

**COTTON  
2009  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2008-02**

**December 2008**



## 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 2009 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

## Acknowledgments

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

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

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

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# 2009 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 2008. (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 2008 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 and 9. 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  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	4.0000	96.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	1.1134	12.15	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4491	3.68	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR					
	hour	10.89	1.1322	12.34	_____
DIESEL FUEL					
Tractors	gal	2.46	10.8888	26.79	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	9.12	1.0000	9.12	_____
Tractors	acre	4.13	1.0000	4.13	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	14.96	1.0000	14.96	_____
TOTAL DIRECT EXPENSES				620.95	_____
FIXED EXPENSES					
Implements	acre	17.33	1.0000	17.33	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				104.73	_____
TOTAL SPECIFIED EXPENSES				725.68	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	162.00	1.0000	162.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	46.82	1.0000	46.82	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.7289	5.97	_____
OPERATOR LABOR	hour	10.91	1.4152	15.44	_____
UNALLOCATED LABOR	hour	10.89	1.1322	12.34	_____
DIESEL FUEL	gal	2.46	15.6550	38.52	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	14.96	1.0000	14.96	_____
				-----	
TOTAL DIRECT EXPENSES				620.95	_____
RETURNS ABOVE DIRECT EXPENSES				7.70	_____
TOTAL FIXED EXPENSES				104.73	_____
				-----	
TOTAL SPECIFIED EXPENSES				725.68	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-97.03	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

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 Rdg	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
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			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	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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	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							1.41	1.11	2.14	1.13

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
BtRR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	8R-38		1.94	1.32	1.58			0.29	5.13	4.12	9.25
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)Rdg	8R-38		0.89	0.29	0.72			0.08	1.98	1.40	3.38
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.17	4.94	2.97	7.91
UAN (32% N)	cwt	48.00						1.68	49.68		49.68
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
Plant & Pre-Rigid	8R-38		1.93	1.17	2.24			0.16	5.50	3.96	9.46
Cotton Seed BGRR	thous	25.20						0.76	25.96		25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47		50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.08	3.84	2.16	6.00
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		507.26	38.52	26.46	33.75	0.00	14.96	620.95	104.73	725.68	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 1.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	66.00	48.00	0.00	48.00	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	13.44	0.00	20.74	0.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.58	0.00	0.00	0.00	0.72	1.85	3.82	2.26	1.58	0.00	0.22	21.72
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	1.94	0.00	0.00	0.00	0.89	1.87	3.82	2.32	1.61	0.00	0.22	25.85
REPAIR & MAINTENANCE	1.32	0.00	0.00	0.00	0.29	1.05	1.66	1.17	0.57	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.43	0.00	0.00	0.00	3.78	1.85	4.11	1.59	1.08	0.17	0.22	0.73
TOTAL DIRECT EXPENSES	25.27	0.00	0.00	0.00	98.12	54.62	141.10	65.52	54.70	11.15	20.83	149.64
NET INCOME	-25.27	0.00	0.00	0.00	-98.12	-54.62	-141.10	-65.52	-54.70	-11.15	-20.83	479.01
NET INCOME TO DATE	-25.27	-25.27	-25.27	-25.27	-123.39	-178.01	-319.11	-384.63	-439.33	-450.48	-471.31	7.70

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

PRODUCT			-----PERCENT-----										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			-----PRODUCT PRICE-----										
			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	-----dollars-----										
50	450.00	lb	-301	-287	-273	-259	-245	-231	-217	-203	-189	-175	-161
			-406	-392	-378	-364	-350	-336	-322	-308	-294	-280	-266
60	540.00	lb	-267	-250	-234	-217	-200	-183	-166	-150	-133	-116	-99
			-372	-355	-338	-321	-305	-288	-271	-254	-238	-221	-204
70	630.00	lb	-233	-214	-194	-175	-155	-135	-116	-96	-77	-57	-37
			-338	-318	-299	-279	-260	-240	-220	-201	-181	-162	-142
80	720.00	lb	-199	-177	-155	-132	-110	-87	-65	-43	-20	1	23
			-304	-282	-259	-237	-215	-192	-170	-147	-125	-103	-80
90	810.00	lb	-166	-140	-115	-90	-65	-40	-14	10	35	60	85
			-270	-245	-220	-195	-170	-144	-119	-94	-69	-44	-18
100	900.00	lb	-132	-104	-76	-48	-20	7	35	63	91	119	147
			-236	-208	-181	-153	-125	-97	-69	-41	-13	14	42
110	990.00	lb	-98	-67	-36	-6	24	55	86	117	147	178	209
			-203	-172	-141	-110	-79	-49	-18	12	43	73	104
120	1080.00	lb	-64	-30	2	36	69	103	136	170	204	237	271
			-169	-135	-102	-68	-34	-1	32	65	99	133	166
130	1170.00	lb	-30	5	42	78	114	151	187	223	260	296	333
			-135	-99	-62	-26	10	46	82	119	155	192	228
140	1260.00	lb	3	42	81	120	159	199	238	277	316	355	394
			-101	-62	-23	15	55	94	133	172	211	251	290
150	1350.00	lb	36	78	120	162	204	246	288	330	372	414	456
			-67	-25	16	58	100	142	184	226	268	310	352

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 2008 input prices.

Table 2.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.2500	16.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	4.0000	96.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	128.0000	32.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	0.5000	1.55	_____
Bidrin 8WM	oz	0.86	2.0000	1.72	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed BGRRF	thous	0.51	52.5000	26.78	_____
TECHNOLOGY FEE					
BG 11/RRF Tech Fee	cap/ac	64.00	1.0000	64.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	1.1134	12.15	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4491	3.68	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR					
	hour	10.89	1.1322	12.34	_____
DIESEL FUEL					
Tractors	gal	2.46	10.8888	26.79	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	9.12	1.0000	9.12	_____
Tractors	acre	4.13	1.0000	4.13	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	15.55	1.0000	15.55	_____
TOTAL DIRECT EXPENSES				641.08	_____
FIXED EXPENSES					
Implements	acre	17.33	1.0000	17.33	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				104.73	_____
TOTAL SPECIFIED EXPENSES				745.81	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.25	1.0000	28.25	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	162.00	1.0000	162.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	54.82	1.0000	54.82	_____
INSECTICIDES	acre	36.28	1.0000	36.28	_____
SEED/PLANTS	acre	26.78	1.0000	26.78	_____
TECHNOLOGY FEE	acre	64.00	1.0000	64.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.7289	5.97	_____
OPERATOR LABOR	hour	10.91	1.4152	15.44	_____
UNALLOCATED LABOR	hour	10.89	1.1322	12.34	_____
DIESEL FUEL	gal	2.46	15.6550	38.52	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	15.55	1.0000	15.55	_____
				-----	
TOTAL DIRECT EXPENSES				641.08	_____
RETURNS ABOVE DIRECT EXPENSES				-12.43	_____
				-----	
TOTAL FIXED EXPENSES				104.73	_____
				-----	
TOTAL SPECIFIED EXPENSES				745.81	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-117.16	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

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 Rdg	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 BGRFF	thous					52.5000				
BG 1l/RRF Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	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							1.41	1.11	2.14	1.13

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 2.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
BGII/Flex variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	8R-38		1.94	1.32	1.58			0.29	5.13	4.12	9.25
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)Rdg	8R-38		0.89	0.29	0.72			0.08	1.98	1.40	3.38
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.17	4.94	2.97	7.91
UAN (32% N)	cwt	48.00						1.68	49.68		49.68
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
Plant & Pre-Rigid	8R-38		1.93	1.17	2.24			0.16	5.50	3.96	9.46
Cotton Seed BGRRF	thous	26.78						0.80	27.58		27.58
BG 1l/RRF Tech Fee	cap/ac	64.00						1.92	65.92		65.92
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20		8.20
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.08	3.84	2.16	6.00
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	1.25						0.03	1.28		1.28
Karate Z	oz	1.55						0.03	1.58		1.58
Bidrin 8WM	oz	1.72						0.03	1.75		1.75
Incidental Pest											
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Incidental Pest Trt	acre	12.00						0.24	12.24		12.24
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		526.80	38.52	26.46	33.75	0.00	15.55	641.08	104.73	745.81	

Note: Cost of production estimates are based on 2008 input prices.

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

Table 2.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	11.25	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	66.00	48.00	0.00	48.00	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	13.44	0.00	20.74	8.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	19.65	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	26.78	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.58	0.00	0.00	0.00	0.72	1.85	3.82	2.26	1.58	0.00	0.22	21.72
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	1.94	0.00	0.00	0.00	0.89	1.87	3.82	2.32	1.61	0.00	0.22	25.85
REPAIR & MAINTENANCE	1.32	0.00	0.00	0.00	0.29	1.05	1.66	1.17	0.57	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.43	0.00	0.00	0.00	3.78	1.85	4.60	1.79	0.98	0.17	0.22	0.73
TOTAL DIRECT EXPENSES	25.27	0.00	0.00	0.00	98.12	54.62	158.17	73.72	49.56	11.15	20.83	149.64
NET INCOME	-25.27	0.00	0.00	0.00	-98.12	-54.62	-158.17	-73.72	-49.56	-11.15	-20.83	479.01
NET INCOME TO DATE	-25.27	-25.27	-25.27	-25.27	-123.39	-178.01	-336.18	-409.90	-459.46	-470.61	-491.44	-12.43

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-321	-307	-293	-279	-265	-251	-237	-223	-209	-195	-181
			-426	-412	-398	-384	-370	-356	-342	-328	-314	-300	-286
60	540.00	lb	-287	-270	-254	-237	-220	-203	-186	-170	-153	-136	-119
			-392	-375	-358	-342	-325	-308	-291	-274	-258	-241	-224
70	630.00	lb	-253	-234	-214	-195	-175	-155	-136	-116	-97	-77	-57
			-358	-339	-319	-299	-280	-260	-241	-221	-201	-182	-162
80	720.00	lb	-220	-197	-175	-152	-130	-108	-85	-63	-40	-18	3
			-324	-302	-280	-257	-235	-212	-190	-168	-145	-123	-100
90	810.00	lb	-186	-161	-135	-110	-85	-60	-35	-9	15	40	65
			-290	-265	-240	-215	-190	-165	-139	-114	-89	-64	-39
100	900.00	lb	-152	-124	-96	-68	-40	-12	15	43	71	99	127
			-257	-229	-201	-173	-145	-117	-89	-61	-33	-5	22
110	990.00	lb	-118	-87	-56	-26	4	35	66	96	127	158	189
			-223	-192	-161	-130	-100	-69	-38	-7	23	53	84
120	1080.00	lb	-84	-51	-17	16	49	83	116	150	184	217	251
			-189	-155	-122	-88	-55	-21	12	45	79	112	146
130	1170.00	lb	-50	-14	21	58	94	131	167	203	240	276	313
			-155	-119	-82	-46	-10	26	62	99	135	171	208
140	1260.00	lb	-17	22	61	100	139	178	218	257	296	335	374
			-121	-82	-43	-4	35	74	113	152	191	230	270
150	1350.00	lb	16	58	100	142	184	226	268	310	352	394	436
			-87	-45	-3	38	80	122	164	206	247	289	331

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 2008 input prices.

Table 3.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Amm Nitrate (34% N)	cwt	28.00	2.0000	56.00	_____
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	2.0000	48.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.9212	10.05	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4136	3.38	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR					
	hour	10.90	0.9785	10.67	_____
DIESEL FUEL					
Tractors	gal	2.46	9.0100	22.17	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	3.41	1.0000	3.41	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	15.07	1.0000	15.07	_____
TOTAL DIRECT EXPENSES				617.87	_____
FIXED EXPENSES					
Implements	acre	14.23	1.0000	14.23	_____
Tractors	acre	23.87	1.0000	23.87	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				96.66	_____
TOTAL SPECIFIED EXPENSES				714.53	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 3.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	170.00	1.0000	170.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	46.82	1.0000	46.82	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.6934	5.67	_____
OPERATOR LABOR	hour	10.91	1.2231	13.34	_____
UNALLOCATED LABOR	hour	10.90	0.9785	10.67	_____
DIESEL FUEL	gal	2.46	13.7761	33.90	_____
REPAIR & MAINTENANCE	acre	23.96	1.0000	23.96	_____
INTEREST ON OP. CAP.	acre	15.07	1.0000	15.07	_____
				-----	
TOTAL DIRECT EXPENSES				617.87	_____
RETURNS ABOVE DIRECT EXPENSES				10.78	_____
				-----	
TOTAL FIXED EXPENSES				96.66	_____
				-----	
TOTAL SPECIFIED EXPENSES				714.53	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-85.88	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 3.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

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 Rdg	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
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			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	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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	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>1.22</b>	<b>0.92</b>	<b>1.91</b>	<b>0.97</b>

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 3.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Amm Nitrate (34% N)	cwt	56.00						2.24	58.24		58.24
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
NT Plant&Pre-Rigid	8R-38		2.01	1.33	2.32			0.17	5.83	4.38	10.21
Cotton Seed BGRR	thous	25.20						0.76	25.96		25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47		50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.09	3.85	2.16	6.01
Diuron 80%	lb	4.64						0.12	4.76		4.76
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20		8.20
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		515.26	33.90	23.96	29.68	0.00	15.07	617.87	96.66	714.53	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 3.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	122.00	0.00	0.00	48.00	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	13.44	0.00	20.74	12.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	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	3.90	3.84	0.00	0.00	0.22	21.72
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	3.90	3.93	0.00	0.00	0.22	25.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	1.82	1.74	0.00	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.14	0.00	0.00	0.00	5.94	0.00	4.12	2.00	0.75	0.17	0.22	0.73
TOTAL DIRECT EXPENSES	20.14	0.00	0.00	0.00	154.38	0.00	141.43	82.33	37.97	11.15	20.83	149.64
NET INCOME	-20.14	0.00	0.00	0.00	-154.38	0.00	-141.43	-82.33	-37.97	-11.15	-20.83	479.01
NET INCOME TO DATE	-20.14	-20.14	-20.14	-20.14	-174.52	-174.52	-315.95	-398.28	-436.25	-447.40	-468.23	10.78

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-298	-284	-270	-256	-242	-228	-214	-200	-186	-172	-158
			-395	-381	-367	-353	-339	-325	-311	-297	-283	-269	-255
60	540.00	lb	-264	-247	-230	-214	-197	-180	-163	-146	-130	-113	-96
			-361	-344	-327	-310	-294	-277	-260	-243	-226	-210	-193
70	630.00	lb	-230	-211	-191	-171	-152	-132	-113	-93	-73	-54	-34
			-327	-307	-288	-268	-248	-229	-209	-190	-170	-151	-131
80	720.00	lb	-196	-174	-152	-129	-107	-84	-62	-40	-17	4	27
			-293	-271	-248	-226	-203	-181	-159	-136	-114	-91	-69
90	810.00	lb	-163	-137	-112	-87	-62	-37	-11	13	38	63	88
			-259	-234	-209	-184	-158	-133	-108	-83	-58	-32	-7
100	900.00	lb	-129	-101	-73	-45	-17	10	38	66	94	122	150
			-225	-197	-169	-141	-113	-85	-57	-29	-1	26	54
110	990.00	lb	-95	-64	-33	-2	27	58	89	120	150	181	212
			-191	-161	-130	-99	-68	-38	-7	23	54	85	115
120	1080.00	lb	-61	-27	5	39	72	106	140	173	207	240	274
			-158	-124	-90	-57	-23	9	43	76	110	144	177
130	1170.00	lb	-27	8	45	81	117	154	190	227	263	299	336
			-124	-87	-51	-15	21	57	94	130	166	203	239
140	1260.00	lb	6	45	84	123	162	202	241	280	319	358	398
			-90	-51	-12	27	66	105	144	183	223	262	301
150	1350.00	lb	40	82	124	166	207	249	291	333	375	417	459
			-56	-14	27	69	111	153	195	237	279	321	363

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 2008 input prices.

Table 4.A Estimated costs per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	811.0000	72.99	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.3500	59.40	_____
UAN (32% N)	cwt	24.00	3.6000	86.40	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	74.8800	18.72	_____
Dual Magnum	pt	12.74	0.6700	8.54	_____
Diuron 80%	lb	4.64	0.6700	3.11	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	1.3400	5.96	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	35.0000	16.80	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	thous	1.05	35.0000	36.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	10.7200	1.72	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.8722	9.53	_____
Self-Propelled	hour	10.91	0.1987	2.17	_____
HAND LABOR					
Implements	hour	8.19	0.3442	2.81	_____
Self-Propelled	hour	8.19	0.1855	1.52	_____
UNALLOCATED LABOR					
	hour	10.91	0.8567	9.35	_____
DIESEL FUEL					
Tractors	gal	2.46	8.5299	20.98	_____
Self-Propelled	gal	2.46	3.3764	8.31	_____
REPAIR & MAINTENANCE					
Implements	acre	8.46	1.0000	8.46	_____
Tractors	acre	3.22	1.0000	3.22	_____
Self-Propelled	acre	9.04	1.0000	9.04	_____
INTEREST ON OP. CAP.	acre	12.90	1.0000	12.90	_____
TOTAL DIRECT EXPENSES				529.30	_____
FIXED EXPENSES					
Implements	acre	15.44	1.0000	15.44	_____
Tractors	acre	22.59	1.0000	22.59	_____
Self-Propelled	acre	40.00	1.0000	40.00	_____
TOTAL FIXED EXPENSES				78.03	_____
TOTAL SPECIFIED EXPENSES				607.33	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	811.0000	504.44	_____
Cotton Seed	lb	0.05	1217.0000	62.07	_____
				-----	
TOTAL INCOME				566.51	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	72.99	1.0000	72.99	_____
FERTILIZERS	acre	145.80	1.0000	145.80	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	35.81	1.0000	35.81	_____
INSECTICIDES	acre	37.13	1.0000	37.13	_____
SEED/PLANTS	acre	16.80	1.0000	16.80	_____
TECHNOLOGY FEE	acre	36.75	1.0000	36.75	_____
GROWTH REGULATORS	acre	1.72	1.0000	1.72	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.5297	4.33	_____
OPERATOR LABOR	hour	10.91	1.0709	11.70	_____
UNALLOCATED LABOR	hour	10.91	0.8567	9.35	_____
DIESEL FUEL	gal	2.46	11.9064	29.29	_____
REPAIR & MAINTENANCE	acre	20.72	1.0000	20.72	_____
INTEREST ON OP. CAP.	acre	12.90	1.0000	12.90	_____
				-----	
TOTAL DIRECT EXPENSES				529.30	_____
RETURNS ABOVE DIRECT EXPENSES				37.21	_____
TOTAL FIXED EXPENSES					
				78.03	_____
				-----	
TOTAL SPECIFIED EXPENSES				607.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-40.82	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

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 Fld	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 BGRR	thous					35.0000				
BG/RR Cot Tech Fee	thous					35.0000				
Cotton Seed Trt.	acre					0.6700				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	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
Sprayer( 600-750Gal)	60'		0.017					0.01	0.02	0.01
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					5.3600				
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					5.3600				
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	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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R2x1(350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy-1st pick	4R2x1(350)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder-1st	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>1.07</b>	<b>0.87</b>	<b>1.60</b>	<b>0.85</b>

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 4.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	8R-38 2x1		1.29	1.13	1.06			0.21	3.69	3.24	6.93
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)	8R-38 2x1		0.59	0.24	0.49			0.05	1.37	1.09	2.46
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	59.40						2.38	61.78		61.78
Fert Appl (Liquid)	8R-38 2x1		1.24	0.79	1.22			0.11	3.36	2.10	5.46
UAN (32% N)	cwt	43.20						1.51	44.71		44.71
Row Cond Fld	38'		0.98	0.33	0.81			0.06	2.18	1.91	4.09
Plant & Pre-Folding	8R-38 2x1		1.29	1.32	1.49			0.12	4.22	3.81	8.03
Cotton Seed BGRR	thous	16.80						0.50	17.30		17.30
BG/RR Cot Tech Fee	thous	36.75						1.10	37.85		37.85
Cotton Seed Trt.	acre	13.40						0.40	13.80		13.80
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Spray (Direct/Layby)	8R-38 2x1		1.07	0.53	1.06			0.08	2.74	1.64	4.38
Dual Magnum	pt	8.54						0.26	8.80		8.80
Glyphosate 3lbs a.e.	oz	5.36						0.16	5.52		5.52
Acephate 90%	lb	1.75						0.05	1.80		1.80
Spray (Direct/Layby)	8R-38 2x1		1.07	0.53	1.06			0.07	2.73	1.64	4.37
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	5.96						0.15	6.11		6.11
Mepiquat Chloride	oz	0.86						0.02	0.88		0.88
Fert Appl (Liquid)	8R-38 2x1		1.24	0.79	1.22			0.08	3.33	2.10	5.43
UAN (32% N)	cwt	43.20						1.08	44.28		44.28
Spray (Direct/Layby)	8R-38 2x1		1.07	0.53	1.06			0.05	2.71	1.64	4.35
Diuron 80%	lb	3.11						0.06	3.17		3.17
Glyphosate 3lbs a.e.	oz	5.36						0.11	5.47		5.47
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	0.86						0.02	0.88		0.88
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R2x1(350)		7.64	8.86	4.79			0.11	21.40	38.67	60.07
Boll Buggy-1st pick	4R2x1(350)		4.15	1.76	3.38			0.05	9.34	7.05	16.39
Module Builder-1st	4R2x1(350)		4.15	2.17	4.79			0.06	11.17	8.00	19.17
Gin & Haul	lb	72.99						0.36	73.35		73.35
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		441.01	29.29	20.72	25.38	0.00	12.90	529.30	78.03	607.33	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 4.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

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	566.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	59.40	43.20	0.00	43.20	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	13.44	0.00	13.90	0.00	8.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	5.96	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	36.75	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	0.86	0.86	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.06	0.00	0.00	0.00	0.49	1.22	3.36	2.69	1.06	0.00	0.22	15.28
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	1.29	0.00	0.00	0.00	0.59	1.24	3.34	2.76	1.07	0.00	0.22	18.78
REPAIR & MAINTENANCE	1.13	0.00	0.00	0.00	0.24	0.79	2.18	1.44	0.53	0.00	0.06	14.35
INTEREST ON OP. CAP.	1.35	0.00	0.00	0.00	3.49	1.62	3.06	1.42	0.96	0.17	0.22	0.61
TOTAL DIRECT EXPENSES	23.83	0.00	0.00	0.00	90.65	48.07	105.54	58.33	48.89	11.15	20.83	122.01
NET INCOME	-23.83	0.00	0.00	0.00	-90.65	-48.07	-105.54	-58.33	-48.89	-11.15	-20.83	444.50
NET INCOME TO DATE	-23.83	-23.83	-23.83	-23.83	-114.48	-162.55	-268.09	-326.42	-375.31	-386.46	-407.29	37.21

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, BtRR variety, Delta Area, Mississippi, 2009

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	-----dollars-----										
50	405.50	lb	-241	-228	-216	-203	-190	-178	-165	-153	-140	-127	-115
			-319	-306	-294	-281	-268	-256	-243	-231	-218	-205	-193
60	486.60	lb	-210	-195	-180	-165	-150	-135	-120	-104	-89	-74	-59
			-288	-273	-258	-243	-228	-213	-198	-182	-167	-152	-137
70	567.70	lb	-180	-162	-145	-127	-109	-92	-74	-56	-39	-21	-3
			-258	-240	-223	-205	-187	-170	-152	-134	-117	-99	-81
80	648.80	lb	-149	-129	-109	-89	-69	-49	-28	-8	11	31	51
			-227	-207	-187	-167	-147	-127	-106	-86	-66	-46	-26
90	729.90	lb	-119	-96	-73	-51	-28	-5	16	39	62	84	107
			-197	-174	-152	-129	-106	-83	-61	-38	-15	6	29
100	811.00	lb	-88	-63	-38	-13	11	37	62	87	112	138	163
			-166	-141	-116	-91	-66	-40	-15	9	34	60	85
110	892.10	lb	-58	-30	-2	24	52	80	108	135	163	191	219
			-136	-108	-80	-53	-25	2	30	57	85	113	141
120	973.20	lb	-27	2	32	62	93	123	153	183	214	244	274
			-105	-75	-45	-15	15	45	75	105	136	166	196
130	1054.30	lb	2	35	68	100	133	166	199	232	264	297	330
			-75	-42	-9	22	55	88	121	154	186	219	252
140	1135.40	lb	33	68	103	139	174	209	244	280	315	350	386
			-44	-9	25	60	96	131	166	202	237	272	308
150	1216.50	lb	63	101	139	177	214	252	290	328	366	404	441
			-14	23	61	99	136	174	212	250	288	326	363

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 2008 input prices.

Table 5.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	5.5000	27.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	4.0000	96.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Tracer 4SC	oz	6.58	5.1120	33.64	_____
Karate Z	oz	3.09	6.0000	18.54	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed RR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
RR Cotton Tech Fee	cap/ac	29.00	1.0000	29.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	1.1134	12.15	_____
Self-Propelled	hour	10.91	0.3089	3.37	_____
HAND LABOR					
Implements	hour	8.19	0.4491	3.68	_____
Self-Propelled	hour	8.19	0.2833	2.32	_____
UNALLOCATED LABOR					
	hour	10.89	1.1378	12.40	_____
DIESEL FUEL					
Tractors	gal	2.46	10.8888	26.79	_____
Self-Propelled	gal	2.46	4.8387	11.91	_____
REPAIR & MAINTENANCE					
Implements	acre	9.12	1.0000	9.12	_____
Tractors	acre	4.13	1.0000	4.13	_____
Self-Propelled	acre	13.26	1.0000	13.26	_____
INTEREST ON OP. CAP.	acre	15.39	1.0000	15.39	_____
TOTAL DIRECT EXPENSES				657.79	_____
FIXED EXPENSES					
Implements	acre	17.33	1.0000	17.33	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	58.92	1.0000	58.92	_____
TOTAL FIXED EXPENSES				105.09	_____
TOTAL SPECIFIED EXPENSES				762.88	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	39.50	1.0000	39.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	162.00	1.0000	162.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	46.82	1.0000	46.82	_____
INSECTICIDES	acre	86.08	1.0000	86.08	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	29.00	1.0000	29.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.7324	6.00	_____
OPERATOR LABOR	hour	10.91	1.4223	15.52	_____
UNALLOCATED LABOR	hour	10.89	1.1378	12.40	_____
DIESEL FUEL	gal	2.46	15.7276	38.70	_____
REPAIR & MAINTENANCE	acre	26.51	1.0000	26.51	_____
INTEREST ON OP. CAP.	acre	15.39	1.0000	15.39	_____
				-----	
TOTAL DIRECT EXPENSES				657.79	_____
RETURNS ABOVE DIRECT EXPENSES				-29.14	_____
TOTAL FIXED EXPENSES				105.09	_____
				-----	
TOTAL SPECIFIED EXPENSES				762.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-134.23	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

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 Rdg	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 RR	thous					52.5000				
RR Cotton Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
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'		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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	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 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	8R-38		1.94	1.32	1.58			0.29	5.13	4.12	9.25
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)Rdg	8R-38		0.89	0.29	0.72			0.08	1.98	1.40	3.38
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.17	4.94	2.97	7.91
UAN (32% N)	cwt	48.00						1.68	49.68		49.68
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
Plant & Pre-Rigid	8R-38		1.93	1.17	2.24			0.16	5.50	3.96	9.46
Cotton Seed RR	thous	25.20						0.76	25.96		25.96
RR Cotton Tech Fee	cap/ac	29.00						0.87	29.87		29.87
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Sprayer( 600-750Gal)	60'		0.18	0.05	0.17			0.01	0.41	0.36	0.77
Tracer 4SC	oz	5.61						0.14	5.75		5.75
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.08	3.84	2.16	6.00
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	4.38						0.09	4.47		4.47
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Tracer 4SC	oz	14.02						0.28	14.30		14.30
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Tracer 4SC	oz	14.02						0.21	14.23		14.23
Karate Z	oz	6.18						0.09	6.27		6.27
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		543.27	38.70	26.51	33.92	0.00	15.39	657.79	105.09	762.88	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 5.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	17.50	10.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	66.00	48.00	0.00	48.00	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	13.44	0.00	20.74	0.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	14.51	43.64	26.18	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	29.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.58	0.00	0.00	0.00	0.72	1.85	3.82	2.43	1.58	0.00	0.22	21.72
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	1.94	0.00	0.00	0.00	0.89	1.87	3.82	2.50	1.61	0.00	0.22	25.85
REPAIR & MAINTENANCE	1.32	0.00	0.00	0.00	0.29	1.05	1.66	1.22	0.57	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.43	0.00	0.00	0.00	3.78	1.85	3.51	1.74	1.58	0.55	0.22	0.73
TOTAL DIRECT EXPENSES	25.27	0.00	0.00	0.00	98.12	54.62	120.50	71.68	80.40	36.73	20.83	149.64
NET INCOME	-25.27	0.00	0.00	0.00	-98.12	-54.62	-120.50	-71.68	-80.40	-36.73	-20.83	479.01
NET INCOME TO DATE	-25.27	-25.27	-25.27	-25.27	-123.39	-178.01	-298.51	-370.19	-450.59	-487.32	-508.15	-29.14

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 5.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 RR variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-338	-324	-310	-296	-282	-268	-254	-240	-226	-212	-198
			-443	-429	-415	-401	-387	-373	-359	-345	-331	-317	-303
60	540.00	lb	-304	-287	-270	-254	-237	-220	-203	-186	-170	-153	-136
			-409	-392	-375	-359	-342	-325	-308	-292	-275	-258	-241
70	630.00	lb	-270	-251	-231	-211	-192	-172	-153	-133	-113	-94	-74
			-375	-356	-336	-316	-297	-277	-258	-238	-218	-199	-179
80	720.00	lb	-236	-214	-191	-169	-147	-124	-102	-80	-57	-35	-12
			-341	-319	-297	-274	-252	-229	-207	-185	-162	-140	-117
90	810.00	lb	-202	-177	-152	-127	-102	-76	-51	-26	-1	23	48
			-308	-282	-257	-232	-207	-182	-156	-131	-106	-81	-56
100	900.00	lb	-169	-141	-113	-85	-57	-29	-1	26	54	82	110
			-274	-246	-218	-190	-162	-134	-106	-78	-50	-22	5
110	990.00	lb	-135	-104	-73	-42	-12	18	49	80	111	141	172
			-240	-209	-178	-147	-117	-86	-55	-24	5	36	67
120	1080.00	lb	-101	-67	-34	-0	32	66	100	133	167	200	234
			-206	-172	-139	-105	-72	-38	-4	28	62	95	129
130	1170.00	lb	-67	-31	5	41	77	114	150	187	223	259	296
			-172	-136	-99	-63	-27	9	45	82	118	154	191
140	1260.00	lb	-33	5	44	83	123	162	201	240	279	318	358
			-138	-99	-60	-21	17	57	96	135	174	213	253
150	1350.00	lb	0	42	84	126	168	210	252	294	336	378	419
			-104	-62	-20	21	62	104	146	188	230	272	314

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 2008 input prices.

Table 6.A Estimated costs per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	4.0000	96.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradiation Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.7477	8.16	_____
Self-Propelled	hour	10.91	0.2016	2.20	_____
HAND LABOR					
Implements	hour	8.19	0.2997	2.45	_____
Self-Propelled	hour	8.19	0.1869	1.53	_____
UNALLOCATED LABOR					
	hour	10.90	0.7595	8.28	_____
DIESEL FUEL					
Tractors	gal	2.46	8.6602	21.29	_____
Self-Propelled	gal	2.46	3.4066	8.39	_____
REPAIR & MAINTENANCE					
Implements	acre	8.03	1.0000	8.03	_____
Tractors	acre	3.43	1.0000	3.43	_____
Self-Propelled	acre	11.07	1.0000	11.07	_____
INTEREST ON OP. CAP.	acre	14.64	1.0000	14.64	_____
TOTAL DIRECT EXPENSES				596.73	_____
FIXED EXPENSES					
Implements	acre	14.67	1.0000	14.67	_____
Tractors	acre	24.01	1.0000	24.01	_____
Self-Propelled	acre	49.14	1.0000	49.14	_____
TOTAL FIXED EXPENSES				87.82	_____
TOTAL SPECIFIED EXPENSES				684.55	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	162.00	1.0000	162.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	46.82	1.0000	46.82	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.4867	3.98	_____
OPERATOR LABOR	hour	10.91	0.9494	10.36	_____
UNALLOCATED LABOR	hour	10.90	0.7595	8.28	_____
DIESEL FUEL	gal	2.46	12.0669	29.68	_____
REPAIR & MAINTENANCE	acre	22.53	1.0000	22.53	_____
INTEREST ON OP. CAP.	acre	14.64	1.0000	14.64	_____
				-----	
TOTAL DIRECT EXPENSES				596.73	_____
RETURNS ABOVE DIRECT EXPENSES				31.92	_____
				-----	
TOTAL FIXED EXPENSES				87.82	_____
				-----	
TOTAL SPECIFIED EXPENSES				684.55	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-55.90	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

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% K2O)	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 Fld	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-825Gal)	90'		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'		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
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			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	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'		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	6R-38(330)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy-1st pick	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder-1st	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 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	12R-38		1.53	1.18	1.06			0.23	4.00	3.58	7.58
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)	12R-38		0.70	0.26	0.49			0.06	1.51	1.24	2.75
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Fert Appl (Liquid)	12R-38		1.47	0.84	1.22			0.12	3.65	2.42	6.07
UAN (32% N)	cwt	48.00						1.68	49.68		49.68
Row Cond Fld	38'		1.16	0.37	0.81			0.07	2.41	2.16	4.57
Plant & Pre-Folding	12R-38		1.52	1.36	1.49			0.13	4.50	4.15	8.65
Cotton Seed BGRR	thous	25.20						0.76	25.96		25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47		50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	12R-38		1.47	0.84	1.22			0.09	3.62	2.42	6.04
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	12R-38		1.27	0.57	1.06			0.06	2.96	1.92	4.88
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-825Gal)	90'		0.15	0.06	0.13				0.34	0.43	0.77
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	6R-38(330)		7.64	10.77	4.79			0.12	23.32	46.99	70.31
Boll Buggy-1st pick	6R-38(330)		4.91	1.91	3.38			0.05	10.25	8.11	18.36
Module Builder-1st	6R-38(330)		4.91	2.32	4.79			0.06	12.08	9.06	21.14
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder-Flail	20'		2.35	1.81	1.62			0.03	5.81	3.62	9.43
TOTALS		507.26	29.68	22.53	22.62	0.00	14.64	596.73	87.82	684.55	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 6.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	66.00	48.00	0.00	48.00	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	13.44	0.00	20.74	0.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.06	0.00	0.00	0.00	0.49	1.22	2.58	1.50	1.06	0.00	0.13	14.58
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	1.53	0.00	0.00	0.00	0.70	1.47	2.98	1.77	1.27	0.00	0.15	19.81
REPAIR & MAINTENANCE	1.18	0.00	0.00	0.00	0.26	0.84	1.85	0.96	0.57	0.00	0.06	16.81
INTEREST ON OP. CAP.	1.37	0.00	0.00	0.00	3.76	1.80	4.05	1.56	1.06	0.17	0.21	0.66
TOTAL DIRECT EXPENSES	24.14	0.00	0.00	0.00	97.65	53.33	139.15	63.97	53.82	11.15	20.66	132.86
NET INCOME	-24.14	0.00	0.00	0.00	-97.65	-53.33	-139.15	-63.97	-53.82	-11.15	-20.66	495.79
NET INCOME TO DATE	-24.14	-24.14	-24.14	-24.14	-121.79	-175.12	-314.27	-378.24	-432.06	-443.21	-463.87	31.92

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BtRR variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-277	-263	-249	-235	-221	-207	-193	-179	-165	-151	-137
			-365	-351	-337	-323	-309	-295	-281	-267	-253	-239	-225
60	540.00	lb	-243	-226	-209	-193	-176	-159	-142	-125	-109	-92	-75
			-331	-314	-297	-280	-264	-247	-230	-213	-196	-180	-163
70	630.00	lb	-209	-189	-170	-150	-131	-111	-92	-72	-52	-33	-13
			-297	-277	-258	-238	-219	-199	-179	-160	-140	-121	-101
80	720.00	lb	-175	-153	-130	-108	-86	-63	-41	-18	3	25	48
			-263	-241	-218	-196	-173	-151	-129	-106	-84	-62	-39
90	810.00	lb	-141	-116	-91	-66	-41	-15	9	34	59	84	110
			-229	-204	-179	-154	-128	-103	-78	-53	-28	-2	22
100	900.00	lb	-108	-80	-52	-24	3	31	59	87	115	143	171
			-195	-167	-139	-111	-83	-55	-27	0	28	56	84
110	990.00	lb	-74	-43	-12	18	48	79	110	141	172	202	233
			-162	-131	-100	-69	-38	-8	22	53	84	115	145
120	1080.00	lb	-40	-6	26	60	94	127	161	194	228	261	295
			-128	-94	-60	-27	6	39	73	106	140	174	207
130	1170.00	lb	-6	29	66	102	139	175	211	248	284	320	357
			-94	-57	-21	14	51	87	124	160	196	233	269
140	1260.00	lb	27	66	105	144	184	223	262	301	340	380	419
			-60	-21	17	57	96	135	174	213	253	292	331
150	1350.00	lb	61	103	145	187	229	271	313	355	397	439	481
			-26	15	57	99	141	183	225	267	309	351	393

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 2008 input prices..

Table 7.A Estimated costs per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.2500	16.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
UAN (32% N)	cwt	24.00	4.0000	96.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	128.0000	32.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	0.5000	1.55	_____
Bidrin 8WM	oz	0.86	2.0000	1.72	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed BGRRF	thous	0.51	52.5000	26.78	_____
TECHNOLOGY FEE					
BG 11/RRF Tech Fee	cap/ac	64.00	1.0000	64.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.7477	8.16	_____
Self-Propelled	hour	10.91	0.2016	2.20	_____
HAND LABOR					
Implements	hour	8.19	0.2997	2.45	_____
Self-Propelled	hour	8.19	0.1869	1.53	_____
UNALLOCATED LABOR					
	hour	10.90	0.7595	8.28	_____
DIESEL FUEL					
Tractors	gal	2.46	8.6602	21.29	_____
Self-Propelled	gal	2.46	3.4066	8.39	_____
REPAIR & MAINTENANCE					
Implements	acre	8.03	1.0000	8.03	_____
Tractors	acre	3.43	1.0000	3.43	_____
Self-Propelled	acre	11.07	1.0000	11.07	_____
INTEREST ON OP. CAP.	acre	15.23	1.0000	15.23	_____
TOTAL DIRECT EXPENSES				616.86	_____
FIXED EXPENSES					
Implements	acre	14.67	1.0000	14.67	_____
Tractors	acre	24.01	1.0000	24.01	_____
Self-Propelled	acre	49.14	1.0000	49.14	_____
TOTAL FIXED EXPENSES				87.82	_____
TOTAL SPECIFIED EXPENSES				704.68	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 7.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.25	1.0000	28.25	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	162.00	1.0000	162.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	54.82	1.0000	54.82	_____
INSECTICIDES	acre	36.28	1.0000	36.28	_____
SEED/PLANTS	acre	26.78	1.0000	26.78	_____
TECHNOLOGY FEE	acre	64.00	1.0000	64.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.4867	3.98	_____
OPERATOR LABOR	hour	10.91	0.9494	10.36	_____
UNALLOCATED LABOR	hour	10.90	0.7595	8.28	_____
DIESEL FUEL	gal	2.46	12.0669	29.68	_____
REPAIR & MAINTENANCE	acre	22.53	1.0000	22.53	_____
INTEREST ON OP. CAP.	acre	15.23	1.0000	15.23	_____
				-----	
TOTAL DIRECT EXPENSES				616.86	_____
RETURNS ABOVE DIRECT EXPENSES				11.79	_____
				-----	
TOTAL FIXED EXPENSES				87.82	_____
				-----	
TOTAL SPECIFIED EXPENSES				704.68	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-76.03	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 7.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

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% K2O)	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 Fld	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 BGRRF	thous					52.5000				
BG 11/RRF Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-825Gal)	90'		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'		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'		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	6R-38(330)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy-1st pick	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder-1st	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 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 7.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
BGII/Flex variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Paratill & Bed Fold.	12R-38		1.53	1.18	1.06			0.23	4.00	3.58	7.58
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
Clarity	pt	5.44						0.22	5.66		5.66
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)	12R-38		0.70	0.26	0.49			0.06	1.51	1.24	2.75
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	66.00						2.64	68.64		68.64
Fert Appl (Liquid)	12R-38		1.47	0.84	1.22			0.12	3.65	2.42	6.07
UAN (32% N)	cwt	48.00						1.68	49.68		49.68
Row Cond Fld	38'		1.16	0.37	0.81			0.07	2.41	2.16	4.57
Plant & Pre-Folding	12R-38		1.52	1.36	1.49			0.13	4.50	4.15	8.65
Cotton Seed BGRRF	thous	26.78						0.80	27.58		27.58
BG 11/RRF Tech Fee	cap/ac	64.00						1.92	65.92		65.92
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20		8.20
Fert Appl (Liquid)	12R-38		1.47	0.84	1.22			0.09	3.62	2.42	6.04
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	12R-38		1.27	0.57	1.06			0.06	2.96	1.92	4.88
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	1.25						0.03	1.28		1.28
Karate Z	oz	1.55						0.03	1.58		1.58
Bidrin 8WM	oz	1.72						0.03	1.75		1.75
Incidental Pest											
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Incidental Pest Trt	acre	12.00						0.24	12.24		12.24
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-825Gal)	90'		0.15	0.06	0.13				0.34	0.43	0.77
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	6R-38(330)		7.64	10.77	4.79			0.12	23.32	46.99	70.31
Boll Buggy-1st pick	6R-38(330)		4.91	1.91	3.38			0.05	10.25	8.11	18.36
Module Builder-1st	6R-38(330)		4.91	2.32	4.79			0.06	12.08	9.06	21.14
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder-Flail	20'		2.35	1.81	1.62			0.03	5.81	3.62	9.43
TOTALS		526.80	29.68	22.53	22.62	0.00	15.23	616.86	87.82	704.68	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 7.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	11.25	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	66.00	48.00	0.00	48.00	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	13.44	0.00	20.74	8.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	19.65	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	26.78	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.06	0.00	0.00	0.00	0.49	1.22	2.58	1.50	1.06	0.00	0.13	14.58
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	1.53	0.00	0.00	0.00	0.70	1.47	2.98	1.77	1.27	0.00	0.15	19.81
REPAIR & MAINTENANCE	1.18	0.00	0.00	0.00	0.26	0.84	1.85	0.96	0.57	0.00	0.06	16.81
INTEREST ON OP. CAP.	1.37	0.00	0.00	0.00	3.76	1.80	4.54	1.76	0.96	0.17	0.21	0.66
TOTAL DIRECT EXPENSES	24.14	0.00	0.00	0.00	97.65	53.33	156.22	72.17	48.68	11.15	20.66	132.86
NET INCOME	-24.14	0.00	0.00	0.00	-97.65	-53.33	-156.22	-72.17	-48.68	-11.15	-20.66	495.79
NET INCOME TO DATE	-24.14	-24.14	-24.14	-24.14	-121.79	-175.12	-331.34	-403.51	-452.19	-463.34	-484.00	11.79

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 BGII/Flex variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-297	-283	-269	-255	-241	-227	-213	-199	-185	-171	-157
			-385	-371	-357	-343	-329	-315	-301	-287	-273	-259	-245
60	540.00	lb	-263	-246	-229	-213	-196	-179	-162	-145	-129	-112	-95
			-351	-334	-317	-300	-284	-267	-250	-233	-217	-200	-183
70	630.00	lb	-229	-210	-190	-170	-151	-131	-112	-92	-72	-53	-33
			-317	-297	-278	-258	-239	-219	-199	-180	-160	-141	-121
80	720.00	lb	-195	-173	-151	-128	-106	-83	-61	-39	-16	5	28
			-283	-261	-238	-216	-194	-171	-149	-126	-104	-82	-59
90	810.00	lb	-162	-136	-111	-86	-61	-36	-10	14	39	64	89
			-249	-224	-199	-174	-149	-123	-98	-73	-48	-23	2
100	900.00	lb	-128	-100	-72	-44	-16	11	39	67	95	123	151
			-215	-187	-160	-132	-104	-76	-48	-20	7	35	63
110	990.00	lb	-94	-63	-32	-1	28	59	90	121	151	182	213
			-182	-151	-120	-89	-58	-28	2	33	64	94	125
120	1080.00	lb	-60	-26	6	40	73	107	141	174	208	241	275
			-148	-114	-81	-47	-13	19	53	86	120	154	187
130	1170.00	lb	-26	9	46	82	118	155	191	228	264	300	337
			-114	-78	-41	-5	31	67	103	140	176	213	249
140	1260.00	lb	7	46	85	124	163	203	242	281	320	359	399
			-80	-41	-2	36	76	115	154	193	232	272	311
150	1350.00	lb	41	83	125	167	209	250	292	334	376	418	460
			-46	-4	37	79	121	163	205	247	289	331	373

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 2008 input prices.

Table 8.A Estimated costs per acre  
Cotton, 12R-38" solid, no-till  
BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	900.0000	81.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	44.00	1.5000	66.00	_____
Amm Nitrate (34% N)	cwt	28.00	2.0000	56.00	_____
UAN (32% N)	cwt	24.00	2.0000	48.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	10.87	0.5000	5.44	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication Delta	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.6198	6.77	_____
Self-Propelled	hour	10.91	0.2016	2.20	_____
HAND LABOR					
Implements	hour	8.19	0.2760	2.26	_____
Self-Propelled	hour	8.19	0.1869	1.53	_____
UNALLOCATED LABOR					
	hour	10.89	0.6572	7.16	_____
DIESEL FUEL					
Tractors	gal	2.46	7.1790	17.66	_____
Self-Propelled	gal	2.46	3.4066	8.39	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	2.85	1.0000	2.85	_____
Self-Propelled	acre	11.07	1.0000	11.07	_____
INTEREST ON OP. CAP.	acre	14.88	1.0000	14.88	_____
TOTAL DIRECT EXPENSES				596.54	_____
FIXED EXPENSES					
Implements	acre	11.96	1.0000	11.96	_____
Tractors	acre	19.90	1.0000	19.90	_____
Self-Propelled	acre	49.14	1.0000	49.14	_____
TOTAL FIXED EXPENSES				81.00	_____
TOTAL SPECIFIED EXPENSES				677.54	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	900.0000	559.80	_____
Cotton Seed	lb	0.05	1350.0000	68.85	_____
				-----	
TOTAL INCOME				628.65	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	81.00	1.0000	81.00	_____
FERTILIZERS	acre	170.00	1.0000	170.00	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	46.82	1.0000	46.82	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	4.00	1.0000	4.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.4630	3.79	_____
OPERATOR LABOR	hour	10.91	0.8215	8.97	_____
UNALLOCATED LABOR	hour	10.89	0.6572	7.16	_____
DIESEL FUEL	gal	2.46	10.5856	26.05	_____
REPAIR & MAINTENANCE	acre	20.43	1.0000	20.43	_____
INTEREST ON OP. CAP.	acre	14.88	1.0000	14.88	_____
				-----	
TOTAL DIRECT EXPENSES				596.54	_____
RETURNS ABOVE DIRECT EXPENSES				32.11	_____
TOTAL FIXED EXPENSES					
				81.00	_____
				-----	
TOTAL SPECIFIED EXPENSES				677.54	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-48.89	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 8.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

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 Fld	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication Delta	acre					1.0000				
Sprayer( 600-825Gal)	90'		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'		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
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			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	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'		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	6R-38(330)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy-1st pick	6R-38(330)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder-1st	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							0.82	0.61	1.28	0.65

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 8.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, no-till  
BtRR variety, Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14	20.14	
App by Air ( 5 gal)	appl	6.00						0.24	6.24	6.24	
Clarity	pt	5.44						0.22	5.66	5.66	
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32	8.32	
Custom Apply Fert	acre	7.00						0.28	7.28	7.28	
Potash (60% K2O)	cwt	66.00						2.64	68.64	68.64	
Amm Nitrate (34% N)	cwt	56.00						2.24	58.24	58.24	
Row Cond Fld	38'		1.16	0.37	0.81			0.07	2.41	2.16	4.57
NT Plant&Pre-Folding	12R-38		1.59	1.54	1.56			0.14	4.83	4.57	9.40
Cotton Seed BGRR	thous	25.20						0.76	25.96		25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47		50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication Delta	acre	4.00						0.12	4.12		4.12
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-825Gal)	90'		0.30	0.12	0.28			0.02	0.72	0.86	1.58
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	12R-38		1.47	0.84	1.22			0.09	3.62	2.42	6.04
UAN (32% N)	cwt	48.00						1.20	49.20		49.20
Spray (Direct/Layby)	12R-38		1.27	0.57	1.06			0.07	2.97	1.92	4.89
Diuron 80%	lb	4.64						0.12	4.76		4.76
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20		8.20
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Acephate 90%	lb	4.38						0.09	4.47		4.47
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-825Gal)	90'		0.15	0.06	0.13				0.34	0.43	0.77
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	6R-38(330)		7.64	10.77	4.79			0.12	23.32	46.99	70.31
Boll Buggy-1st pick	6R-38(330)		4.91	1.91	3.38			0.05	10.25	8.11	18.36
Module Builder-1st	6R-38(330)		4.91	2.32	4.79			0.06	12.08	9.06	21.14
Gin & Haul	lb	81.00						0.40	81.40		81.40
Stalk Shredder-Flail	20'		2.35	1.81	1.62			0.03	5.81	3.62	9.43
TOTALS		515.26	26.05	20.43	19.92	0.00	14.88	596.54	81.00	677.54	

Note: Cost of production estimates are based on 2008 input prices.  
Fertilization decisions should be based on soil tests.

Table 8.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

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	628.65
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	122.00	0.00	0.00	48.00	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	13.44	0.00	20.74	12.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	4.00	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	19.00	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	2.65	2.56	0.00	0.00	0.13	14.58
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	3.05	3.04	0.00	0.00	0.15	19.81
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.03	1.53	0.00	0.00	0.06	16.81
INTEREST ON OP. CAP.	1.14	0.00	0.00	0.00	5.94	0.00	4.06	1.95	0.75	0.17	0.21	0.66
TOTAL DIRECT EXPENSES	20.14	0.00	0.00	0.00	154.38	0.00	139.48	79.90	37.97	11.15	20.66	132.86
NET INCOME	-20.14	0.00	0.00	0.00	-154.38	0.00	-139.48	-79.90	-37.97	-11.15	-20.66	495.79
NET INCOME TO DATE	-20.14	-20.14	-20.14	-20.14	-174.52	-174.52	-314.00	-393.90	-431.87	-443.02	-463.68	32.11

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, no-till  
 BtRR variety, Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-277	-263	-249	-235	-221	-207	-193	-179	-165	-151	-137
			-358	-344	-330	-316	-302	-288	-274	-260	-246	-232	-218
60	540.00	lb	-243	-226	-209	-192	-176	-159	-142	-125	-108	-92	-75
			-324	-307	-290	-273	-257	-240	-223	-206	-189	-173	-156
70	630.00	lb	-209	-189	-170	-150	-131	-111	-91	-72	-52	-33	-13
			-290	-270	-251	-231	-212	-192	-172	-153	-133	-114	-94
80	720.00	lb	-175	-153	-130	-108	-85	-63	-41	-18	3	25	48
			-256	-234	-211	-189	-166	-144	-122	-99	-77	-55	-32
90	810.00	lb	-141	-116	-91	-66	-40	-15	9	34	59	85	110
			-222	-197	-172	-147	-121	-96	-71	-46	-21	4	29
100	900.00	lb	-107	-79	-51	-23	4	32	60	88	116	144	172
			-188	-160	-132	-104	-76	-48	-20	7	35	63	91
110	990.00	lb	-73	-43	-12	18	49	79	110	141	172	203	233
			-154	-124	-93	-62	-31	-1	29	60	91	122	152
120	1080.00	lb	-40	-6	27	60	94	127	161	194	228	262	295
			-121	-87	-53	-20	13	46	80	113	147	181	214
130	1170.00	lb	-6	30	66	102	139	175	212	248	284	321	357
			-87	-50	-14	21	58	94	131	167	203	240	276
140	1260.00	lb	27	66	105	145	184	223	262	301	341	380	419
			-53	-14	24	64	103	142	181	220	260	299	338
150	1350.00	lb	61	103	145	187	229	271	313	355	397	439	481
			-19	22	64	106	148	190	232	274	316	358	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 2008 input prices.

Table 9.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	46.00	0.1750	8.05	_____
Potash (60% K2O)	cwt	44.00	1.4000	61.60	_____
UAN (32% N)	cwt	24.00	3.6000	86.40	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.82	1.0000	1.82	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication NonDelta	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	1.1134	12.15	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4491	3.68	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR					
	hour	10.89	1.1322	12.34	_____
DIESEL FUEL					
Tractors	gal	2.46	10.8888	26.79	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	9.12	1.0000	9.12	_____
Tractors	acre	4.13	1.0000	4.13	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	14.83	1.0000	14.83	_____
TOTAL DIRECT EXPENSES				600.00	_____
FIXED EXPENSES					
Implements	acre	17.33	1.0000	17.33	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				104.73	_____
TOTAL SPECIFIED EXPENSES				704.73	_____

Note: Cost of production estimates are based on 2008 input prices..  
**Fertilization decisions should be based on soil tests.**

Table 9.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	750.0000	466.50	_____
Cotton Seed	lb	0.05	1125.0000	57.37	_____
				-----	
TOTAL INCOME				523.87	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	156.05	1.0000	156.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	43.20	1.0000	43.20	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.7289	5.97	_____
OPERATOR LABOR	hour	10.91	1.4152	15.44	_____
UNALLOCATED LABOR	hour	10.89	1.1322	12.34	_____
DIESEL FUEL	gal	2.46	15.6550	38.52	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	14.83	1.0000	14.83	_____
				-----	
TOTAL DIRECT EXPENSES				600.00	_____
RETURNS ABOVE DIRECT EXPENSES				-76.13	_____
				-----	
TOTAL FIXED EXPENSES				104.73	_____
				-----	
TOTAL SPECIFIED EXPENSES				704.73	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-180.86	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Non-Delta Area, Mississippi, 2009

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				
Phosphorus(46% P2O5)	cwt					0.1750				
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				
2,4-D Amine 4	pt					1.0000				
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					1.4000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					1.8000				
Row Cond Rdg	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication NonDelta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					1.8000				
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	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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	750.0000				
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 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Non-Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Phosphorus(46% P2O5)	cwt	8.05						0.48	8.53		8.53
Paratill & Bed Fold.	8R-38		1.94	1.32	1.58			0.29	5.13	4.12	9.25
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
2,4-D Amine 4	pt	1.82						0.07	1.89		1.89
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)Rdg	8R-38		0.89	0.29	0.72			0.08	1.98	1.40	3.38
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	61.60						2.46	64.06		64.06
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.17	4.94	2.97	7.91
UAN (32% N)	cwt	43.20						1.51	44.71		44.71
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
Plant & Pre-Rigid	8R-38		1.93	1.17	2.24			0.16	5.50	3.96	9.46
Cotton Seed BGRR	thous	25.20						0.76	25.96		25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47		50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication NonDelta	acre	6.25						0.19	6.44		6.44
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	43.20						1.08	44.28		44.28
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.08	3.84	2.16	6.00
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	4.38						0.09	4.47		4.47
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Karate Z	oz	6.18						0.12	6.30		6.30
Bidrin 8WM	oz	6.88						0.14	7.02		7.02
Incidental Pest											
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	67.50						0.34	67.84		67.84
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		486.44	38.52	26.46	33.75	0.00	14.83	600.00	104.73	704.73	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, conservation tillage  
BtRR variety, Non-Delta Area, Mississippi, 2009

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	523.87
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	67.50
FERTILIZERS	8.05	0.00	0.00	0.00	61.60	43.20	0.00	43.20	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	9.82	0.00	20.74	0.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	6.25	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.58	0.00	0.00	0.00	0.72	1.85	3.82	2.26	1.58	0.00	0.22	21.72
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	1.94	0.00	0.00	0.00	0.89	1.87	3.82	2.32	1.61	0.00	0.22	25.85
REPAIR & MAINTENANCE	1.32	0.00	0.00	0.00	0.29	1.05	1.66	1.17	0.57	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.91	0.00	0.00	0.00	3.45	1.68	4.18	1.47	1.08	0.17	0.22	0.67
TOTAL DIRECT EXPENSES	33.80	0.00	0.00	0.00	89.77	49.65	143.42	60.60	54.70	11.15	20.83	136.08
NET INCOME	-33.80	0.00	0.00	0.00	-89.77	-49.65	-143.42	-60.60	-54.70	-11.15	-20.83	387.79
NET INCOME TO DATE	-33.80	-33.80	-33.80	-33.80	-123.57	-173.22	-316.64	-377.24	-431.94	-443.09	-463.92	-76.13

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.



Table 9.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BtRR variety, Non-Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	375.00	lb	-333	-322	-310	-298	-287	-275	-263	-252	-240	-228	-217
			-438	-426	-415	-403	-391	-380	-368	-356	-345	-333	-321
60	450.00	lb	-305	-291	-277	-263	-249	-235	-221	-207	-193	-179	-165
			-410	-396	-382	-368	-354	-340	-326	-312	-298	-284	-270
70	525.00	lb	-277	-261	-244	-228	-212	-195	-179	-163	-146	-130	-114
			-382	-365	-349	-333	-316	-300	-284	-267	-251	-235	-218
80	600.00	lb	-249	-230	-211	-193	-174	-155	-137	-118	-99	-81	-62
			-353	-335	-316	-297	-279	-260	-241	-223	-204	-185	-167
90	675.00	lb	-220	-199	-178	-157	-136	-115	-95	-74	-53	-32	-11
			-325	-304	-283	-262	-241	-220	-199	-178	-157	-136	-115
100	750.00	lb	-192	-169	-146	-122	-99	-76	-52	-29	-6	17	40
			-297	-274	-250	-227	-204	-180	-157	-134	-110	-87	-64
110	825.00	lb	-164	-138	-113	-87	-61	-36	-10	15	40	66	92
			-269	-243	-217	-192	-166	-140	-115	-89	-64	-38	-12
120	900.00	lb	-136	-108	-80	-52	-24	3	31	59	87	115	143
			-241	-213	-185	-157	-129	-101	-73	-45	-17	10	38
130	975.00	lb	-108	-77	-47	-17	13	43	73	104	134	164	195
			-212	-182	-152	-121	-91	-61	-30	-0	29	60	90
140	1050.00	lb	-79	-47	-14	18	50	83	115	148	181	213	246
			-184	-152	-119	-86	-54	-21	11	43	76	109	141
150	1125.00	lb	-51	-16	18	53	88	123	158	193	228	263	298
			-156	-121	-86	-51	-16	18	53	88	123	158	193

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 2008 input prices.

Table 10.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.2500	16.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	46.00	0.1750	8.05	_____
Potash (60% K2O)	cwt	44.00	1.4000	61.60	_____
UAN (32% N)	cwt	24.00	3.6000	86.40	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.82	1.0000	1.82	_____
Glyphosate 3lbs a.e.	oz	0.25	128.0000	32.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	0.5000	1.55	_____
Bidrin 8WM	oz	0.86	2.0000	1.72	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed BGRRF	thous	0.51	52.5000	26.78	_____
TECHNOLOGY FEE					
BG 11/RRF Tech Fee	cap/ac	64.00	1.0000	64.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication NonDelta	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	1.1134	12.15	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4491	3.68	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR					
	hour	10.89	1.1322	12.34	_____
DIESEL FUEL					
Tractors	gal	2.46	10.8888	26.79	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	9.12	1.0000	9.12	_____
Tractors	acre	4.13	1.0000	4.13	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	15.42	1.0000	15.42	_____
TOTAL DIRECT EXPENSES				-----	_____
				620.13	_____
FIXED EXPENSES					
Implements	acre	17.33	1.0000	17.33	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				-----	_____
				104.73	_____
TOTAL SPECIFIED EXPENSES				-----	_____
				724.86	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 10.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	750.0000	466.50	_____
Cotton Seed	lb	0.05	1125.0000	57.37	_____
				-----	
TOTAL INCOME				523.87	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	28.25	1.0000	28.25	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	156.05	1.0000	156.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	51.20	1.0000	51.20	_____
INSECTICIDES	acre	36.28	1.0000	36.28	_____
SEED/PLANTS	acre	26.78	1.0000	26.78	_____
TECHNOLOGY FEE	acre	64.00	1.0000	64.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.7289	5.97	_____
OPERATOR LABOR	hour	10.91	1.4152	15.44	_____
UNALLOCATED LABOR	hour	10.89	1.1322	12.34	_____
DIESEL FUEL	gal	2.46	15.6550	38.52	_____
REPAIR & MAINTENANCE	acre	26.46	1.0000	26.46	_____
INTEREST ON OP. CAP.	acre	15.42	1.0000	15.42	_____
				-----	
TOTAL DIRECT EXPENSES				620.13	_____
RETURNS ABOVE DIRECT EXPENSES				-96.26	_____
				-----	
TOTAL FIXED EXPENSES				104.73	_____
				-----	
TOTAL SPECIFIED EXPENSES				724.86	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-200.99	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 10.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

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				
Phosphorus(46% P2O5)	cwt					0.1750				
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				
2,4-D Amine 4	pt					1.0000				
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					1.4000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					1.8000				
Row Cond Rdg	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 BGRRF	thous					52.5000				
BG 1l/RRF Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication NonDelta	acre					1.0000				
Sprayer( 600-750Gal)	60'		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'		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					1.8000				
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			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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	750.0000				
Stalk Shredder	14'	MFWD 190	0.117	1.00	Oct		0.11	0.11	0.11	0.09
TOTALS							1.41	1.11	2.14	1.13

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 10.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Lime (Spread)	ton	19.00						1.14	20.14		20.14
Phosphorus(46% P2O5)	cwt	8.05						0.48	8.53		8.53
Paratill & Bed Fold.	8R-38		1.94	1.32	1.58			0.29	5.13	4.12	9.25
App by Air ( 5 gal)	appl	6.00						0.24	6.24		6.24
2,4-D Amine 4	pt	1.82						0.07	1.89		1.89
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32		8.32
Disk Bed (Hipper)Rdg	8R-38		0.89	0.29	0.72			0.08	1.98	1.40	3.38
Custom Apply Fert	acre	7.00						0.28	7.28		7.28
Potash (60% K2O)	cwt	61.60						2.46	64.06		64.06
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.17	4.94	2.97	7.91
UAN (32% N)	cwt	43.20						1.51	44.71		44.71
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28	5.35
Plant & Pre-Rigid	8R-38		1.93	1.17	2.24			0.16	5.50	3.96	9.46
Cotton Seed BGRRF	thous	26.78						0.80	27.58		27.58
BG ll/RRF Tech Fee	cap/ac	64.00						1.92	65.92		65.92
Cotton Seed Trt.	acre	20.00						0.60	20.60		20.60
Insect Scouting	acre	7.00						0.21	7.21		7.21
Eradication NonDelta	acre	6.25						0.19	6.44		6.44
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89	1.90
Dual Magnum	pt	12.74						0.38	13.12		13.12
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24		8.24
Acephate 90%	lb	1.75						0.05	1.80		1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89	1.89
Centric 40WG	oz	8.90						0.22	9.12		9.12
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20		8.20
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97	7.86
UAN (32% N)	cwt	43.20						1.08	44.28		44.28
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.08	3.84	2.16	6.00
Diuron 80%	lb	4.64						0.09	4.73		4.73
Glyphosate 3lbs a.e.	oz	8.00						0.16	8.16		8.16
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Acephate 90%	lb	4.38						0.09	4.47		4.47
App by Air ( 3 gal)	appl	1.25						0.03	1.28		1.28
Karate Z	oz	1.55						0.03	1.58		1.58
Bidrin 8WM	oz	1.72						0.03	1.75		1.75
Incidental Pest											
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Incidental Pest Trt	acre	12.00						0.24	12.24		12.24
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.98						0.09	6.07		6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06		6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79		4.79
Ethephon 6E	pt	5.79						0.06	5.85		5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44	0.95
Tribufos 6lb	pt	3.58						0.04	3.62		3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34	87.18
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54	24.50
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96	28.65
Gin & Haul	lb	67.50						0.34	67.84		67.84
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81	10.56
TOTALS		505.98	38.52	26.46	33.75	0.00	15.42	620.13	104.73	724.86	

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 10.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

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	523.87
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	11.25	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	67.50
FERTILIZERS	8.05	0.00	0.00	0.00	61.60	43.20	0.00	43.20	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	9.82	0.00	20.74	8.00	12.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	19.65	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	26.78	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	64.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	6.25	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	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.58	0.00	0.00	0.00	0.72	1.85	3.82	2.26	1.58	0.00	0.22	21.72
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	1.94	0.00	0.00	0.00	0.89	1.87	3.82	2.32	1.61	0.00	0.22	25.85
REPAIR & MAINTENANCE	1.32	0.00	0.00	0.00	0.29	1.05	1.66	1.17	0.57	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.91	0.00	0.00	0.00	3.45	1.68	4.67	1.67	0.98	0.17	0.22	0.67
TOTAL DIRECT EXPENSES	33.80	0.00	0.00	0.00	89.77	49.65	160.49	68.80	49.56	11.15	20.83	136.08
NET INCOME	-33.80	0.00	0.00	0.00	-89.77	-49.65	-160.49	-68.80	-49.56	-11.15	-20.83	387.79
NET INCOME TO DATE	-33.80	-33.80	-33.80	-33.80	-123.57	-173.22	-333.71	-402.51	-452.07	-463.22	-484.05	-96.26

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 BGII/Flex variety, Non-Delta Area, Mississippi, 2009

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	-----dollars-----										
50	375.00	lb	-353	-342	-330	-318	-307	-295	-283	-272	-260	-248	-237
			-458	-446	-435	-423	-411	-400	-388	-376	-365	-353	-342
60	450.00	lb	-325	-311	-297	-283	-269	-255	-241	-227	-213	-199	-185
			-430	-416	-402	-388	-374	-360	-346	-332	-318	-304	-290
70	525.00	lb	-297	-281	-264	-248	-232	-215	-199	-183	-166	-150	-134
			-402	-385	-369	-353	-336	-320	-304	-287	-271	-255	-238
80	600.00	lb	-269	-250	-231	-213	-194	-175	-157	-138	-120	-101	-82
			-374	-355	-336	-318	-299	-280	-262	-243	-224	-206	-187
90	675.00	lb	-241	-220	-199	-178	-157	-136	-115	-94	-73	-52	-31
			-345	-324	-303	-282	-261	-240	-219	-198	-177	-156	-135
100	750.00	lb	-212	-189	-166	-142	-119	-96	-72	-49	-26	-2	20
			-317	-294	-270	-247	-224	-200	-177	-154	-131	-107	-84
110	825.00	lb	-184	-159	-133	-107	-82	-56	-30	-5	20	46	71
			-289	-263	-238	-212	-186	-161	-135	-109	-84	-58	-32
120	900.00	lb	-156	-128	-100	-72	-44	-16	11	39	67	95	123
			-261	-233	-205	-177	-149	-121	-93	-65	-37	-9	18
130	975.00	lb	-128	-97	-67	-37	-6	23	53	83	114	144	174
			-233	-202	-172	-142	-111	-81	-51	-20	9	39	70
140	1050.00	lb	-100	-67	-34	-2	30	63	95	128	161	193	226
			-204	-172	-139	-106	-74	-41	-8	23	56	89	121
150	1125.00	lb	-71	-36	-1	33	68	103	138	173	208	243	278
			-176	-141	-106	-71	-36	-1	33	68	103	138	173

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 2008 input prices.

Table 11.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.00	2.0000	12.00	_____
App by Air ( 3 gal)	appl	5.00	3.5000	17.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.37	2.0000	4.74	_____
Ethephon 6E	pt	4.35	1.3300	5.79	_____
Tribufos 6lb	pt	7.15	0.5000	3.58	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	46.00	0.1750	8.05	_____
Amm Nitrate (34% N)	cwt	28.00	1.8000	50.40	_____
Potash (60% K2O)	cwt	44.00	1.4000	61.60	_____
UAN (32% N)	cwt	24.00	1.8000	43.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.82	1.0000	1.82	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Dual Magnum	pt	12.74	1.0000	12.74	_____
Diuron 80%	lb	4.64	1.0000	4.64	_____
INSECTICIDES					
Acephate 90%	lb	7.97	1.5200	12.11	_____
Centric 40WG	oz	4.45	2.0000	8.90	_____
Karate Z	oz	3.09	2.0000	6.18	_____
Bidrin 8WM	oz	0.86	8.0000	6.88	_____
Incidental Pest Trt	acre	12.00	0.5000	6.00	_____
SEED/PLANTS					
Cotton Seed BGRR	thous	0.48	52.5000	25.20	_____
TECHNOLOGY FEE					
BG/RR Cot Tech Fee	cap/ac	49.00	1.0000	49.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.16	16.0000	2.56	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.00	1.0000	7.00	_____
ERADICATION FEE					
Eradication NonDelta	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	38.00	0.5000	19.00	_____
OPERATOR LABOR					
Tractors	hour	10.91	0.9212	10.05	_____
Self-Propelled	hour	10.91	0.3018	3.29	_____
HAND LABOR					
Implements	hour	8.19	0.4136	3.38	_____
Self-Propelled	hour	8.19	0.2798	2.29	_____
UNALLOCATED LABOR	hour	10.90	0.9785	10.67	_____
DIESEL FUEL					
Tractors	gal	2.46	9.0100	22.17	_____
Self-Propelled	gal	2.46	4.7661	11.73	_____
REPAIR & MAINTENANCE					
Implements	acre	7.34	1.0000	7.34	_____
Tractors	acre	3.41	1.0000	3.41	_____
Self-Propelled	acre	13.21	1.0000	13.21	_____
INTEREST ON OP. CAP.	acre	14.89	1.0000	14.89	_____
TOTAL DIRECT EXPENSES				596.07	_____
FIXED EXPENSES					
Implements	acre	14.23	1.0000	14.23	_____
Tractors	acre	23.87	1.0000	23.87	_____
Self-Propelled	acre	58.56	1.0000	58.56	_____
TOTAL FIXED EXPENSES				96.66	_____
TOTAL SPECIFIED EXPENSES				692.73	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**



Table 11.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Non-Delta Area, Mississippi, 2009

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.62	750.0000	466.50	_____
Cotton Seed	lb	0.05	1125.0000	57.37	_____
				-----	
TOTAL INCOME				523.87	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	29.50	1.0000	29.50	_____
HARVEST AIDS	acre	14.11	1.0000	14.11	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	163.25	1.0000	163.25	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	43.20	1.0000	43.20	_____
INSECTICIDES	acre	40.07	1.0000	40.07	_____
SEED/PLANTS	acre	25.20	1.0000	25.20	_____
TECHNOLOGY FEE	acre	49.00	1.0000	49.00	_____
GROWTH REGULATORS	acre	2.56	1.0000	2.56	_____
CUSTOM FERTILIZE	acre	7.00	1.0000	7.00	_____
ERADICATION FEE	acre	6.25	1.0000	6.25	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	19.00	1.0000	19.00	_____
HAND LABOR	hour	8.19	0.6934	5.67	_____
OPERATOR LABOR	hour	10.91	1.2231	13.34	_____
UNALLOCATED LABOR	hour	10.90	0.9785	10.67	_____
DIESEL FUEL	gal	2.46	13.7761	33.90	_____
REPAIR & MAINTENANCE	acre	23.96	1.0000	23.96	_____
INTEREST ON OP. CAP.	acre	14.89	1.0000	14.89	_____
				-----	
TOTAL DIRECT EXPENSES				596.07	_____
RETURNS ABOVE DIRECT EXPENSES				-72.20	_____
				-----	
TOTAL FIXED EXPENSES				96.66	_____
				-----	
TOTAL SPECIFIED EXPENSES				692.73	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-168.86	_____

Note: Cost of production estimates are based on 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 11.C Estimated resource use for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Non-Delta Area, Mississippi, 2009

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				
Phosphorus(46% P2O5)	cwt					0.1750				
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
2,4-D Amine 4	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Custom Apply Fert	acre			1.00	Mar	1.0000				
Amm Nitrate (34% N)	cwt					1.8000				
Potash (60% K2O)	cwt					1.4000				
Row Cond Rdg	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 BGRR	thous					52.5000				
BG/RR Cot Tech Fee	cap/ac					1.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication NonDelta	acre					1.0000				
Sprayer( 600-750Gal)	60'		0.017	1.00	May			0.01	0.02	0.01
Glyphosate 3lbs a.e.	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.2200				
Sprayer( 600-750Gal)	60'		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					1.8000				
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				
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	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'		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker-1st-BB	4R-38(325)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy-1st pick	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder-1st	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	750.0000				
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 2008 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 11.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Non-Delta Area, Mississippi, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	19.00						1.14	20.14	20.14
Phosphorus(46% P2O5)	cwt	8.05						0.48	8.53	8.53
App by Air ( 5 gal)	appl	6.00						0.24	6.24	6.24
2,4-D Amine 4	pt	1.82						0.07	1.89	1.89
Glyphosate 3lbs a.e.	oz	8.00						0.32	8.32	8.32
Custom Apply Fert	acre	7.00						0.28	7.28	7.28
Amm Nitrate (34% N)	cwt	50.40						2.02	52.42	52.42
Potash (60% K2O)	cwt	61.60						2.46	64.06	64.06
Row Cond Rdg	26'		1.44	0.37	1.17			0.09	3.07	2.28
NT Plant&Pre-Rigid	8R-38		2.01	1.33	2.32			0.17	5.83	4.38
Cotton Seed BGRR	thous	25.20						0.76	25.96	25.96
BG/RR Cot Tech Fee	cap/ac	49.00						1.47	50.47	50.47
Cotton Seed Trt.	acre	20.00						0.60	20.60	20.60
Insect Scouting	acre	7.00						0.21	7.21	7.21
Eradication NonDelta	acre	6.25						0.19	6.44	6.44
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.03	1.01	0.89
Glyphosate 3lbs a.e.	oz	8.00						0.24	8.24	8.24
Dual Magnum	pt	12.74						0.38	13.12	13.12
Acephate 90%	lb	1.75						0.05	1.80	1.80
Sprayer( 600-750Gal)	60'		0.45	0.12	0.41			0.02	1.00	0.89
Centric 40WG	oz	8.90						0.22	9.12	9.12
Mepiquat Chloride	oz	1.28						0.03	1.31	1.31
Fert Appl (Liquid)	8R-38		1.87	1.05	1.85			0.12	4.89	2.97
UAN (32% N)	cwt	43.20						1.08	44.28	44.28
Spray (Direct/Layby)	8R-38		1.61	0.57	1.58			0.09	3.85	2.16
Diuron 80%	lb	4.64						0.12	4.76	4.76
Glyphosate 3lbs a.e.	oz	8.00						0.20	8.20	8.20
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Mepiquat Chloride	oz	1.28						0.03	1.31	1.31
Acephate 90%	lb	4.38						0.09	4.47	4.47
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Karate Z	oz	6.18						0.12	6.30	6.30
Bidrin 8WM	oz	6.88						0.14	7.02	7.02
Incidental Pest										
App by Air ( 3 gal)	appl	2.50						0.05	2.55	2.55
Incidental Pest Trt	acre	6.00						0.12	6.12	6.12
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.98						0.09	6.07	6.07
App by Air ( 5 gal)	appl	6.00						0.06	6.06	6.06
Thidiazuron 4lb	oz	4.74						0.05	4.79	4.79
Ethephon 6E	pt	5.79						0.06	5.85	5.85
Sprayer( 600-750Gal)	60'		0.22	0.06	0.22			0.01	0.51	0.44
Tribufos 6lb	pt	3.58						0.04	3.62	3.62
Cotton Picker-1st-BB	4R-38(325)		10.61	12.91	7.17			0.15	30.84	56.34
Boll Buggy-1st pick	4R-38(325)		6.20	2.63	5.06			0.07	13.96	10.54
Module Builder-1st	4R-38(325)		6.20	3.24	7.17			0.08	16.69	11.96
Gin & Haul	lb	67.50						0.34	67.84	67.84
Stalk Shredder	14'		2.84	1.56	2.32			0.03	6.75	3.81
TOTALS		493.64	33.90	23.96	29.68	0.00	14.89	596.07	96.66	692.73

Note: Cost of production estimates are based on 2008 input prices.

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

Table 11.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, no-till  
BtRR variety, Non-Delta Area, Mississippi, 2009

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	523.87
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	12.50	5.00	6.00	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.11	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	67.50
FERTILIZERS	8.05	0.00	0.00	0.00	112.00	0.00	0.00	43.20	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	9.82	0.00	20.74	12.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.75	8.90	23.44	5.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	49.00	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	1.28	1.28	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	7.00	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	6.25	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	19.00	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	3.90	3.84	0.00	0.00	0.22	21.72
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	3.90	3.93	0.00	0.00	0.22	25.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	1.82	1.74	0.00	0.00	0.06	20.34
INTEREST ON OP. CAP.	1.62	0.00	0.00	0.00	5.39	0.00	4.19	1.88	0.75	0.17	0.22	0.67
TOTAL DIRECT EXPENSES	28.67	0.00	0.00	0.00	140.21	0.00	143.75	77.41	37.97	11.15	20.83	136.08
NET INCOME	-28.67	0.00	0.00	0.00	-140.21	0.00	-143.75	-77.41	-37.97	-11.15	-20.83	387.79
NET INCOME TO DATE	-28.67	-28.67	-28.67	-28.67	-168.88	-168.88	-312.63	-390.04	-428.01	-439.16	-459.99	-72.20

Note: Cost of production estimates are based on 2008 input prices.

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

\* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 BtRR variety, Non-Delta Area, Mississippi, 2009

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.71	0.74	0.77
PERCENT	YIELD	UNIT	dollars										
50	375.00	lb	-329	-318	-306	-294	-283	-271	-259	-248	-236	-224	-213
			-426	-414	-403	-391	-379	-368	-356	-344	-333	-321	-309
60	450.00	lb	-301	-287	-273	-259	-245	-231	-217	-203	-189	-175	-161
			-398	-384	-370	-356	-342	-328	-314	-300	-286	-272	-258
70	525.00	lb	-273	-257	-240	-224	-208	-191	-175	-159	-142	-126	-110
			-370	-353	-337	-321	-304	-288	-272	-255	-239	-223	-206
80	600.00	lb	-245	-226	-207	-189	-170	-151	-133	-114	-95	-77	-58
			-341	-323	-304	-285	-267	-248	-229	-211	-192	-173	-155
90	675.00	lb	-217	-196	-175	-154	-133	-112	-91	-70	-49	-28	-7
			-313	-292	-271	-250	-229	-208	-187	-166	-145	-124	-103
100	750.00	lb	-188	-165	-142	-118	-95	-72	-48	-25	-2	21	44
			-285	-262	-238	-215	-192	-168	-145	-122	-98	-75	-52
110	825.00	lb	-160	-134	-109	-83	-57	-32	-6	18	44	70	95
			-257	-231	-205	-180	-154	-128	-103	-77	-52	-26	-0
120	900.00	lb	-132	-104	-76	-48	-20	7	35	63	91	119	147
			-229	-201	-173	-145	-117	-89	-61	-33	-5	22	50
130	975.00	lb	-104	-73	-43	-13	17	47	77	108	138	168	199
			-200	-170	-140	-109	-79	-49	-18	11	41	72	102
140	1050.00	lb	-76	-43	-10	21	54	87	119	152	185	217	250
			-172	-140	-107	-74	-42	-9	23	55	88	121	153
150	1125.00	lb	-47	-12	22	57	92	127	162	197	232	267	302
			-144	-109	-74	-39	-4	30	65	100	135	170	205

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 2008 input prices.



## APPENDIX

Appenmdix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2009

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)	275 hp	194,693	300	8	14.15	10.91	34.80	20.28	65.99	88.48	154.48
Combine (300-349 hp)	325 hp	228,109	300	8	16.73	10.91	41.15	23.76	75.82	103.67	179.49
Combine (350-379 hp)	370 hp	240,137	300	8	19.04	10.91	46.83	25.01	82.76	109.13	191.90
Combine (395-420 hp)	400 hp	273,622	300	8	20.58	10.91	50.62	28.50	90.03	124.35	214.39
Cotton Stripper	173 hp	134,267	200	8	8.08	10.91	19.87	20.97	51.76	91.53	143.29
Tractor( 40-59hp)CB	2WD 50	28,984	600	8	2.57	10.91	6.33	0.90	18.14	6.11	24.25
Tractor( 40-59hp)CB	MFWD 50	31,863	600	8	2.57	10.91	6.33	0.99	18.23	6.71	24.95
Tractor( 40-59hp)RB	2WD 50	18,617	600	8	2.57	10.91	6.33	0.58	17.82	3.92	21.74
Tractor( 40-59hp)RB	MFWD 50	23,528	600	8	2.57	10.91	6.33	0.73	17.97	4.96	22.93
Tractor( 60-89hp)CB	2WD 75	36,964	600	8	3.86	10.91	9.49	1.15	21.56	7.79	29.35
Tractor( 60-89hp)CB	MFWD 75	41,620	600	8	3.86	10.91	9.49	1.30	21.70	8.77	30.48
Tractor( 60-89hp)RB	2WD 75	27,169	600	8	3.86	10.91	9.49	0.84	21.25	5.72	26.98
Tractor( 60-89hp)RB	MFWD 75	33,056	600	8	3.86	10.91	9.49	1.03	21.43	6.96	28.40
Tractor( 90-119hp)CB	2WD 105	54,137	600	8	5.40	10.91	13.29	1.69	25.89	11.41	37.31
Tractor( 90-119hp)CB	MFWD 105	64,936	600	8	5.40	10.91	13.29	2.02	26.23	13.69	39.92
Tractor( 90-119hp)RB	2WD 105	37,544	600	8	5.40	10.91	13.29	1.17	25.37	7.91	33.29
Tractor( 90-119hp)RB	MFWD 105	44,843	600	8	5.40	10.91	13.29	1.40	25.60	9.45	35.06
Tractor(120-139hp)CB	2WD 130	76,003	600	8	6.69	10.91	16.46	2.37	29.74	16.02	45.77
Tractor(120-139hp)CB	MFWD 130	88,605	600	8	6.69	10.91	16.46	2.76	30.13	18.68	48.82
Tractor(140-159hp)CB	2WD 150	88,335	600	8	7.72	10.91	18.99	2.76	32.66	18.62	51.28
Tractor(140-159hp)CB	MFWD 150	102,055	600	8	7.72	10.91	18.99	3.18	33.09	21.51	54.61
Tractor(160-179hp)CB	2WD 170	95,567	600	8	8.75	10.91	21.52	2.98	35.42	20.93	56.35
Tractor(160-179hp)CB	MFWD 170	116,823	600	8	8.75	10.91	21.52	3.65	36.08	25.58	61.67
Tractor(180-199hp)CB	2WD 190	109,958	600	8	9.77	10.91	24.05	3.43	38.40	24.08	62.49
Tractor(180-199hp)CB	MFWD 190	118,310	600	8	9.77	10.91	24.05	3.69	38.66	25.91	64.58
Tractor(200-249hp)CB	4WD 225	147,066	600	8	11.58	10.91	28.49	4.59	43.99	32.21	76.20
Tractor(200-249hp)CB	MFWD 225	146,615	600	8	11.58	10.91	28.49	4.58	43.98	32.11	76.09
Tractor(200-249hp)CB	Track 225	168,214	600	8	11.58	10.91	28.49	5.25	44.65	36.84	81.50
Tractor(250-349hp)CB	4WD 300	171,753	600	8	15.44	10.91	37.98	5.36	54.26	37.62	91.88
Tractor(250-349hp)CB	MFWD 300	175,962	600	8	15.44	10.91	37.98	5.49	54.39	38.54	92.93
Tractor(250-349hp)CB	Track 300	185,222	600	8	15.44	10.91	37.98	5.78	54.68	40.57	95.25
Tractor(350-449hp)CB	4WD 400	203,681	600	8	20.58	10.91	50.64	6.36	67.92	44.61	112.53
Tractor(350-449hp)CB	Track 400	245,097	600	8	20.58	10.91	50.64	7.65	69.21	53.68	122.90
Tractor(450-550hp)CB	Track 475	279,879	600	8	24.44	10.91	60.14	8.74	79.80	61.30	141.10
Tractor(450-550hp)CB	4WD 500	246,077	600	8	24.44	10.91	60.14	7.68	78.74	53.90	132.64

## 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, 2009

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-----					
ATV - 4 Wheeler	20' Rope W	8,679	100	8	0.50	0.052	0.79	0.06	0.14	1.00	0.60	1.60
Backhoe	2WD Cab	65,678	0	0	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
Cotton Picker-1st-BB	4R-30(250)	256,715	200	8	12.86	0.327	6.25	10.36	13.13	29.74	57.29	87.04
Cotton Picker-1st-BB	4R-30(325)	307,909	200	8	16.72	0.327	6.25	13.47	15.75	35.47	68.71	104.19
Cotton Picker-1st-BB	4R-38(255)	259,280	200	8	13.12	0.257	4.92	8.32	10.44	23.69	45.56	69.25
Cotton Picker-1st-BB	4R-38(325)	320,624	200	8	16.72	0.257	4.92	10.60	12.91	28.44	56.34	84.79
Cotton Picker-1st-BB	4R2x1(350)	329,206	200	8	18.01	0.172	3.29	7.63	8.86	19.79	38.67	58.46
Cotton Picker-1st-BB	4R-30(255)	280,811	200	8	13.12	0.261	5.00	8.45	11.49	24.95	50.13	75.08
Cotton Picker-1st-BB	5R-38(250)	284,601	200	8	12.86	0.207	3.95	6.55	9.21	19.73	40.20	59.93
Cotton Picker-1st-BB	6R-30(325)	401,833	200	8	18.01	0.218	4.16	9.67	13.70	27.54	59.78	87.33
Cotton Picker-1st-BB	6R-38(330)	400,016	200	8	18.01	0.172	3.29	7.63	10.76	21.69	46.98	68.68
Cotton Picker-1st-Tr	4R-30(250)	256,715	200	8	12.86	0.327	6.25	10.36	13.13	29.74	57.29	87.04
Cotton Picker-1st-Tr	4R-30(325)	307,909	200	8	16.72	0.327	6.25	13.47	15.75	35.47	68.71	104.19
Cotton Picker-1st-Tr	4R-38(255)	259,280	200	8	13.12	0.257	4.92	8.32	10.44	23.68	45.56	69.25
Cotton Picker-1st-Tr	4R-38(325)	320,624	200	8	16.72	0.257	4.92	10.60	12.91	28.44	56.34	84.79
Cotton Picker-1st-Tr	4R2x1(350)	329,206	200	8	18.01	0.172	3.29	7.63	8.86	19.79	38.67	58.46
Cotton Picker-1st-Tr	5R-30(255)	280,811	200	8	13.12	0.261	5.00	8.45	11.49	24.94	50.13	75.08
Cotton Picker-1st-Tr	5R-38(250)	284,601	200	8	12.86	0.207	3.95	6.55	9.21	19.73	40.20	59.93
Cotton Picker-1st-Tr	6R-30(325)	401,833	200	8	18.01	0.218	4.16	9.67	13.70	27.54	59.78	87.33
Cotton Picker-1st-Tr	6R-38(330)	400,016	200	8	18.01	0.172	3.29	7.63	10.76	21.69	46.98	68.68
Cotton Picker-2nd-BB	4R-30(250)	256,715	200	8	12.86	0.277	5.29	8.77	11.12	25.19	48.53	73.72
Cotton Picker-2nd-BB	4R-30(325)	307,909	200	8	16.72	0.277	5.29	11.41	13.34	30.05	58.20	88.26
Cotton Picker-2nd-BB	4R-38(255)	259,280	200	8	13.12	0.218	4.17	7.04	8.84	20.06	38.59	58.66
Cotton Picker-2nd-BB	4R-38(325)	320,624	200	8	16.72	0.218	4.17	8.98	10.93	24.09	47.72	71.82
Cotton Picker-2nd-BB	4R2x1(350)	329,206	200	8	18.01	0.145	2.78	6.46	7.50	16.76	32.75	49.51
Cotton Picker-2nd-BB	5R-30(255)	280,811	200	8	13.12	0.221	4.23	7.16	9.73	21.13	42.46	63.60
Cotton Picker-2nd-BB	5R-38(250)	284,601	200	8	12.86	0.175	3.35	5.55	7.80	16.71	34.05	50.76
Cotton Picker-2nd-BB	6R-30(325)	401,833	200	8	18.01	0.184	3.53	8.19	11.60	23.33	50.64	73.97
Cotton Picker-2nd-BB	6R-38(330)	400,016	200	8	18.01	0.145	2.78	6.46	9.12	18.37	39.80	58.17
Cotton Picker-2nd-Tr	4R-30(250)	256,715	200	8	12.86	0.277	5.29	8.77	11.12	25.19	48.53	73.72
Cotton Picker-2nd-Tr	4R-30(325)	307,909	200	8	16.72	0.277	5.29	11.41	13.34	30.05	58.20	88.26
Cotton Picker-2nd-Tr	4R-38(255)	259,280	200	8	13.12	0.218	4.17	7.04	8.84	20.06	38.59	58.66
Cotton Picker-2nd-Tr	4R-38(325)	320,624	200	8	16.72	0.218	4.17	8.98	10.93	24.09	47.72	71.82
Cotton Picker-2nd-Tr	4R2x1(350)	329,206	200	8	18.01	0.145	2.78	6.46	7.50	16.76	32.75	49.51
Cotton Picker-2nd-Tr	5R-30(255)	280,811	200	8	13.12	0.221	4.23	7.16	9.73	21.13	42.46	63.60
Cotton Picker-2nd-Tr	5R-38(250)	284,601	200	8	12.86	0.175	3.35	5.55	7.80	16.71	34.05	50.76
Cotton Picker-2nd-Tr	6R-30(325)	401,833	200	8	18.01	0.184	3.53	8.19	11.60	23.33	50.64	73.97
Cotton Picker-2nd-Tr	6R-38(330)	400,016	200	8	18.01	0.145	2.78	6.46	9.12	18.37	39.80	58.17
Cotton Picker/Module	4R-38(365)	455,497	200	8	18.78	0.257	4.92	11.91	18.34	35.18	80.04	115.23
Cotton Picker/Module	6R-30(365)	506,901	200	8	18.78	0.218	4.16	10.08	17.28	31.54	75.41	106.96
Cotton Picker/Module	6R-38(365)	505,437	200	8	18.78	0.172	3.29	7.96	13.60	24.86	59.37	84.23
Dry Applicator SP	70' 300cuft	247,266	350	8	15.44	0.015	0.22	0.57	0.20	1.00	1.45	2.45
Sprayer( 110Gal)	30' 47 hp	36,568	350	8	2.57	0.035	0.52	0.22	0.06	0.82	0.50	1.32
Sprayer( 300-450Gal)	60' 110 hp	85,701	350	8	5.66	0.017	0.26	0.24	0.08	0.59	0.58	1.17
Sprayer( 300-450Gal)	80' 110 hp	88,123	350	8	5.66	0.013	0.19	0.18	0.06	0.44	0.45	0.89
Sprayer( 600-750Gal)	60' 200 hp	129,370	350	8	10.29	0.017	0.26	0.44	0.12	0.83	0.88	1.72
Sprayer( 600-825Gal)	80' 200 hp	141,780	350	8	10.29	0.013	0.19	0.33	0.10	0.63	0.73	1.36
Sprayer( 600-825Gal)	90' 200 hp	187,300	350	8	10.29	0.011	0.17	0.29	0.11	0.59	0.85	1.44
Sprayer(1000-1400Gal)	90' 275 hp	222,727	350	8	14.15	0.010	0.15	0.36	0.12	0.65	0.91	1.57
Sprayer(1200PlusGal)	120' 300 hp	259,282	350	8	15.44	0.008	0.13	0.33	0.12	0.58	0.88	1.47
Utility Vehicle	20'	12,413	200	8	0.70	0.052	0.79	0.08	0.10	0.98	0.44	1.43
Utility Vehicle	75" Rope W	10,771	200	8	0.50	0.167	2.51	0.20	0.28	3.00	1.23	4.23

## 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, 2009

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-----							
Bedder/Roller-Fold.	21'	MFWD 190	15,239	160	10	0.089	0.97	2.14	0.34	0.33	3.79	1.01	2.31	7.11
Bedder/Roller-Fold.	26'	MFWD 190	19,611	160	10	0.072	0.78	1.73	0.35	0.26	3.14	1.04	1.86	6.06
Bedder/Roller-Fold.	30'	MFWD 190	25,485	160	10	0.062	0.68	1.50	0.39	0.23	2.81	1.18	1.61	5.61
Bedder/Roller-Fold.	40'	MFWD 225	28,335	160	10	0.046	0.51	1.33	0.33	0.21	2.39	0.98	1.50	4.88
Bedder/Roller-Rigid	21'	MFWD 190	14,888	160	10	0.089	0.97	2.14	0.33	0.33	3.78	0.98	2.31	7.08
Bedder/Roller-Rigid	26'	MFWD 190	16,295	160	10	0.072	0.78	1.73	0.29	0.26	3.08	0.87	1.86	5.82
Bedder/Roller-Rigid	30'	MFWD 190	17,288	160	10	0.062	0.68	1.50	0.27	0.23	2.68	0.80	1.61	5.10
Bedder/Roller-Rigid	40'	MFWD 225	22,543	160	10	0.046	0.51	1.33	0.26	0.21	2.32	0.78	1.50	4.61
Blade-Box	6'-7'	2WD 130	1,313	200	20	0.020	0.21	0.32	0.01	0.04	0.60	0.01	0.32	0.93
Boll Buggy-1st pick	4R-30(250)	MFWD 190	26,045	200	10	0.327	3.57	7.87	2.13	1.21	14.78	4.90	8.48	28.18
Boll Buggy-1st pick	4R-30(325)	MFWD 190	26,045	200	10	0.327	3.57	7.87	2.13	1.21	14.78	4.90	8.48	28.18
Boll Buggy-1st pick	4R-38(255)	MFWD 190	26,045	200	10	0.257	2.81	6.20	1.67	0.95	11.64	3.86	6.68	22.19
Boll Buggy-1st pick	4R-38(325)	MFWD 190	26,045	200	10	0.257	2.81	6.20	1.67	0.95	11.64	3.86	6.68	22.19
Boll Buggy-1st pick	4R2x1(350)	MFWD 190	26,045	200	10	0.172	1.87	4.14	1.12	0.63	7.78	2.58	4.46	14.83
Boll Buggy-1st pick	5R-30(255)	MFWD 190	26,045	200	10	0.261	2.85	6.30	1.70	0.96	11.83	3.92	6.78	22.54
Boll Buggy-1st pick	5R-38(250)	MFWD 190	26,045	200	10	0.207	2.26	4.98	1.34	0.76	9.36	3.10	5.36	17.83
Boll Buggy-1st pick	6R-30(325)	MFWD 190	26,045	200	10	0.218	2.38	5.25	1.42	0.80	9.85	3.27	5.65	18.78
Boll Buggy-1st pick	6R-38(330)	MFWD 190	26,045	200	10	0.172	1.87	4.14	1.12	0.63	7.78	2.58	4.46	14.83
Boll Buggy-2nd pick	4R-30(250)	MFWD 190	26,045	200	10	0.277	3.02	6.67	1.80	1.02	12.52	4.15	7.18	23.87
Boll Buggy-2nd pick	4R-30(325)	MFWD 190	26,045	200	10	0.277	3.02	6.67	1.80	1.02	12.52	4.15	7.18	23.87
Boll Buggy-2nd pick	4R-38(255)	MFWD 190	26,045	200	10	0.218	2.38	5.25	1.42	0.80	9.86	3.27	5.65	18.79
Boll Buggy-2nd pick	4R-38(325)	MFWD 190	26,045	200	10	0.218	2.38	5.25	1.42	0.80	9.86	3.27	5.65	18.79
Boll Buggy-2nd pick	4R2x1(350)	MFWD 190	26,045	200	10	0.145	1.59	3.51	0.95	0.53	6.59	2.18	3.78	12.56
Boll Buggy-2nd pick	5R-30(255)	MFWD 190	26,045	200	10	0.221	2.42	5.33	1.44	0.82	10.02	3.32	5.74	19.09
Boll Buggy-2nd pick	5R-38(250)	MFWD 190	26,045	200	10	0.175	1.91	4.22	1.14	0.64	7.92	2.63	4.54	15.10
Boll Buggy-2nd pick	6R-30(325)	MFWD 190	26,045	200	10	0.184	2.01	4.44	1.20	0.68	8.35	2.77	4.79	15.91
Boll Buggy-2nd pick	6R-38(330)	MFWD 190	26,045	200	10	0.145	1.59	3.51	0.95	0.53	6.59	2.18	3.78	12.56
Boll Buggy-Stripper	13' Bcast	MFWD 150	26,045	200	10	0.251	2.74	4.78	1.63	0.80	9.97	3.77	5.41	19.16
Boll Buggy-Stripper	16' Bcast	MFWD 150	26,045	200	10	0.204	2.23	3.88	1.33	0.65	8.10	3.06	4.40	15.57
Boll Buggy-Stripper	19' Bcast	MFWD 150	26,045	200	10	0.172	1.87	3.27	1.12	0.54	6.82	2.58	3.70	13.11
Boll Buggy-Stripper	4R-30 2x1	MFWD 150	26,045	200	10	0.218	2.38	4.14	1.42	0.69	8.64	3.27	4.69	16.61
Boll Buggy-Stripper	4R-36	MFWD 150	26,045	200	10	0.272	2.97	5.18	1.77	0.87	10.80	4.08	5.87	20.76
Boll Buggy-Stripper	4R-38	MFWD 150	26,045	200	10	0.257	2.81	4.89	1.67	0.82	10.20	3.86	5.54	19.62
Boll Buggy-Stripper	4R-38 2x1	MFWD 150	26,045	200	10	0.172	1.87	3.27	1.12	0.54	6.82	2.58	3.70	13.11
Boll Buggy-Stripper	5R-30	MFWD 150	26,045	200	10	0.261	2.85	4.97	1.70	0.83	10.37	3.92	5.63	19.93
Boll Buggy-Stripper	5R-38	MFWD 150	26,045	200	10	0.207	2.26	3.93	1.34	0.66	8.20	3.10	4.45	15.77
Boll Buggy-Stripper	6R-30	MFWD 150	26,045	200	10	0.218	2.38	4.14	1.42	0.69	8.64	3.27	4.69	16.61
Boll Buggy-Stripper	6R-38	MFWD 150	26,045	200	10	0.172	1.87	3.27	1.12	0.54	6.82	2.58	3.70	13.11
Boll Buggy-Stripper	8R-30	MFWD 150	26,045	200	10	0.163	1.78	3.10	1.06	0.52	6.48	2.45	3.52	12.45
Boll Buggy-Stripper	8R-36/38	MFWD 150	26,045	200	10	0.129	1.41	2.45	0.84	0.41	5.12	1.93	2.78	9.84
Chisel Plow(Folding)	16'	2WD 130	12,422	150	12	0.115	1.26	1.90	0.51	0.27	3.95	1.02	1.85	6.83
Chisel Plow(Folding)	24'	MFWD 190	25,073	150	12	0.076	0.83	1.83	0.69	0.28	3.64	1.37	1.98	6.99
Chisel Plow(Folding)	32'	MFWD 225	30,224	150	12	0.057	0.63	1.64	0.63	0.26	3.17	1.24	1.85	6.27
Chisel Plow(Folding)	42'	MFWD 225	34,465	150	12	0.044	0.48	1.25	0.54	0.20	2.48	1.08	1.41	4.98
Chisel Plow(Folding)	50'	MFWD 225	53,437	150	10	0.036	0.40	1.05	0.85	0.16	2.48	1.56	1.18	5.23
Chisel Plow(Rigid)	15'	2WD 130	9,338	150	12	0.123	1.34	2.02	0.41	0.29	4.08	0.82	1.97	6.87
Chisel Plow(Rigid)	24'	MFWD 190	8,244	150	12	0.077	0.84	1.85	0.22	0.28	3.20	0.45	1.99	5.65
Chisel-Harrow	21 shank	2WD 190	8,951	150	12	0.088	0.96	2.11	0.28	0.30	3.66	0.56	2.12	6.34
Chisel-Harrow	27 shank	MFWD 225	11,186	150	12	0.068	0.74	1.95	0.27	0.31	3.28	0.54	2.19	6.03
Colter-Chisel-Harrow	21 shank	2WD 190	15,679	150	12	0.088	0.96	2.11	0.49	0.30	3.87	0.98	2.12	6.98
Colter-Chisel-Harrow	27 shank	MFWD 225	19,837	150	12	0.068	0.74	1.95	0.49	0.31	3.50	0.97	2.19	6.67
Corn Grain Cart 8R30	500 bu	MFWD 190	16,979	200	12	0.031	0.34	0.76	0.14	0.11	1.38	0.29	0.82	2.49
Corn Grain Cart 8R38	700 bu	MFWD 190	23,337	200	12	0.025	0.27	0.60	0.15	0.09	1.12	0.31	0.64	2.08
Cult & Post	4R-30	2WD 105	15,184	150	10	0.220	3.30	2.92	0.89	0.25	7.37	2.64	1.74	11.76
Cult & Post	4R-38	2WD 105	15,243	150	10	0.173	2.59	2.30	0.70	0.20	5.80	2.09	1.37	9.27
Cult & Post	6R-30	MFWD 150	19,672	150	10	0.146	2.20	2.78	0.76	0.46	6.22	2.28	3.15	11.66
Cult & Post	6R-38	MFWD 150	21,022	150	10	0.115	1.73	2.19	0.64	0.36	4.95	1.92	2.49	9.37
Cult & Post	8R-30	MFWD 190	22,731	150	10	0.110	1.65	2.64	0.66	0.40	5.37	1.97	2.85	10.20
Cult & Post	8R-38	MFWD 190	25,776	150	10	0.086	1.30	2.09	0.59	0.32	4.31	1.77	2.25	8.34
Cult & Post	8R-38 2x1	MFWD 190	36,848	150	10	0.057	0.86	1.39	0.56	0.21	3.04	1.68	1.50	6.23
Cult & Post	10R-30	MFWD 225	30,843	150	10	0.088	1.32	2.50	0.72	0.40	4.95	2.14	2.82	9.92
Cult & Post	12R-30	MFWD 225	38,690	150	10	0.073	1.10	2.08	0.75	0.33	4.28	2.24	2.35	8.88
Cult & Post	12R-38	MFWD 225	36,848	150	10	0.057	0.86	1.64	0.56	0.26	3.35	1.68	1.85	6.90
Cult & Post	16R-30	MFWD 225	45,579	150	10	0.055	0.82	1.56	0.66	0.25	3.31	1.98	1.76	7.06
Cultipacker	12'	2WD 130	4,640	300	12	0.124	1.35	2.04	0.13	0.29	3.83	0.21	1.99	6.04
Cultipacker	20'	MFWD 150	12,011	300	12	0.074	0.81	1.41	0.21	0.23	2.68	0.32	1.60	4.61
Cultivate	4R-30	2WD 105	9,689	150	10	0.206	2.25	2.74	0.53	0.34	5.87	1.58	2.35	9.81
Cultivate	4R-38	2WD 105	9,748	150	10	0.162	1.77	2.15	0.42	0.19	4.54	1.25	1.28	7.08
Cultivate	6R-30	MFWD 150	14,177	150	10	0.137	1.50	2.61	0.51	0.43	5.07	1.54	2.95	9.57
Cultivate	6R-38	MFWD 150	15,527	150	10	0.108	1.18	2.06	0.44	0.34	4.04	1.33	2.33	7.71
Cultivate	8R-30	MFWD 190	17,236	150	10	0.103	1.12	2.48	0.47	0.38	4.46	1.40	2.67	8.54
Cultivate	8R-38	MFWD 190	20,281	150	10	0.081	0.88	1.96	0.44	0.30	3.59	1.30	2.11	7.01

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (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-----							
Cultivate	8R-38 2x1	MFWD 190	30,828	150	10	0.054	0.59	1.30	0.44	0.20	2.54	1.32	1.40	5.27
Cultivate	10R-30	MFWD 225	25,348	150	10	0.082	0.90	2.35	0.55	0.37	4.18	1.65	2.64	8.49
Cultivate	12R-30	MFWD 225	28,375	150	10	0.068	0.75	1.95	0.52	0.31	3.54	1.54	2.20	7.29
Cultivate	12R-38	MFWD 225	30,828	150	10	0.054	0.59	1.54	0.44	0.24	2.83	1.32	1.74	5.90
Cultivate	16R-30	MFWD 225	40,084	150	10	0.051	0.56	1.46	0.55	0.23	2.81	1.63	1.65	6.11
Disk & Incorporate	14'	2WD 130	22,039	200	10	0.149	2.24	2.46	0.98	0.35	6.05	1.95	2.39	10.41
Disk & Incorporate	24'	MFWD 190	34,957	200	10	0.087	1.30	2.10	0.91	0.32	4.64	1.81	2.26	8.72
Disk & Incorporate	28'	MFWD 225	38,796	200	10	0.074	1.12	2.13	0.87	0.34	4.46	1.72	2.40	8.59
Disk & Incorporate	32'	MFWD 225	43,916	200	10	0.065	0.98	1.86	0.86	0.30	4.01	1.70	2.10	7.82
Disk Bed (Hipper)	4R-38	MFWD 150	7,781	160	10	0.147	1.61	2.80	0.28	0.47	5.17	0.85	3.17	9.20
Disk Bed (Hipper)	6R-30	MFWD 170	12,271	160	10	0.125	1.36	2.69	0.38	0.45	4.89	1.13	3.19	9.23
Disk Bed (Hipper)	6R-38	MFWD 170	12,271	160	10	0.098	1.07	2.12	0.30	0.36	3.86	0.89	2.52	7.28
Disk Bed (Hipper)	8R-30	MFWD 190	13,070	160	10	0.093	1.02	2.25	0.30	0.34	3.93	0.90	2.42	7.27
Disk Bed (Hipper)	8R-38 2x1	MFWD 190	24,825	160	10	0.049	0.53	1.18	0.30	0.18	2.21	0.90	1.27	4.40
Disk Bed (Hipper)	10R-30	MFWD 225	17,142	160	10	0.075	0.81	2.13	0.32	0.34	3.62	0.95	2.40	6.98
Disk Bed (Hipper)	10R-38	MFWD 225	18,026	160	10	0.059	0.64	1.68	0.26	0.27	2.86	0.79	1.89	5.55
Disk Bed (Hipper)	12R-30	MFWD 225	19,414	160	10	0.062	0.68	1.78	0.30	0.28	3.05	0.90	2.00	5.96
Disk Bed (Hipper)	12R-38	MFWD 225	24,825	160	10	0.049	0.53	1.40	0.30	0.22	2.47	0.90	1.58	4.97
Disk Bed (Hipper)Fld	8R-38	MFWD 190	18,404	160	10	0.074	0.80	1.78	0.34	0.27	3.20	1.01	1.92	6.13
Disk Bed (Hipper)Rdg	8R-38	MFWD 190	16,166	160	10	0.074	0.80	1.78	0.29	0.27	3.16	0.88	1.92	5.97
Disk Bed w/roller	8R-30	MFWD 190	15,186	160	10	0.093	1.02	2.25	0.35	0.34	3.98	1.05	2.42	7.46
Disk Bed w/roller	12R-30	MFWD 225	26,498	160	10	0.062	0.68	1.78	0.41	0.28	3.16	1.22	2.00	6.39
Disk Harrow	14'	2WD 130	16,544	180	10	0.140	1.53	2.30	0.64	0.33	4.81	1.53	2.24	8.59
Disk Harrow	24'	MFWD 190	29,462	180	10	0.081	0.89	1.96	0.66	0.30	3.83	1.59	2.12	7.54
Disk Harrow	28'	MFWD 225	33,301	180	10	0.070	0.76	1.99	0.64	0.32	3.73	1.54	2.25	7.52
Disk Harrow	32'	MFWD 225	38,421	180	10	0.061	0.66	1.74	0.65	0.28	3.35	1.55	1.97	6.88
Ditcher	2WD 130	2WD 130	4,717	200	10	0.020	0.21	0.32	0.03	0.04	0.63	0.05	0.32	1.00
Ditcher (1m/160a)	2WD 130	2WD 130	4,717	200	10	0.009	0.10	0.15	0.01	0.02	0.29	0.02	0.15	0.47
Fert Appl (Liquid)	4R-38	MFWD 150	12,995	150	8	0.154	2.32	2.93	1.33	0.49	7.09	1.69	3.32	12.11
Fert Appl (Liquid)	6R-30	MFWD 170	15,834	150	8	0.130	1.96	2.81	1.38	0.47	6.64	1.74	3.35	11.74
Fert Appl (Liquid)	6R-38	MFWD 170	12,360	150	8	0.103	1.55	2.22	0.85	0.37	5.00	1.07	2.64	8.72
Fert Appl (Liquid)	8R-30	MFWD 190	15,032	150	8	0.098	1.47	2.36	0.98	0.36	5.18	1.24	2.54	8.97
Fert Appl (Liquid)	8R-38	MFWD 190	14,694	150	8	0.077	1.16	1.86	0.76	0.28	4.08	0.96	2.01	7.05
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	17,350	150	8	0.051	0.77	1.24	0.59	0.19	2.80	0.75	1.33	4.90
Fert Appl (Liquid)	10R-30	MFWD 225	15,757	150	8	0.078	1.17	2.23	0.82	0.35	4.60	1.04	2.52	8.17
Fert Appl (Liquid)	10R-38	MFWD 225	17,187	150	8	0.061	0.92	1.76	0.70	0.28	3.68	0.89	1.98	6.57
Fert Appl (Liquid)	12R-30	MFWD 225	17,187	150	8	0.078	1.17	2.23	0.90	0.35	4.67	1.13	2.52	8.33
Fert Appl (Liquid)	12R-38	MFWD 225	17,350	150	8	0.051	0.77	1.47	0.59	0.23	3.08	0.75	1.66	5.49
Field Cult & Inc	42'	MFWD 225	43,618	100	10	0.037	0.56	1.07	0.41	0.17	2.22	1.95	1.21	5.39
Field Cult & Inc	50'	MFWD 225	52,836	100	10	0.031	0.47	0.90	0.41	0.14	1.94	1.99	1.01	4.95
Field Cult & Inc Fld	24'	MFWD 170	24,679	100	10	0.066	0.99	1.42	0.40	0.24	3.06	1.93	1.69	6.69
Field Cult & Inc Fld	32'	MFWD 190	33,211	100	10	0.049	0.74	1.19	0.41	0.18	2.53	1.95	1.28	5.77
Field Cult & Inc Rdg	12'	2WD 150	13,605	100	10	0.132	1.98	2.51	0.44	0.36	5.30	2.13	2.46	9.90
Field Cultivate	42'	MFWD 225	37,598	100	10	0.035	0.38	1.01	0.33	0.16	1.89	1.58	1.14	4.62
Field Cultivate	50'	MFWD 225	46,014	100	10	0.029	0.32	0.85	0.34	0.13	1.65	1.63	0.95	4.24
Field Cultivate Fld	24'	MFWD 170	19,184	100	10	0.062	0.67	1.33	0.29	0.22	2.54	1.41	1.59	5.55
Field Cultivate Fld	32'	MFWD 190	27,716	100	10	0.046	0.50	1.12	0.32	0.17	2.12	1.53	1.20	4.87
Field Cultivate Rdg	12'	2WD 150	8,110	100	10	0.124	1.35	2.36	0.25	0.34	4.31	1.19	2.31	7.83
Grain Drill	8'	2WD 130	19,229	150	8	0.235	4.50	3.87	1.69	0.55	10.64	3.67	3.77	18.09
Grain Drill	10'	2WD 130	21,337	150	8	0.188	3.60	3.10	1.50	0.44	8.66	3.26	3.02	14.94
Grain Drill	12'	2WD 130	16,364	150	8	0.157	3.00	2.58	0.96	0.37	6.92	2.08	2.51	11.52
Grain Drill	15'	MFWD 150	22,094	150	8	0.125	2.40	2.38	1.04	0.40	6.23	2.25	2.70	11.18
Grain Drill	15'11R/15"	MFWD 150	27,520	150	8	0.125	2.40	2.38	1.29	0.40	6.48	2.80	2.70	11.99
Grain Drill	20'	MFWD 170	31,813	150	8	0.094	1.80	2.02	1.12	0.34	5.29	2.43	2.41	10.14
Grain Drill	20'15R/15"	MFWD 170	32,226	150	8	0.094	1.80	2.02	1.13	0.34	5.31	2.46	2.41	10.19
Grain Drill	24'	MFWD 190	40,244	150	8	0.078	1.50	1.89	1.18	0.29	4.86	2.56	2.03	9.46
Grain Drill	25'15R/15"	MFWD 190	38,868	150	8	0.075	1.44	1.81	1.09	0.27	4.63	2.37	1.95	8.96
Grain Drill	30'	MFWD 225	45,658	150	8	0.062	1.20	1.79	1.07	0.28	4.35	2.32	2.01	8.70
Grain Drill	30'24R/15"	MFWD 225	51,181	150	8	0.062	1.20	1.79	1.20	0.28	4.48	2.60	2.01	9.11
Grain Drill	35'	MFWD 225	60,963	150	8	0.053	1.02	1.53	1.23	0.24	4.04	2.66	1.73	8.43
Grain Drill	40'	MFWD 225	82,954	150	8	0.047	0.90	1.34	1.46	0.21	3.92	3.16	1.51	8.60
Grain Drill & Pre	8'	2WD 130	24,723	150	8	0.253	4.84	4.17	2.35	0.60	11.98	5.08	4.06	21.13
Grain Drill & Pre	10'	2WD 130	26,831	150	8	0.203	3.87	3.34	2.04	0.48	9.74	4.41	3.25	17.41
Grain Drill & Pre	12'	2WD 130	21,859	150	8	0.169	3.23	2.78	1.38	0.40	7.80	2.99	2.71	13.51
Grain Drill & Pre	15'	MFWD 150	27,589	150	8	0.135	2.58	2.57	1.40	0.43	6.98	3.02	2.91	12.93
Grain Drill & Pre	15'11R/15"	MFWD 150	33,015	150	8	0.135	2.58	2.57	1.67	0.43	7.26	3.62	2.91	13.80
Grain Drill & Pre	20'	MFWD 170	37,308	150	8	0.101	1.93	2.18	1.42	0.37	5.91	3.07	2.59	11.58
Grain Drill & Pre	20'15R/15"	MFWD 170	37,721	150	8	0.101	1.93	2.18	1.43	0.37	5.93	3.10	2.59	11.63
Grain Drill & Pre	24'	MFWD 190	45,739	150	8	0.084	1.61	2.03	1.45	0.31	5.41	3.13	2.19	10.74
Grain Drill & Pre	25'15R/15"	MFWD 190	44,363	150	8	0.081	1.55	1.95	1.35	0.30	5.15	2.92	2.10	10.18
Grain Drill & Pre	30'	MFWD 225	51,153	150	8	0.067	1.29	1.92	1.29	0.31	4.82	2.80	2.17	9.81
Grain Drill & Pre	30'24R/15"	MFWD 225	56,429	150	8	0.067	1.29	1.92	1.43	0.31	4.96	3.09	2.17	10.23

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost	
									Imp.	P.U.		Imp.	P.U.		
			dollars	hours	years	hr/ac	---\$/acre---								
Grain Drill & Pre	35'	MFWD 225	66,458	150	8	0.058	1.10	1.65	1.44	0.26	4.47	3.12	1.86	9.46	
Grain Drill & Pre	40'	MFWD 225	88,450	150	8	0.050	0.96	1.44	1.68	0.23	4.33	3.64	1.63	9.60	
Harrow Fld	40'	MFWD 190	10,620	200	10	0.038	0.42	0.93	0.14	0.14	1.64	0.24	1.00	2.89	
Harrow Rdg	13'	2WD 130	3,690	200	10	0.119	1.30	1.96	0.15	0.28	3.70	0.26	1.91	5.88	
Harrow Rdg	21'	2WD 150	4,590	200	10	0.073	0.80	1.40	0.11	0.20	2.53	0.20	1.37	4.11	
Harrow Rdg	30'	MFWD 190	7,740	200	10	0.051	0.56	1.24	0.14	0.19	2.14	0.23	1.34	3.72	
Header - Corn	4R-38	275hp	25,147	300	8	0.201	2.19	7.00	1.26	4.07	14.53	2.13	17.79	34.46	
Header - Corn	6R30"	275hp	33,754	300	8	0.170	1.85	5.92	1.43	3.45	12.67	2.42	15.06	30.16	
Header - Corn	6R38"	275hp	34,739	300	8	0.134	1.46	4.67	1.16	2.72	10.03	1.96	11.89	23.90	
Header - Corn	8R-30	275hp	43,818	300	8	0.127	1.39	4.44	1.39	2.59	9.82	2.35	11.30	23.48	
Header - Corn	8R-38	325hp	44,579	300	8	0.100	1.10	4.15	1.12	2.39	8.78	1.89	10.46	21.14	
Header - Corn	12R-20	325hp	59,449	300	8	0.127	1.39	5.25	1.89	3.03	11.58	3.20	13.23	28.02	
Header - Corn	12R-30	325hp	66,811	300	8	0.085	0.92	3.50	1.42	2.02	7.87	2.39	8.82	19.10	
Header - Draper (CL)	25' Rigid	275hp	28,742	300	8	0.203	2.21	7.06	1.33	4.11	14.74	2.36	17.96	35.07	
Header - Draper (CL)	30' Rigid	325hp	33,836	300	8	0.169	1.84	6.96	1.31	4.02	14.14	2.32	17.54	34.00	
Header - Draper (CL)	36' Rigid	370hp	36,066	300	8	0.141	1.53	6.60	1.16	3.52	12.83	2.06	15.39	30.29	
Header - Draper (SL)	25' Rigid	325hp	28,742	300	8	0.176	1.92	7.24	1.15	4.18	14.50	2.05	18.24	34.80	
Header - Draper (SL)	30' Rigid	325hp	33,836	300	8	0.146	1.60	6.03	1.13	3.48	12.25	2.01	15.20	29.47	
Header - Draper (SL)	36' Rigid	370hp	36,066	300	8	0.122	1.33	5.72	1.01	3.05	11.12	1.78	13.33	26.25	
Header - Rice (CL)	22' Rigid	275hp	21,887	300	8	0.288	3.14	10.04	1.57	5.85	20.61	2.66	25.52	48.80	
Header - Rice (CL)	25' Rigid	325hp	29,405	300	8	0.253	2.76	10.44	1.86	6.03	21.11	3.14	26.31	50.57	
Header - Rice (CL)	30' Rigid	325hp	26,406	300	8	0.211	2.30	8.70	1.39	5.02	17.43	2.35	21.93	41.72	
Header - Rice (SL)	22' Rigid	325hp	21,887	300	8	0.250	2.72	10.28	1.36	5.94	20.32	2.30	25.91	48.54	
Header - Rice (SL)	25' Rigid	325hp	29,405	300	8	0.220	2.40	9.05	1.61	5.22	18.29	2.72	22.80	43.83	
Header - Rice (SL)	30' Rigid	325hp	26,406	300	8	0.183	2.00	7.54	1.21	4.35	15.11	2.04	19.00	36.15	
Header - Soybean	18' Flex	275hp	20,309	300	8	0.141	1.54	4.93	0.72	2.87	10.08	1.21	12.55	23.85	
Header - Soybean	22' Flex	275hp	22,537	300	8	0.116	1.26	4.04	0.65	2.35	8.31	1.10	10.27	19.69	
Header - Soybean	25' Flex	325hp	24,801	300	8	0.102	1.11	4.20	0.63	2.42	8.38	1.06	10.59	20.04	
Header - Soybean	30' Flex	325hp	28,376	300	8	0.085	0.92	3.50	0.60	2.02	7.05	1.01	8.82	16.90	
Header - Soybean	35' Flex	370hp	33,556	300	8	0.072	0.79	3.41	0.61	1.82	6.65	1.03	7.96	15.64	
Header Wheat/Sorghum	18' Rigid	275hp	19,069	300	8	0.141	1.54	4.93	0.67	2.87	10.04	1.14	12.55	23.73	
Header Wheat/Sorghum	22' Rigid	275hp	19,323	300	8	0.116	1.26	4.04	0.56	2.35	8.22	0.94	10.27	19.44	
Header Wheat/Sorghum	25' Rigid	325hp	21,281	300	8	0.102	1.11	4.20	0.54	2.42	8.29	0.91	10.59	19.79	
Header Wheat/Sorghum	30' Rigid	325hp	23,782	300	8	0.085	0.92	3.50	0.50	2.02	6.96	0.85	8.82	16.64	
Header-Cotton Bcast	13'	173 hp	18,000	200	8	0.251	4.80	5.00	0.84	5.28	15.94	2.86	23.05	41.86	
Header-Cotton-Bcast	16'	173 hp	21,060	200	8	0.204	3.90	4.06	0.80	4.29	13.07	2.72	18.72	34.52	
Header-Cotton-Bcast	19'	173 hp	22,770	200	8	0.172	3.29	3.42	0.73	3.61	11.06	2.48	15.77	29.32	
Header-Cotton-Brush	4R-30 2x1	173 hp	25,160	200	8	0.218	4.16	4.33	1.02	4.57	14.11	3.47	19.97	37.56	
Header-Cotton-Brush	4R-36	173 hp	24,937	200	8	0.272	5.21	5.42	1.27	5.72	17.63	4.30	24.97	46.90	
Header-Cotton-Brush	4R-38	173 hp	24,907	200	8	0.257	4.92	5.12	1.20	5.40	16.65	4.06	23.59	44.31	
Header-Cotton-Brush	4R-38 2x1	173 hp	26,355	200	8	0.172	3.29	3.42	0.85	3.61	11.18	2.87	15.77	29.82	
Header-Cotton-Brush	5R-30	173 hp	31,354	200	8	0.261	5.00	5.20	1.53	5.49	17.24	5.19	23.97	46.40	
Header-Cotton-Brush	5R-38	173 hp	32,585	200	8	0.207	3.95	4.11	1.26	4.34	13.68	4.27	18.96	36.92	
Header-Cotton-Brush	6R-30	173 hp	38,857	200	8	0.218	4.16	4.33	1.59	4.57	14.67	5.36	19.97	40.01	
Header-Cotton-Brush	6R-38	173 hp	39,961	200	8	0.172	3.29	3.42	1.29	3.61	11.62	4.35	15.77	31.74	
Header-Cotton-Brush	8R-30	173 hp	53,248	200	8	0.163	3.12	3.25	1.63	3.43	11.44	5.51	14.98	31.94	
Header-Cotton-Brush	8R-36/38	173 hp	54,684	200	8	0.129	2.47	2.57	1.32	2.71	9.08	4.47	11.84	25.40	
Heavy Disk	14'	MFWD 150	18,791	180	10	0.145	1.59	2.77	0.76	0.46	5.59	1.80	3.14	10.54	
Heavy Disk	21'	MFWD 170	23,720	180	10	0.097	1.06	2.09	0.64	0.35	4.15	1.52	2.48	8.16	
Heavy Disk	27'	MFWD 190	34,304	180	10	0.075	0.82	1.82	0.72	0.27	3.64	1.71	1.96	7.32	
Land Plane	50'x16'	MFWD 190	7,466	200	10	0.151	1.65	3.64	0.22	0.56	6.09	0.67	3.93	10.69	
Levee Pull (1m/80a)	8 blade	MFWD 170	7,508	100	10	0.003	0.03	0.07	0.00	0.01	0.13	0.03	0.09	0.25	
Levee Splitter (1/80)	8 blade	MFWD 150	7,508	100	10	0.004	0.04	0.07	0.00	0.01	0.14	0.03	0.08	0.27	
Middle Buster	4R-38	MFWD 150	8,279	160	8	0.228	2.49	4.33	0.44	0.72	8.00	1.55	4.91	14.46	
Middle Buster	6R-38	MFWD 150	10,503	160	8	0.120	1.31	2.28	0.29	0.38	4.27	1.03	2.58	7.89	
Middle Buster	8R-30	MFWD 190	15,548	160	8	0.114	1.24	2.74	0.41	0.42	4.83	1.45	2.95	9.24	
Middle Buster	8R-38	MFWD 190	14,075	160	8	0.090	0.98	2.17	0.29	0.33	3.78	1.04	2.33	7.17	
Middle Buster	8R-38 2x1	MFWD 190	23,063	160	8	0.060	0.65	1.44	0.32	0.22	2.64	1.13	1.55	5.34	
Middle Buster	10R-30	MFWD 225	17,561	160	8	0.091	0.99	2.60	0.37	0.41	4.39	1.31	2.93	8.64	
Middle Buster	10R-38	MFWD 225	18,654	160	8	0.072	0.78	2.05	0.31	0.33	3.48	1.10	2.31	6.90	
Middle Buster	12R-38	MFWD 225	23,063	160	8	0.060	0.65	1.71	0.32	0.27	2.96	1.13	1.93	6.03	
Module Builder-1st	4R-30(250)	MFWD 190	35,588	200	10	0.327	6.25	7.87	2.91	1.21	18.25	6.70	8.48	33.44	
Module Builder-1st	4R-30(325)	MFWD 190	35,588	200	10	0.327	6.25	7.87	2.91	1.21	18.25	6.70	8.48	33.44	
Module Builder-1st	4R-38(255)	MFWD 190	35,588	200	10	0.257	4.92	6.20	2.29	0.95	14.37	5.27	6.68	26.33	
Module Builder-1st	4R-38(325)	MFWD 190	35,588	200	10	0.257	4.92	6.20	2.29	0.95	14.37	5.27	6.68	26.33	
Module Builder-1st	4R2x1(350)	MFWD 190	35,588	200	10	0.172	3.29	4.14	1.53	0.63	9.60	3.52	4.46	17.60	
Module Builder-1st	5R-30(255)	MFWD 190	35,588	200	10	0.261	5.00	6.30	2.33	0.96	14.60	5.36	6.78	26.75	
Module Builder-1st	5R-38(250)	MFWD 190	35,588	200	10	0.207	3.95	4.98	1.84	0.76	11.55	4.24	5.36	21.16	
Module Builder-1st	6R-30(325)	MFWD 190	35,588	200	10	0.218	4.16	5.25	1.94	0.80	12.16	4.47	5.65	22.29	
Module Builder-1st	6R-38(330)	MFWD 190	35,588	200	10	0.172	3.29	4.14	1.53	0.63	9.60	3.52	4.46	17.60	
Module Builder-2nd	4R-30(250)	MFWD 190	35,588	200	10	0.277	5.29	6.67	2.46	1.02	15.46	5.67	7.18	28.32	
Module Builder-2nd	4R-30(325)	MFWD 190	35,588	200	10	0.277	5.29	6.67	2.46	1.02	15.46	5.67	7.18	28.32	

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (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-2nd	4R-38(255)	MFWD 190	35,588	200	10	0.218	4.17	5.25	1.94	0.80	12.17	4.47	5.65	22.30
Module Builder-2nd	4R-38(325)	MFWD 190	35,588	200	10	0.218	4.17	5.25	1.94	0.80	12.17	4.47	5.65	22.30
Module Builder-2nd	4R2x1(350)	MFWD 190	35,588	200	10	0.145	2.78	3.51	1.29	0.53	8.13	2.98	3.78	14.90
Module Builder-2nd	5R-30(255)	MFWD 190	35,588	200	10	0.221	4.23	5.33	1.97	0.82	12.36	4.54	5.74	22.66
Module Builder-2nd	5R-38(250)	MFWD 190	35,588	200	10	0.175	3.35	4.22	1.56	0.64	9.78	3.59	4.54	17.92
Module Builder-2nd	6R-30(325)	MFWD 190	35,588	200	10	0.184	3.53	4.44	1.64	0.68	10.30	3.78	4.79	18.88
Module Builder-2nd	6R-38(330)	MFWD 190	35,588	200	10	0.145	2.78	3.51	1.29	0.53	8.13	2.98	3.78	14.90
Module Builder-Strip	13' Bcast	MFWD 150	35,588	200	10	0.251	4.80	4.78	2.24	0.80	12.63	5.15	5.41	23.21
Module Builder-Strip	16' Bcast	MFWD 150	35,588	200	10	0.204	3.90	3.88	1.82	0.65	10.26	4.19	4.40	18.86
Module Builder-Strip	19' Bcast	MFWD 150	35,588	200	10	0.172	3.29	3.27	1.53	0.54	8.64	3.52	3.70	15.88
Module Builder-Strip	4R-30 2x1	MFWD 150	35,588	200	10	0.218	4.16	4.14	1.94	0.69	10.95	4.47	4.69	20.11
Module Builder-Strip	4R-36	MFWD 150	35,588	200	10	0.272	5.21	5.18	2.42	0.87	13.69	5.58	5.87	25.14
Module Builder-Strip	4R-38	MFWD 150	35,588	200	10	0.257	4.92	4.89	2.29	0.82	12.93	5.27	5.54	23.76
Module Builder-Strip	4R-38 2x1	MFWD 150	35,588	200	10	0.172	3.29	3.27	1.53	0.54	8.64	3.52	3.70	15.88
Module Builder-Strip	5R-30	MFWD 150	35,588	200	10	0.261	5.00	4.97	2.33	0.83	13.14	5.36	5.63	24.14
Module Builder-Strip	5R-38	MFWD 150	35,588	200	10	0.207	3.95	3.93	1.84	0.66	10.39	4.24	4.45	19.09
Module Builder-Strip	6R-30	MFWD 150	35,588	200	10	0.218	4.16	4.14	1.94	0.69	10.95	4.47	4.69	20.11
Module Builder-Strip	6R-38	MFWD 190	35,588	200	10	0.172	3.29	4.14	1.53	0.63	9.60	3.52	4.46	17.60
Module Builder-Strip	8R-36/38	MFWD 190	35,588	200	10	0.129	2.47	3.11	1.15	0.47	7.21	2.65	3.35	13.21
NT Grain Drill	10'	2WD 130	25,016	150	8	0.235	4.50	3.87	2.21	0.55	11.15	4.77	3.77	19.71
NT Grain Drill	12'	2WD 130	29,184	150	8	0.163	3.12	2.69	1.79	0.38	8.00	3.87	2.62	14.49
NT Grain Drill	15'	MFWD 150	35,830	150	8	0.130	2.50	2.48	1.75	0.41	7.16	3.80	2.81	13.78
NT Grain Drill	20'	MFWD 170	47,785	150	8	0.098	1.87	2.11	1.75	0.35	6.10	3.80	2.51	12.42
NT Grain Drill	24'	MFWD 190	73,143	150	8	0.081	1.56	1.96	2.24	0.30	6.08	4.85	2.12	13.05
NT Grain Drill	30'	MFWD 225	72,485	150	8	0.065	1.25	1.86	1.77	0.30	5.19	3.84	2.10	11.14
NT Grain Drill & Pre	10'	2WD 130	30,511	150	8	0.211	4.04	3.48	2.42	0.50	10.44	5.23	3.38	19.06
NT Grain Drill & Pre	12'	2WD 130	34,679	150	8	0.176	3.36	2.90	2.29	0.41	8.97	4.95	2.82	16.76
NT Grain Drill & Pre	15'	MFWD 150	41,325	150	8	0.141	2.69	2.67	2.18	0.44	8.00	4.72	3.03	15.76
NT Grain Drill & Pre	20'	MFWD 170	53,280	150	8	0.105	2.02	2.27	2.11	0.38	6.79	4.56	2.70	14.07
NT Grain Drill & Pre	24'	MFWD 190	78,638	150	8	0.088	1.68	2.12	2.59	0.32	6.72	5.61	2.28	14.63
NT Grain Drill & Pre	30'	MFWD 225	77,980	150	8	0.070	1.34	2.00	2.06	0.32	5.74	4.45	2.26	12.46
NT Plant&Pre-Folding	8R-38	MFWD 170	46,723	150	8	0.083	1.59	1.79	1.46	0.30	5.16	3.16	2.13	10.47
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	61,533	150	8	0.055	1.06	1.19	1.28	0.20	3.74	2.77	1.42	7.95
NT Plant&Pre-Folding	10R-30	MFWD 190	57,555	150	8	0.084	1.61	2.03	1.82	0.31	5.79	3.94	2.19	11.93
NT Plant&Pre-Folding	10R-38	MFWD 190	52,893	150	8	0.066	1.27	1.60	1.32	0.24	4.45	2.86	1.72	9.04
NT Plant&Pre-Folding	12R-20	MFWD 190	57,452	150	8	0.105	2.02	2.54	2.27	0.39	7.23	4.92	2.74	14.90
NT Plant&Pre-Folding	12R-30	MFWD 190	61,566	150	8	0.070	1.34	1.69	1.62	0.26	4.93	3.51	1.82	10.27
NT Plant&Pre-Folding	12R-38	MFWD 190	61,553	150	8	0.055	1.06	1.33	1.28	0.20	3.89	2.77	1.44	8.11
NT Plant&Pre-Folding	16R-30	MFWD 190	86,279	150	8	0.052	1.01	1.27	1.71	0.19	4.18	3.69	1.37	9.25
NT Plant&Pre-Folding	23R-15	MFWD 190	99,841	150	8	0.073	1.40	1.76	2.75	0.27	6.19	5.94	1.90	14.03
NT Plant&Pre-Folding	24R-15	MFWD 225	101,826	150	8	0.070	1.34	2.00	2.69	0.32	6.37	5.82	2.26	14.45
NT Plant&Pre-Folding	24R-20	MFWD 190	112,054	150	8	0.052	1.01	1.27	2.22	0.19	4.69	4.80	1.37	10.87
NT Plant&Pre-Folding	24R-30	MFWD 190	140,423	150	8	0.035	0.67	0.84	1.85	0.13	3.50	4.01	0.91	8.43
NT Plant&Pre-Folding	31R-15	MFWD 225	126,689	150	8	0.054	1.04	1.55	2.59	0.25	5.44	5.61	1.75	12.81
NT Plant&Pre-Folding	32R-15	MFWD 225	128,605	150	8	0.052	1.01	1.50	2.55	0.24	5.30	5.51	1.69	12.52
NT Plant&Pre-Folding	32R-30	MFWD 225	209,979	150	8	0.026	0.50	0.75	2.08	0.12	3.46	4.50	0.84	8.81
NT Plant&Pre-Folding	36R-20	MFWD 225	139,367	150	8	0.035	0.67	1.00	1.84	0.16	3.68	3.98	1.13	8.79
NT Plant&Pre-Folding	36R-30	MFWD 225	215,244	150	8	0.023	0.44	0.66	1.89	0.10	3.12	4.10	0.75	7.97
NT Plant&Pre-Rigid	4R-30	2WD 130	23,638	150	8	0.211	4.04	3.48	1.87	0.50	9.90	4.05	3.38	17.34
NT Plant&Pre-Rigid	4R-38	2WD 130	23,687	150	8	0.166	3.18	2.74	1.47	0.39	7.79	3.19	2.66	13.66
NT Plant&Pre-Rigid	6R-30	MFWD 150	30,411	150	8	0.141	2.69	2.67	1.60	0.44	7.43	3.47	3.03	13.94
NT Plant&Pre-Rigid	6R-38	MFWD 150	30,249	150	8	0.111	2.12	2.11	1.26	0.35	5.85	2.73	2.39	10.98
NT Plant&Pre-Rigid	8R-30	MFWD 170	35,957	150	8	0.105	2.02	2.27	1.42	0.38	6.10	3.08	2.70	11.89
NT Plant&Pre-Rigid	8R-38	MFWD 170	32,670	150	8	0.083	1.59	1.79	1.02	0.30	4.72	2.21	2.13	9.08
NT Plant&Pre-Rigid	10R-30	MFWD 190	38,169	150	8	0.084	1.61	2.03	1.21	0.31	5.17	2.61	2.19	9.98
NT Plant&Pre-Rigid	11R-15	MFWD 170	41,286	150	8	0.143	2.74	3.09	2.22	0.52	8.59	4.81	3.68	17.09
NT Plant&Pre-Rigid	11R-20	MFWD 170	37,963	150	8	0.115	2.20	2.48	1.64	0.42	6.76	3.55	2.95	13.27
NT Plant&Pre-Rigid	12R-20	MFWD 190	51,926	150	8	0.105	2.02	2.54	2.05	0.39	7.01	4.45	2.74	14.20
NT Plant&Pre-Rigid	12R-30	MFWD 190	51,065	150	8	0.070	1.34	1.69	1.35	0.26	4.65	2.91	1.82	9.39
NT Plant&Pre-Rigid	13R-18/20	MFWD 225	47,400	150	8	0.097	1.86	2.77	1.73	0.44	6.81	3.74	3.13	13.69
NT Plant&Pre-Rigid	13R-36/40	MFWD 225	42,223	150	8	0.051	0.98	1.46	0.81	0.23	3.50	1.76	1.65	6.93
NT Plant&Pre-Rigid	15R-15	MFWD 190	52,240	150	8	0.113	2.16	2.72	2.21	0.41	7.51	4.79	2.93	15.23
NT Plant&Pre-Rigid	15R-20	MFWD 190	52,096	150	8	0.084	1.61	2.03	1.65	0.31	5.61	3.57	2.19	11.38
NT Plant&Pre-Rigid	16R-30	MFWD 225	91,735	150	8	0.052	1.01	1.50	1.81	0.24	4.57	3.93	1.69	10.20
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	97,347	150	8	0.055	1.06	1.58	2.03	0.25	4.93	4.39	1.78	11.11
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	75,173	150	8	0.083	1.59	2.38	2.35	0.38	6.71	5.09	2.68	14.49
NT Plant-Folding	8R-38	MFWD 170	41,228	150	8	0.077	1.48	1.67	1.20	0.28	4.63	2.59	1.98	9.21
NT Plant-Folding	8R-38 2x1	MFWD 170	55,533	150	8	0.051	0.98	1.11	1.07	0.18	3.36	2.32	1.32	7.01
NT Plant-Folding	10R-30	MFWD 190	52,061	150	8	0.078	1.50	1.89	1.53	0.29	5.21	3.31	2.03	10.56
NT Plant-Folding	10R-38	MFWD 190	47,646	150	8	0.061	1.18	1.49	1.10	0.22	4.01	2.39	1.60	8.00
NT Plant-Folding	12R-20	MFWD 190	51,957	150	8	0.098	1.87	2.36	1.91	0.36	6.51	4.13	2.54	13.19
NT Plant-Folding	12R-30	MFWD 190	56,071	150	8	0.065	1.25	1.57	1.37	0.24	4.44	2.97	1.69	9.11

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (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-----							
NT Plant-Folding	12R-38	MFWD 190	55,533	150	8	0.051	0.98	1.24	1.07	0.19	3.49	2.32	1.33	7.16
NT Plant-Folding	16R-30	MFWD 190	80,260	150	8	0.049	0.93	1.18	1.47	0.18	3.77	3.19	1.27	8.24
NT Plant-Folding	23R-15	MFWD 190	94,346	150	8	0.068	1.30	1.64	2.41	0.25	5.60	5.21	1.76	12.59
NT Plant-Folding	24R-15	MFWD 225	96,331	150	8	0.065	1.25	1.86	2.36	0.30	5.78	5.11	2.10	12.99
NT Plant-Folding	24R-20	MFWD 190	106,034	150	8	0.049	0.93	1.18	1.95	0.18	4.25	4.22	1.27	9.74
NT Plant-Folding	24R-30	MFWD 190	132,842	150	8	0.032	0.62	0.78	1.63	0.12	3.16	3.52	0.84	7.53
NT Plant-Folding	31R-15	MFWD 225	119,109	150	8	0.050	0.96	1.44	2.26	0.23	4.91	4.90	1.63	11.44
NT Plant-Folding	32R-15	MFWD 225	121,025	150	8	0.049	0.93	1.39	2.22	0.22	4.79	4.81	1.57	11.18
NT Plant-Folding	32R-30	MFWD 225	202,399	150	8	0.024	0.46	0.69	1.86	0.11	3.14	4.02	0.78	7.96
NT Plant-Folding	36R-20	MFWD 225	131,787	150	8	0.032	0.62	0.93	1.61	0.15	3.32	3.49	1.05	7.87
NT Plant-Folding	36R-30	MFWD 225	207,664	150	8	0.021	0.41	0.62	1.69	0.10	2.83	3.67	0.70	7.21
NT Plant-Rigid	4R-30	2WD 130	18,143	150	8	0.196	3.75	3.23	1.33	0.46	8.78	2.88	3.14	14.82
NT Plant-Rigid	4R-38	2WD 130	18,192	150	8	0.154	2.95	2.54	1.05	0.36	6.92	2.28	2.47	11.68
NT Plant-Rigid	6R-30	MFWD 150	24,916	150	8	0.130	2.50	2.48	1.22	0.41	6.62	2.64	2.81	12.09
NT Plant-Rigid	6R-38	MFWD 150	24,754	150	8	0.103	1.97	1.96	0.95	0.32	5.22	2.07	2.22	9.52
NT Plant-Rigid	8R-30	MFWD 170	30,462	150	8	0.098	1.87	2.11	1.12	0.35	5.47	2.42	2.51	10.40
NT Plant-Rigid	8R-38	MFWD 170	27,175	150	8	0.077	1.48	1.67	0.79	0.28	4.22	1.71	1.98	7.92
NT Plant-Rigid	10R-30	MFWD 190	32,675	150	8	0.078	1.50	1.89	0.96	0.29	4.64	2.08	2.03	8.76
NT Plant-Rigid	11R-15	MFWD 170	35,791	150	8	0.133	2.55	2.87	1.79	0.48	7.70	3.87	3.41	15.00
NT Plant-Rigid	11R-20	MFWD 170	32,468	150	8	0.107	2.05	2.31	1.30	0.39	6.05	2.82	2.74	11.63
NT Plant-Rigid	12R-20	MFWD 190	46,431	150	8	0.098	1.87	2.36	1.71	0.36	6.31	3.69	2.54	12.55
NT Plant-Rigid	12R-30	MFWD 190	45,570	150	8	0.065	1.25	1.57	1.11	0.24	4.18	2.41	1.69	8.30
NT Plant-Rigid	13R-18/20	MFWD 225	41,380	150	8	0.090	1.73	2.59	1.41	0.41	6.15	3.05	2.92	12.12
NT Plant-Rigid	13R-36/40	MFWD 225	36,500	150	8	0.047	0.91	1.36	0.65	0.21	3.15	1.41	1.53	6.11
NT Plant-Rigid	15R-15	MFWD 190	46,220	150	8	0.105	2.00	2.52	1.82	0.38	6.74	3.93	2.72	13.39
NT Plant-Rigid	15R-20	MFWD 190	46,076	150	8	0.078	1.50	1.89	1.35	0.29	5.03	2.93	2.03	10.00
NT Plant-Rigid	16R-30	MFWD 225	85,715	150	8	0.049	0.93	1.39	1.57	0.22	4.14	3.41	1.57	9.13
NT Plant-TwinRow	12R-30/40	MFWD 225	91,328	150	8	0.051	0.98	1.47	1.77	0.23	4.46	3.82	1.66	9.95
NT Plant-TwinRow	8R-30/40	MFWD 225	69,678	150	8	0.077	1.48	2.21	2.02	0.35	6.07	4.38	2.49	12.95
Paratill & Bed Fold.	8R-38	MFWD 225	35,136	150	12	0.080	0.88	2.30	1.02	0.37	4.57	2.02	2.59	9.19
Paratill & Bed Fold.	8R-38 2x1	MFWD 225	48,077	150	12	0.053	0.58	1.53	0.93	0.24	3.29	1.84	1.72	6.87
Paratill & Bed Fold.	10R-30	MFWD 225	27,933	150	12	0.081	0.89	2.32	0.82	0.37	4.41	1.63	2.62	8.67
Paratill & Bed Fold.	12R-38	MFWD 225	48,077	150	12	0.053	0.58	1.53	0.93	0.24	3.29	1.84	1.72	6.87
Paratill & Bed Rigid	4R-30	MFWD 225	10,389	150	12	0.204	2.22	5.82	0.76	0.93	9.75	1.51	6.56	17.83
Paratill & Bed Rigid	4R-38	MFWD 225	11,137	150	12	0.160	1.75	4.58	0.64	0.73	7.72	1.28	5.16	14.17
Paratill & Bed Rigid	6R-30	MFWD 225	14,468	150	12	0.136	1.48	3.88	0.71	0.62	6.70	1.40	4.37	12.48
Paratill & Bed Rigid	6R-38	MFWD 225	17,739	150	12	0.107	1.17	3.06	0.68	0.49	5.41	1.36	3.45	10.23
Paratill & Bed Rigid	8R-30	MFWD 225	19,561	150	12	0.102	1.11	2.91	0.72	0.46	5.21	1.42	3.28	9.92
Paratill & Bed Rigid	8R-38	MFWD 225	22,598	150	12	0.080	0.88	2.30	0.65	0.37	4.21	1.30	2.59	8.10
Paratill & Bed Rigid	10R-30	MFWD 225	21,664	150	12	0.081	0.89	2.32	0.63	0.37	4.23	1.26	2.62	8.12
Peanut Cond. & Lifter	6-Row	MFWD 190	11,455	300	20	0.100	1.09	2.40	0.19	0.36	4.05	0.33	2.59	6.98
Peanut Conditioner	4-Row	MFWD 190	6,035	300	20	0.142	1.55	3.43	0.24	0.52	5.76	0.23	3.70	9.70
Peanut Conditioner	6-Row	MFWD 190	10,407	300	20	0.100	1.09	2.40	0.20	0.36	4.07	0.27	2.59	6.94
Peanut Dig/Invertor	4R-30	MFWD 190	20,563	300	15	0.235	2.57	5.67	1.20	0.87	10.32	1.64	6.11	18.08
Peanut Dig/Invertor	4R-38	MFWD 190	20,563	300	15	0.186	2.03	4.48	0.95	0.68	8.15	1.30	4.82	14.28
Peanut Dig/Invertor	6R-38	MFWD 190	29,188	300	15	0.124	1.35	2.98	0.63	0.45	5.43	1.23	3.21	9.87
Peanut Dump Cart	6-Row	MFWD 190	29,580	300	20	0.310	3.38	7.45	0.53	1.14	12.52	2.59	8.03	23.15
Peanut Harvester	4R-30	MFWD 225	101,125	300	20	1.176	12.83	33.51	6.74	5.39	58.48	31.73	37.78	128.00
Peanut Harvester	4R-38	MFWD 225	101,125	300	20	0.934	10.19	26.62	5.35	4.28	46.45	26.00	30.01	102.47
Peanut Harvester	6R-38	MFWD 225	118,913	300	20	0.625	6.81	17.80	3.59	2.86	31.08	20.44	20.07	71.60
Peanut Lifter	6-Row	MFWD 225	4,569	300	20	0.100	1.09	2.84	0.09	0.45	4.49	0.12	3.21	7.82
Peanut Plt&Pre Fold	12R-38	MFWD 190	55,991	150	8	0.080	1.53	1.93	1.68	0.29	5.45	3.64	2.08	11.18
Peanut Plt&Pre Rigid	8R-30	MFWD 190	32,249	150	8	0.152	2.91	3.67	1.84	0.56	9.00	3.99	3.95	16.95
Peanut Plt&Pre Rigid	8R-38	MFWD 190	27,175	150	8	0.120	2.30	2.90	1.23	0.44	6.88	2.66	3.12	12.67
Pipe Spool 160ac	1/4m roll	2WD 130	3,850	15	12	0.003	0.08	0.05	0.00	0.00	0.15	0.08	0.05	0.28
Pipe Trailer 1m/160a	30'	2WD 130	1,122	100	15	0.003	0.16	0.06	0.00	0.00	0.23	0.00	0.06	0.29
Plant & Pre-Folding	8R-38	MFWD 170	43,015	150	8	0.080	1.53	1.72	1.29	0.29	4.84	2.79	2.05	9.70
Plant & Pre-Folding	8R-38 2x1	MFWD 170	55,991	150	8	0.053	1.02	1.15	1.12	0.19	3.48	2.42	1.36	7.28
Plant & Pre-Folding	10R-30	MFWD 190	52,920	150	8	0.081	1.55	1.95	1.61	0.30	5.41	3.48	2.10	11.00
Plant & Pre-Folding	10R-38	MFWD 190	48,258	150	8	0.064	1.22	1.54	1.15	0.23	4.16	2.50	1.66	8.32
Plant & Pre-Folding	12R-20	MFWD 190	51,890	150	8	0.101	1.93	2.44	1.97	0.37	6.73	4.27	2.63	13.63
Plant & Pre-Folding	12R-30	MFWD 190	56,004	150	8	0.067	1.29	1.62	1.42	0.25	4.59	3.07	1.75	9.42
Plant & Pre-Folding	12R-38	MFWD 190	55,991	150	8	0.053	1.02	1.28	1.12	0.19	3.62	2.42	1.38	7.43
Plant & Pre-Folding	16R-30	MFWD 190	78,863	150	8	0.050	0.96	1.22	1.50	0.18	3.88	3.24	1.31	8.44
Plant & Pre-Folding	23R-15	MFWD 190	89,181	150	8	0.070	1.34	1.69	2.35	0.26	5.66	5.09	1.82	12.58
Plant & Pre-Folding	24R-15	MFWD 225	90,702	150	8	0.067	1.29	1.92	2.30	0.31	5.83	4.97	2.17	12.98
Plant & Pre-Folding	24R-20	MFWD 190	100,930	150	8	0.050	0.96	1.22	1.92	0.18	4.30	4.15	1.31	9.76
Plant & Pre-Folding	24R-30	MFWD 190	129,299	150	8	0.033	0.64	0.81	1.64	0.12	3.22	3.54	0.87	7.65
Plant & Pre-Folding	31R-15	MFWD 225	112,320	150	8	0.052	1.00	1.49	2.21	0.24	4.94	4.77	1.68	11.40
Plant & Pre-Folding	32R-15	MFWD 225	113,773	150	8	0.050	0.96	1.44	2.16	0.23	4.81	4.68	1.63	11.12
Plant & Pre-Folding	32R-30	MFWD 225	195,147	150	8	0.025	0.48	0.72	1.85	0.11	3.18	4.01	0.81	8.01
Plant & Pre-Folding	36R-20	MFWD 225	133,805	150	8	0.033	0.64	0.96	1.69	0.15	3.46	3.67	1.08	8.22

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (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-----							
Plant & Pre-Folding	36R-30	MFWD 225	209,682	150	8	0.022	0.43	0.64	1.77	0.10	2.95	3.83	0.72	7.50
Plant & Pre-Rigid	4R-30	2WD 130	21,784	150	8	0.203	3.87	3.34	1.65	0.48	9.36	3.58	3.25	16.20
Plant & Pre-Rigid	4R-38	2WD 130	21,833	150	8	0.159	3.05	2.63	1.30	0.37	7.37	2.82	2.56	12.76
Plant & Pre-Rigid	6R-30	MFWD 150	28,557	150	8	0.135	2.58	2.57	1.44	0.43	7.03	3.13	2.91	13.08
Plant & Pre-Rigid	6R-38	MFWD 150	27,468	150	8	0.106	2.04	2.03	1.10	0.34	5.51	2.37	2.29	10.19
Plant & Pre-Rigid	8R-30	MFWD 170	32,249	150	8	0.101	1.93	2.18	1.22	0.37	5.72	2.65	2.59	10.97
Plant & Pre-Rigid	8R-38	MFWD 170	28,962	150	8	0.080	1.53	1.72	0.87	0.29	4.42	1.88	2.05	8.36
Plant & Pre-Rigid	10R-30	MFWD 190	33,534	150	8	0.081	1.55	1.95	1.02	0.30	4.82	2.20	2.10	9.14
Plant & Pre-Rigid	11R-15	MFWD 170	36,188	150	8	0.148	2.83	3.19	2.01	0.54	8.57	4.34	3.79	16.71
Plant & Pre-Rigid	11R-20	MFWD 170	32,865	150	8	0.110	2.11	2.38	1.36	0.40	6.28	2.95	2.83	12.07
Plant & Pre-Rigid	12R-20	MFWD 190	46,364	150	8	0.101	1.93	2.44	1.76	0.37	6.52	3.81	2.63	12.97
Plant & Pre-Rigid	12R-30	MFWD 190	45,503	150	8	0.067	1.29	1.62	1.15	0.25	4.32	2.49	1.75	8.57
Plant & Pre-Rigid	13R-18/20	MFWD 225	41,375	150	8	0.093	1.78	2.66	1.45	0.42	6.33	3.13	3.00	12.47
Plant & Pre-Rigid	13R-36/40	MFWD 225	36,197	150	8	0.049	0.94	1.41	0.67	0.22	3.25	1.45	1.59	6.30
Plant & Pre-Rigid	15R-15	MFWD 190	45,288	150	8	0.108	2.07	2.61	1.84	0.40	6.93	3.98	2.81	13.73
Plant & Pre-Rigid	15R-20	MFWD 190	45,144	150	8	0.081	1.55	1.95	1.37	0.30	5.18	2.97	2.10	10.25
Plant & Pre-Rigid	16R30	MFWD 225	84,319	150	8	0.050	0.96	1.44	1.60	0.23	4.25	3.47	1.63	9.35
Plant & Pre-TwinRow	12R-30/40	MFWD 225	91,785	150	8	0.053	1.02	1.52	1.83	0.24	4.62	3.97	1.71	10.31
Plant & Pre-TwinRow	8R-30/40	MFWD 225	71,465	150	8	0.080	1.53	2.28	2.15	0.36	6.33	4.65	2.57	13.56
Plant - Folding	8R-38	MFWD 170	37,520	150	8	0.074	1.42	1.60	1.04	0.27	4.34	2.26	1.90	8.52
Plant - Folding	8R-38 2x1	MFWD 170	49,971	150	8	0.049	0.94	1.06	0.92	0.18	3.12	2.00	1.26	6.40
Plant - Folding	10R-30	MFWD 190	47,426	150	8	0.075	1.44	1.81	1.34	0.27	4.87	2.89	1.95	9.73
Plant - Folding	10R-38	MFWD 190	43,011	150	8	0.059	1.13	1.43	0.95	0.21	3.74	2.07	1.54	7.36
Plant - Folding	12R-20	MFWD 190	46,395	150	8	0.094	1.80	2.26	1.64	0.34	6.05	3.54	2.44	12.04
Plant - Folding	12R-30	MFWD 190	50,509	150	8	0.062	1.20	1.51	1.19	0.23	4.13	2.57	1.62	8.33
Plant - Folding	12R-38	MFWD 190	49,971	150	8	0.049	0.94	1.19	0.92	0.18	3.25	2.00	1.28	6.55
Plant - Folding	16R-30	MFWD 190	72,844	150	8	0.047	0.90	1.13	1.28	0.17	3.49	2.78	1.22	7.50
Plant - Folding	23R-15	MFWD 190	83,686	150	8	0.065	1.25	1.57	2.05	0.24	5.12	4.44	1.69	11.26
Plant - Folding	24R-15	MFWD 225	85,207	150	8	0.062	1.20	1.79	2.00	0.28	5.28	4.34	2.01	11.64
Plant - Folding	24R-20	MFWD 190	94,910	150	8	0.047	0.90	1.13	1.67	0.17	3.88	3.62	1.22	8.73
Plant - Folding	24R-30	MFWD 190	121,718	150	8	0.031	0.60	0.75	1.43	0.11	2.90	3.10	0.81	6.82
Plant - Folding	31R-15	MFWD 225	104,740	150	8	0.048	0.93	1.38	1.91	0.22	4.45	4.13	1.56	10.15
Plant - Folding	32R-15	MFWD 225	106,193	150	8	0.047	0.90	1.34	1.87	0.21	4.33	4.05	1.51	9.90
Plant - Folding	32R-30	MFWD 225	187,567	150	8	0.023	0.45	0.67	1.65	0.10	2.88	3.58	0.75	7.22
Plant - Folding	36R-20	MFWD 225	126,225	150	8	0.031	0.60	0.89	1.48	0.14	3.12	3.21	1.00	7.35
Plant - Folding	36R-30	MFWD 225	202,102	150	8	0.020	0.40	0.59	1.58	0.09	2.68	3.43	0.67	6.78
Plant - Rigid	4R-30	2WD 130	16,289	150	8	0.188	3.60	3.10	1.15	0.44	8.30	2.48	3.02	13.81
Plant - Rigid	4R-38	2WD 130	16,338	150	8	0.148	2.83	2.44	0.90	0.35	6.54	1.96	2.37	10.88
Plant - Rigid	6R-30	MFWD 150	23,062	150	8	0.125	2.40	2.38	1.08	0.40	6.27	2.35	2.70	11.33
Plant - Rigid	6R-38	MFWD 150	21,973	150	8	0.099	1.89	1.88	0.81	0.31	4.91	1.76	2.13	8.81
Plant - Rigid	8R-30	MFWD 170	26,754	150	8	0.094	1.80	2.02	0.94	0.34	5.12	2.04	2.41	9.57
Plant - Rigid	8R-38	MFWD 170	23,467	150	8	0.074	1.42	1.60	0.65	0.27	3.95	1.41	1.90	7.28
Plant - Rigid	10R-30	MFWD 190	28,040	150	8	0.075	1.44	1.81	0.79	0.27	4.32	1.71	1.95	7.99
Plant - Rigid	11R-15	MFWD 170	30,693	150	8	0.137	2.62	2.96	1.58	0.50	7.67	3.42	3.52	14.62
Plant - Rigid	11R-20	MFWD 170	27,370	150	8	0.103	1.96	2.21	1.05	0.37	5.61	2.28	2.63	10.54
Plant - Rigid	12R-20	MFWD 190	40,869	150	8	0.094	1.80	2.26	1.44	0.34	5.86	3.12	2.44	11.43
Plant - Rigid	12R-30	MFWD 190	40,008	150	8	0.062	1.20	1.51	0.94	0.23	3.88	2.03	1.62	7.55
Plant - Rigid	13R-18/20	MFWD 225	35,355	150	8	0.086	1.65	2.47	1.15	0.39	5.68	2.49	2.79	10.96
Plant - Rigid	13R-36/40	MFWD 225	30,475	150	8	0.045	0.87	1.31	0.52	0.21	2.92	1.13	1.47	5.53
Plant - Rigid	15R-15	2WD 150	39,268	150	8	0.094	1.80	1.79	1.38	0.26	5.24	3.00	1.75	9.99
Plant - Rigid	15R-20	MFWD 190	39,124	150	8	0.075	1.44	1.81	1.10	0.27	4.64	2.39	1.95	8.98
Plant - Rigid	16R-30	MFWD 225	78,299	150	8	0.047	0.90	1.34	1.38	0.21	3.84	2.99	1.51	8.34
Plant - TwinRow	12R-30/40	MFWD 225	85,766	150	8	0.049	0.94	1.41	1.59	0.22	4.18	3.44	1.59	9.22
Plant - TwinRow	8R-30/40	MFWD 225	65,970	150	8	0.074	1.42	2.12	1.84	0.34	5.73	3.98	2.39	12.11
Rice Grain Cart	500 Bu	MFWD 190	16,979	200	12	0.062	0.68	1.50	0.28	0.23	2.70	0.56	1.61	4.89
Rice Grain Cart	700 Bu	MFWD 190	23,337	200	12	0.055	0.60	1.32	0.34	0.20	2.47	0.68	1.42	4.58
Rip/Bed/Till Fold	8R-38	MFWD 190	28,400	300	20	0.073	0.79	1.75	0.10	0.27	2.92	0.58	1.89	5.41
Rip/Bed/Till Fold	12R-30	MFWD 225	39,652	300	20	0.061	0.67	1.75	0.12	0.28	2.83	0.69	1.97	5.50
Rip/Bed/Till Fold	12R-38	MFWD 225	39,652	300	20	0.046	0.50	1.31	0.09	0.21	2.12	0.51	1.48	4.12
Rip/Bed/Till Rigid	4R-30	MFWD 190	12,552	300	20	0.184	2.01	4.44	0.11	0.68	7.26	0.65	4.79	12.71
Rip/Bed/Till Rigid	4R-38	MFWD 190	12,552	300	20	0.146	1.60	3.53	0.09	0.54	5.76	0.52	3.80	10.09
Rip/Bed/Till Rigid	6R-38	MFWD 190	18,341	300	20	0.097	1.06	2.34	0.08	0.35	5.85	0.50	2.52	6.87
Rip/Bed/Till Rigid	8R-30	MFWD 190	23,276	300	20	0.139	1.51	3.34	0.16	0.51	5.53	0.91	3.60	10.05
Rip/Bed/Till Rigid	8R-38	MFWD 190	23,276	300	20	0.073	0.79	1.75	0.08	0.27	2.91	0.48	1.89	5.28
Rip/Bed/Till Rigid	6R-30	MFWD 190	18,341	300	20	0.123	1.34	2.96	0.11	0.45	4.87	0.64	3.19	8.71
Ripper Conditioner	4-Row	MFWD 225	11,470	150	12	0.160	1.75	4.58	0.66	0.73	7.74	1.31	5.16	14.22
Ripper Conditioner	8-Row	MFWD 225	17,610	150	12	0.080	0.88	2.30	0.51	0.37	4.06	1.01	2.59	7.67
Roller	32'-12R30	MFWD 170	12,595	100	12	0.046	0.50	1.00	0.09	0.17	1.78	0.63	1.19	3.60
Ripper Conditioner	6-Row	MFWD 225	15,305	150	12	0.107	1.17	3.06	0.59	0.49	5.32	1.17	3.45	9.95
Roller/Bed Shaper Fl	8R-38	MFWD 190	18,395	160	10	0.074	0.80	1.78	0.34	0.27	3.20	1.01	1.92	6.13
Roller/Bed Shaper Fl	12R-30	MFWD 225	19,995	160	10	0.062	0.68	1.78	0.31	0.28	3.06	0.92	2.00	5.99
Roller/Bed Shaper Fl	12R-38	MFWD 225	22,595	160	10	0.049	0.53	1.40	0.27	0.22	2.44	0.82	1.58	4.86
Roller/Bed Shaper Fl	16R-30	MFWD 225	21,655	160	10	0.046	0.51	1.33	0.25	0.21	2.31	0.75	1.50	4.57
Roller/Bed Shaper Rd	8R-38	MFWD 190	13,695	160	10	0.074	0.80	1.78	0.25	0.27	3.11	0.75	1.92	5.79

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2009 (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-----							
Rotary Cutter	7'	MFWD 130	3,712	185	10	0.168	1.83	2.77	0.50	0.46	5.58	0.40	3.14	9.12
Rotary Cutter	12'	2WD 150	8,455	185	10	0.098	1.07	1.86	0.67	0.27	3.88	0.53	1.82	6.24
Rotary Cutter-Flex	15'	MFWD 150	14,627	185	10	0.078	0.85	1.49	0.93	0.25	3.53	0.73	1.69	5.96
Rotary Cutter-Flex	20'	MFWD 150	21,890	185	10	0.058	0.64	1.11	1.04	0.18	2.99	0.82	1.26	5.09
Row Cond & Inc Fold.	26'	MFWD 190	20,486	100	10	0.063	0.95	1.52	0.32	0.23	3.03	1.54	1.64	6.22
Row Cond & Inc Fold.	38'	MFWD 225	23,500	100	10	0.043	0.65	1.23	0.25	0.19	2.34	1.21	1.39	4.94
Row Cond & Inc Rigid	13'	2WD 130	10,935	100	10	0.126	1.90	2.08	0.34	0.30	4.64	1.64	2.03	8.32
Row Cond & Inc Rigid	21'	2WD 170	13,993	100	10	0.078	1.17	1.69	0.27	0.23	3.37	1.30	1.64	6.33
Row Cond & Inc Rigid	26'	MFWD 190	15,722	100	10	0.026	0.39	0.64	0.10	0.09	1.24	0.49	0.68	2.42
Row Cond Fld	26'	MFWD 225	14,991	100	10	0.059	0.65	1.70	0.22	0.27	2.85	1.06	1.91	5.83
Row Cond Fld	38'	MFWD 225	17,480	100	10	0.040	0.44	1.16	0.17	0.18	1.97	0.84	1.31	4.13
Row Cond Rdg	13'	2WD 130	5,440	100	10	0.119	1.30	1.96	0.16	0.28	3.71	0.77	1.91	6.40
Row Cond Rdg	21'	2WD 170	8,498	100	10	0.073	0.80	1.59	0.15	0.22	2.77	0.74	1.54	5.07
Row Cond Rdg	26'	MFWD 190	10,227	100	10	0.059	0.65	1.43	0.15	0.22	2.46	0.72	1.54	4.73
RT Cult	8R-30	2WD 170	20,774	200	12	0.103	1.12	2.21	1.02	0.30	4.67	1.17	2.15	8.01
RT Cult	12R-30	2WD 190	29,998	200	12	0.068	0.75	1.65	0.98	0.23	3.62	1.13	1.65	6.41
RT Cult + PD	8R-30	2WD 150	26,269	200	12	0.110	1.65	2.08	1.38	0.30	5.42	1.58	2.04	9.06
RT Cult + PD	12R-30	2WD 190	35,493	200	12	0.073	1.10	1.76	1.24	0.25	4.36	1.43	1.76	7.56
Soybean Grain Cart	500 bu	MFWD 190	16,979	200	12	0.025	0.27	0.61	0.11	0.09	1.10	0.23	0.66	1.99
Soybean Grain Cart	700 bu	MFWD 190	23,337	200	12	0.021	0.23	0.51	0.13	0.07	0.95	0.26	0.55	1.77
Spin Spreader	5 ton	MFWD 190	11,529	100	8	0.042	0.80	1.01	0.27	0.15	2.24	0.61	1.09	3.94
Spray (Band)	27' Fold	MFWD 170	5,459	200	8	0.062	0.94	1.34	0.16	0.22	2.67	0.21	1.60	4.49
Spray (Band)	40' Fold	MFWD 170	6,020	200	8	0.042	0.63	0.91	0.11	0.15	1.81	0.16	1.08	3.06
Spray (Band)	50' Fold	MFWD 170	5,957	200	8	0.033	0.50	0.72	0.09	0.12	1.45	0.12	0.86	2.44
Spray (Band)	53' Fold	MFWD 170	6,823	200	8	0.031	0.47	0.68	0.10	0.11	1.38	0.13	0.81	2.33
Spray (Band)	60' Fold	MFWD 170	7,580	200	8	0.028	0.42	0.60	0.10	0.10	1.23	0.13	0.72	2.09
Spray (Bcast/HB)	13' Rigid	MFWD 150	4,873	200	8	0.130	1.95	2.47	0.29	0.41	5.13	0.40	2.80	8.34
Spray (Bcast/HB)	20' Rigid	MFWD 150	5,734	200	8	0.084	1.26	1.60	0.22	0.26	3.37	0.30	1.82	5.50
Spray (Bcast/HB)	27' Fold	MFWD 170	9,742	200	8	0.062	0.94	1.34	0.28	0.22	2.80	0.38	1.60	4.79
Spray (Bcast/HB)	27' Rigid	MFWD 170	6,657	200	8	0.062	0.94	1.34	0.19	0.22	2.71	0.26	1.60	4.58
Spray (Bcast/HB)	30' Fold	MFWD 170	13,025	200	8	0.056	0.84	1.21	0.34	0.20	2.61	0.46	1.44	4.51
Spray (Bcast/HB)	40' Fold	MFWD 170	13,627	200	8	0.042	0.63	0.91	0.27	0.15	1.97	0.36	1.08	3.41
Spray (Bcast/HB/HD)	27'	MFWD 170	20,451	200	8	0.062	0.94	1.34	0.60	0.22	3.11	0.81	1.60	5.53
Spray (Bcast/HB/HD)	40'	MFWD 170	24,379	200	8	0.042	0.63	0.91	0.48	0.15	2.18	0.65	1.08	3.91
Spray (Broadcast)	27'	MFWD 170	5,495	200	8	0.062	0.94	1.34	0.16	0.22	2.68	0.21	1.60	4.50
Spray (Broadcast)	40'	MFWD 170	6,020	200	8	0.042	0.63	0.91	0.11	0.15	1.81	0.16	1.08	3.06
Spray (Broadcast)	50'	MFWD 170	5,957	200	8	0.033	0.50	0.72	0.09	0.12	1.45	0.12	0.86	2.44
Spray (Broadcast)	53'	MFWD 170	6,823	200	8	0.031	0.47	0.68	0.10	0.11	1.38	0.13	0.81	2.33
Spray (Broadcast)	60'	MFWD 170	7,580	200	8	0.028	0.42	0.60	0.10	0.10	1.23	0.13	0.72	2.09
Spray (Direct/Hood)	8R-30	MFWD 170	14,472	200	8	0.084	1.26	1.82	0.57	0.30	3.97	0.77	2.16	6.91
Spray (Direct/Hood)	8R-38	MFWD 170	15,668	200	8	0.066	1.00	1.43	0.49	0.24	3.17	0.66	1.71	5.55
Spray (Direct/Hood)	12R-30	MFWD 170	18,370	200	8	0.056	0.84	1.21	0.48	0.20	2.75	0.65	1.44	4.85
Spray (Direct/Hood)	12R-38	MFWD 170	18,837	200	8	0.044	0.66	0.95	0.39	0.16	2.18	0.53	1.13	3.85
Spray (Direct/Layby)	8R-30	MFWD 170	9,112	200	8	0.084	1.26	1.82	0.36	0.30	3.76	0.48	2.16	6.41
Spray (Direct/Layby)	8R-38	MFWD 170	10,176	200	8	0.066	1.00	1.43	0.31	0.24	3.00	0.43	1.71	5.14
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	17,524	200	8	0.044	0.66	0.95	0.36	0.16	2.15	0.49	1.13	3.78
Spray (Direct/Layby)	10R-30	MFWD 170	10,489	200	8	0.067	1.01	1.45	0.33	0.24	3.05	0.44	1.73	5.23
Spray (Direct/Layby)	12R-30	MFWD 170	11,817	200	8	0.056	0.84	1.21	0.31	0.20	2.57	0.42	1.44	4.44
Spray (Direct/Layby)	12R-38	MFWD 170	17,524	200	8	0.044	0.66	0.95	0.36	0.16	2.15	0.49	1.13	3.78
Spray (Direct/Layby)	16R-20	MFWD 170	9,843	200	8	0.063	0.95	1.36	0.29	0.23	2.83	0.39	1.62	4.85
Spray (Spot)	27'	MFWD 170	5,495	200	8	0.062	0.94	1.34	0.16	0.22	2.68	0.21	1.60	4.50
Spray (Spot)	40'	MFWD 170	6,020	200	8	0.042	0.63	0.91	0.11	0.15	1.81	0.16	1.08	3.06
Spray (Spot)	50'	MFWD 170	5,957	200	8	0.033	0.50	0.72	0.09	0.12	1.45	0.12	0.86	2.44
Spray (Spot)	53'	MFWD 170	6,823	200	8	0.031	0.47	0.68	0.10	0.11	1.38	0.13	0.81	2.33
Spray (Spot)	60'	MFWD 170	7,580	200	8	0.028	0.42	0.60	0.10	0.10	1.23	0.13	0.72	2.09
Stalk Shredder	14'	MFWD 150	10,850	200	10	0.117	1.28	2.23	1.11	0.37	5.01	0.75	2.53	8.31
Stalk Shredder	20'	MFWD 150	25,301	200	10	0.082	0.90	1.56	1.82	0.26	4.55	1.23	1.77	7.57
Stalk Shredder-Flail	12'	MFWD 150	13,201	200	10	0.137	1.50	2.61	1.58	0.43	6.13	1.07	2.95	10.17
Stalk Shredder-Flail	15'	MFWD 150	15,022	200	10	0.110	1.20	2.08	1.44	0.35	5.08	0.98	2.36	8.43
Stalk Shredder-Flail	18'	MFWD 150	21,133	200	10	0.091	1.00	1.74	1.69	0.29	4.72	1.15	1.97	7.85
Stalk Shredder-Flail	20'	MFWD 150	19,813	200	10	0.082	0.90	1.56	1.43	0.26	4.16	0.97	1.77	6.90
Stalk Shredder-Flail	25'	MFWD 150	24,347	200	10	0.066	0.72	1.25	1.40	0.21	3.59	0.95	1.42	5.96
Subsoiler	3 shank	MFWD 190	3,773	100	15	0.204	2.22	4.91	0.25	0.75	8.15	0.73	5.29	14.19
Subsoiler	4 shank	MFWD 225	5,769	100	15	0.153	1.67	4.37	0.29	0.70	7.05	0.84	4.93	12.83
Subsoiler	5 shank	MFWD 225	6,450	100	15	0.122	1.33	3.48	0.26	0.56	5.64	0.75	3.92	10.33
Subsoiler low-till	4 shank	MFWD 225	1,058	100	15	0.153	1.67	4.37	0.05	0.70	6.81	0.15	4.93	11.90
Subsoiler low-till	6 shank	MFWD 225	13,153	100	15	0.102	1.11	2.91	0.44	0.46	4.94	1.28	3.28	9.51
Wht/Sor Grain Cart	500 bu	MFWD 190	16,979	200	12	0.025	0.27	0.61	0.11	0.09	1.10	0.23	0.66	1.99
Wht/Sor Grain Cart	700 bu	MFWD 190	23,337	200	12	0.021	0.23	0.51	0.13	0.07	0.95	0.26	0.55	1.77

## 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, 2009

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Captan 50 WP	lb	3.61
Crop Oil Conc.(Pet.)	pt	1.05	Convoy	oz	0.31
Crop Oil Conc.(Veg.)	pt	2.51	Cotton Seed Trt.	acre	20.00
Drift/Defoamer	pt	5.86	Dithane F-45	qt	3.63
Spreader Sticker	pt	2.80	Dithane Rainshield	lb	2.28
Surfactant	pt	1.68	Folicur 3.6	oz	2.33
CLEANING			Fungicide	lb	2.67
Cleaning Peanuts	ton	18.00	Gem 25 WG	oz	3.52
CROP CONSULTANT			Headline	oz	2.08
Rice Consultant	acre	7.00	Headline SBR Copak	oz	1.78
CROP INSURANCE			Manzate 75 DF	lb	2.65
Insurance - Peanuts	acre	13.00	Manzate Flowable	pt	1.90
CUSTOM FERTILIZE			Moncut 70 DF	lb	24.85
App Fert by Air	cwt	7.00	Prevail	lb	28.06
App Fert by Air(Min)	appl	7.00	Provost	oz	2.00
Custom Apply Fert	acre	7.00	Quadris	oz	2.16
CUSTOM LIME			Quadris Ridomil Gold	oz	8.92
Lime (Spread)	ton	38.00	Quilt	pt	16.86
CUSTOM PLANT			Ridomil Gold PC GR	lb	2.05
Custom Plant	acre	8.00	Rovral 4F	pt	17.06
Custom Plant Air	cwt	7.00	Stiletto	oz	0.57
CUSTOM SPRAY			Stratego	pt	19.49
App by Air ( 2 gal)	appl	4.00	Terrachlor 2EC	pt	2.02
App by Air ( 3 gal)	appl	5.00	Terrachlor Flowable	pt	4.74
App by Air ( 5 gal)	appl	6.00	Terraclor Super X EC	pt	3.95
App by Air (10 gal)	appl	8.00	Terraclor Super X G	lb	2.67
Custom Spray	acre	7.00	Tilt 3.6 EC	oz	2.33
DRYING			Tilt/Bravo SE	oz	0.38
Dry Corn	bu	0.19	Uniform	oz	2.99
Dry Grain Sorghum	cwt	0.25	Vitavax 200	oz	0.49
Dry Peanuts	ton	24.00	Vitavax RTU-Thiram	oz	0.33
Dry Rice	bu	0.40	Vitavax T-L	oz	0.29
ERADICATION FEE			GINNING		
Eradication Delta	acre	4.00	Gin & Haul	lb	0.09
Eradication NonDelta	acre	6.25	GROWTH REGULATORS		
Eradication Zone 1	acre	4.00	Early Harvest PGR	oz	1.46
Eradication Zone 1A	acre	4.00	Mepex	oz	0.19
Eradication Zone 1B	acre	4.00	Mepex Gin Out	oz	0.29
Eradication Zone 2	acre	4.00	Mepichlor 4.2% Liq	oz	0.19
Eradication Zone 3	acre	6.50	Mepiquat Chloride	oz	0.16
Eradication Zone 4	acre	6.00	Mepiquat Extra	oz	0.16
FERTILIZERS			Pentia	pt	6.93
Amm Nitrate (34% N)	cwt	28.00	PGR IV	oz	1.56
Amm Sulfate (21% N)	cwt	22.00	PGR Plus	oz	5.48
Anhy Ammonia (82%)	cwt	42.00	Pix Plus	oz	0.28
Boron 15%	lb	0.40	Pix Ultra	oz	0.39
Boron Plus	pt	3.87	Stance	pt	16.64
DAP	cwt	48.00	SuperBoll	pt	3.54
Fert 10-34-0	cwt	52.00	HARVEST AIDS		
Fert 11-37-0	cwt	56.00	Accelerate	pt	2.59
Fert 41-0-0-4	cwt	20.00	Aim 2EC	oz	5.82
Phosphorus(46% P2O5)	cwt	46.00	Ammonium Sulfate	lb	0.20
Potash (60% K2O)	cwt	44.00	Boll Buster	pt	2.68
Sulfur 90%	lb	0.20	CottonQuik	pt	3.12
Sulfur Plus	pt	1.24	Def 6	pt	6.75
UAN (32% N)	cwt	24.00	Def/Folex	pt	6.91
Urea, Solid (46% N)	cwt	27.00	Defol 3	gal	3.04
Zinc Sulfate 31%	lb	0.60	Defol 5	gal	4.24
FUNGICIDES			Defol 6	gal	5.20
Abound	pt	35.63	Defol 750	pt	0.94
Absolute 500SC	PT	31.91	Dropp 50 WP	lb	45.45
Allegiance Flowable	pt	50.42	Dropp SC	oz	2.37
Apron Maxx RTA	oz	0.85	ET	pt	43.31
Apron Maxx RTA+Moly	pt	13.24	Ethephon 6E	pt	4.35
Apron XL	oz	8.13	Finish 6	pt	7.61
Apron XL LS	oz	6.37	First Pick	pt	3.07
Artisan	oz	0.76	Folex 6EC	pt	7.06
Bravo Ultrex	lb	6.34	Freefall SC	oz	33.78
Bravo Weather Stick	pt	6.25			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2009 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Ginstar EC	pt	26.29	Classic	oz	14.07
Gramoxone Inteon	oz	0.23	Clearpath	lb	55.03
Gramoxone Max	pt	4.97	Clincher SF	oz	1.74
Harvade 5F	oz	0.60	Cobra 2EC	oz	1.33
Leafless	pt	18.56	Command 3ME	pt	12.93
MFx Cotton Har. Aid	pt	3.64	Conclude XACT	pt	11.32
Prep	pt	4.41	Cornerstone	pt	3.63
Shed-a-leaf	gal	3.00	Cornerstone Plus	pt	3.69
Sodium Chlorate 3L	gal	3.04	Cotoran 4L	pt	5.03
Sodium Chlorate 5L	gal	4.24	Cotoran DF	lb	9.00
Solium Chlorate 6L	gal	5.20	Cotton Pro	pt	3.36
TDZ SC	oz	2.94	Credit Extra	pt	3.91
Thidazuron 50 WSB	oz	2.08	Direx 4L	pt	2.73
Thidiazuron 4lb	oz	2.37	Direx 80 DF	lb	7.37
Thidiazuron 4SC	oz	2.79	Diuron 4L	pt	2.36
Tribufos 6lb	pt	7.15	Diuron 80 DF	lb	4.64
HAULING			Diuron 80%	lb	4.64
Haul Corn	bu	0.20	Domain	lb	12.75
Haul Cotton	lb	0.02	DSMA 4	pt	0.90
Haul Peanuts	ton	14.50	Dual II Magnum	pt	13.47
Haul Rice	bu	0.22	Dual Magnum	pt	12.74
Haul Sorghum	bu	0.20	Duet	pt	3.61
Haul Soybeans	bu	0.20	Envoke	oz	78.53
Haul Wheat	bu	0.20	Equip	oz	10.65
HERBICIDES			Evik DF 80W	lb	6.99
2,4-D Amine 4	pt	1.82	Exceed	oz	10.71
2,4-D LV 4Ester	pt	1.87	Expert	pt	4.06
2,4-D Weedar 64	pt	2.04	Facet 75DF	lb	52.09
AAtrex 4L	pt	1.94	Finesse	oz	16.17
AAtrex NINE-O	lb	3.42	First Rate	oz	27.86
Accent Gold	oz	6.30	Flexstar HL	pt	13.63
Accent SP	oz	31.94	FloMet 4L	pt	5.05
Acramite-4SC	oz	1.37	Flomet DF	lb	6.65
Aim 2EC	oz	6.06	Fluometuron 4lb	pt	5.04
Aim DF	oz	9.65	Frontier 6.0	oz	0.63
Arrosolo	qt	7.88	Fultime	pt	3.91
Arrow 2EC	pt	15.06	Fusilade DX	oz	1.34
Assure II	oz	1.12	Fusion	pt	20.12
Atrazine 4L	pt	1.69	Glyfos	pt	3.77
Atrazine 90DF	lb	3.11	Glyfos Xtra	pt	3.91
Axiom 68DF	lb	22.86	Glyphosate 3lbs a.e	pt	4.00
Backdraft SL	pt	2.40	Glyphosate 3lbs a.e.	oz	0.25
Banvel	pt	8.85	Glystar Plus	pt	3.91
Basagran	pt	10.75	Goal 2XL	pt	10.31
Basis Gold	lb	18.87	Gramoxone Inteon	oz	0.23
Beacon 75% WSP	oz	27.74	Gramoxone Max	pt	4.97
Beyond	oz	4.25	Grandstand R	qt	22.59
Bicep II Magnum	qt	9.46	Guardman Max	pt	5.74
Blazer Ultra	pt	7.81	Harmony Extra XP	oz	14.65
Bolero 8EC	pt	4.83	Harmony GT	oz	19.98
Boundary 7.5	pt	8.69	Harness	pt	11.84
Buccaneer Plus	pt	4.09	Harness XTRA	pt	6.99
Buctril 2EC	pt	8.63	Hoelon 3EC	pt	10.42
Buctril 4EC	pt	15.37	Honcho	pt	2.78
Butoxone 175(2,4-DB)	pt	2.70	Honcho Plus	pt	3.82
Butoxone 200(2,4-DB)	pt	3.89	Hornet WDG	lb	55.02
Butyrac 175 (2,4-DB)	pt	2.71	Ignite 280	pt	6.57
Butyrac 200 (2,4-DB)	pt	4.24	Karmex DF	lb	4.20
Cadre	oz	5.16	Lariat	qt	5.67
Callisto 4SC	oz	4.61	Lasso 4EC	qt	6.60
Canopy 75%	oz	2.89	Layby Pro	qt	9.16
Canopy EX	oz	6.00	Lexar	pt	5.17
Canopy XL	oz	2.23	Liberty	pt	8.89
Caparol 4L	pt	4.04	Lightning	oz	12.69
Carbaryl 4L	pt	3.58	Linex 4L	pt	7.53
Celebrity Plus	lb	87.24	Londax 60DF	oz	12.70
Clarity	pt	10.87			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2009 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Lorox 50DF	lb	16.56	Ultra Blazer	pt	8.46
Me-Too-Lachlor	pt	6.74	Valor SX	oz	4.31
MSMA 6.6	pt	2.18	Valor XLT	oz	3.13
MSMA6 Plus	pt	1.99	Weedar 64	pt	1.86
Newpath 2SL	oz	3.72	Weedone 638	pt	3.22
Option	oz	9.68	Weedone LV4	pt	2.15
Ordram 15-GM	lb	1.44	Weedone LV6	pt	3.00
Ordram 8-E	pt	7.75	Whip 360	pt	24.12
Osprey	oz	3.42	Zorial Rapid 80DF	lb	15.06
Outlook	pt	18.27	INOCULANT		
Parrlay	pt	8.70	Innoculant (Liquid)	pt	10.34
Peak Accu Pak	oz	12.54	Nitragin S	oz	0.27
Pendimax 3.3	pt	3.08	Optimizer LIFT	oz	0.56
Permit 75 DF	oz	18.07	Vault	oz	1.42
Poast 1.53	pt	8.90	INSECT SCOUTING		
Poast Plus	pt	6.63	Insect Scouting	acre	7.00
Prefix	pt	5.56	INSECTICIDES		
Prometryne	pt	3.76	Acephate 90%	lb	7.97
Propimax EC	pt	33.97	Acephate 90SP	lb	7.51
Prowl 3.3 EC	pt	3.31	Aeris	oz	6.64
Prowl H20	pt	3.82	Ambush 2E	oz	13.13
Pursuit 2S	oz	4.08	Ammo 2.5 EC	oz	0.72
Pursuit DG	oz	11.59	Asana .66 XL	oz	0.72
Pursuit Plus EC	pt	6.31	Baythroid 2	oz	2.36
Python WDG	oz	10.24	Baythroid XL	oz	2.22
Raptor	oz	4.23	Bidrin 8WM	oz	0.86
Reflex 2LC	pt	13.34	Bidrin XL	oz	1.91
Regiment 80WP	oz	32.49	Bifenture 2EC	pt	20.63
Remedy	pt	12.56	Brigade EC	pt	19.04
Resource .86EC	pt	22.60	Brigade WSB	lb	20.32
Riceshot	pt	2.81	Capture 2EC	oz	1.45
Ricestar	pt	18.13	Carbine	oz	4.11
Ricestar HT	pt	18.62	Carbine 50WG	oz	4.11
Rifel	pt	7.35	Centric 40WG	oz	4.45
Roundup Original Max	oz	0.41	Comite 1l	pt	7.88
Roundup Original Max	pt	6.56	Confirm 2F	oz	1.49
Roundup Power Max	oz	0.43	Counter 15G	lb	2.51
Roundup PowerMax	pt	6.88	Counter CR	lb	2.65
Roundup WeatherMax	oz	0.50	Couraze 1.6F	pt	26.39
Roundup WeatherMax	pt	8.00	Couraze 2F	pt	33.33
Scepter 70 DG	oz	3.18	Curacron 8E	pt	9.62
Select 2EC	oz	1.34	Decis 1.5EC	oz	2.84
Select Max	pt	15.00	Declare	pt	4.21
Sencor 4F	pt	10.30	Delta Gold	pt	34.38
Sencor DF	lb	16.01	Denim 0.16 EC	pt	26.51
Sequence	pt	5.91	Di-Syston 15G	lb	2.81
Simazine 4L	pt	2.39	Di-Syston 8	pt	13.89
Stalwart	pt	6.54	Diamond .83EC	pt	16.34
Stam 80 EDF	lb	5.32	Dimethoate 4E	pt	4.73
Stam M4	qt	5.90	Dimilin 2L	oz	1.63
Staple	oz	16.01	Dipel DF	lb	10.40
Staple LX	oz	6.93	Dipel ES	pt	4.26
Steadfast	oz	24.13	Discipline 2 EC	oz	1.90
Storm	pt	10.00	Endigo ZC	pt	30.11
Strada WG	oz	5.32	Fanfare 2EC	oz	1.57
Strongarm	oz	41.55	Force 3G	lb	4.67
Superwham	qt	6.68	Furadan 4F	pt	9.52
Suprend	lb	10.48	Gaucha 480	oz	8.56
Surpass EC	qt	19.27	Gaucha 600	oz	6.25
Synchrony XP	oz	6.86	Hero	pt	22.97
Touchdown HiTech	qt	12.36	Incidental Pest Trt	acre	12.00
Touchdown Total	qt	13.44	Intrepid 2F	oz	1.97
Treflan HFP	pt	3.33	Intruder 70WSP	oz	8.38
Treflan TR-10	lb	0.77	Karate Z	oz	3.09
Trifluralin 4EC	pt	2.28	Kelthane MF 4EC	pt	5.25

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2009 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Knack	pt	86.07	IRRIGATION SUPPLIES		
Lannate LV	pt	7.67	Roll-Out Pipe	ft	0.20
Lannate SP	oz	24.27	SEED/PLANTS		
Larvin 3.2	oz	0.51	Corn Seed BtRR	thous	2.42
Leverage 2.7	oz	2.69	Corn Seed RR	thous	2.25
Lorsban 15G	lb	1.58	Cotton Seed BGl1RRF	thous	0.52
Lorsban 4E	pt	4.45	Cotton Seed BGRR	thous	0.48
Malathion 5E	pt	3.24	Cotton Seed BGRRF	thous	0.51
Malathion 8E	pt	4.25	Cotton Seed Liberty	thous	0.62
Malathion ULV	pt	4.93	Cotton Seed RR	thous	0.48
Methyl Parathion	pt	4.23	Cotton Seed RRF	thous	0.50
Monitor 4	pt	14.97	Peanut Seed	lb	0.86
Mustang Max	oz	1.61	Rice Clearfield 161	lb	0.63
Oberon 4 SC	pt	70.71	Rice Clearfield Hyb	lb	3.10
Orthene 90S	lb	8.42	Rice Seed (Levees)	lb	0.32
Penncap-M	pt	3.55	Rice Seed CF(Levees)	lb	0.63
Phorate	lb	2.83	Rice Seed CFH(Levee)	lb	3.10
Pounce 25WP	lb	10.94	Rice Seed Conv.	lb	0.32
Prolex	oz	2.94	Sorghum Concept	lb	1.59
Provado 1.6F	oz	2.65	Sorghum Hybrid Sudax	lb	0.60
Sevin 4F	pt	3.88	Soybean Seed RR	lb	0.74
Sevin 80S	lb	6.13	Soybean Seed Stack	lb	0.72
Sevin XLR Plus	qt	9.44	Wheat Seed Private	lb	0.29
Steward	pt	25.11	SURVEY & MARK LEVEES		
Temik 15G Grit	lb	3.49	Survey & Mark Levees	acre	4.00
Temik 15G Gypsum	lb	3.60	Survey & Mark Levees	acre	3.50
Thimet 20-G Lock N L	lb	2.75	TECHNOLOGY FEE		
Thionex 3 EC	pt	3.60	BG Cot Tech Fee	cap/ac	19.50
Thionex 50W	lb	8.35	BG II/RR Tech Fee	cap/ac	56.00
Tombstone 2E	pt	40.04	BG 11/RRF Tech Fee	thous	1.38
Tracer 4SC	oz	6.58	BG 11/RRF Tech Fee	cap/ac	64.00
Trimax	oz	4.13	BG/RR Cot Tech Fee	thous	1.05
Trimax Pro	oz	4.08	BG/RR Cot Tech Fee	cap/ac	49.00
Vydate C-LV	oz	0.60	RR Cotton Tech Fee	thous	0.62
Warrior Z	oz	1.88	RR Cotton Tech Fee	cap/ac	29.00
Zeal	oz	19.29	RRF Cotton Tech Fee	thous	0.86
Zephyr	oz	4.37	RRF Cotton Tech Fee	cap/ac	40.00

Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2009

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.46
Gasoline	gal	2.40
LP Gas	gal	2.64
INTEREST RATES		
Short-term	%	6.00
Intermediate-term	%	6.75

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2009

Item name	
LABOR TYPES	
	WAGE RATE (\$/HR)
OPERATOR LABOR	10.91
IRRIGATE LABOR	8.19
HAND LABOR	8.19
HAND. & STOR. LABOR	8.19
RICE MGT. LABOR	8.19
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, 2009

	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 '09	4.68	-0.3033	4.38	2.10	4.38
Cotton Lint	lb	Dec '09	0.622	-0.0255	0.622	0.524	0.622
Cotton Seed	lb						0.051 <sup>f</sup>
Grain Sorghum	bu				4.25	2.01	4.25
Peanuts	ton				500.00	355.00	500.00
Rice	bu	Sep '09	7.23	-0.5970	6.63	2.96	6.63
Soybeans	bu	Nov '09	9.60	-0.3720	9.22	5.15	9.22
Wheat	bu	Jul '09	6.17	-0.6063	5.57	2.41	5.57

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

<sup>b</sup> The basis is computed by subtracting the 2001-2008 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 97% 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 2008 crop year for soybeans, corn, grain sorghum, and wheat. 2008 Mississippi base loan rate for the Delta area for cotton. 2008 Mississippi loan rate for long grain rice. 2008 national average loan rate for peanuts.

<sup>e</sup> Price used in the 2009 MAFES Planning Budgets.

<sup>f</sup> Cottonseed price is the marketing year average price averaged over the years 2003-2007, 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, 2009

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Land Plane	50'x16'		0.91	0.20	0.41		0.01	1.53	1.15	2.68
Disk Bed (Hipper)Rdg	8R-38		0.45	0.14	0.20		0.03	0.82	0.70	1.52
UAN (32% N)	cwt	7.20					0.25	7.45		7.45
Set Up Engine										
IRRIGATE LABOR	hour				0.20		0.01	0.21		0.21
Ditcher (1m/160a)			0.15	0.04	0.10		0.01	0.30	0.18	0.48
UAN (32% N)	cwt	7.20					0.18	7.38		7.38
Roll-Out Pipe	ft	6.60					0.16	6.76		6.76
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.21	0.06	0.34		0.02	0.63	0.54	1.17
IRRIGATE LABOR	hour				1.64		0.04	1.68		1.68
Apply Water										
IRRIGATE LABOR	hour				0.20		0.01	0.21		0.21
Sprayer( 600-750Gal)	60'		0.45	0.12	0.26		0.02	0.85	0.89	1.74
Caparol 4L	pt	4.04					0.10	4.14		4.14
MSMA 6.6	pt	6.00					0.15	6.15		6.15
App by Air ( 3 gal)	appl	5.00					0.13	5.13		5.13
Mepiquat Chloride	oz	1.28					0.03	1.31		1.31
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20		0.20
App by Air ( 3 gal)	appl	2.50					0.05	2.55		2.55
Incidental Pest Trt	acre	6.00					0.12	6.12		6.12
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20		0.20
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.31	0.08	0.51		0.01	0.91	0.82	1.73
Land Forming (\$300)	each								25.17	25.17
Well & Pump, Furrow	each			2.03			0.05	2.08	7.08	9.16
Main Line Pipe	each								4.98	4.98
Engine, RPF, 75	each								5.79	5.79
June Irrigation	ac-in		7.01	0.78			0.19	7.98		7.98
July Irrigation	ac-in		7.01	0.78			0.16	7.95		7.95
August Irrigation	ac-in		7.01	0.78			0.12	7.91		7.91
TOTALS		45.82	23.51	5.01	4.26	0.00	1.85	80.45	47.30	127.75

Note: Cost of production estimates are based on 2008 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, 2009

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	7.20						0.25	7.45		7.45
Set Up Engine											
IRRIGATE LABOR	hour				0.24			0.01	0.25		0.25
Maintenance											
IRRIGATE LABOR	hour				0.97			0.03	1.00		1.00
UAN (32% N)	cwt	7.20						0.18	7.38		7.38
Apply Water											
IRRIGATE LABOR	hour				0.14				0.14		0.14
Sprayer( 600-750Gal)	60'		0.45	0.12	0.26			0.02	0.85	0.89	1.74
Caparol 4L	pt	4.04						0.10	4.14		4.14
MSMA 6.6	pt	6.00						0.15	6.15		6.15
App by Air ( 3 gal)	appl	5.00						0.13	5.13		5.13
Mepiquat Chloride	oz	1.28						0.03	1.31		1.31
Apply Water											
IRRIGATE LABOR	hour				0.18				0.18		0.18
App by Air ( 3 gal)	appl	2.50						0.05	2.55		2.55
Incidental Pest Trt	acre	6.00						0.12	6.12		6.12
Apply Water											
IRRIGATE LABOR	hour				0.14				0.14		0.14
Pivot, 1/4 CP	each			8.15				0.20	8.35	37.71	46.06
Well & Pump, 1/4 CP	each			2.40				0.06	2.46	8.39	10.85
Engine, 1/4 CP, 65	each									6.17	6.17
June Irr. 3app@.75"	ac-in		8.27	0.75				0.23	9.25		9.25
July Irr. 4app@.75"	ac-in		11.02	1.00				0.24	12.26		12.26
Aug Irr. 3app@.75"	ac-in		8.27	0.75				0.14	9.16		9.16
TOTALS		39.22	28.01	13.17	1.93	0.00	1.94	84.27	53.16		137.43

Note: Cost of production estimates are based on 2008 input prices.



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**Roy H. Ruby, Interim President**

**Division of Agriculture, Forestry, and Veterinary Medicine  
Melissa J. Mixon, Interim Vice President**

**Mississippi Agricultural and Forestry Experiment Station  
Melissa J. Mixon, Interim Director**

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