0.04	1.48	1.20 2.68
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Potash (60% K20)	cwt	34.50						1.00	35.50	35.50
Fert Appl (Liquid)	12R-38		1.43	0.79	1.29			0.09	3.60	2.31 5.91
UAN (32% N)	cwt	25.00						0.63	25.63	25.63
Row Cond Folding	38'		1.13	0.43	0.83			0.05	2.44	2.28 4.72
Plant & Pre-Folding	12R-38		1.48	1.59	1.58			0.10	4.75	4.38 9.13
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.02	0.81	0.92 1.73
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.01	0.80	0.92 1.72
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	12R-38		1.43	0.79	1.29			0.06	3.57	2.31 5.88
UAN (32% N)	cwt	25.00						0.45	25.45	25.45
Spray (Direct/Layby)	12R-38		1.23	0.66	1.11			0.04	3.04	2.01 5.05
Diuron 80%	lb	4.55						0.07	4.62	4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57	3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Acephate 90%	lb	4.52						0.07	4.59	4.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-825gal	90' 250hp		0.18	0.07	0.15				0.40	0.46 0.86
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	6R-38(355)		7.53	11.23	5.08			0.09	23.93	45.63 69.56
Boll Buggy	6R-38(330)		4.77	1.86	3.52			0.04	10.19	7.74 17.93
Module Builder	6R-38(330)		4.77	2.18	5.08			0.04	12.07	8.42 20.49
Gin & Haul	lb	81.00						0.29	81.29	81.29
Stalk Shredder-Flail	20'		2.28	2.09	1.69			0.02	6.08	3.74 9.82
TOTALS		427.66	29.12	23.74	23.80	0.00	8.80	513.12	86.32	599.44

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 5.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	34.50	25.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.10	0.00	0.00	0.00	0.50	1.29	2.70	1.58	1.11	0.00	0.15	15.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.49	0.00	0.00	0.00	0.68	1.43	2.97	1.79	1.23	0.00	0.18	19.35
REPAIR & MAINTENANCE	1.51	0.00	0.00	0.00	0.26	0.79	2.16	0.93	0.66	0.00	0.07	17.36
INTEREST ON OP. CAP.	1.18	0.00	0.00	0.00	1.65	0.72	3.22	0.74	0.58	0.11	0.12	0.48
TOTAL DIRECT EXPENSES	28.28	0.00	0.00	0.00	58.79	29.23	152.52	42.80	41.11	10.27	16.56	133.56
NET INCOME	-28.28	0.00	0.00	0.00	-58.79	-29.23	-152.52	-42.80	-41.11	-10.27	-16.56	720.99
NET INCOME TO DATE	-28.28	-28.28	-28.28	-28.28	-87.07	-116.30	-268.82	-311.62	-352.73	-363.00	-379.56	341.43

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.



Table 5.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2RF variety, Delta Area, Mississippi, 2011

PRODUCT			-----PERCENT-----										
			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-93 -180	-74 -161	-55 -142	-36 -123	-17 -103	1 -84	20 -65	39 -46	58 -27	77 -8	96 10
60	540.00	lb	-44 -131	-21 -108	0 -85	23 -62	46 -39	69 -16	92 5	115 28	137 51	160 74	183 97
70	630.00	lb	4 -82	30 -55	57 -28	84 -2	110 24	137 51	164 77	190 104	217 131	243 157	270 184
80	720.00	lb	53 -33	83 -2	114 27	144 58	174 88	205 119	235 149	266 180	296 210	327 240	357 271
90	810.00	lb	102 15	136 50	170 84	204 118	239 152	273 187	307 221	341 255	376 289	410 324	444 358
100	900.00	lb	151 64	189 102	227 140	265 178	303 217	341 255	379 293	417 331	455 369	493 407	531 445
110	990.00	lb	200 113	241 155	283 197	325 239	367 281	409 323	451 364	493 406	535 448	576 490	618 532
120	1080.00	lb	249 162	294 208	340 254	386 299	431 345	477 391	523 436	568 482	614 528	660 573	705 619
130	1170.00	lb	298 211	347 261	396 310	446 360	495 409	545 459	594 508	644 558	693 607	743 657	792 706
140	1260.00	lb	346 260	400 313	453 367	506 420	560 473	613 527	666 580	720 633	773 687	826 740	879 793
150	1350.00	lb	395 309	453 366	510 423	567 480	624 538	681 595	738 652	795 709	852 766	909 823	967 880

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

Table 6.A Estimated costs per acre  
 Cotton, 12R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
Amm Nitrate (34% N)	cwt	18.00	2.0000	36.00	_____
UAN (32% N)	cwt	12.50	2.0000	25.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.6198	7.05	_____
Self-Propelled	hour	11.35	0.2016	2.29	_____
HAND LABOR					
Implements	hour	9.06	0.2760	2.49	_____
Self-Propelled	hour	9.06	0.1869	1.69	_____
UNALLOCATED LABOR					
	hour	11.33	0.6572	7.45	_____
DIESEL FUEL					
Tractors	gal	2.39	7.1790	17.15	_____
Self-Propelled	gal	2.39	3.5228	8.43	_____
REPAIR & MAINTENANCE					
Implements	acre	6.67	1.0000	6.67	_____
Tractors	acre	3.13	1.0000	3.13	_____
Self-Propelled	acre	11.58	1.0000	11.58	_____
INTEREST ON OP. CAP.	acre	8.94	1.0000	8.94	_____
TOTAL DIRECT EXPENSES				515.53	_____
FIXED EXPENSES					
Implements	acre	11.01	1.0000	11.01	_____
Tractors	acre	20.31	1.0000	20.31	_____
Self-Propelled	acre	47.93	1.0000	47.93	_____
TOTAL FIXED EXPENSES				79.25	_____
TOTAL SPECIFIED EXPENSES				594.78	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 6.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	95.50	1.0000	95.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.4630	4.18	_____
OPERATOR LABOR	hour	11.35	0.8215	9.34	_____
UNALLOCATED LABOR	hour	11.33	0.6572	7.45	_____
DIESEL FUEL	gal	2.39	10.7018	25.58	_____
REPAIR & MAINTENANCE	acre	21.38	1.0000	21.38	_____
INTEREST ON OP. CAP.	acre	8.94	1.0000	8.94	_____
				-----	
TOTAL DIRECT EXPENSES				515.53	_____
RETURNS ABOVE DIRECT EXPENSES				339.02	_____
TOTAL FIXED EXPENSES					
				79.25	_____
				-----	
TOTAL SPECIFIED EXPENSES				594.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				259.77	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 6.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K2O)	cwt					1.5000				
Amm Nitrate (34% N)	cwt					2.0000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant&Pre-Folding	12R-38	MFWD 225	0.055	1.00	May		0.05	0.05	0.11	0.04
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
<b>TOTALS</b>							<b>0.82</b>	<b>0.61</b>	<b>1.28</b>	<b>0.65</b>

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 6.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, no-till  
B2RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
Clarity	pt	5.93						0.17	6.10	6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Potash (60% K2O)	cwt	34.50						1.00	35.50	35.50
Amm Nitrate (34% N)	cwt	36.00						1.04	37.04	37.04
Row Cond Folding	38'		1.13	0.43	0.83			0.05	2.44	2.28 4.72
NT Plant&Pre-Folding	12R-38		1.54	1.79	1.64			0.11	5.08	4.82 9.90
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.02	0.81	0.92 1.73
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.01	0.80	0.92 1.72
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	12R-38		1.43	0.79	1.29			0.06	3.57	2.31 5.88
UAN (32% N)	cwt	25.00						0.45	25.45	25.45
Spray (Direct/Layby)	12R-38		1.23	0.66	1.11			0.05	3.05	2.01 5.06
Diuron 80%	lb	4.55						0.08	4.63	4.63
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Acephate 90%	lb	4.52						0.07	4.59	4.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-825gal	90' 250hp		0.18	0.07	0.15				0.40	0.46 0.86
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	6R-38(355)		7.53	11.23	5.08			0.09	23.93	45.63 69.56
Boll Buggy	6R-38(330)		4.77	1.86	3.52			0.04	10.19	7.74 17.93
Module Builder	6R-38(330)		4.77	2.18	5.08			0.04	12.07	8.42 20.49
Gin & Haul	lb	81.00						0.29	81.29	81.29
Stalk Shredder-Flail	20'		2.28	2.09	1.69			0.02	6.08	3.74 9.82
TOTALS		438.66	25.58	21.38	20.97	0.00	8.94	515.53	79.25	594.78

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 6.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, no-till  
B2RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	70.50	0.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	11.59	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	2.76	2.69	0.00	0.00	0.15	15.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	3.03	3.02	0.00	0.00	0.18	19.35
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.36	1.59	0.00	0.00	0.07	17.36
INTEREST ON OP. CAP.	1.00	0.00	0.00	0.00	2.65	0.00	3.23	0.93	0.42	0.11	0.12	0.48
TOTAL DIRECT EXPENSES	24.00	0.00	0.00	0.00	94.35	0.00	152.85	54.06	29.88	10.27	16.56	133.56
NET INCOME	-24.00	0.00	0.00	0.00	-94.35	0.00	-152.85	-54.06	-29.88	-10.27	-16.56	720.99
NET INCOME TO DATE	-24.00	-24.00	-24.00	-24.00	-118.35	-118.35	-271.20	-325.26	-355.14	-365.41	-381.97	339.02

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2RF variety, Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-96	-77	-58	-39	-20	-1	18	37	56	75	94
			-175	-156	-137	-118	-99	-80	-61	-42	-23	-4	14
60	540.00	lb	-47	-24	-1	21	44	66	89	112	135	158	181
			-126	-103	-80	-57	-35	-12	10	33	56	79	101
70	630.00	lb	1	28	55	81	108	134	161	188	214	241	268
			-77	-50	-24	2	29	55	82	109	135	162	188
80	720.00	lb	50	81	111	142	172	202	233	263	294	324	355
			-28	1	32	62	93	123	154	184	215	245	276
90	810.00	lb	99	133	168	202	236	271	305	339	373	408	442
			20	54	88	123	157	191	226	260	294	328	363
100	900.00	lb	148	186	224	262	300	339	377	415	453	491	529
			69	107	145	183	221	259	297	335	373	412	450
110	990.00	lb	197	239	281	323	365	407	448	490	532	574	616
			118	160	202	244	285	327	369	411	453	495	537
120	1080.00	lb	246	292	337	383	429	475	520	566	612	657	703
			167	213	258	304	350	395	441	487	532	578	624
130	1170.00	lb	295	345	394	444	493	543	592	642	691	741	790
			216	265	315	364	414	463	513	562	612	661	711
140	1260.00	lb	344	397	451	504	557	611	664	717	770	824	877
			265	318	371	425	478	531	585	638	691	745	798
150	1350.00	lb	393	450	507	564	621	679	736	793	850	907	964
			314	371	428	485	542	599	656	714	771	828	885

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 7.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	5.5000	22.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	23.00	1.5000	34.50	_____
UAN (32% N)	cwt	12.50	4.0000	50.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.86	0.5000	5.93	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Tracer 4SC	oz	7.64	5.1120	39.06	_____
Karate Z	oz	2.87	6.0000	17.22	_____
Bidrin 8WM	oz	0.85	8.0000	6.80	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed RF	thous	0.57	45.0000	25.65	_____
TECHNOLOGY FEE					
RF Cot Tech Fee	thous	1.04	45.0000	46.80	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradiation	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.7477	8.51	_____
Self-Propelled	hour	11.35	0.2087	2.37	_____
HAND LABOR					
Implements	hour	9.06	0.2997	2.70	_____
Self-Propelled	hour	9.06	0.1905	1.72	_____
UNALLOCATED LABOR					
	hour	11.33	0.7652	8.67	_____
DIESEL FUEL					
Tractors	gal	2.39	8.6602	20.69	_____
Self-Propelled	gal	2.39	3.5862	8.58	_____
REPAIR & MAINTENANCE					
Implements	acre	8.39	1.0000	8.39	_____
Tractors	acre	3.77	1.0000	3.77	_____
Self-Propelled	acre	11.64	1.0000	11.64	_____
INTEREST ON OP. CAP.	acre	9.19	1.0000	9.19	_____
TOTAL DIRECT EXPENSES				554.77	_____
FIXED EXPENSES					
Implements	acre	13.89	1.0000	13.89	_____
Tractors	acre	24.50	1.0000	24.50	_____
Self-Propelled	acre	48.31	1.0000	48.31	_____
TOTAL FIXED EXPENSES				86.70	_____
TOTAL SPECIFIED EXPENSES				641.47	_____

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.



Table 7.B Summary of estimated costs and returns per acre  
Cotton, 12R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	900.0000	761.40	_____
Cotton Seed	lb	0.06	1350.0000	93.15	_____
				-----	
TOTAL INCOME				854.55	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	33.00	1.0000	33.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	84.50	1.0000	84.50	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	37.20	1.0000	37.20	_____
INSECTICIDES	acre	90.00	1.0000	90.00	_____
SEED/PLANTS	acre	25.65	1.0000	25.65	_____
TECHNOLOGY FEE	acre	46.80	1.0000	46.80	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.4902	4.42	_____
OPERATOR LABOR	hour	11.35	0.9565	10.88	_____
UNALLOCATED LABOR	hour	11.33	0.7652	8.67	_____
DIESEL FUEL	gal	2.39	12.2465	29.27	_____
REPAIR & MAINTENANCE	acre	23.80	1.0000	23.80	_____
INTEREST ON OP. CAP.	acre	9.19	1.0000	9.19	_____
				-----	
TOTAL DIRECT EXPENSES				554.77	_____
RETURNS ABOVE DIRECT EXPENSES				299.78	_____
TOTAL FIXED EXPENSES					
				86.70	_____
				-----	
TOTAL SPECIFIED EXPENSES				641.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				213.08	_____

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 7.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Nov	0.5000				
Paratill & Bed Fold.	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Disk Bed (Hipper)	12R-38	MFWD 225	0.049	0.50	Mar		0.02	0.02	0.02	0.01
Custom Apply Fert	acre			1.00	Mar	1.0000				
Potash (60% K20)	cwt					1.5000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant & Pre-Folding	12R-38	MFWD 225	0.053	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed RF	thous					45.0000				
RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32% N)	cwt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.40	Jun			0.00	0.01	0.00
Tracer 4SC	oz					0.8520				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron 80%	lb					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.5500				
Mepiquat Chloride	oz					8.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Bidrin 8WM	oz					8.0000				
Incidental Pest				0.50	Jul					
App by Air ( 3 gal)	appl					0.5000				
Incidental Pest Trt	acre					0.5000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Karate Z	oz					2.0000				
Tracer 4SC	oz					2.1300				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Tracer 4SC	oz					2.1300				
Karate Z	oz					2.0000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.95	0.74	1.44	0.76

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
 This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 7.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
RF variety, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Paratill & Bed Fold.	12R-38		1.49	1.51	1.10			0.18	4.28	4.00 8.28
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
Clarity	pt	5.93						0.17	6.10	6.10
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Disk Bed (Hipper)	12R-38		0.68	0.26	0.50			0.04	1.48	1.20 2.68
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Potash (60% K2O)	cwt	34.50						1.00	35.50	35.50
Fert Appl (Liquid)	12R-38		1.43	0.79	1.29			0.09	3.60	2.31 5.91
UAN (32% N)	cwt	25.00						0.63	25.63	25.63
Row Cond Folding	38'		1.13	0.43	0.83			0.05	2.44	2.28 4.72
Plant & Pre-Folding	12R-38		1.48	1.59	1.58			0.10	4.75	4.38 9.13
Cotton Seed RF	thous	25.65						0.56	26.21	26.21
RF Cot Tech Fee	thous	46.80						1.01	47.81	47.81
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.02	0.81	0.92 1.73
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-825gal	90' 250hp		0.36	0.14	0.29			0.01	0.80	0.92 1.72
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	12R-38		1.43	0.79	1.29			0.06	3.57	2.31 5.88
UAN (32% N)	cwt	25.00						0.45	25.45	25.45
Sprayer 600-750gal	60' 175hp		0.15	0.06	0.17			0.01	0.39	0.38 0.77
Tracer 4SC	oz	6.51						0.12	6.63	6.63
Spray (Direct/Layby)	12R-38		1.23	0.66	1.11			0.04	3.04	2.01 5.05
Diuron 80%	lb	4.55						0.07	4.62	4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57	3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Acephate 90%	lb	4.52						0.07	4.59	4.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Karate Z	oz	5.74						0.08	5.82	5.82
Bidrin 8WM	oz	6.80						0.10	6.90	6.90
Incidental Pest										
App by Air ( 3 gal)	appl	2.00						0.03	2.03	2.03
Incidental Pest Trt	acre	6.00						0.09	6.09	6.09
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Karate Z	oz	5.74						0.08	5.82	5.82
Tracer 4SC	oz	16.27						0.23	16.50	16.50
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Tracer 4SC	oz	16.27						0.18	16.45	16.45
Karate Z	oz	5.74						0.06	5.80	5.80
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-825gal	90' 250hp		0.18	0.07	0.15				0.40	0.46 0.86
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	6R-38(355)		7.53	11.23	5.08			0.09	23.93	45.63 69.56
Boll Buggy	6R-38(330)		4.77	1.86	3.52			0.04	10.19	7.74 17.93
Module Builder	6R-38(330)		4.77	2.18	5.08			0.04	12.07	8.42 20.49
Gin & Haul	lb	81.00						0.29	81.29	81.29
Stalk Shredder-Flail	20'		2.28	2.09	1.69			0.02	6.08	3.74 9.82
TOTALS		468.54	29.27	23.80	23.97	0.00	9.19	554.77	86.70	641.47

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

Table 7.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 RF variety, Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.55
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	14.00	8.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.00
FERTILIZERS	0.00	0.00	0.00	0.00	34.50	25.00	0.00	25.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.45	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	14.95	45.07	28.17	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.65	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.10	0.00	0.00	0.00	0.50	1.29	2.70	1.75	1.11	0.00	0.15	15.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.49	0.00	0.00	0.00	0.68	1.43	2.97	1.94	1.23	0.00	0.18	19.35
REPAIR & MAINTENANCE	1.51	0.00	0.00	0.00	0.26	0.79	2.16	0.99	0.66	0.00	0.07	17.36
INTEREST ON OP. CAP.	1.18	0.00	0.00	0.00	1.65	0.72	2.75	0.87	1.03	0.39	0.12	0.48
TOTAL DIRECT EXPENSES	28.28	0.00	0.00	0.00	58.79	29.23	130.00	49.82	71.97	36.56	16.56	133.56
NET INCOME	-28.28	0.00	0.00	0.00	-58.79	-29.23	-130.00	-49.82	-71.97	-36.56	-16.56	720.99
NET INCOME TO DATE	-28.28	-28.28	-28.28	-28.28	-87.07	-116.30	-246.30	-296.12	-368.09	-404.65	-421.21	299.78

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

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

This budget may be converted to an irrigated budget by adding the costs from either Appendix Table 8 or 9. Adjustments in yields may be required with the addition of supplemental irrigation.

\* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 RF variety, Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-135	-116	-97	-78	-59	-40	-21	-2	16	35	54
			-222	-203	-184	-165	-146	-126	-107	-88	-69	-50	-31
60	540.00	lb	-86	-63	-40	-17	4	27	50	73	96	119	141
			-173	-150	-127	-104	-81	-58	-36	-13	9	32	55
70	630.00	lb	-37	-10	15	42	69	95	122	149	175	202	228
			-124	-97	-70	-44	-17	9	35	62	88	115	142
80	720.00	lb	11	41	72	102	133	163	194	224	255	285	316
			-75	-44	-14	16	46	77	107	137	168	198	229
90	810.00	lb	60	94	128	163	197	231	266	300	334	368	403
			-26	8	42	76	110	145	179	213	247	282	316
100	900.00	lb	109	147	185	223	261	299	337	375	413	452	490
			22	60	98	136	175	213	251	289	327	365	403
110	990.00	lb	158	200	242	284	325	367	409	451	493	535	577
			71	113	155	197	239	281	322	364	406	448	490
120	1080.00	lb	207	253	298	344	390	435	481	527	572	618	664
			120	166	212	257	303	349	394	440	486	531	577
130	1170.00	lb	256	305	355	404	454	503	553	602	652	701	751
			169	219	268	318	367	417	466	516	565	615	664
140	1260.00	lb	305	358	411	465	518	571	625	678	731	785	838
			218	271	325	378	431	485	538	591	645	698	751
150	1350.00	lb	354	411	468	525	582	639	696	754	811	868	925
			267	324	381	438	496	553	610	667	724	781	838

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

Table 8.A Estimated costs per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.5000	19.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	8.0000	2.00	_____
Sodium Chlorate 3L	gal	3.35	0.5000	1.68	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.2800	6.16	_____
Potash (60% K2O)	cwt	23.00	0.4000	9.20	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Headline	oz	2.60	3.0000	7.80	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	6.0000	10.50	_____
2,4-D Amine 4	pt	1.74	2.0000	3.48	_____
Valor SX	oz	4.72	2.0000	9.44	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	0.9600	2.76	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	42.0000	10.92	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3524	4.00	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1393	1.26	_____
UNALLOCATED LABOR	hour	11.36	0.4091	4.65	_____
DIESEL FUEL					
Tractors	gal	2.39	3.4472	8.23	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.57	1.0000	3.57	_____
Tractors	acre	1.41	1.0000	1.41	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	4.39	1.0000	4.39	_____
TOTAL DIRECT EXPENSES				203.23	_____
FIXED EXPENSES					
Implements	acre	7.66	1.0000	7.66	_____
Tractors	acre	9.13	1.0000	9.13	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				26.78	_____
TOTAL SPECIFIED EXPENSES				230.01	_____

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.  
**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.B Summary of estimated costs and returns per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	42.0000	462.00	_____
				-----	
TOTAL INCOME				462.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.25	1.0000	19.25	_____
HARVEST AIDS	acre	3.68	1.0000	3.68	_____
FERTILIZERS	acre	15.36	1.0000	15.36	_____
FUNGICIDES	acre	9.65	1.0000	9.65	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	14.17	1.0000	14.17	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	10.92	1.0000	10.92	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1393	1.26	_____
OPERATOR LABOR	hour	11.35	0.4546	5.16	_____
UNALLOCATED LABOR	hour	11.36	0.4091	4.65	_____
DIESEL FUEL	gal	2.39	4.8408	11.56	_____
REPAIR & MAINTENANCE	acre	7.44	1.0000	7.44	_____
INTEREST ON OP. CAP.	acre	4.39	1.0000	4.39	_____
				-----	
TOTAL DIRECT EXPENSES				203.23	_____
RETURNS ABOVE DIRECT EXPENSES				258.77	_____
TOTAL FIXED EXPENSES				26.78	_____
				-----	
TOTAL SPECIFIED EXPENSES				230.01	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				231.99	_____

Note: Cost of production estimates are based on 2010 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.C Estimated resource use for field operations, per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Oct		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.2800				
Potash (60% K2O)	cwt					0.4000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaicho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Jul	0.5000				
Headline	oz					3.0000				
App by Air ( 5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			0.50	Aug	0.5000				
Gramoxone Inteon	oz					8.0000				
Sodium Chlorate 3L	gal					0.5000				
Surfactant	pt					0.1000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					42.0000				
TOTALS							0.45	0.45	0.59	0.40

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.



Table 8.D Estimated costs for field operations, per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		0.96	0.21	0.88			0.09	2.14	1.18	3.32
Lime (Spread)	ton	9.20						0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51			0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	6.16						0.27	6.43		6.43
Potash (60% K2O)	cwt	9.20						0.40	9.60		9.60
Disk Harrow	24'		1.91	1.08	1.77			0.21	4.97	3.77	8.74
Field Cultivate Fld	24'		1.45	0.62	1.35			0.15	3.57	3.22	6.79
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
2,4-D Amine 4	pt	3.48						0.10	3.58		3.58
Valor SX	oz	9.44						0.27	9.71		9.71
Plant - Rigid	12R-20		2.20	1.72	2.88			0.15	6.95	5.10	12.05
Soybean Seed RR	lb	49.50						1.07	50.57		50.57
Apron Maxx RTA	oz	1.85						0.04	1.89		1.89
Nitragin S	oz	0.74						0.02	0.76		0.76
Gaicho 600	oz	6.56						0.14	6.70		6.70
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
App by Air ( 5 gal)	appl	2.75						0.03	2.78		2.78
Headline	oz	7.80						0.08	7.88		7.88
App by Air ( 5 gal)	appl	2.75						0.03	2.78		2.78
Karate Z	oz	2.76						0.03	2.79		2.79
App by Air ( 5 gal)	appl	5.50						0.04	5.54		5.54
Acephate 90SP	lb	4.85						0.04	4.89		4.89
App by Air ( 5 gal)	appl	2.75						0.02	2.77		2.77
Gramoxone Inteon	oz	2.00						0.01	2.01		2.01
Sodium Chlorate 3L	gal	1.68						0.01	1.69		1.69
Surfactant	pt	0.24							0.24		0.24
Header -Soybean	25' Flex		3.33	3.16	2.20			0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	10.92						0.04	10.96		10.96
TOTALS		168.77	11.56	7.44	11.07	0.00	4.39	203.23	26.78	230.01	

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 8.E Estimated monthly income and expense flows per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	462.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	5.50	8.25	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68	0.00
FERTILIZERS	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	7.80	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	16.42	0.00	0.00	19.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	2.76	4.85	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	0.00	0.00	0.24	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.92
CUSTOM LIME	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	4.51	0.00	0.00	0.00	0.00	0.00	2.88	1.48	0.00	0.00	0.00	2.20
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	4.71	0.00	0.00	0.00	0.00	0.00	2.20	1.32	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	2.08	0.00	0.00	0.00	0.00	0.00	1.72	0.48	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	1.57	0.00	0.00	0.00	0.63	0.00	1.42	0.41	0.00	0.17	0.12	0.07
TOTAL DIRECT EXPENSES	37.43	0.00	0.00	0.00	22.55	0.00	66.87	23.33	0.00	16.23	17.14	19.68
NET INCOME	-37.43	0.00	0.00	0.00	-22.55	0.00	-66.87	-23.33	0.00	-16.23	-17.14	442.32
NET INCOME TO DATE	-37.43	-37.43	-37.43	-37.43	-59.98	-59.98	-126.85	-150.18	-150.18	-166.41	-183.55	258.77

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

\* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, early-planted, RR, stale seedbed, 12R 20"  
 Delta Area, Mississippi, 2011

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75		
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-24	-12	-1	10	21	33	44	56	67	79	91
			-51	-39	-28	-16	-5	6	18	29	41	52	64
60	25.20	bu	9	22	36	50	64	78	92	106	119	133	147
			-17	-3	9	23	37	51	65	79	93	107	120
70	29.40	bu	42	58	74	91	107	123	139	155	171	188	204
			15	31	48	64	80	96	112	129	145	161	177
80	33.60	bu	76	94	113	131	150	168	187	205	224	242	260
			49	67	86	104	123	141	160	178	197	215	234
90	37.80	bu	109	130	151	172	192	213	234	255	276	296	317
			82	103	124	145	166	186	207	228	249	270	290
100	42.00	bu	143	166	189	212	235	258	281	304	328	351	374
			116	139	162	185	208	231	255	278	301	324	347
110	46.20	bu	176	202	227	253	278	303	329	354	380	405	430
			150	175	200	226	251	277	302	327	353	378	404
120	50.40	bu	210	238	265	293	321	348	376	404	432	459	487
			183	211	239	266	294	322	349	377	405	433	460
130	54.60	bu	243	273	303	334	364	394	424	454	484	514	544
			217	247	277	307	337	367	397	427	457	487	517
140	58.80	bu	277	309	342	374	406	439	471	503	536	568	600
			250	283	315	347	380	412	444	477	509	541	574
150	63.00	bu	311	345	380	414	449	484	518	553	588	622	657
			284	318	353	388	422	457	492	526	561	596	630

The top number in each cell is Returns Above Direct Expenses.

The bottom number in each cell is Returns Above Total Specified Expenses.

Only the product listed has been varied to calculate net returns.

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

Table 9.A Estimated costs per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.5000	19.25	_____
HARVEST AIDS					
Gramoxone Inteon	oz	0.25	4.0000	1.00	_____
Sodium Chlorate 3L	gal	3.35	0.2500	0.84	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	3.0000	7.56	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	6.0000	10.50	_____
2,4-D Amine 4	pt	1.74	2.0000	3.48	_____
Valor SX	oz	4.72	2.0000	9.44	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	0.9600	2.76	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	1.0000	1.66	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.0750	0.18	_____
HAULING					
Haul Soybeans/Field	bu	0.26	65.0000	16.90	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5051	5.73	_____
Harvesters	hour	11.35	0.1021	1.16	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1393	1.26	_____
UNALLOCATED LABOR					
	hour	11.36	0.4758	5.41	_____
DIESEL FUEL					
Tractors	gal	2.39	4.8145	11.50	_____
Harvesters	gal	2.39	1.3935	3.33	_____
Roll-Out Pipe Irr.	gal	2.39	7.3316	17.52	_____
REPAIR & MAINTENANCE					
Implements	acre	4.16	1.0000	4.16	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	2.46	1.0000	2.46	_____
Roll-Out Pipe Irr.	acre	5.16	1.0000	5.16	_____
INTEREST ON OP. CAP.	acre	5.42	1.0000	5.42	_____
TOTAL DIRECT EXPENSES				256.50	_____
FIXED EXPENSES					
Implements	acre	9.76	1.0000	9.76	_____
Tractors	acre	12.71	1.0000	12.71	_____
Harvesters	acre	9.99	1.0000	9.99	_____
Roll-Out Pipe Irr.	acre	46.78	1.0000	46.78	_____
TOTAL FIXED EXPENSES				79.24	_____
TOTAL SPECIFIED EXPENSES				335.74	_____

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.  
**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 9.B Summary of estimated costs and returns per acre  
 Soybeans, early-planted, RR, stale seedbed, 12R 20"  
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	65.0000	715.00	_____
				-----	
TOTAL INCOME				715.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	19.26	1.0000	19.26	_____
HARVEST AIDS	acre	1.84	1.0000	1.84	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	9.41	1.0000	9.41	_____
HERBICIDES	acre	36.06	1.0000	36.06	_____
INSECTICIDES	acre	15.83	1.0000	15.83	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.18	1.0000	0.18	_____
HAULING	acre	16.90	1.0000	16.90	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1393	1.26	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	11.35	0.6072	6.89	_____
UNALLOCATED LABOR	hour	11.36	0.4758	5.41	_____
DIESEL FUEL	gal	2.39	13.5398	32.35	_____
REPAIR & MAINTENANCE	acre	13.75	1.0000	13.75	_____
INTEREST ON OP. CAP.	acre	5.42	1.0000	5.42	_____
				-----	
TOTAL DIRECT EXPENSES				256.50	_____
RETURNS ABOVE DIRECT EXPENSES				458.50	_____
TOTAL FIXED EXPENSES				79.24	_____
				-----	
TOTAL SPECIFIED EXPENSES				335.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				379.26	_____

Note: Cost of production estimates are based on 2010 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 9.C Estimated resource use for field operations, per acre  
 Soybeans, early-planted, RR, stale seedbed, 12R 20"  
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.20	Oct	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Oct		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	Oct		0.06	0.06	0.06	0.05
Bedder Roller Fold.	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
2,4-D Amine 4	pt					2.0000				
Valor SX	oz					2.0000				
Plant - Rigid	12R-20	MFWD 190	0.094	1.00	Apr		0.09	0.09	0.18	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Jul	0.5000				
Quadris	oz					3.0000				
App by Air ( 5 gal)	appl			0.50	Jul	0.5000				
Karate Z	oz					0.9600				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			0.25	Aug	0.2500				
Intrepid 2F	oz					1.0000				
Surfactant	pt					0.0250				
App by Air ( 5 gal)	appl			0.25	Aug	0.2500				
Gramoxone Inteon	oz					4.0000				
Sodium Chlorate 3L	gal					0.2500				
Surfactant	pt					0.0500				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					65.0000				
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
<b>TOTALS</b>							<b>0.60</b>	<b>0.60</b>	<b>1.10</b>	<b>0.47</b>

Note: Cost of production estimates are based on 2010 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 9.D Estimated costs for field operations, per acre  
Soybeans, early-planted, RR, stale seedbed, 12R 20"  
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		0.96	0.21	0.88			0.09	2.14	1.18	3.32
Lime (Spread)	ton	9.20						0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51			0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	8.80						0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80						0.60	14.40		14.40
Disk Harrow	24'		1.91	1.08	1.77			0.21	4.97	3.77	8.74
Field Cultivate Fld	24'		1.45	0.62	1.35			0.15	3.57	3.22	6.79
Bedder Roller Fold.	8R-38		1.73	0.73	1.60			0.18	4.24	3.09	7.33
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
2,4-D Amine 4	pt	3.48						0.10	3.58		3.58
Valor SX	oz	9.44						0.27	9.71		9.71
Plant - Rigid	12R-20		2.20	1.72	2.88			0.15	6.95	5.10	12.05
Soybean Seed RR	lb	49.50						1.07	50.57		50.57
Apron Maxx RTA	oz	1.85						0.04	1.89		1.89
Nitragin S	oz	0.74						0.02	0.76		0.76
Gaucho 600	oz	6.56						0.14	6.70		6.70
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
App by Air ( 5 gal)	appl	2.75						0.03	2.78		2.78
Quadris	oz	7.56						0.08	7.64		7.64
App by Air ( 5 gal)	appl	2.75						0.03	2.78		2.78
Karate Z	oz	2.76						0.03	2.79		2.79
App by Air ( 5 gal)	appl	5.50						0.04	5.54		5.54
Acephate 90SP	lb	4.85						0.04	4.89		4.89
App by Air ( 5 gal)	appl	1.38						0.01	1.39		1.39
Intrepid 2F	oz	1.66						0.01	1.67		1.67
Surfactant	pt	0.06							0.06		0.06
App by Air ( 5 gal)	appl	1.38						0.01	1.39		1.39
Gramoxone Inteon	oz	1.00						0.01	1.01		1.01
Sodium Chlorate 3L	gal	0.84						0.01	0.85		0.85
Surfactant	pt	0.12							0.12		0.12
Header -Soybean	25' Flex		3.33	3.16	2.20			0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	16.90						0.06	16.96		16.96
Roll-Out Pipe Irr.	acre	6.60	19.06	5.58	4.19			0.51	35.94	49.37	85.31
TOTALS		188.12	32.35	13.75	16.86	0.00	5.42	256.50	79.24	335.74	

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 9.E Estimated monthly income and expense flows per acre  
 Soybeans, early-planted, RR, stale seedbed, 12R 20"  
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	715.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00	5.50	8.26	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	7.56	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	16.42	0.00	0.00	19.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	0.00	2.76	6.51	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	0.00	0.00	0.18	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.90
CUSTOM LIME	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	6.54	0.00	0.00	0.00	0.00	0.00	2.88	1.71	2.75	0.23	0.00	2.75
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	7.33	0.00	0.00	0.00	0.00	0.00	2.20	1.32	12.03	5.84	0.00	3.63
REPAIR & MAINTENANCE	3.04	0.00	0.00	0.00	0.00	0.00	1.72	0.48	4.34	0.92	0.00	3.25
INTEREST ON OP. CAP.	2.13	0.00	0.00	0.00	0.63	0.00	1.42	0.41	0.37	0.24	0.13	0.09
TOTAL DIRECT EXPENSES	50.84	0.00	0.00	0.00	22.55	0.00	66.87	23.56	26.09	23.05	16.92	26.62
NET INCOME	-50.84	0.00	0.00	0.00	-22.55	0.00	-66.87	-23.56	-26.09	-23.05	-16.92	688.38
NET INCOME TO DATE	-50.84	-50.84	-50.84	-50.84	-73.39	-73.39	-140.26	-163.82	-189.91	-212.96	-229.88	458.50

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

\* Lease costs are based on hourly usage costs.



Table 9.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, early-planted, RR, stale seedbed, 12R 20"  
 Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	32.50	bu	20	37	55	73	91	109	127	145	163	180	198
			-59	-41	-23	-5	12	30	48	65	83	101	119
60	39.00	bu	72	93	114	136	157	179	200	222	243	265	286
			-7	14	35	57	78	100	121	142	164	185	207
70	45.50	bu	123	148	174	199	224	249	274	299	324	349	374
			44	69	94	119	144	169	194	219	244	269	294
80	52.00	bu	175	204	233	261	290	318	347	376	404	433	461
			96	125	153	182	211	239	268	296	325	354	382
90	58.50	bu	227	259	292	324	356	388	420	453	485	517	549
			148	180	212	245	277	309	341	373	405	438	470
100	65.00	bu	279	315	351	387	422	458	494	530	565	601	637
			200	236	272	307	343	379	415	450	486	522	558
110	71.50	bu	331	371	410	449	488	528	567	606	646	685	724
			252	291	331	370	409	449	488	527	567	606	645
120	78.00	bu	383	426	469	512	555	598	641	683	726	769	812
			304	347	390	433	475	518	561	604	647	690	733
130	84.50	bu	435	482	528	574	621	667	714	760	807	853	900
			356	402	449	495	542	588	635	681	728	774	821
140	91.00	bu	487	537	587	637	687	737	787	837	887	937	987
			408	458	508	558	608	658	708	758	808	858	908
150	97.50	bu	539	593	646	700	753	807	861	914	968	1022	1075
			460	513	567	621	674	728	781	835	889	942	996

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

Table 10.A Estimated costs per acre  
Soybeans, May-planted, RR, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.5000	13.75	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.2800	6.16	_____
Potash (60% K2O)	cwt	23.00	0.4000	9.20	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	4.5000	11.34	_____
HERBICIDES					
Dual Magnum	pt	12.64	1.0000	12.64	_____
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.4400	4.13	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	3.0000	4.98	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.0750	0.18	_____
HAULING					
Haul Soybeans/Field	bu	0.26	30.0000	7.80	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3801	4.31	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1465	1.33	_____
UNALLOCATED LABOR	hour	11.37	0.4341	4.94	_____
DIESEL FUEL					
Tractors	gal	2.39	3.7182	8.88	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	4.05	1.0000	4.05	_____
Tractors	acre	1.51	1.0000	1.51	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.90	1.0000	3.90	_____
				-----	
TOTAL DIRECT EXPENSES				185.76	_____
FIXED EXPENSES					
Implements	acre	8.65	1.0000	8.65	_____
Tractors	acre	9.85	1.0000	9.85	_____
Harvesters	acre	9.99	1.0000	9.99	_____
				-----	
TOTAL FIXED EXPENSES				28.49	_____
				-----	
TOTAL SPECIFIED EXPENSES				214.25	_____

Note: Cost of production estimates are based on 2010 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 10.B Summary of estimated costs and returns per acre  
Soybeans, May-planted, RR, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	30.0000	330.00	_____
				-----	
TOTAL INCOME				330.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	13.76	1.0000	13.76	_____
FERTILIZERS	acre	15.36	1.0000	15.36	_____
FUNGICIDES	acre	13.19	1.0000	13.19	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	20.52	1.0000	20.52	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.18	1.0000	0.18	_____
HAULING	acre	7.80	1.0000	7.80	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1465	1.33	_____
OPERATOR LABOR	hour	11.35	0.4823	5.47	_____
UNALLOCATED LABOR	hour	11.37	0.4341	4.94	_____
DIESEL FUEL	gal	2.39	5.1118	12.21	_____
REPAIR & MAINTENANCE	acre	8.02	1.0000	8.02	_____
INTEREST ON OP. CAP.	acre	3.90	1.0000	3.90	_____
				-----	
TOTAL DIRECT EXPENSES				185.76	_____
RETURNS ABOVE DIRECT EXPENSES				144.24	_____
TOTAL FIXED EXPENSES				28.49	_____
				-----	
TOTAL SPECIFIED EXPENSES				214.25	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				115.75	_____

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.  
**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 10.C Estimated resource use for field operations, per acre  
Soybeans, May-planted, RR, 12R 20"  
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.20	Nov		0.04	0.04	0.04	0.03
Disk Harrow	24'	MFWD 190	0.081	0.25	Nov		0.02	0.02	0.02	0.01
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.2800				
Potash (60% K2O)	cwt					0.4000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
App by Air ( 5 gal)	appl			0.75	Jul	0.7500				
Quadris	oz					4.5000				
Karate Z	oz					1.4400				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			0.75	Aug	0.7500				
Intrepid 2F	oz					3.0000				
Surfactant	pt					0.0750				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					30.0000				
TOTALS							0.48	0.48	0.62	0.43

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 10.D Estimated costs for field operations, per acre  
Soybeans, May-planted, RR, 12R 20"  
Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		0.96	0.21	0.88			0.09	2.14	1.18	3.32
Disk Harrow	24'		0.48	0.27	0.44			0.05	1.24	0.94	2.18
Lime (Spread)	ton	9.20						0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51			0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	6.16						0.27	6.43		6.43
Potash (60% K2O)	cwt	9.20						0.40	9.60		9.60
Disk Harrow	24'		1.91	1.08	1.77			0.12	4.88	3.77	8.65
Field Cultivate Fld	24'		1.45	0.62	1.35			0.07	3.49	3.22	6.71
Plant & Pre-Rigid	12R-20		2.37	2.03	3.11			0.16	7.67	5.87	13.54
Soybean Seed RR	lb	49.50						1.07	50.57		50.57
Apron Maxx RTA	oz	1.85						0.04	1.89		1.89
Nitragin S	oz	0.74						0.02	0.76		0.76
Gaucho 600	oz	6.56						0.14	6.70		6.70
Dual Magnum	pt	12.64						0.27	12.91		12.91
Spray (Broadcast)	60'		0.66	0.24	0.74			0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50						0.08	3.58		3.58
Spray (Broadcast)	60'		0.66	0.24	0.74			0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
App by Air ( 5 gal)	appl	4.13						0.06	4.19		4.19
Quadris	oz	11.34						0.16	11.50		11.50
Karate Z	oz	4.13						0.06	4.19		4.19
App by Air ( 5 gal)	appl	5.50						0.06	5.56		5.56
Acephate 90SP	lb	4.85						0.05	4.90		4.90
App by Air ( 5 gal)	appl	4.13						0.04	4.17		4.17
Intrepid 2F	oz	4.98						0.05	5.03		5.03
Surfactant	pt	0.18							0.18		0.18
Header -Soybean	25' Flex		3.33	3.16	2.20			0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	7.80						0.03	7.83		7.83
TOTALS		149.89	12.21	8.02	11.74	0.00	3.90	185.76	28.49	214.25	

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 10.E Estimated monthly income and expense flows per acre  
Soybeans, May-planted, RR, 12R 20"  
Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	330.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13	9.63	0.00	0.00
FERTILIZERS	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	11.34	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	4.13	9.83	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	0.00	0.18	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	0.00	7.80
CUSTOM LIME	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	1.83	0.00	0.00	0.00	0.00	1.77	5.20	0.74	0.00	0.00	0.00	2.20
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	1.83	0.00	0.00	0.00	0.00	1.91	4.48	0.66	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.65	0.00	0.00	0.00	0.00	1.08	2.89	0.24	0.00	0.00	0.00	3.16
INTEREST ON OP. CAP.	1.26	0.00	0.00	0.00	0.00	0.12	1.89	0.09	0.28	0.20	0.00	0.06
TOTAL DIRECT EXPENSES	30.13	0.00	0.00	0.00	0.00	4.88	89.25	5.23	19.88	19.84	0.00	16.55
NET INCOME	-30.13	0.00	0.00	0.00	0.00	-4.88	-89.25	-5.23	-19.88	-19.84	0.00	313.45
NET INCOME TO DATE	-30.13	-30.13	-30.13	-30.13	-30.13	-35.01	-124.26	-129.49	-149.37	-169.21	-169.21	144.24

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

\* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, May-planted, RR, 12R 20"  
 Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
			-----dollars-----										
PERCENT	YIELD	UNIT											
50	15.00	bu	-58	-49	-41	-33	-25	-16	-8	-0	7	16	24
			-86	-78	-70	-61	-53	-45	-37	-28	-20	-12	-4
60	18.00	bu	-34	-24	-14	-4	5	15	25	35	45	54	64
			-62	-52	-42	-32	-23	-13	-3	6	16	26	36
70	21.00	bu	-10	1	12	24	36	47	59	70	82	93	105
			-38	-27	-15	-4	7	19	30	42	53	65	76
80	24.00	bu	13	27	40	53	66	79	93	106	119	132	145
			-14	-1	11	24	38	51	64	77	90	104	117
90	27.00	bu	37	52	67	82	97	112	126	141	156	171	186
			9	24	38	53	68	83	98	113	128	142	157
100	30.00	bu	61	78	94	111	127	144	160	177	193	210	226
			33	49	66	82	99	115	132	148	165	181	198
110	33.00	bu	85	103	122	140	158	176	194	212	230	249	267
			57	75	93	111	129	147	166	184	202	220	238
120	36.00	bu	109	129	149	169	188	208	228	248	268	287	307
			81	100	120	140	160	180	199	219	239	259	279
130	39.00	bu	133	155	176	197	219	240	262	283	305	326	348
			105	126	148	169	190	212	233	255	276	298	319
140	42.00	bu	157	180	203	226	250	273	296	319	342	365	388
			129	152	175	198	221	244	267	290	313	337	360
150	45.00	bu	181	206	231	255	280	305	330	354	379	404	429
			153	177	202	227	252	276	301	326	351	375	400

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

Table 11.A Estimated costs per acre  
Soybeans, May-planted, RR, 12R 20"  
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	6.0000	15.12	_____
HERBICIDES					
Dual Magnum	pt	12.64	1.0000	12.64	_____
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
INSECTICIDES					
Gaicho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.9200	5.51	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	53.0000	13.78	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.6035	6.85	_____
Harvesters	hour	11.35	0.1021	1.16	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.1465	1.33	_____
UNALLOCATED LABOR	hour	11.37	0.4525	5.15	_____
DIESEL FUEL					
Tractors	gal	2.39	5.5059	13.16	_____
Harvesters	gal	2.39	1.3935	3.33	_____
Contour Flood Irr.	gal	2.39	10.9974	26.28	_____
REPAIR & MAINTENANCE					
Implements	acre	4.78	1.0000	4.78	_____
Tractors	acre	2.27	1.0000	2.27	_____
Harvesters	acre	2.46	1.0000	2.46	_____
Contour Flood Irr.	acre	10.32	1.0000	10.32	_____
INTEREST ON OP. CAP.	acre	5.16	1.0000	5.16	_____
TOTAL DIRECT EXPENSES				260.05	_____
FIXED EXPENSES					
Implements	acre	10.85	1.0000	10.85	_____
Tractors	acre	14.71	1.0000	14.71	_____
Harvesters	acre	9.99	1.0000	9.99	_____
Contour Flood Irr.	acre	34.52	1.0000	34.52	_____
TOTAL FIXED EXPENSES				70.07	_____
TOTAL SPECIFIED EXPENSES				330.12	_____

Note: Cost of production estimates are based on 2010 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.



Table 11.B Summary of estimated costs and returns per acre  
 Soybeans, May-planted, RR, 12R 20"  
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	53.0000	583.00	_____
				-----	
TOTAL INCOME				583.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	16.97	1.0000	16.97	_____
HERBICIDES	acre	19.64	1.0000	19.64	_____
INSECTICIDES	acre	23.56	1.0000	23.56	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	13.78	1.0000	13.78	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1465	1.33	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	11.35	0.7057	8.01	_____
UNALLOCATED LABOR	hour	11.37	0.4525	5.15	_____
DIESEL FUEL	gal	2.39	17.8970	42.77	_____
REPAIR & MAINTENANCE	acre	19.83	1.0000	19.83	_____
INTEREST ON OP. CAP.	acre	5.16	1.0000	5.16	_____
				-----	
TOTAL DIRECT EXPENSES				260.05	_____
RETURNS ABOVE DIRECT EXPENSES				322.95	_____
TOTAL FIXED EXPENSES				70.07	_____
				-----	
TOTAL SPECIFIED EXPENSES				330.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				252.88	_____

Note: Cost of production estimates are based on 2010 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 11.C Estimated resource use for field operations, per acre  
Soybeans, May-planted, RR, 12R 20"  
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Disk Harrow	24'	MFWD 190	0.081	1.00	Nov		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
Disk Harrow	24'	MFWD 190	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	24'	MFWD 190	0.062	1.00	May		0.06	0.06	0.06	0.05
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	May		0.10	0.10	0.20	0.09
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	May		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
App by Air ( 5 gal)	appl			1.00	Jul	1.0000				
Quadris	oz					6.0000				
Karate Z	oz					1.9200				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.09
Haul Soybeans/Field	bu					53.0000				
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.70	0.70	1.16	0.45

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 11.D Estimated costs for field operations, per acre  
Soybeans, May-planted, RR, 12R 20"  
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Disk Harrow	24'		1.91	1.08	1.77		0.21	4.97	3.77	8.74
Lime (Spread)	ton	9.20					0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.51		0.05	1.12	0.65	1.77
Phosphorus(46% P2O5)	cwt	8.80					0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80					0.60	14.40		14.40
Disk Harrow	24'		1.91	1.08	1.77		0.12	4.88	3.77	8.65
Field Cultivate Fld	24'		1.45	0.62	1.35		0.07	3.49	3.22	6.71
Plant & Pre-Rigid	12R-20		2.37	2.03	3.11		0.16	7.67	5.87	13.54
Soybean Seed RR	lb	49.50					1.07	50.57		50.57
Apron Maxx RTA	oz	1.85					0.04	1.89		1.89
Nitragin S	oz	0.74					0.02	0.76		0.76
Gaucho 600	oz	6.56					0.14	6.70		6.70
Dual Magnum	pt	12.64					0.27	12.91		12.91
Spray (Broadcast)	60'		0.66	0.24	0.74		0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50					0.08	3.58		3.58
Spray (Broadcast)	60'		0.66	0.24	0.74		0.03	1.67	0.89	2.56
Glyphosate 3lbs a.e.	pt	3.50					0.06	3.56		3.56
App by Air ( 5 gal)	appl	5.50					0.08	5.58		5.58
Quadris	oz	15.12					0.22	15.34		15.34
Karate Z	oz	5.51					0.08	5.59		5.59
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Acephate 90SP	lb	4.85					0.05	4.90		4.90
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Intrepid 2F	oz	6.64					0.07	6.71		6.71
Surfactant	pt	0.24						0.24		0.24
Header -Soybean	25' Flex		3.33	3.16	2.20		0.03	8.72	11.08	19.80
Haul Soybeans/Field	bu	13.78					0.05	13.83		13.83
Contour Flood Irr.	acre	2.25	30.09	11.21	5.12		0.72	49.39	39.93	89.32
TOTALS		174.98	42.77	19.83	17.31	0.00	5.16	260.05	70.07	330.12

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 11.E Estimated monthly income and expense flows per acre  
 Soybeans, May-planted, RR, 12R 20"  
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	583.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	11.00	0.00	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	15.12	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.14	3.50	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	5.51	11.49	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	0.00	0.24	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	0.00	13.78
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00
LABOR	2.28	0.00	0.00	0.00	0.00	1.77	5.65	2.37	1.45	1.45	0.14	2.20
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.30	0.00	0.00	0.00	0.00	1.91	4.48	10.84	9.84	9.84	0.23	3.33
REPAIR & MAINTENANCE	1.25	0.00	0.00	0.00	0.00	1.08	2.89	7.21	2.09	2.09	0.06	3.16
INTEREST ON OP. CAP.	1.64	0.00	0.00	0.00	0.00	0.12	1.90	0.46	0.57	0.39	0.00	0.08
TOTAL DIRECT EXPENSES	39.27	0.00	0.00	0.00	0.00	4.88	89.71	26.63	40.08	36.50	0.43	22.55
NET INCOME	-39.27	0.00	0.00	0.00	0.00	-4.88	-89.71	-26.63	-40.08	-36.50	-0.43	560.45
NET INCOME TO DATE	-39.27	-39.27	-39.27	-39.27	-39.27	-44.15	-133.86	-160.49	-200.57	-237.07	-237.50	322.95

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

\* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre  
 Soybeans, May-planted, RR, 12R 20"  
 Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
PERCENT	YIELD	UNIT	-----dollars-----										
50	26.50	bu	-34	-19	-5	9	23	38	52	67	82	96	111
			-104	-90	-75	-60	-46	-31	-17	-2	12	26	41
60	31.80	bu	7	25	42	60	77	95	112	130	147	165	182
			-62	-44	-27	-9	7	25	42	60	77	95	112
70	37.10	bu	50	70	90	111	131	152	172	193	213	233	254
			-19	0	20	41	61	82	102	122	143	163	184
80	42.40	bu	92	115	139	162	185	209	232	255	279	302	325
			22	45	69	92	115	139	162	185	209	232	255
90	47.70	bu	134	161	187	213	239	266	292	318	344	370	397
			64	91	117	143	169	195	222	248	274	300	327
100	53.00	bu	177	206	235	264	293	322	352	381	410	439	468
			107	136	165	194	223	252	282	311	340	369	398
110	58.30	bu	219	251	283	315	347	379	411	443	476	508	540
			149	181	213	245	277	309	341	373	405	438	470
120	63.60	bu	261	296	331	366	401	436	471	506	541	576	611
			191	226	261	296	331	366	401	436	471	506	541
130	68.90	bu	304	342	380	417	455	493	531	569	607	645	683
			234	272	309	347	385	423	461	499	537	575	613
140	74.20	bu	346	387	428	468	509	550	591	632	673	713	754
			276	317	358	398	439	480	521	562	602	643	684
150	79.50	bu	388	432	476	520	563	607	651	694	738	782	826
			318	362	406	450	493	537	581	624	668	712	756

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

Table 12.A Estimated costs per acre  
Soybeans after wheat, RR, 12R 20"  
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.4000	8.80	_____
Potash (60% K2O)	cwt	23.00	0.6000	13.80	_____
FUNGICIDES					
Apron Maxx RTA	oz	0.74	2.5000	1.85	_____
Quadris	oz	2.52	6.0000	15.12	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	5.0000	8.75	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
INSECTICIDES					
Gaucho 600	oz	6.56	1.0000	6.56	_____
Karate Z	oz	2.87	1.7000	4.88	_____
Acephate 90SP	lb	6.46	0.7500	4.85	_____
Intrepid 2F	oz	1.66	4.0000	6.64	_____
Baythroid XL	oz	2.17	2.1300	4.62	_____
SEED/PLANTS					
Soybean Seed RR	lb	0.99	50.0000	49.50	_____
ADJUVANTS					
Surfactant	pt	2.44	0.1000	0.24	_____
HAULING					
Haul Soybeans/Field	bu	0.26	45.0000	11.70	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.2000	9.20	_____
INOCULANT					
Nitragin S	oz	0.27	2.7500	0.74	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.1889	2.14	_____
Harvesters	hour	11.35	0.1021	1.16	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.1536	1.39	_____
UNALLOCATED LABOR	hour	11.38	0.2503	2.85	_____
DIESEL FUEL					
Tractors	gal	2.39	1.8474	4.41	_____
Harvesters	gal	2.39	1.3935	3.33	_____
1/2-mi Pivot Irr.	gal	2.39	14.0014	33.47	_____
REPAIR & MAINTENANCE					
Implements	acre	2.75	1.0000	2.75	_____
Tractors	acre	0.75	1.0000	0.75	_____
Harvesters	acre	2.46	1.0000	2.46	_____
1/2-mi Pivot Irr.	acre	9.32	1.0000	9.32	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____
TOTAL DIRECT EXPENSES				245.21	_____
FIXED EXPENSES					
Implements	acre	4.94	1.0000	4.94	_____
Tractors	acre	4.90	1.0000	4.90	_____
Harvesters	acre	9.99	1.0000	9.99	_____
1/2-mi Pivot Irr.	acre	34.33	1.0000	34.33	_____
TOTAL FIXED EXPENSES				54.16	_____
TOTAL SPECIFIED EXPENSES				299.37	_____

Note: Cost of production estimates are based on 2010 input prices.  
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.  
**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 12.B Summary of estimated costs and returns per acre  
 Soybeans after wheat, RR, 12R 20"  
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	11.00	45.0000	495.00	_____
				-----	
TOTAL INCOME				495.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	22.60	1.0000	22.60	_____
FUNGICIDES	acre	16.97	1.0000	16.97	_____
HERBICIDES	acre	21.39	1.0000	21.39	_____
INSECTICIDES	acre	27.55	1.0000	27.55	_____
SEED/PLANTS	acre	49.50	1.0000	49.50	_____
ADJUVANTS	acre	0.24	1.0000	0.24	_____
HAULING	acre	11.70	1.0000	11.70	_____
CUSTOM LIME	acre	9.20	1.0000	9.20	_____
INOCULANT	acre	0.74	1.0000	0.74	_____
HAND LABOR	hour	9.06	0.1536	1.39	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	11.35	0.2910	3.30	_____
UNALLOCATED LABOR	hour	11.38	0.2503	2.85	_____
DIESEL FUEL	gal	2.39	17.2424	41.21	_____
REPAIR & MAINTENANCE	acre	15.28	1.0000	15.28	_____
INTEREST ON OP. CAP.	acre	4.32	1.0000	4.32	_____
				-----	
TOTAL DIRECT EXPENSES				245.21	_____
RETURNS ABOVE DIRECT EXPENSES				249.79	_____
TOTAL FIXED EXPENSES				54.16	_____
				-----	
TOTAL SPECIFIED EXPENSES				299.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				195.63	_____

Note: Cost of production estimates are based on 2010 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.  
**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 12.C Estimated resource use for field operations, per acre  
Soybeans after wheat, RR, 12R 20"  
Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.20	Nov	0.2000				
Spin Spreader	5 ton	MFWD 190	0.042	0.40	Nov		0.01	0.01	0.03	0.01
Phosphorus(46% P2O5)	cwt					0.4000				
Potash (60% K2O)	cwt					0.6000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jun		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Plant & Pre-Rigid	12R-20	MFWD 190	0.101	1.00	Jun		0.10	0.10	0.20	0.08
Soybean Seed RR	lb					50.0000				
Apron Maxx RTA	oz					2.5000				
Nitragin S	oz					2.7500				
Gaucho 600	oz					1.0000				
Dual Magnum	pt					1.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Jul		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Spray (Broadcast)	60'	MFWD 190	0.028	0.50	Jul		0.01	0.01	0.02	0.01
Glyphosate 3lbs a.e.	pt					1.0000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Quadris	oz					6.0000				
Karate Z	oz					1.7000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Intrepid 2F	oz					4.0000				
Surfactant	pt					0.1000				
Baythroid XL	oz					2.1300				
Header -Soybean	25' Flex	265 hp	0.102	1.00	Oct		0.10	0.10	0.10	0.08
Haul Soybeans/Field	bu					45.0000				
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.29	0.29	0.49	0.25

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.



Table 12.D Estimated costs for field operations, per acre  
 Soybeans after wheat, RR, 12R 20"  
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	9.20						0.40	9.60		9.60
Spin Spreader	5 ton		0.39	0.17	0.50			0.05	1.11	0.65	1.76
Phosphorus(46% P2O5)	cwt	8.80						0.38	9.18		9.18
Potash (60% K2O)	cwt	13.80						0.60	14.40		14.40
Spray (Broadcast)	60'		0.66	0.24	0.73			0.03	1.66	0.89	2.55
Glyphosate 3lbs a.e.	pt	3.50						0.06	3.56		3.56
Plant & Pre-Rigid	12R-20		2.37	2.03	3.06			0.13	7.59	5.87	13.46
Soybean Seed RR	lb	49.50						0.89	50.39		50.39
Apron Maxx RTA	oz	1.85						0.03	1.88		1.88
Nitragin S	oz	0.74						0.01	0.75		0.75
Gaucho 600	oz	6.56						0.12	6.68		6.68
Dual Magnum	pt	12.64						0.23	12.87		12.87
Spray (Broadcast)	60'		0.66	0.24	0.73			0.02	1.65	0.89	2.54
Glyphosate 3lbs a.e.	pt	3.50						0.05	3.55		3.55
Spray (Broadcast)	60'		0.33	0.12	0.36			0.01	0.82	0.45	1.27
Glyphosate 3lbs a.e.	pt	1.75						0.03	1.78		1.78
App by Air ( 5 gal)	appl	5.50						0.06	5.56		5.56
Quadris	oz	15.12						0.16	15.28		15.28
Karate Z	oz	4.88						0.05	4.93		4.93
App by Air ( 5 gal)	appl	5.50						0.06	5.56		5.56
Acephate 90SP	lb	4.85						0.05	4.90		4.90
App by Air ( 5 gal)	appl	5.50						0.06	5.56		5.56
Intrepid 2F	oz	6.64						0.07	6.71		6.71
Surfactant	pt	0.24							0.24		0.24
Baythroid XL	oz	4.62						0.05	4.67		4.67
Header -Soybean	25' Flex		3.33	3.16	2.16			0.03	8.68	11.08	19.76
Haul Soybeans/Field	bu	11.70						0.04	11.74		11.74
1/2-mi Pivot Irr.	acre		33.47	9.32	0.47			0.65	43.91	34.33	78.24
TOTALS		176.39	41.21	15.28	8.01	0.00		4.32	245.21	54.16	299.37

Note: Cost of production estimates are based on 2010 input prices.  
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

Table 12.E Estimated monthly income and expense flows per acre  
 Soybeans after wheat, RR, 12R 20"  
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	495.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.50	0.00	0.00
FERTILIZERS	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	15.12	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.14	5.25	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.00	20.99	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50	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	0.00	0.24	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	0.00	11.70
CUSTOM LIME	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
LABOR	0.50	0.00	0.00	0.00	0.00	0.00	0.34	3.83	1.14	0.04	0.00	2.16
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	0.39	0.00	0.00	0.00	0.00	0.00	0.00	13.07	14.38	10.04	0.00	3.33
REPAIR & MAINTENANCE	0.17	0.00	0.00	0.00	0.00	0.00	0.00	10.28	1.11	0.56	0.00	3.16
INTEREST ON OP. CAP.	1.43	0.00	0.00	0.00	0.00	0.00	0.01	1.83	0.31	0.67	0.00	0.07
TOTAL DIRECT EXPENSES	34.29	0.00	0.00	0.00	0.00	0.00	0.35	103.80	22.19	64.16	0.00	20.42
NET INCOME	-34.29	0.00	0.00	0.00	0.00	0.00	-0.35	-103.80	-22.19	-64.16	0.00	474.58
NET INCOME TO DATE	-34.29	-34.29	-34.29	-34.29	-34.29	-34.29	-34.64	-138.44	-160.63	-224.79	-224.79	249.79

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

**Fertilization decisions should be based on soil tests.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$7 to \$12 per acre.

\* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre  
 Soybeans after wheat, RR, 12R 20"  
 Pivot irrigated, 7.5 ac-in., Delta Area, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75
			-----dollars-----										
PERCENT	YIELD	UNIT											
50	22.50	bu	-53	-41	-28	-16	-4	8	20	32	45	57	70
			-107	-95	-83	-70	-58	-46	-33	-21	-8	3	15
60	27.00	bu	-17	-2	11	26	41	56	71	86	101	115	130
			-71	-57	-42	-27	-12	2	17	32	46	61	76
70	31.50	bu	18	35	52	70	87	104	122	139	156	174	191
			-35	-18	-1	16	33	50	67	85	102	119	137
80	36.00	bu	54	73	93	113	133	153	172	192	212	232	252
			-0	19	39	59	79	98	118	138	158	178	197
90	40.50	bu	90	112	134	156	179	201	223	246	268	290	312
			35	58	80	102	125	147	169	191	214	236	258
100	45.00	bu	126	150	175	200	225	249	274	299	324	348	373
			71	96	121	146	170	195	220	245	269	294	319
110	49.50	bu	161	189	216	243	270	298	325	352	379	407	434
			107	135	162	189	216	243	271	298	325	352	380
120	54.00	bu	197	227	257	287	316	346	376	405	435	465	494
			143	173	203	232	262	292	321	351	381	411	440
130	58.50	bu	233	266	298	330	362	394	426	459	491	523	555
			179	211	244	276	308	340	372	404	437	469	501
140	63.00	bu	269	304	339	373	408	443	477	512	547	581	616
			215	250	284	319	354	388	423	458	492	527	562
150	67.50	bu	305	342	380	417	454	491	528	565	602	639	677
			251	288	325	363	400	437	474	511	548	585	622

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

Table 13.A Estimated costs per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.8000	45.00	_____
Potash (60% K2O)	cwt	23.00	1.3750	31.63	_____
Fert 10-34-0	cwt	22.00	0.5000	11.00	_____
UAN + Sulfur (28%)	cwt	12.00	3.5710	42.85	_____
UAN (32% N)	cwt	12.50	4.3750	54.69	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Clarity	pt	11.86	0.5000	5.93	_____
Lexar	pt	5.56	3.3000	18.35	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Corn Seed BtRR	thous	2.90	30.0000	87.00	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	185.0000	48.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4883	5.54	_____
Harvesters	hour	11.35	0.1009	1.15	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	_____
UNALLOCATED LABOR					
	hour	11.35	0.4597	5.22	_____
DIESEL FUEL					
Tractors	gal	2.39	4.6505	11.11	_____
Harvesters	gal	2.39	1.6890	4.04	_____
Roll-Out Pipe Irr.	gal	2.39	10.5901	25.32	_____
REPAIR & MAINTENANCE					
Implements	acre	6.30	1.0000	6.30	_____
Tractors	acre	1.90	1.0000	1.90	_____
Harvesters	acre	2.64	1.0000	2.64	_____
Roll-Out Pipe Irr.	acre	5.16	1.0000	5.16	_____
INTEREST ON OP. CAP.	acre	11.36	1.0000	11.36	_____
TOTAL DIRECT EXPENSES				488.40	_____
FIXED EXPENSES					
Implements	acre	9.08	1.0000	9.08	_____
Tractors	acre	12.28	1.0000	12.28	_____
Harvesters	acre	10.73	1.0000	10.73	_____
Roll-Out Pipe Irr.	acre	24.98	1.0000	24.98	_____
TOTAL FIXED EXPENSES				57.07	_____
TOTAL SPECIFIED EXPENSES				545.47	_____

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

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

**Intrepid application is necessary only on refuge acres.**

Table 13.B Summary of estimated costs and returns per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	185.0000	897.25	_____
				-----	
TOTAL INCOME				897.25	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	185.17	1.0000	185.17	_____
HERBICIDES	acre	31.28	1.0000	31.28	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	87.00	1.0000	87.00	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	48.10	1.0000	48.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.35	0.5893	6.69	_____
UNALLOCATED LABOR	hour	11.35	0.4597	5.22	_____
DIESEL FUEL	gal	2.39	16.9298	40.47	_____
REPAIR & MAINTENANCE	acre	16.00	1.0000	16.00	_____
INTEREST ON OP. CAP.	acre	11.36	1.0000	11.36	_____
				-----	
TOTAL DIRECT EXPENSES				488.40	_____
RETURNS ABOVE DIRECT EXPENSES				408.85	_____
TOTAL FIXED EXPENSES				57.07	_____
				-----	
TOTAL SPECIFIED EXPENSES				545.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				351.78	_____

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

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

**Intrepid application is necessary only on refuge acres.**

Table 13.C Estimated resource use for field operations, per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K20)	cwt					1.3750				
Disk Bed w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					30.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Lexar	pt					3.3000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	325 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.58	0.58	1.15	0.45

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Intrepid application is necessary only on refuge acres.**

Table 13.D Estimated costs for field operations, per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.98	0.42	1.29			0.12	2.81	1.61	4.42
DAP	cwt	45.00						1.95	46.95		46.95
Potash (60% K2O)	cwt	31.63						1.37	33.00		33.00
Disk Bed w/roller	8R-38		1.73	0.63	1.60			0.17	4.13	2.83	6.96
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
Clarity	pt	5.93						0.17	6.10		6.10
Plant & Pre-Rigid	8R-38		1.88	1.31	2.46			0.14	5.79	4.04	9.83
Corn Seed BtRR	thous	87.00						2.20	89.20		89.20
Fert 10-34-0	cwt	11.00						0.28	11.28		11.28
Custom Apply Fert	acre	6.25						0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	42.85						0.93	43.78		43.78
Spray (Broadcast)	60'		0.66	0.24	0.74			0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50						0.08	3.58		3.58
Lexar	pt	18.35						0.40	18.75		18.75
Fert Appl (Liquid)	8R-38		1.81	1.14	2.02			0.09	5.06	2.98	8.04
UAN (32% N)	cwt	54.69						0.99	55.68		55.68
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Intrepid 2F	oz	6.64						0.10	6.74		6.74
Header - Corn	8R-38		4.04	3.88	2.18			0.04	10.14	12.66	22.80
Grain Cart Corn	700 bu		0.58	0.29	0.54			0.01	1.42	0.99	2.41
Haul Corn/Field	bu	48.10						0.17	48.27		48.27
Stalk Shredder	20'		1.93	2.51	1.78			0.02	6.24	3.50	9.74
Roll-Out Pipe Irr.	acre	6.60	26.86	5.58	4.42			0.63	44.09	27.57	71.66
TOTALS		403.54	40.47	16.00	17.03	0.00	11.36	488.40	57.07	545.47	

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

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

**Intrepid application is necessary only on refuge acres.**

Table 13.E Estimated monthly income and expense flows per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	897.25
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	76.63	0.00	0.00	0.00	0.00	11.00	42.85	54.69	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	21.85	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	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	0.00	48.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.32	0.00	0.00	0.00	0.00	2.46	0.74	2.25	2.98	0.23	0.55	4.50
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	3.60	0.00	0.00	0.00	0.00	1.88	0.66	1.81	19.34	6.33	0.30	6.55
REPAIR & MAINTENANCE	1.28	0.00	0.00	0.00	0.00	1.31	0.24	1.14	4.57	0.69	0.09	6.68
INTEREST ON OP. CAP.	4.68	0.00	0.00	0.00	0.43	2.62	1.59	1.08	0.63	0.08	0.01	0.24
TOTAL DIRECT EXPENSES	112.51	0.00	0.00	0.00	15.36	106.27	74.18	60.97	44.76	7.33	0.95	66.07
NET INCOME	-112.51	0.00	0.00	0.00	-15.36	-106.27	-74.18	-60.97	-44.76	-7.33	-0.95	831.18
NET INCOME TO DATE	-112.51	-112.51	-112.51	-112.51	-127.87	-234.14	-308.32	-369.29	-414.05	-421.38	-422.33	408.85

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

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

**Intrepid application is necessary only on refuge acres.**

\* Lease costs are based on hourly usage costs.



Table 13.F Estimated returns for various price/yield combinations, per acre  
 Corn, stale seedbed, BtRR, 8-row 38", 185 bu yield goal  
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2011

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE-----										
-----			3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06
PERCENT	YIELD	UNIT	-----dollars-----										
50	92.50	bu	-127	-105	-82	-60	-38	-15	6	29	51	74	96
			-184	-162	-140	-117	-95	-72	-50	-27	-5	17	39
60	111.00	bu	-65	-38	-11	15	42	69	96	123	150	176	203
			-122	-95	-68	-41	-14	12	39	66	92	119	146
70	129.50	bu	-2	28	59	91	122	154	185	216	248	279	311
			-59	-28	2	34	65	97	128	159	191	222	254
80	148.00	bu	59	95	131	167	203	239	274	310	346	382	418
			2	38	74	110	146	181	217	253	289	325	361
90	166.50	bu	122	162	202	243	283	323	364	404	445	485	525
			65	105	145	186	226	266	307	347	388	428	468
100	185.00	bu	184	229	274	319	363	408	453	498	543	588	633
			127	172	217	262	306	351	396	441	486	531	576
110	203.50	bu	247	296	345	395	444	493	543	592	641	691	740
			189	239	288	337	387	436	486	535	584	634	683
120	222.00	bu	309	363	417	470	524	578	632	686	740	793	847
			252	306	360	413	467	521	575	629	683	736	790
130	240.50	bu	371	430	488	546	605	663	721	780	838	896	955
			314	373	431	489	548	606	664	723	781	839	898
140	259.00	bu	434	497	560	622	685	748	811	874	936	999	1062
			377	440	502	565	628	691	754	816	879	942	1005
150	277.50	bu	496	564	631	698	766	833	900	967	1035	1102	1169
			439	507	574	641	708	776	843	910	978	1045	1112

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

Table 14.A Estimated costs per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.0870	27.18	_____
Potash (60% K2O)	cwt	23.00	0.8300	19.09	_____
Fert 10-34-0	cwt	22.00	0.5000	11.00	_____
UAN + Sulfur (28%)	cwt	12.00	2.1430	25.72	_____
UAN (32% N)	cwt	12.50	3.2815	41.02	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	4.0000	7.00	_____
Clarity	pt	11.86	0.5000	5.93	_____
Lexar	pt	5.56	3.3000	18.35	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Corn Seed BtRR	thous	2.90	26.0000	75.40	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	135.0000	35.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.4098	4.65	_____
Harvesters	hour	11.35	0.1009	1.15	_____
HAND LABOR					
Implements	hour	9.06	0.1752	1.59	_____
UNALLOCATED LABOR	hour	11.35	0.4597	5.22	_____
DIESEL FUEL					
Tractors	gal	2.39	4.0079	9.57	_____
Harvesters	gal	2.39	1.3770	3.29	_____
REPAIR & MAINTENANCE					
Implements	acre	6.14	1.0000	6.14	_____
Tractors	acre	1.64	1.0000	1.64	_____
Harvesters	acre	2.43	1.0000	2.43	_____
INTEREST ON OP. CAP.	acre	8.45	1.0000	8.45	_____
TOTAL DIRECT EXPENSES				355.31	_____
FIXED EXPENSES					
Implements	acre	8.15	1.0000	8.15	_____
Tractors	acre	10.62	1.0000	10.62	_____
Harvesters	acre	9.87	1.0000	9.87	_____
TOTAL FIXED EXPENSES				28.64	_____
TOTAL SPECIFIED EXPENSES				383.95	_____

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

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

**Intrepid application is necessary only on refuge acres.**

Table 14.B Summary of estimated costs and returns per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	135.0000	654.75	_____
				-----	
TOTAL INCOME				654.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	124.01	1.0000	124.01	_____
HERBICIDES	acre	31.28	1.0000	31.28	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
SEED/PLANTS	acre	75.40	1.0000	75.40	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	35.10	1.0000	35.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1752	1.59	_____
OPERATOR LABOR	hour	11.35	0.5107	5.80	_____
UNALLOCATED LABOR	hour	11.35	0.4597	5.22	_____
DIESEL FUEL	gal	2.39	5.3850	12.86	_____
REPAIR & MAINTENANCE	acre	10.21	1.0000	10.21	_____
INTEREST ON OP. CAP.	acre	8.45	1.0000	8.45	_____
				-----	
TOTAL DIRECT EXPENSES				355.31	_____
RETURNS ABOVE DIRECT EXPENSES				299.44	_____
TOTAL FIXED EXPENSES				28.64	_____
				-----	
TOTAL SPECIFIED EXPENSES				383.95	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				270.80	_____

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

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

**Intrepid application is necessary only on refuge acres.**

Table 14.C Estimated resource use for field operations, per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K20)	cwt					0.8300				
Disk Bed w/roller	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	Mar		0.08	0.08	0.16	0.07
Corn Seed BtRR	thous					26.0000				
Fert 10-34-0	cwt					0.5000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Spray (Broadcast)	60'	MFWD 190	0.028	1.00	Apr		0.02	0.02	0.04	0.02
Glyphosate 3lbs a.e.	pt					2.0000				
Lexar	pt					3.3000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.51	0.51	0.68	0.45

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Intrepid application is necessary only on refuge acres.**

Table 14.D Estimated costs for field operations, per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.98	0.42	1.29			0.12	2.81	1.61	4.42
DAP	cwt	27.18						1.18	28.36		28.36
Potash (60% K20)	cwt	19.09						0.83	19.92		19.92
Disk Bed w/roller	8R-38		1.73	0.63	1.60			0.17	4.13	2.83	6.96
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
Clarity	pt	5.93						0.17	6.10		6.10
Plant & Pre-Rigid	8R-38		1.88	1.31	2.46			0.14	5.79	4.04	9.83
Corn Seed BtRR	thous	75.40						1.90	77.30		77.30
Fert 10-34-0	cwt	11.00						0.28	11.28		11.28
Custom Apply Fert	acre	6.25						0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	25.72						0.56	26.28		26.28
Spray (Broadcast)	60'		0.66	0.24	0.74			0.04	1.68	0.89	2.57
Glyphosate 3lbs a.e.	pt	3.50						0.08	3.58		3.58
Lexar	pt	18.35						0.40	18.75		18.75
Fert Appl (Liquid)	8R-38		1.81	1.14	2.02			0.09	5.06	2.98	8.04
UAN (32% N)	cwt	41.02						0.74	41.76		41.76
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Intrepid 2F	oz	6.64						0.10	6.74		6.74
Header - Corn	8R-38		3.29	3.67	2.18			0.03	9.17	11.80	20.97
Grain Cart Corn	700 bu		0.58	0.29	0.54			0.01	1.42	0.99	2.41
Haul Corn/Field	bu	35.10						0.13	35.23		35.23
Stalk Shredder	20'		1.93	2.51	1.78			0.02	6.24	3.50	9.74
TOTALS		311.18	12.86	10.21	12.61	0.00		8.45	355.31	28.64	383.95

Note: Cost of production estimates are based on 2010 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Intrepid application is necessary only on refuge acres.**

Table 14.E Estimated monthly income and expense flows per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	654.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	46.27	0.00	0.00	0.00	0.00	11.00	25.72	41.02	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	21.85	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	75.40	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	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	0.00	35.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.89	0.00	0.00	0.00	0.00	2.46	0.74	2.02	0.00	0.00	0.00	4.50
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.71	0.00	0.00	0.00	0.00	1.88	0.66	1.81	0.00	0.00	0.00	5.80
REPAIR & MAINTENANCE	1.05	0.00	0.00	0.00	0.00	1.31	0.24	1.14	0.00	0.00	0.00	6.47
INTEREST ON OP. CAP.	3.30	0.00	0.00	0.00	0.43	2.32	1.22	0.83	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	79.22	0.00	0.00	0.00	15.36	94.37	56.68	46.82	10.80	0.00	0.00	52.06
NET INCOME	-79.22	0.00	0.00	0.00	-15.36	-94.37	-56.68	-46.82	-10.80	0.00	0.00	602.69
NET INCOME TO DATE	-79.22	-79.22	-79.22	-79.22	-94.58	-188.95	-245.63	-292.45	-303.25	-303.25	-303.25	299.44

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

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

**Intrepid application is necessary only on refuge acres.**

\* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre  
 Corn, stale seedbed, BtRR, non-irrigated, 8-row 38"  
 135 bu yield goal, Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-92	-75	-59	-43	-26	-10	6	22	38	55	71
			-120	-104	-88	-71	-55	-38	-22	-6	10	26	42
60	81.00	bu	-46	-26	-7	12	31	51	71	90	110	130	149
			-75	-55	-35	-16	3	22	42	62	81	101	121
70	94.50	bu	-0	21	44	67	90	113	136	159	182	205	228
			-29	-6	16	39	62	84	107	130	153	176	199
80	108.00	bu	44	70	96	123	149	175	201	227	254	280	306
			15	42	68	94	120	146	173	199	225	251	277
90	121.50	bu	90	119	149	178	208	237	266	296	325	355	384
			61	90	120	149	179	208	238	267	297	326	356
100	135.00	bu	135	168	201	233	266	299	332	364	397	430	463
			107	139	172	205	238	270	303	336	369	401	434
110	148.50	bu	181	217	253	289	325	361	397	433	469	505	541
			152	188	224	260	296	332	368	404	440	476	512
120	162.00	bu	226	266	305	344	384	423	462	501	541	580	619
			198	237	276	316	355	394	433	473	512	551	591
130	175.50	bu	272	315	357	400	442	485	527	570	612	655	698
			243	286	328	371	414	456	499	541	584	626	669
140	189.00	bu	318	363	409	455	501	547	593	638	684	730	776
			289	335	381	426	472	518	564	610	656	701	747
150	202.50	bu	363	412	461	510	560	609	658	707	756	805	854
			335	384	433	482	531	580	629	678	727	776	826

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

Table 15.A Estimated costs per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.8000	45.00	_____
Potash (60% K2O)	cwt	23.00	1.3750	31.63	_____
UAN + Sulfur (28%)	cwt	12.00	3.5710	42.85	_____
UAN (32% N)	cwt	12.50	4.3750	54.69	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	11.86	0.5000	5.93	_____
Atrazine 4L	pt	2.10	4.0000	8.40	_____
Dual II Magnum	pt	13.26	1.3300	17.64	_____
Accent SP	oz	29.01	0.1675	4.86	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.20	33.0000	6.60	_____
SEED/PLANTS					
Corn Seed RR	thous	2.56	30.0000	76.80	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	185.0000	48.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.7718	8.77	_____
Harvesters	hour	11.35	0.1009	1.15	_____
Self-Propelled	hour	11.35	0.0044	0.05	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0022	0.02	_____
UNALLOCATED LABOR					
	hour	11.35	0.7187	8.16	_____
DIESEL FUEL					
Tractors	gal	2.39	7.4227	17.73	_____
Harvesters	gal	2.39	1.3770	3.29	_____
Self-Propelled	gal	2.39	0.0396	0.09	_____
Roll-Out Pipe Irr.	gal	2.39	10.5901	25.32	_____
REPAIR & MAINTENANCE					
Implements	acre	7.32	1.0000	7.32	_____
Tractors	acre	3.04	1.0000	3.04	_____
Harvesters	acre	2.43	1.0000	2.43	_____
Self-Propelled	acre	0.04	1.0000	0.04	_____
Roll-Out Pipe Irr.	acre	5.16	1.0000	5.16	_____
INTEREST ON OP. CAP.					
	acre	11.51	1.0000	11.51	_____
TOTAL DIRECT EXPENSES				490.41	_____
FIXED EXPENSES					
Implements	acre	12.14	1.0000	12.14	_____
Tractors	acre	19.63	1.0000	19.63	_____
Harvesters	acre	9.87	1.0000	9.87	_____
Self-Propelled	acre	0.24	1.0000	0.24	_____
Roll-Out Pipe Irr.	acre	24.98	1.0000	24.98	_____
TOTAL FIXED EXPENSES				66.86	_____
TOTAL SPECIFIED EXPENSES				557.27	_____

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

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



Table 15.B Summary of estimated costs and returns per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	185.0000	897.25	_____
				-----	
TOTAL INCOME				897.25	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	174.17	1.0000	174.17	_____
HERBICIDES	acre	40.33	1.0000	40.33	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
IRRIGATION SUPPLIES	acre	6.60	1.0000	6.60	_____
SEED/PLANTS	acre	76.80	1.0000	76.80	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	48.10	1.0000	48.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1576	1.43	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	11.35	0.8771	9.97	_____
UNALLOCATED LABOR	hour	11.35	0.7187	8.16	_____
DIESEL FUEL	gal	2.39	19.4296	46.43	_____
REPAIR & MAINTENANCE	acre	17.99	1.0000	17.99	_____
INTEREST ON OP. CAP.	acre	11.51	1.0000	11.51	_____
				-----	
TOTAL DIRECT EXPENSES				490.41	_____
RETURNS ABOVE DIRECT EXPENSES				406.84	_____
TOTAL FIXED EXPENSES				66.86	_____
				-----	
TOTAL SPECIFIED EXPENSES				557.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				339.98	_____

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

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

Table 15.C Estimated resource use for field operations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.8000				
Potash (60% K20)	cwt					1.3750				
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR	thous					30.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					3.5710				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					4.3750				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Accent SP	oz					0.1675				
Cultivate	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.06
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					185.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.46	
TOTALS							0.87	0.87	1.42	0.71

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

Table 15.D Estimated costs for field operations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Subsoiler	3 shank		2.39	0.52	2.20		0.22	5.33	2.95	8.28
Disk Harrow	24'		1.91	1.08	1.77		0.21	4.97	3.77	8.74
Lime (Spread)	ton	23.00					1.00	24.00		24.00
Spin Spreader	5 ton		0.98	0.42	1.29		0.12	2.81	1.61	4.42
DAP	cwt	45.00					1.95	46.95		46.95
Potash (60% K2O)	cwt	31.63					1.37	33.00		33.00
Disk Bed (Hipper)Rdg	8R-38		1.73	0.58	1.60		0.17	4.08	2.70	6.78
App by Air ( 5 gal)	appl	5.50					0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50					0.10	3.60		3.60
Clarity	pt	5.93					0.17	6.10		6.10
Row Cond Rigid	26'		1.40	0.41	1.29		0.08	3.18	2.31	5.49
Plant - Rigid	8R-38		1.74	1.08	2.29		0.13	5.24	3.48	8.72
Corn Seed RR	thous	76.80					1.94	78.74		78.74
Custom Apply Fert	acre	6.25					0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	42.85					0.93	43.78		43.78
Atrazine 4L	pt	8.40					0.18	8.58		8.58
Dual II Magnum	pt	17.64					0.38	18.02		18.02
Fert Appl (Liquid)	8R-38		1.81	1.14	2.02		0.09	5.06	2.98	8.04
UAN (32% N)	cwt	54.69					0.99	55.68		55.68
Sprayer 600-750gal	60' 175hp		0.09	0.04	0.12			0.25	0.24	0.49
Accent SP	oz	4.86					0.09	4.95		4.95
Cultivate	8R-38		1.72	0.67	1.59		0.07	4.05	2.96	7.01
App by Air ( 3 gal)	appl	4.00					0.06	4.06		4.06
Intrepid 2F	oz	6.64					0.10	6.74		6.74
Header - Corn	8R-38		3.29	3.67	2.18		0.03	9.17	11.80	20.97
Grain Cart Corn	700 bu		0.58	0.29	0.54		0.01	1.42	0.99	2.41
Haul Corn/Field	bu	48.10					0.17	48.27		48.27
Stalk Shredder	20'		1.93	2.51	1.78		0.02	6.24	3.50	9.74
Roll-Out Pipe Irr.	acre	6.60	26.86	5.58	4.42		0.63	44.09	27.57	71.66
<b>TOTALS</b>		<b>391.39</b>	<b>46.43</b>	<b>17.99</b>	<b>23.09</b>	<b>0.00</b>	<b>11.51</b>	<b>490.41</b>	<b>66.86</b>	<b>557.27</b>

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

Table 15.E Estimated monthly income and expense flows per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	897.25
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	76.63	0.00	0.00	0.00	0.00	0.00	42.85	54.69	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	26.04	4.86	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.60	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	76.80	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	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	0.00	48.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	7.29	0.00	0.00	0.00	0.00	3.58	0.00	3.96	2.98	0.23	0.55	4.50
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	7.90	0.00	0.00	0.00	0.00	3.14	0.00	3.62	19.34	6.33	0.30	5.80
REPAIR & MAINTENANCE	2.83	0.00	0.00	0.00	0.00	1.49	0.00	1.85	4.57	0.69	0.09	6.47
INTEREST ON OP. CAP.	5.11	0.00	0.00	0.00	0.43	2.15	1.63	1.24	0.63	0.08	0.01	0.23
TOTAL DIRECT EXPENSES	122.76	0.00	0.00	0.00	15.36	87.16	76.77	70.22	44.76	7.33	0.95	65.10
NET INCOME	-122.76	0.00	0.00	0.00	-15.36	-87.16	-76.77	-70.22	-44.76	-7.33	-0.95	832.15
NET INCOME TO DATE	-122.76	-122.76	-122.76	-122.76	-138.12	-225.28	-302.05	-372.27	-417.03	-424.36	-425.31	406.84

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

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

\* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38",  
 185 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
	-----PRODUCT PRICE-----												
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	92.50	bu	-129	-107	-84	-62	-40	-17	4	27	49	72	94
			-196	-174	-151	-129	-106	-84	-62	-39	-17	5	27
60	111.00	bu	-67	-40	-13	13	40	67	94	121	148	174	201
			-134	-107	-80	-53	-26	0	27	54	81	108	134
70	129.50	bu	-4	26	57	89	120	152	183	214	246	277	309
			-71	-40	-8	22	53	85	116	148	179	210	242
80	148.00	bu	57	93	129	165	201	237	272	308	344	380	416
			-9	26	62	98	134	170	206	241	277	313	349
90	166.50	bu	120	160	200	241	281	321	362	402	443	483	523
			53	93	133	174	214	255	295	335	376	416	456
100	185.00	bu	182	227	272	317	361	406	451	496	541	586	631
			115	160	205	250	295	339	384	429	474	519	564
110	203.50	bu	244	294	343	393	442	491	541	590	639	689	738
			178	227	276	326	375	424	474	523	572	622	671
120	222.00	bu	307	361	415	468	522	576	630	684	738	791	845
			240	294	348	402	455	509	563	617	671	725	778
130	240.50	bu	369	428	486	544	603	661	719	778	836	894	953
			303	361	419	478	536	594	652	711	769	827	886
140	259.00	bu	432	495	558	620	683	746	809	872	934	997	1060
			365	428	491	553	616	679	742	805	867	930	993
150	277.50	bu	494	562	629	696	764	831	898	965	1033	1100	1167
			428	495	562	629	697	764	831	899	966	1033	1100

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

Table 16.A Estimated costs per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.0870	27.18	_____
Potash (60% K2O)	cwt	23.00	0.8300	19.09	_____
UAN + Sulfur (28%)	cwt	12.00	2.1430	25.72	_____
UAN (32% N)	cwt	12.50	3.2815	41.02	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	11.86	0.5000	5.93	_____
Atrazine 4L	pt	2.10	4.0000	8.40	_____
Dual II Magnum	pt	13.26	1.3300	17.64	_____
Accent SP	oz	29.01	0.1675	4.86	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Corn Seed RR	thous	2.56	26.0000	66.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	135.0000	35.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.6196	7.04	_____
Harvesters	hour	11.35	0.1009	1.15	_____
Self-Propelled	hour	11.35	0.0044	0.05	_____
HAND LABOR					
Implements	hour	9.06	0.1554	1.41	_____
Self-Propelled	hour	9.06	0.0022	0.02	_____
UNALLOCATED LABOR	hour	11.35	0.6524	7.41	_____
DIESEL FUEL					
Tractors	gal	2.39	6.0597	14.47	_____
Harvesters	gal	2.39	1.3770	3.29	_____
Self-Propelled	gal	2.39	0.0396	0.09	_____
REPAIR & MAINTENANCE					
Implements	acre	6.78	1.0000	6.78	_____
Tractors	acre	2.49	1.0000	2.49	_____
Harvesters	acre	2.43	1.0000	2.43	_____
Self-Propelled	acre	0.04	1.0000	0.04	_____
INTEREST ON OP. CAP.	acre	8.58	1.0000	8.58	_____
TOTAL DIRECT EXPENSES				355.64	_____
FIXED EXPENSES					
Implements	acre	10.16	1.0000	10.16	_____
Tractors	acre	16.06	1.0000	16.06	_____
Harvesters	acre	9.87	1.0000	9.87	_____
Self-Propelled	acre	0.24	1.0000	0.24	_____
TOTAL FIXED EXPENSES				36.33	_____
TOTAL SPECIFIED EXPENSES				391.97	_____

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

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

Table 16.B Summary of estimated costs and returns per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	135.0000	654.75	_____
				-----	
TOTAL INCOME				654.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	113.01	1.0000	113.01	_____
HERBICIDES	acre	40.33	1.0000	40.33	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
SEED/PLANTS	acre	66.56	1.0000	66.56	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	35.10	1.0000	35.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1576	1.43	_____
OPERATOR LABOR	hour	11.35	0.7249	8.24	_____
UNALLOCATED LABOR	hour	11.35	0.6524	7.41	_____
DIESEL FUEL	gal	2.39	7.4764	17.85	_____
REPAIR & MAINTENANCE	acre	11.74	1.0000	11.74	_____
INTEREST ON OP. CAP.	acre	8.58	1.0000	8.58	_____
				-----	
TOTAL DIRECT EXPENSES				355.64	_____
RETURNS ABOVE DIRECT EXPENSES				299.11	_____
TOTAL FIXED EXPENSES				36.33	_____
				-----	
TOTAL SPECIFIED EXPENSES				391.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				262.78	_____

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

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

Table 16.C Estimated resource use for field operations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Subsoiler	3 shank	MFWD 190	0.204	0.50	Oct		0.10	0.10	0.10	0.09
Disk Harrow	24'	MFWD 190	0.081	1.00	Oct		0.08	0.08	0.08	0.07
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 190	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	0.074	1.00	Oct		0.07	0.07	0.07	0.06
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	Mar		0.05	0.05	0.05	0.05
Plant - Rigid	8R-38	MFWD 190	0.074	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed RR	thous					26.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					3.2815				
Sprayer 600-750gal	60' 175hp		0.017	0.25	May			0.00	0.00	0.00
Accent SP	oz					0.1675				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-38	265 hp	0.100	1.00	Sep		0.10	0.10	0.10	0.09
Grain Cart Corn	700 bu	MFWD 190	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder	20'	MFWD 190	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.72	0.72	0.88	0.65

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



Table 16.D Estimated costs for field operations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Subsoiler	3 shank		2.39	0.52	2.20			0.22	5.33	2.95	8.28
Disk Harrow	24'		1.91	1.08	1.77			0.21	4.97	3.77	8.74
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.98	0.42	1.29			0.12	2.81	1.61	4.42
DAP	cwt	27.18						1.18	28.36		28.36
Potash (60% K2O)	cwt	19.09						0.83	19.92		19.92
Disk Bed (Hipper)Rdg	8R-38		1.73	0.58	1.60			0.17	4.08	2.70	6.78
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
Clarity	pt	5.93						0.17	6.10		6.10
Row Cond Rigid	26'		1.40	0.41	1.29			0.08	3.18	2.31	5.49
Plant - Rigid	8R-38		1.74	1.08	2.29			0.13	5.24	3.48	8.72
Corn Seed RR	thous	66.56						1.68	68.24		68.24
Custom Apply Fert	acre	6.25						0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	25.72						0.56	26.28		26.28
Atrazine 4L	pt	8.40						0.18	8.58		8.58
Dual II Magnum	pt	17.64						0.38	18.02		18.02
Fert Appl (Liquid)	8R-38		1.81	1.14	2.02			0.09	5.06	2.98	8.04
UAN (32% N)	cwt	41.02						0.74	41.76		41.76
Sprayer 600-750gal	60' 175hp		0.09	0.04	0.12				0.25	0.24	0.49
Accent SP	oz	4.86						0.09	4.95		4.95
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Intrepid 2F	oz	6.64						0.10	6.74		6.74
Header - Corn	8R-38		3.29	3.67	2.18			0.03	9.17	11.80	20.97
Grain Cart Corn	700 bu		0.58	0.29	0.54			0.01	1.42	0.99	2.41
Haul Corn/Field	bu	35.10						0.13	35.23		35.23
Stalk Shredder	20'		1.93	2.51	1.78			0.02	6.24	3.50	9.74
TOTALS		300.39	17.85	11.74	17.08	0.00	8.58	355.64	36.33	391.97	

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

Table 16.E Estimated monthly income and expense flows per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	654.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	46.27	0.00	0.00	0.00	0.00	0.00	25.72	41.02	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	26.04	4.86	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	66.56	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	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	0.00	35.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	6.86	0.00	0.00	0.00	0.00	3.58	0.00	2.14	0.00	0.00	0.00	4.50
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	7.01	0.00	0.00	0.00	0.00	3.14	0.00	1.90	0.00	0.00	0.00	5.80
REPAIR & MAINTENANCE	2.60	0.00	0.00	0.00	0.00	1.49	0.00	1.18	0.00	0.00	0.00	6.47
INTEREST ON OP. CAP.	3.73	0.00	0.00	0.00	0.43	1.89	1.26	0.92	0.16	0.00	0.00	0.19
TOTAL DIRECT EXPENSES	89.47	0.00	0.00	0.00	15.36	76.66	59.27	52.02	10.80	0.00	0.00	52.06
NET INCOME	-89.47	0.00	0.00	0.00	-15.36	-76.66	-59.27	-52.02	-10.80	0.00	0.00	602.69
NET INCOME TO DATE	-89.47	-89.47	-89.47	-89.47	-104.83	-181.49	-240.76	-292.78	-303.58	-303.58	-303.58	299.11

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

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

\* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre  
 Corn, conventional tillage, RR seed, 8-row 38"  
 135 bu yield goal, non-irrigated, Delta Area, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
	-----PRODUCT PRICE-----												
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-92	-76	-59	-43	-27	-10	5	22	38	54	71
			-128	-112	-96	-79	-63	-46	-30	-14	2	18	34
60	81.00	bu	-46	-27	-7	12	31	51	70	90	110	129	149
			-83	-63	-43	-24	-4	14	34	54	73	93	113
70	94.50	bu	-1	21	44	67	90	113	136	159	182	204	227
			-37	-14	8	31	54	76	99	122	145	168	191
80	108.00	bu	44	70	96	122	149	175	201	227	253	279	306
			7	34	60	86	112	138	165	191	217	243	269
90	121.50	bu	89	119	148	178	207	237	266	296	325	355	384
			53	82	112	141	171	200	230	259	289	318	348
100	135.00	bu	135	168	200	233	266	299	331	364	397	430	462
			99	131	164	197	230	262	295	328	360	393	426
110	148.50	bu	181	217	253	289	325	361	397	433	469	505	541
			144	180	216	252	288	324	360	396	432	468	504
120	162.00	bu	226	265	305	344	383	423	462	501	540	580	619
			190	229	268	308	347	386	425	465	504	543	583
130	175.50	bu	272	314	357	399	442	484	527	570	612	655	697
			235	278	320	363	406	448	491	533	576	618	661
140	189.00	bu	317	363	409	455	501	546	592	638	684	730	776
			281	327	373	418	464	510	556	602	648	693	739
150	202.50	bu	363	412	461	510	559	608	657	707	756	805	854
			327	376	425	474	523	572	621	670	719	768	818

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

Table 17.A Estimated costs per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	1.0000	5.50	_____
App by Air ( 3 gal)	appl	4.00	1.0000	4.00	_____
FERTILIZERS					
DAP	cwt	25.00	1.0870	27.18	_____
Potash (60% K2O)	cwt	23.00	0.8300	19.09	_____
UAN + Sulfur (28%)	cwt	12.00	2.1430	25.72	_____
UAN (32% N)	cwt	12.50	3.2815	41.02	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	1.75	2.0000	3.50	_____
Clarity	pt	11.86	0.5000	5.93	_____
Atrazine 4L	pt	2.10	4.0000	8.40	_____
Dual II Magnum	pt	13.26	1.3300	17.64	_____
Steadfast	oz	22.59	0.3750	8.47	_____
INSECTICIDES					
Intrepid 2F	oz	1.66	4.0000	6.64	_____
SEED/PLANTS					
Corn Seed RR	thous	2.56	28.0000	71.68	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
HAULING					
Haul Corn/Field	bu	0.26	135.0000	35.10	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.5682	6.44	_____
Harvesters	hour	11.35	0.1277	1.45	_____
HAND LABOR					
Implements	hour	9.06	0.1995	1.80	_____
UNALLOCATED LABOR	hour	11.33	0.6263	7.10	_____
DIESEL FUEL					
Tractors	gal	2.39	4.9725	11.88	_____
Harvesters	gal	2.39	1.7419	4.16	_____
REPAIR & MAINTENANCE					
Implements	acre	7.61	1.0000	7.61	_____
Tractors	acre	2.28	1.0000	2.28	_____
Harvesters	acre	3.07	1.0000	3.07	_____
INTEREST ON OP. CAP.	acre	8.61	1.0000	8.61	_____
TOTAL DIRECT EXPENSES				363.52	_____
FIXED EXPENSES					
Implements	acre	11.06	1.0000	11.06	_____
Tractors	acre	14.82	1.0000	14.82	_____
Harvesters	acre	12.49	1.0000	12.49	_____
TOTAL FIXED EXPENSES				38.37	_____
TOTAL SPECIFIED EXPENSES				401.89	_____

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

Table 17.B Summary of estimated costs and returns per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	4.85	135.0000	654.75	_____
				-----	
TOTAL INCOME				654.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	9.50	1.0000	9.50	_____
FERTILIZERS	acre	113.01	1.0000	113.01	_____
HERBICIDES	acre	43.94	1.0000	43.94	_____
INSECTICIDES	acre	6.64	1.0000	6.64	_____
SEED/PLANTS	acre	71.68	1.0000	71.68	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
HAULING	acre	35.10	1.0000	35.10	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1995	1.80	_____
OPERATOR LABOR	hour	11.35	0.6959	7.89	_____
UNALLOCATED LABOR	hour	11.33	0.6263	7.10	_____
DIESEL FUEL	gal	2.39	6.7145	16.04	_____
REPAIR & MAINTENANCE	acre	12.96	1.0000	12.96	_____
INTEREST ON OP. CAP.	acre	8.61	1.0000	8.61	_____
				-----	
TOTAL DIRECT EXPENSES				363.52	_____
RETURNS ABOVE DIRECT EXPENSES				291.23	_____
TOTAL FIXED EXPENSES				38.37	_____
				-----	
TOTAL SPECIFIED EXPENSES				401.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				252.86	_____

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

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

Table 17.C Estimated resource use for field operations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Oct		0.04	0.04	0.08	0.03
DAP	cwt					1.0870				
Potash (60% K2O)	cwt					0.8300				
Disk Heavy	20'	MFWD 170	0.097	1.00	Oct		0.09	0.09	0.09	0.08
Disk Bed w/roller	8R-30	MFWD 170	0.093	1.00	Oct		0.09	0.09	0.09	0.08
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e.	pt					2.0000				
Clarity	pt					0.5000				
Plant - Rigid	8R-30	MFWD 170	0.094	1.00	Mar		0.09	0.09	0.18	0.08
Corn Seed RR	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	cwt					2.1430				
Atrazine 4L	pt					4.0000				
Dual II Magnum	pt					1.3300				
Fert Appl (Liquid)	8R-30	MFWD 170	0.098	1.00	May		0.09	0.09	0.14	0.08
UAN (32% N)	cwt					3.2815				
Spray (Broadcast)	60'	MFWD 170	0.028	1.00	May		0.02	0.02	0.04	0.02
Steadfast	oz					0.3750				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 170	0.031	1.00	Sep		0.03	0.03	0.03	0.02
Haul Corn/Field	bu					135.0000				
Stalk Shredder	20'	MFWD 170	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.69	0.69	0.89	0.62

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

Table 17.D Estimated costs for field operations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.88	0.42	1.29			0.11	2.70	1.62	4.32
DAP	cwt	27.18						1.18	28.36		28.36
Potash (60% K20)	cwt	19.09						0.83	19.92		19.92
Disk Heavy	20'		2.03	1.23	2.09			0.23	5.58	4.37	9.95
Disk Bed w/roller	8R-30		1.96	0.80	2.02			0.21	4.99	3.59	8.58
App by Air ( 5 gal)	appl	5.50						0.16	5.66		5.66
Glyphosate 3lbs a.e.	pt	3.50						0.10	3.60		3.60
Clarity	pt	5.93						0.17	6.10		6.10
Plant - Rigid	8R-30		1.97	1.48	2.88			0.16	6.49	4.63	11.12
Corn Seed RR	thous	71.68						1.81	73.49		73.49
Custom Apply Fert	acre	6.25						0.14	6.39		6.39
UAN + Sulfur (28%)	cwt	25.72						0.56	26.28		26.28
Atrazine 4L	pt	8.40						0.18	8.58		8.58
Dual II Magnum	pt	17.64						0.38	18.02		18.02
Fert Appl (Liquid)	8R-30		2.05	1.33	2.55			0.11	6.04	3.66	9.70
UAN (32% N)	cwt	41.02						0.74	41.76		41.76
Spray (Broadcast)	60'		0.59	0.24	0.74			0.03	1.60	0.90	2.50
Steadfast	oz	8.47						0.15	8.62		8.62
App by Air ( 3 gal)	appl	4.00						0.06	4.06		4.06
Intrepid 2F	oz	6.64						0.10	6.74		6.74
Header - Corn	8R-30		4.16	4.64	2.75			0.04	11.59	14.93	26.52
Grain Cart Corn	500 bu		0.67	0.31	0.69			0.01	1.68	1.16	2.84
Haul Corn/Field	bu	35.10						0.13	35.23		35.23
Stalk Shredder	20'		1.73	2.51	1.78			0.02	6.04	3.51	9.55
TOTALS		309.12	16.04	12.96	16.79	0.00	8.61	363.52	38.37	401.89	

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

Table 17.E Estimated monthly income and expense flows per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	654.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	4.00	0.00	0.00	0.00
FERTILIZERS	46.27	0.00	0.00	0.00	0.00	0.00	25.72	41.02	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.43	0.00	26.04	8.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	71.68	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.00	0.00	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	0.00	35.10
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	5.40	0.00	0.00	0.00	0.00	2.88	0.00	3.29	0.00	0.00	0.00	5.22
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	4.87	0.00	0.00	0.00	0.00	1.97	0.00	2.64	0.00	0.00	0.00	6.56
REPAIR & MAINTENANCE	2.45	0.00	0.00	0.00	0.00	1.48	0.00	1.57	0.00	0.00	0.00	7.46
INTEREST ON OP. CAP.	3.56	0.00	0.00	0.00	0.43	1.97	1.26	1.03	0.16	0.00	0.00	0.20
TOTAL DIRECT EXPENSES	85.55	0.00	0.00	0.00	15.36	79.98	59.27	58.02	10.80	0.00	0.00	54.54
NET INCOME	-85.55	0.00	0.00	0.00	-15.36	-79.98	-59.27	-58.02	-10.80	0.00	0.00	600.21
NET INCOME TO DATE	-85.55	-85.55	-85.55	-85.55	-100.91	-180.89	-240.16	-298.18	-308.98	-308.98	-308.98	291.23

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

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

\* Lease costs are based on hourly usage costs.



Table 17.F Estimated returns for various price/yield combinations, per acre  
 Corn, stale seedbed, RR seed, 8-row 30",  
 135 bu yield goal, All Areas, Mississippi, 2011

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----PRODUCT PRICE-----													
Corn	3.63	3.88	4.12	4.36	4.60	4.85	5.09	5.33	5.57	5.82	6.06		
PERCENT	YIELD	UNIT	-----dollars-----										
50	67.50	bu	-100 -138	-84 -122	-67 -106	-51 -89	-34 -73	-18 -56	-2 -40	14 -24	30 -7	46 8	63 24
60	81.00	bu	-54 -93	-35 -73	-15 -53	4 -34	23 -14	43 5	63 24	82 44	102 63	121 83	141 103
70	94.50	bu	-9 -47	13 -24	36 -1	59 21	82 44	105 67	128 89	151 112	174 135	197 158	219 181
80	108.00	bu	36 -1	62 24	88 50	114 76	141 102	167 128	193 155	219 181	245 207	272 233	298 259
90	121.50	bu	81 43	111 73	140 102	170 131	199 161	229 190	258 220	288 249	317 279	347 308	376 338
100	135.00	bu	127 89	160 121	193 154	225 187	258 220	291 252	323 285	356 318	389 351	422 383	454 416
110	148.50	bu	173 134	209 170	245 206	281 242	317 278	353 314	389 350	425 386	461 422	497 458	533 494
120	162.00	bu	218 180	257 219	297 258	336 298	375 337	415 376	454 416	493 455	532 494	572 533	611 573
130	175.50	bu	264 225	306 268	349 311	391 353	434 396	477 438	519 481	562 523	604 566	647 608	689 651
140	189.00	bu	309 271	355 317	401 363	447 409	493 454	539 500	584 546	630 592	676 638	722 683	768 729
150	202.50	bu	355 317	404 366	453 415	502 464	551 513	600 562	650 611	699 660	748 709	797 759	846 808

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

Table 18.A Estimated costs per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
Custom Spray	acre	6.00	1.0000	6.00	_____
FERTILIZERS					
DAP	cwt	25.00	0.7600	19.00	_____
Potash (60% K2O)	cwt	23.00	0.5800	13.34	_____
UAN (32% N)	cwt	12.50	3.0690	38.36	_____
HERBICIDES					
Bicep II Magnum	qt	10.57	3.0000	31.71	_____
SEED/PLANTS					
Sorghum Concept	lb	1.77	6.0000	10.62	_____
HAULING					
Haul Sorghum/Field	bu	0.26	100.0000	26.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.3434	3.90	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1756	1.59	_____
UNALLOCATED LABOR	hour	11.34	0.4010	4.55	_____
DIESEL FUEL					
Tractors	gal	2.39	3.0053	7.18	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	4.29	1.0000	4.29	_____
Tractors	acre	1.39	1.0000	1.39	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	3.81	1.0000	3.81	_____
TOTAL DIRECT EXPENSES				201.69	_____
FIXED EXPENSES					
Implements	acre	8.60	1.0000	8.60	_____
Tractors	acre	8.96	1.0000	8.96	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				27.55	_____
TOTAL SPECIFIED EXPENSES				229.24	_____

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

Table 18.B Summary of estimated costs and returns per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	4.56	100.0000	456.00	_____
				-----	
TOTAL INCOME				456.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	6.00	1.0000	6.00	_____
FERTILIZERS	acre	70.70	1.0000	70.70	_____
HERBICIDES	acre	31.71	1.0000	31.71	_____
SEED/PLANTS	acre	10.62	1.0000	10.62	_____
HAULING	acre	26.00	1.0000	26.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1756	1.59	_____
OPERATOR LABOR	hour	11.35	0.4456	5.06	_____
UNALLOCATED LABOR	hour	11.34	0.4010	4.55	_____
DIESEL FUEL	gal	2.39	4.3989	10.51	_____
REPAIR & MAINTENANCE	acre	8.14	1.0000	8.14	_____
INTEREST ON OP. CAP.	acre	3.81	1.0000	3.81	_____
				-----	
TOTAL DIRECT EXPENSES				201.69	_____
RETURNS ABOVE DIRECT EXPENSES				254.31	_____
TOTAL FIXED EXPENSES				27.55	_____
				-----	
TOTAL SPECIFIED EXPENSES				229.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				226.76	_____

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

Table 18.C Estimated resource use for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Oct	0.5000				
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Apr		0.04	0.04	0.08	0.03
DAP	cwt					0.7600				
Potash (60% K20)	cwt					0.5800				
Disk Harrow	24'	MFWD 170	0.081	1.00	Apr		0.08	0.08	0.08	0.07
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Rigid	12R-20	MFWD 170	0.094	1.00	May		0.09	0.09	0.18	0.08
Sorghum Concept	lb					6.0000				
Custom Spray	acre			1.00	May	1.0000				
Bicep II Magnum	qt					3.0000				
Fert Appl (Liquid)	12R-30	MFWD 170	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN (32% N)	cwt					3.0690				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum/Field	bu					100.0000				
TOTALS							0.44	0.44	0.62	0.40

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

Table 18.D Estimated costs for field operations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	23.00						1.00	24.00		24.00
Spin Spreader	5 ton		0.88	0.42	1.29			0.06	2.65	1.62	4.27
DAP	cwt	19.00						0.41	19.41		19.41
Potash (60% K20)	cwt	13.34						0.29	13.63		13.63
Disk Harrow	24'		1.71	1.08	1.77			0.10	4.66	3.78	8.44
Field Cultivate Fld	32'		0.98	0.58	1.01			0.06	2.63	2.93	5.56
Plant - Rigid	12R-20		1.97	1.72	2.88			0.12	6.69	5.12	11.81
Sorghum Concept	lb	10.62						0.19	10.81		10.81
Custom Spray	acre	6.00						0.11	6.11		6.11
Bicep II Magnum	qt	31.71						0.57	32.28		32.28
Fert Appl (Liquid)	12R-30		1.64	1.27	2.05			0.09	5.05	3.16	8.21
UAN (32% N)	cwt	38.36						0.69	39.05		39.05
Header Wheat/Sorghum	25' Rigid		3.33	3.07	2.20			0.03	8.63	10.94	19.57
Haul Sorghum/Field	bu	26.00						0.09	26.09		26.09
TOTALS		168.03	10.51	8.14	11.20	0.00	3.81	201.69	27.55	229.24	

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

Table 18.E Estimated monthly income and expense flows per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	32.34	38.36	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.71	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.62	0.00	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	0.00	26.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.07	4.93	0.00	0.00	0.00	2.20
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	0.00	0.00	0.00	0.00	0.00	0.00	3.57	3.61	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.99	0.00	0.00	0.00	3.07
INTEREST ON OP. CAP.	1.00	0.00	0.00	0.00	0.00	0.00	0.92	1.77	0.00	0.00	0.00	0.12
TOTAL DIRECT EXPENSES	24.00	0.00	0.00	0.00	0.00	0.00	42.98	99.99	0.00	0.00	0.00	34.72
NET INCOME	-24.00	0.00	0.00	0.00	0.00	0.00	-42.98	-99.99	0.00	0.00	0.00	421.28
NET INCOME TO DATE	-24.00	-24.00	-24.00	-24.00	-24.00	-24.00	-66.98	-166.97	-166.97	-166.97	-166.97	254.31

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

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

\* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre  
 Grain sorghum, 12-row 30", 100 bu yield goal  
 All Areas, Mississippi, 2011

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Grain Sorghum			3.42	3.64	3.87	4.10	4.33	4.56	4.78	5.01	5.24	5.47	5.70
PERCENT YIELD UNIT			dollars										
50	50.00	bu	-17	-6	5	16	27	39	50	62	73	84	96
			-45	-33	-22	-10	0	11	23	34	46	57	68
60	60.00	bu	13	27	41	54	68	82	96	109	123	137	150
			-13	0	13	27	41	54	68	82	95	109	123
70	70.00	bu	45	61	77	93	109	125	141	157	173	189	205
			17	33	49	65	81	97	113	129	145	161	177
80	80.00	bu	77	95	113	131	150	168	186	204	223	241	259
			49	67	86	104	122	140	159	177	195	213	231
90	90.00	bu	108	129	149	170	190	211	231	252	272	293	313
			81	101	122	142	163	183	204	224	245	265	286
100	100.00	bu	140	163	185	208	231	254	277	299	322	345	368
			112	135	158	181	203	226	249	272	295	317	340
110	110.00	bu	171	196	222	247	272	297	322	347	372	397	422
			144	169	194	219	244	269	294	319	344	370	395
120	120.00	bu	203	230	258	285	312	340	367	395	422	449	477
			175	203	230	258	285	312	340	367	394	422	449
130	130.00	bu	235	264	294	324	353	383	412	442	472	501	531
			207	237	266	296	326	355	385	415	444	474	503
140	140.00	bu	266	298	330	362	394	426	458	490	522	553	585
			239	271	302	334	366	398	430	462	494	526	558
150	150.00	bu	298	332	366	400	435	469	503	537	571	606	640
			270	304	339	373	407	441	475	510	544	578	612

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

Table 19.A Estimated costs per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	3.0000	16.50	_____
FERTILIZERS					
DAP	cwt	25.00	1.0000	25.00	_____
Potash (60% K2O)	cwt	23.00	0.7500	17.25	_____
Fert 41-0-0-4	cwt	18.50	2.8000	51.80	_____
FUNGICIDES					
Quilt	pt	20.25	0.8750	17.72	_____
HERBICIDES					
Osprey	oz	3.27	4.7500	15.53	_____
Harmony Extra SG	oz	12.76	0.9000	11.48	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.27	90.0000	24.30	_____
ADJUVANTS					
Surfactant	pt	2.44	1.6000	3.90	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	6.25	2.8000	17.50	_____
HAULING					
Haul Wheat/Field	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.2648	3.01	_____
Harvesters	hour	11.35	0.1021	1.16	_____
HAND LABOR					
Implements	hour	9.06	0.1363	1.23	_____
UNALLOCATED LABOR	hour	11.34	0.2936	3.33	_____
DIESEL FUEL					
Tractors	gal	2.39	2.3178	5.54	_____
Harvesters	gal	2.39	1.3935	3.33	_____
REPAIR & MAINTENANCE					
Implements	acre	3.11	1.0000	3.11	_____
Tractors	acre	1.07	1.0000	1.07	_____
Harvesters	acre	2.46	1.0000	2.46	_____
INTEREST ON OP. CAP.	acre	6.19	1.0000	6.19	_____
TOTAL DIRECT EXPENSES				272.61	_____
FIXED EXPENSES					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	6.91	1.0000	6.91	_____
Harvesters	acre	9.99	1.0000	9.99	_____
TOTAL FIXED EXPENSES				23.93	_____
TOTAL SPECIFIED EXPENSES				296.54	_____

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



Table 19.B Summary of estimated costs and returns per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	6.75	70.0000	472.50	_____
				-----	
TOTAL INCOME				472.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.50	1.0000	16.50	_____
FERTILIZERS	acre	94.05	1.0000	94.05	_____
FUNGICIDES	acre	17.72	1.0000	17.72	_____
HERBICIDES	acre	27.01	1.0000	27.01	_____
SEED/PLANTS	acre	24.30	1.0000	24.30	_____
ADJUVANTS	acre	3.90	1.0000	3.90	_____
CUSTOM FERTILIZE	acre	17.50	1.0000	17.50	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.1363	1.23	_____
OPERATOR LABOR	hour	11.35	0.3670	4.17	_____
UNALLOCATED LABOR	hour	11.34	0.2936	3.33	_____
DIESEL FUEL	gal	2.39	3.7114	8.87	_____
REPAIR & MAINTENANCE	acre	6.64	1.0000	6.64	_____
INTEREST ON OP. CAP.	acre	6.19	1.0000	6.19	_____
				-----	
TOTAL DIRECT EXPENSES				272.61	_____
RETURNS ABOVE DIRECT EXPENSES				199.89	_____
TOTAL FIXED EXPENSES				23.93	_____
				-----	
TOTAL SPECIFIED EXPENSES				296.54	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				175.96	_____

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

Table 19.C Estimated resource use for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Sep	0.5000				
Disk Harrow	24'	MFWD 170	0.081	1.00	Sep		0.08	0.08	0.08	0.06
Spin Spreader	5 ton	MFWD 170	0.042	1.00	Sep		0.04	0.04	0.08	0.03
DAP	cwt					1.0000				
Potash (60% K2O)	cwt					0.7500				
Field Cultivate Fld	32'	MFWD 170	0.046	1.00	Sep		0.04	0.04	0.04	0.03
Grain Drill	20'	MFWD 170	0.094	1.00	Oct		0.09	0.09	0.18	0.07
Wheat Seed Private	lb					90.0000				
App by Air ( 5 gal)	appl			1.00	Nov	1.0000				
Osprey	oz					4.7500				
Surfactant	pt					1.5000				
App Fert by Air	cwt			1.00	Feb	1.4000				
Fert 41-0-0-4	cwt					1.4000				
App by Air ( 5 gal)	appl			1.00	Feb	1.0000				
Harmony Extra SG	oz					0.9000				
Surfactant	pt					0.1000				
App Fert by Air	cwt			1.00	Mar	1.4000				
Fert 41-0-0-4	cwt					1.4000				
App by Air ( 5 gal)	appl			1.00	Apr	1.0000				
Quilt	pt					0.8750				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.10	0.08
Haul Wheat/Field	bu					70.0000				
TOTALS							0.36	0.36	0.50	0.29

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

Table 19.D Estimated costs for field operations, per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Lime (Spread)	ton	23.00					0.83	23.83		23.83
Disk Harrow	24'		1.71	1.08	1.67		0.16	4.62	3.78	8.40
Spin Spreader	5 ton		0.88	0.42	1.24		0.09	2.63	1.62	4.25
DAP	cwt	25.00					0.90	25.90		25.90
Potash (60% K2O)	cwt	17.25					0.62	17.87		17.87
Field Cultivate Fld	32'		0.98	0.58	0.95		0.09	2.60	2.93	5.53
Grain Drill	20'		1.97	1.49	2.78		0.20	6.44	4.66	11.10
Wheat Seed Private	lb	24.30					0.79	25.09		25.09
App by Air ( 5 gal)	appl	5.50					0.16	5.66		5.66
Osprey	oz	15.53					0.45	15.98		15.98
Surfactant	pt	3.66					0.11	3.77		3.77
App Fert by Air	cwt	8.75					0.16	8.91		8.91
Fert 41-0-0-4	cwt	25.90					0.47	26.37		26.37
App by Air ( 5 gal)	appl	5.50					0.10	5.60		5.60
Harmony Extra SG	oz	11.48					0.21	11.69		11.69
Surfactant	pt	0.24						0.24		0.24
App Fert by Air	cwt	8.75					0.13	8.88		8.88
Fert 41-0-0-4	cwt	25.90					0.37	26.27		26.27
App by Air ( 5 gal)	appl	5.50					0.06	5.56		5.56
Quilt	pt	17.72					0.19	17.91		17.91
Header Wheat/Sorghum	25' Rigid		3.33	3.07	2.09		0.03	8.52	10.94	19.46
Haul Wheat/Field	bu	18.20					0.07	18.27		18.27
TOTALS		242.18	8.87	6.64	8.73	0.00	6.19	272.61	23.93	296.54

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

Table 19.E Estimated monthly income and expense flows per acre  
 Wheat followed by soybeans, 70 bu yield goal  
 All Areas, Mississippi, 2011

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	472.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	5.50	0.00	5.50	0.00	0.00
FERTILIZERS	0.00	0.00	42.25	0.00	0.00	0.00	0.00	25.90	25.90	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.72	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.53	0.00	0.00	11.48	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.24	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.75	8.75	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	3.86	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09
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	0.00	0.00	3.57	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
REPAIR & MAINTENANCE	0.00	0.00	2.08	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07
INTEREST ON OP. CAP.	0.00	0.00	2.69	0.99	0.72	0.00	0.00	0.94	0.50	0.25	0.00	0.10
TOTAL DIRECT EXPENSES	0.00	0.00	77.45	31.53	25.41	0.00	0.00	52.81	35.15	23.47	0.00	26.79
NET INCOME	0.00	0.00	-77.45	-31.53	-25.41	0.00	0.00	-52.81	-35.15	-23.47	0.00	445.71
NET INCOME TO DATE	0.00	0.00	-77.45	-108.98	-134.39	-134.39	-134.39	-187.20	-222.35	-245.82	-245.82	199.89

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

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

\* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre  
Wheat followed by soybeans, 70 bu yield goal  
All Areas, Mississippi, 2011

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Wheat			5.06	5.40	5.73	6.07	6.41	6.75	7.08	7.42	7.76	8.10	8.43
PERCENT YIELD UNIT			-----dollars-----										
50	35.00	bu	-86	-74	-62	-50	-39	-27	-15	-3	8	20	31
			-110	-98	-86	-74	-62	-51	-39	-27	-15	-3	7
60	42.00	bu	-52	-38	-24	-10	4	18	32	46	60	74	89
			-76	-62	-48	-34	-19	-5	8	22	36	50	65
70	49.00	bu	-19	-2	14	30	47	63	80	96	113	129	146
			-42	-26	-9	6	23	39	56	72	89	105	122
80	56.00	bu	14	33	52	71	90	109	127	146	165	184	203
			-9	9	28	47	66	85	104	122	141	160	179
90	63.00	bu	48	69	90	111	133	154	175	196	218	239	260
			24	45	66	88	109	130	151	173	194	215	236
100	70.00	bu	81	105	129	152	176	199	223	247	270	294	318
			57	81	105	128	152	175	199	223	246	270	294
110	77.00	bu	115	141	167	193	219	245	271	297	323	349	375
			91	117	143	169	195	221	247	273	299	325	351
120	84.00	bu	148	177	205	234	262	290	319	347	375	404	432
			125	153	181	210	238	266	295	323	351	380	408
130	91.00	bu	182	213	244	274	305	336	366	397	428	459	489
			158	189	220	250	281	312	342	373	404	435	465
140	98.00	bu	216	249	282	315	348	381	414	447	480	513	546
			192	225	258	291	324	357	390	423	456	489	523
150	105.00	bu	249	285	320	356	391	427	462	497	533	568	604
			225	261	296	332	367	403	438	473	509	544	580

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

Table 20.A Estimated costs per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 20.B Summary of estimated costs and returns per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 20.C Estimated resource use for field operations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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



Table 20.D Estimated costs for field operations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 20.E Estimated monthly income and expense flows per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs

Table 20.F Estimated returns for various price/yield combinations, per acre  
 Contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 21.A Estimated costs per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 21.B Summary of estimated costs and returns per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 21.C Estimated resource use for field operations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 21.D Estimated costs for field operations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 21.E Estimated monthly income and expense flows per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs



Table 21.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 22.A Estimated costs per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 22.B Summary of estimated costs and returns per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 22.C Estimated resource use for field operations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 22.D Estimated costs for field operations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 22.E Estimated monthly income and expense flows per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs

Table 22.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice  
 Multi inlet flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 23.A Estimated costs per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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



Table 23.B Summary of estimated costs and returns per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 23.C Estimated resource use for field operations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 23.D Estimated costs for field operations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 23.E Estimated monthly income and expense flows per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre  
 Straight levee rice - zero grade  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 24.A Estimated costs per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 24.B Summary of estimated costs and returns per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 24.C Estimated resource use for field operations, per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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



Table 24.D Estimated costs for field operations, per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 24.E Estimated monthly income and expense flows per acre  
 Clearfield contour levee rice  
 Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs

Table 24.F Estimated returns for various price/yield combinations, per acre  
Clearfield contour levee rice  
Flood irrigated, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Table 25.A Estimated costs per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 25.B Summary of estimated costs and returns per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 25.C Estimated resource use for field operations, per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 25.D Estimated costs for field operations, per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 25.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs



Table 25.F Estimated returns for various price/yield combinations, per acre  
Clearfield straight levee rice  
Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 26.A Estimated costs per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 26.B Summary of estimated costs and returns per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 26.C Estimated resource use for field operations, per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 26.D Estimated costs for field operations, per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 26.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee multi inlet rice  
 Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 26.F Estimated returns for various price/yield combinations, per acre  
Clearfield straight levee multi inlet rice  
Flood irrigated, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Table 27.A Estimated costs per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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



Table 27.B Summary of estimated costs and returns per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 27.C Estimated resource use for field operations, per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 27.D Estimated costs for field operations, per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

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

Table 27.E Estimated monthly income and expense flows per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs.

Table 27.F Estimated returns for various price/yield combinations, per acre  
 Clearfield straight levee-zero grade rice  
 Flood irrigated, 19 ac-in., Delta Area, Mississippi, 2011

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

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

Table 28.A Estimated costs per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 28.B Summary of estimated costs and returns per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 28.C Estimated resource use for field operations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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



Table 28.D Estimated costs for field operations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Table 28.E Estimated monthly income and expense flows per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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

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

\* Lease costs are based on hourly usage costs.

Table 28.F Estimated returns for various price/yield combinations, per acre  
 Clearfield hybrid straight levee rice  
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2011

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

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



## APPENDIX

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

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

## Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

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

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

## Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer

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

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

(continued)



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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Ridge Till Cult + PD	8R-30	2WD 150	27,000	200	12	0.110	1.74	2.02	1.42	0.35	5.55	1.49	2.21	9.26
Ridge Till Cult + PD	12R-30	2WD 190	37,600	200	12	0.073	1.16	1.71	1.32	0.25	4.45	1.38	1.63	7.47
Ridge Till Cultivate	8R-30	2WD 170	22,000	200	12	0.103	1.17	2.15	1.08	0.35	4.76	1.14	2.29	8.20
Ridge Till Cultivate	12R-30	2WD 190	32,600	200	12	0.068	0.78	1.60	1.07	0.23	3.69	1.12	1.53	6.36
Rip/Bed/Till-Fold.	8R-38	MFWD 190	30,300	300	20	0.073	0.82	1.70	0.11	0.29	2.93	0.55	1.89	5.38
Rip/Bed/Till-Fold.	12R-30	MFWD 225	45,700	300	20	0.061	0.69	1.70	0.14	0.31	2.85	0.70	2.01	5.58
Rip/Bed/Till-Fold.	12R-38	MFWD 225	45,700	300	20	0.046	0.52	1.27	0.10	0.23	2.14	0.52	1.51	4.18
Rip/Bed/Till-Rigid	4R-30	MFWD 190	12,900	300	20	0.184	2.09	4.32	0.11	0.73	7.27	0.59	4.78	12.65
Rip/Bed/Till-Rigid	4R-38	MFWD 190	12,900	300	20	0.146	1.66	3.42	0.09	0.58	5.77	0.47	3.79	10.04
Rip/Bed/Till-Rigid	6R-38	MFWD 190	19,800	300	20	0.097	1.10	2.27	0.09	0.38	3.86	0.48	2.51	6.86
Rip/Bed/Till-Rigid	8R-30	MFWD 190	25,300	300	20	0.139	1.57	3.24	0.17	0.55	5.55	0.88	3.59	10.03
Rip/Bed/Till-Rigid	8R-38	MFWD 190	25,300	300	20	0.073	0.82	1.70	0.09	0.29	2.92	0.46	1.89	5.27
Rip/Bed/Till-Rigid	6R-30	MFWD 190	19,800	300	20	0.123	1.39	2.88	0.12	0.49	4.89	0.61	3.19	8.69
Ripper Conditioner	6-Row	MFWD 225	18,200	150	12	0.107	1.22	2.97	0.70	0.54	5.44	1.27	3.52	10.24
Ripper Conditioner	8-Row	MFWD 225	19,000	150	12	0.080	0.91	2.23	0.55	0.40	4.11	0.99	2.64	7.76
Roller/Cultipacker	12'	2WD 130	5,020	300	12	0.124	1.41	1.98	0.14	0.33	3.88	0.20	2.06	6.15
Roller/Cultipacker	20'	MFWD 150	14,700	300	12	0.074	0.84	1.37	0.25	0.25	2.74	0.36	1.59	4.70
Roller/Cultipacker	30'	MFWD 170	14,900	300	12	0.049	0.56	1.04	0.17	0.19	1.98	0.24	1.29	3.52
Roller/Cultipacker	38'	MFWD 225	16,100	300	12	0.039	0.44	1.08	0.14	0.19	1.88	0.21	1.28	3.38
Roller/Stubble	20'	2WD 50	10,900	300	12	0.074	0.84	0.45	0.19	0.05	1.55	0.27	0.32	2.15
Roller/Stubble	32'	MFWD 225	18,500	300	12	0.046	0.52	1.29	0.20	0.23	2.26	0.28	1.52	4.07
Rotary Cutter	7'	MFWD 130	3,920	185	10	0.168	1.91	2.69	0.53	0.48	5.62	0.39	3.01	9.03
Rotary Cutter	12'	2WD 150	10,100	185	10	0.098	1.11	1.81	0.80	0.31	4.04	0.58	1.97	6.60
Rotary Cutter-Flex	15'	MFWD 150	17,500	185	10	0.078	0.89	1.44	1.11	0.26	3.72	0.81	1.67	6.21
Rotary Cutter-Flex	20'	MFWD 150	25,000	185	10	0.058	0.66	1.08	1.19	0.20	3.15	0.87	1.25	5.28
Row Cond & Inc-Fold.	26'	MFWD 190	22,300	100	10	0.063	1.00	1.48	0.35	0.25	3.09	1.54	1.64	6.28
Row Cond & Inc-Fold.	38'	MFWD 225	27,900	100	10	0.043	0.68	1.20	0.30	0.21	2.41	1.32	1.42	5.16
Row Cond & Inc-Rigid	13'	2WD 130	11,100	100	10	0.126	2.01	2.02	0.35	0.33	4.73	1.54	2.10	8.38
Row Cond & Inc-Rigid	21'	2WD 170	14,600	100	10	0.078	1.24	1.64	0.28	0.26	3.44	1.25	1.74	6.44
Row Cond & Inc-Rigid	26'	MFWD 190	16,600	100	10	0.026	0.42	0.62	0.11	0.10	1.26	0.48	0.68	2.43
Row Cond Folding	26'	MFWD 225	17,300	100	10	0.059	0.67	1.65	0.25	0.30	2.89	1.13	1.95	5.97
Row Cond Folding	38'	MFWD 225	21,100	100	10	0.040	0.46	1.13	0.21	0.20	2.01	0.94	1.33	4.29
Row Cond Rigid	13'	2WD 130	6,100	100	10	0.119	1.35	1.91	0.18	0.31	3.76	0.79	1.98	6.54
Row Cond Rigid	21'	2WD 170	9,600	100	10	0.073	0.83	1.54	0.17	0.25	2.81	0.77	1.64	5.23
Row Cond Rigid	26'	MFWD 190	11,600	100	10	0.059	0.67	1.39	0.17	0.23	2.48	0.75	1.54	4.78
Spin Spreader	5 ton	MFWD 190	10,600	100	8	0.042	0.85	0.98	0.25	0.16	2.26	0.52	1.08	3.87
Spray (ATV Ropewick)	75"	800 CC	540	200	8	0.260	4.13	0.47	0.06	0.43	5.11	0.08	1.78	6.98
Spray (ATV)	12'/17'	800 CC	550	200	8	0.112	1.79	0.20	0.02	0.19	2.21	0.03	0.77	3.02
Spray (ATV)	20'	800 CC	1,250	200	8	0.084	1.34	0.15	0.04	0.14	1.69	0.06	0.58	2.33
Spray (Band)	27' Fold	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Band)	40' Fold	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Band)	50' Fold	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Band)	53' Fold	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Band)	60' Fold	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Bcast/HB)	13' Rigid	MFWD 150	5,070	200	8	0.130	2.06	2.40	0.30	0.44	5.22	0.38	2.78	8.39
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,960	200	8	0.084	1.34	1.56	0.23	0.29	3.43	0.29	1.80	5.53
Spray (Bcast/HB)	27' Fold	MFWD 170	9,910	200	8	0.062	0.99	1.31	0.29	0.25	2.84	0.36	1.63	4.84
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,850	200	8	0.062	0.99	1.31	0.20	0.25	2.75	0.25	1.63	4.64
Spray (Bcast/HB)	30' Fold	MFWD 170	13,000	200	8	0.056	0.89	1.17	0.34	0.22	2.64	0.42	1.47	4.54
Spray (Bcast/HB)	40' Fold	MFWD 170	13,800	200	8	0.042	0.67	0.88	0.27	0.16	2.00	0.34	1.10	3.44
Spray (Bcast/HB/HD)	27'	MFWD 170	20,500	200	8	0.062	0.99	1.31	0.60	0.25	3.16	0.74	1.63	5.54
Spray (Bcast/HB/HD)	40'	MFWD 170	24,400	200	8	0.042	0.67	0.88	0.48	0.16	2.21	0.60	1.10	3.91
Spray (Broadcast)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Broadcast)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12
Spray (Broadcast)	50'	MFWD 170	7,140	200	8	0.033	0.53	0.70	0.11	0.13	1.49	0.14	0.88	2.51
Spray (Broadcast)	53'	MFWD 170	7,500	200	8	0.031	0.50	0.66	0.11	0.12	1.41	0.13	0.83	2.38
Spray (Broadcast)	60'	MFWD 170	9,580	200	8	0.028	0.44	0.58	0.12	0.11	1.27	0.15	0.73	2.17
Spray (Direct/Hood)	8R-30	MFWD 170	14,500	200	8	0.084	1.34	1.76	0.57	0.33	4.02	0.71	2.20	6.95
Spray (Direct/Hood)	8R-38	MFWD 170	15,700	200	8	0.066	1.06	1.39	0.49	0.26	3.22	0.61	1.74	5.57
Spray (Direct/Hood)	12R-30	MFWD 170	18,400	200	8	0.056	0.89	1.17	0.48	0.22	2.78	0.60	1.47	4.86
Spray (Direct/Hood)	12R-38	MFWD 170	18,800	200	8	0.044	0.70	0.93	0.39	0.17	2.20	0.48	1.16	3.85
Spray (Direct/Layby)	8R-30	MFWD 170	10,500	200	8	0.084	1.34	1.76	0.41	0.33	3.86	0.51	2.20	6.59
Spray (Direct/Layby)	8R-38	MFWD 170	11,000	200	8	0.066	1.06	1.39	0.34	0.26	3.07	0.42	1.74	5.24
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	10R-30	MFWD 170	12,200	200	8	0.067	1.07	1.41	0.38	0.27	3.14	0.48	1.76	5.39
Spray (Direct/Layby)	12R-30	MFWD 170	15,400	200	8	0.056	0.89	1.17	0.40	0.22	2.70	0.50	1.47	4.68
Spray (Direct/Layby)	12R-38	MFWD 170	21,100	200	8	0.044	0.70	0.93	0.44	0.17	2.25	0.54	1.16	3.96
Spray (Direct/Layby)	16R-20	MFWD 170	9,840	200	8	0.063	1.00	1.32	0.29	0.25	2.87	0.36	1.65	4.89
Spray (Levee Leaper)	50'	MFWD 225	11,500	200	8	0.033	0.53	0.93	0.18	0.17	1.82	0.22	1.10	3.16
Spray (Pull Type)	60'	MFWD 225	26,500	200	8	0.028	0.44	0.78	0.35	0.14	1.72	0.43	0.92	3.08
Spray (Pull Type)	80'	MFWD 225	36,400	200	8	0.021	0.33	0.58	0.36	0.10	1.38	0.44	0.69	2.53
Spray (Pull Type)	90'	2WD 50	36,800	200	8	0.018	0.29	0.11	0.32	0.01	0.75	0.40	0.08	1.23
Spray (Pull Type)	100'	MFWD 225	39,000	200	8	0.016	0.26	0.46	0.30	0.08	1.13	0.38	0.55	2.07
Spray (Pull Type)	120'	MFWD 225	48,800	200	8	0.014	0.22	0.39	0.32	0.07	1.00	0.40	0.46	1.87
Spray (Ropewick)	20'	MFWD 190	2,390	200	8	0.084	1.34	1.97	0.09	0.33	3.75	0.11	2.19	6.06
Spray (Spot)	27'	MFWD 170	4,990	200	8	0.062	0.99	1.31	0.14	0.25	2.70	0.18	1.63	4.52
Spray (Spot)	40'	MFWD 170	6,560	200	8	0.042	0.67	0.88	0.13	0.16	1.85	0.16	1.10	3.12

(continued)

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

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

Notes:

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

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

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

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

(continued)

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

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

(continued)



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

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

(continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix Table 8. Estimated costs for field operations, per acre  
 Additional practices for irrigated cotton  
 160-acre roll-out pipe system, 10.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		0.89	0.23	0.43			0.01	1.56	1.19	2.75
Disk Bed (Hipper)Rdg	8R-38		0.43	0.14	0.21			0.02	0.80	0.67	1.47
UAN (32% N)	cwt	3.75						0.09	3.84		3.84
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.15	0.05	0.11			0.01	0.32	0.18	0.50
UAN (32% N)	cwt	3.75						0.07	3.82		3.82
Roll-Out Pipe	ft	6.60						0.12	6.72		6.72
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.20	0.05	0.37			0.01	0.63	0.49	1.12
IRRIGATE LABOR	hour				1.81			0.03	1.84		1.84
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.28			0.01	0.81	0.95	1.76
Caparol 4L	pt	3.36						0.06	3.42		3.42
MSMA 6.6	pt	7.40						0.13	7.53		7.53
App by Air ( 3 gal)	appl	4.00						0.07	4.07		4.07
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Incidental Pest											
App by Air ( 3 gal)	appl	2.00						0.03	2.03		2.03
Incidental Pest Trt	acre	6.00						0.09	6.09		6.09
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.30	0.09	0.55			0.01	0.95	0.73	1.68
Land Forming (\$300)	each									29.07	29.07
Well & Pump, Furrow	each			2.40				0.04	2.44	7.45	9.89
Main Line Pipe	each									4.09	4.09
Engine, RPF, 75	each									6.17	6.17
June Irrigation	ac-in		6.81	0.92				0.14	7.87		7.87
July Irrigation	ac-in		6.81	0.92				0.11	7.84		7.84
August Irrigation	ac-in		6.81	0.92				0.08	7.81		7.81
TOTALS		37.66	22.78	5.86	4.68	0.00	1.14	72.12	50.99	123.11	

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

Appendix Table 9. Estimated costs for field operations, per acre  
 Additional practices for irrigated cotton  
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
UAN (32% N)	cwt	3.75						0.09	3.84	3.84
Set Up Engine										
IRRIGATE LABOR	hour				0.27			0.01	0.28	0.28
Maintenance										
IRRIGATE LABOR	hour				1.07			0.02	1.09	1.09
UAN (32% N)	cwt	3.75						0.07	3.82	3.82
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.28			0.01	0.81	0.95
Caparol 4L	pt	3.36						0.06	3.42	3.42
MSMA 6.6	pt	7.40						0.13	7.53	7.53
App by Air ( 3 gal)	appl	4.00						0.07	4.07	4.07
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Apply Water										
IRRIGATE LABOR	hour				0.20				0.20	0.20
Incidental Pest										
App by Air ( 3 gal)	appl	2.00						0.03	2.03	2.03
Incidental Pest Trt	acre	6.00						0.09	6.09	6.09
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Pivot, 1/4 CP	each			11.56				0.21	11.77	48.35
Well & Pump, 1/4 CP	each			2.84				0.05	2.89	8.84
Engine, 1/4 CP, 65	each									6.14
June Irr. 3app@.75"	ac-in		8.03	0.83				0.16	9.02	9.02
July Irr. 4app@.75"	ac-in		10.71	1.10				0.17	11.98	11.98
Aug Irr. 3app@.75"	ac-in		8.03	0.83				0.10	8.96	8.96
TOTALS		31.06	27.15	17.30	2.12	0.00		1.28	78.91	64.28
										143.19

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

Appendix Table 10. Estimated costs for field operations, per acre  
 Early soybeans irrigated with roll-out pipe  
 160-acre system, 9 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		0.89	0.23	0.43			0.07	1.62	1.19	2.81
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.15	0.05	0.11				0.31	0.18	0.49
Roll-Out Pipe	ft	6.60						0.10	6.70		6.70
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.20	0.05	0.37			0.01	0.63	0.49	1.12
IRRIGATE LABOR	hour				1.81			0.03	1.84		1.84
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.30	0.09	0.55				0.94	0.73	1.67
Land Forming (\$300)	each									29.07	29.07
Well & Pump, Furrow	each			2.40				0.03	2.43	7.45	9.88
Main Line Pipe	each									4.09	4.09
Engine, RPF, ESB	each									6.17	6.17
1st June Irrigation	ac-in		5.84	0.92				0.10	6.86		6.86
2nd June Irrigation	ac-in		5.84	0.92				0.10	6.86		6.86
July Irrigation	ac-in		5.84	0.92				0.07	6.83		6.83
TOTALS		6.60	19.06	5.58	4.19	0.00		0.51	35.94	49.37	85.31

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

Appendix Table 11. Estimated costs for field operations, per acre  
 Irrigation with a contour flood system  
 80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.45			0.01	0.46	0.46
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.34	0.08	0.18			0.01	0.61	1.15
Survey & Mark Levees	acre	2.25						0.04	2.29	2.29
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.45	0.12	0.24			0.01	0.82	1.54
Butt Levees										
Blade-Box	6'-7'		0.32	0.06	0.23			0.01	0.62	0.96
IRRIGATE LABOR	hour				0.68			0.01	0.69	0.69
Apply Water										
IRRIGATE LABOR	hour				0.11				0.11	0.11
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.31	0.07	0.19			0.01	0.58	1.03
Tear Down Levees										
Levee Splitter (1/80)	8 blade		0.23	0.06	0.14				0.43	0.77
Land Forming (\$75)	each								7.27	7.27
Well & Pump, Flood	each			4.80				0.09	4.89	14.91
Engine, CF, 75	each								12.34	12.34
June Irrigation	ac-in		8.76	1.84				0.19	10.79	10.79
July Irrigation	ac-in		8.76	1.84				0.15	10.75	10.75
August Irrigation	ac-in		8.76	1.84				0.11	10.71	10.71
TOTALS		2.25	30.09	11.21	5.12	0.00	0.72	49.39	39.93	89.32

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



Appendix Table 12. Estimated costs for field operations, per acre  
 Irrigation with a 1/2-mile center pivot system  
 530-acre system, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.07				0.07	0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01		0.28	0.28
Apply Water										
IRRIGATE LABOR	hour				0.04				0.04	0.04
Apply Water										
IRRIGATE LABOR	hour				0.05				0.05	0.05
Apply Water										
IRRIGATE LABOR	hour				0.04				0.04	0.04
Pivot, 1/2 CP	each			6.49			0.12	6.61	27.16	33.77
Well & Pump, 1/2 CP	each			0.95			0.02	0.97	2.95	3.92
Engine, 1/2 CP, 225	each								4.18	4.18
June Irr. 3app@.75"	ac-in		10.04	0.56			0.19	10.79		10.79
July Irr. 4app@.75"	ac-in		13.39	0.75			0.20	14.34		14.34
Aug Irr. 3app@.75"	ac-in		10.04	0.56			0.11	10.71		10.71
TOTALS		0.00	33.47	9.31	0.47	0.00	0.65	43.90	34.29	78.19

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

Appendix Table 13. Estimated costs for field operations, per acre  
 Irrigation with a 1/4-mile center pivot system  
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27			0.01	0.28	0.28
Maintenance										
IRRIGATE LABOR	hour				1.07			0.02	1.09	1.09
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Apply Water										
IRRIGATE LABOR	hour				0.20				0.20	0.20
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Pivot, 1/4 CP	each			11.56				0.21	11.77	48.35
Well & Pump, 1/4 CP	each			2.84				0.05	2.89	8.84
Engine, 1/4 CP, 65	each									6.14
June Irr. 3app@.75"	ac-in		8.03	0.83				0.16	9.02	9.02
July Irr. 4app@.75"	ac-in		10.71	1.10				0.17	11.98	11.98
Aug Irr. 3app@.75"	ac-in		8.03	0.83				0.10	8.96	8.96
TOTALS		0.00	26.77	17.16	1.84	0.00	0.72	46.49	63.33	109.82

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

Appendix Table 14. Estimated costs for field operations, per acre  
 Corn irrigated with roll-out pipe  
 160-acre system, 13 ac-in., Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		0.89	0.23	0.43			0.07	1.62	1.19	2.81
Set Up Engine											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Ditcher (1m/160a)			0.15	0.05	0.11				0.31	0.18	0.49
Roll-Out Pipe	ft	6.60						0.10	6.70		6.70
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.20	0.05	0.37			0.01	0.63	0.49	1.12
IRRIGATE LABOR	hour				1.81			0.03	1.84		1.84
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.30	0.09	0.55			0.01	0.95	0.73	1.68
Land Forming (\$75)	each									7.27	7.27
Well & Pump, Furrow	each			2.40				0.03	2.43	7.45	9.88
Main Line Pipe	each									4.09	4.09
Engine, RPF, Corn	each									6.17	6.17
1st June Irrigation	ac-in		6.33	0.69				0.10	7.12		7.12
2nd June Irrigation	ac-in		6.33	0.69				0.10	7.12		7.12
3rd June Irrigation	ac-in		6.33	0.69				0.10	7.12		7.12
July Irrigation	ac-in		6.33	0.69				0.08	7.10		7.10
TOTALS		6.60	26.86	5.58	4.42	0.00		0.63	44.09	27.57	71.66

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

Appendix Table 15. Estimated costs for field operations, per acre  
 Contour levee rice flood irrigation system  
 80-acre system, 33 ac-in., Delta Area, Mississippi, 2011

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

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

Appendix Table 16. Estimated costs for field operations, per acre  
 Straight levee rice flood irrigation system  
 80-acre system, 27 ac-in., Delta Area, Mississippi, 2011

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

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

Appendix Table 17. Estimated costs for field operations, per acre  
 Straight levee rice multi inlet flood irrigation system  
 80-acre system, 23 ac-in., Delta Area, Mississippi, 2011

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

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

Appendix Table 18. Estimated costs for field operations, per acre  
 Straight levee rice - zero grade flood irrigation  
 80-acre system, 19 ac-in., Delta Area, Mississippi, 2011

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

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





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