

**COTTON  
2011  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2010-12**

**December 2010**



## Foreword

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

## Acknowledgments

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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# 2011 Planning Budgets

## Budgets for Agricultural Enterprises

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

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

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

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

## Methods and Procedures

### Production Practices

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

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

### Machinery

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

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

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

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

### Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to

perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

Interest on operating capital is determined by using a short-term interest rate obtained from agricultural lenders and making a charge against capital outflows as the production process takes place. Interest is accumulated until the crop is harvested.

### Estimates of Fixed Costs

Annual fixed cost estimates for machinery are based on a budgeting technique which computes the annual capital recovery charge (2, p. 143). When a combination of machines or equipment is required to perform a single operation, the total cost per acre for all equipment used in the operation is estimated. The fixed cost of machinery ownership is calculated by first computing the capital recovery factor and then using it to estimate the annual capital recovery charge.

$$CRF = \frac{IIR}{1 - (1 + IIR)^{-TYL}}$$

where:

CRF = Capital recovery factor  
 IIR = Intermediate-term interest rate  
 TYL = Total years of life

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

where:

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



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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

### Estimates of Returns

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

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

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

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

### Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 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  
B2RF variety, Delta Area, Mississippi, 2011

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\* Lease costs are based on hourly usage costs.

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

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

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

Table 8.A Estimated costs per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	22.00	0.1750	3.85	_____
Potash (60% K2O)	cwt	23.00	1.4000	32.20	_____
UAN (32% N)	cwt	12.50	3.6000	45.00	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.74	1.0000	1.74	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	1.1134	12.65	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4491	4.07	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	1.1322	12.84	_____
DIESEL FUEL					
Tractors	gal	2.39	10.8888	26.03	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	9.46	1.0000	9.46	_____
Tractors	acre	4.45	1.0000	4.45	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				517.42	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	28.84	1.0000	28.84	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				104.86	_____
TOTAL SPECIFIED EXPENSES				622.28	_____

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

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	750.0000	634.50	_____
Cotton Seed	lb	0.06	1125.0000	77.63	_____
				-----	
TOTAL INCOME				712.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	81.05	1.0000	81.05	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	33.01	1.0000	33.01	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.7289	6.61	_____
OPERATOR LABOR	hour	11.35	1.4152	16.08	_____
UNALLOCATED LABOR	hour	11.34	1.1322	12.84	_____
DIESEL FUEL	gal	2.39	15.9294	38.08	_____
REPAIR & MAINTENANCE	acre	28.40	1.0000	28.40	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
				-----	
TOTAL DIRECT EXPENSES				517.42	_____
RETURNS ABOVE DIRECT EXPENSES				194.71	_____
				-----	
TOTAL FIXED EXPENSES				104.86	_____
				-----	
TOTAL SPECIFIED EXPENSES				622.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.85	_____

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

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

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Lime (Spread)	ton			0.25	Nov	0.5000				
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 Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant & Pre-Rigid	8R-38	MFWD 190	0.080	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Dual Magnum	pt					1.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					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' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	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 2010 input prices.  
**Fertilization decisions should be based on soil tests.**



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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Phosphorus(46% P2O5)	cwt	3.85						0.17	4.02	4.02
Paratill & Bed Fold.	8R-38		1.89	1.79	1.65			0.23	5.56	4.74 10.30
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
2,4-D Amine 4	pt	1.74						0.05	1.79	1.79
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Disk Bed (Hipper)Rdg	8R-38		0.87	0.29	0.76			0.06	1.98	1.35 3.33
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Potash (60% K2O)	cwt	32.20						0.93	33.13	33.13
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.12	5.00	2.98 7.98
UAN (32% N)	cwt	22.50						0.57	23.07	23.07
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31 5.41
Plant & Pre-Rigid	8R-38		1.88	1.31	2.37			0.12	5.68	4.04 9.72
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Dual Magnum	pt	12.64						0.27	12.91	12.91
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95 1.93
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98 7.95
UAN (32% N)	cwt	22.50						0.41	22.91	22.91
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.06	3.90	2.16 6.06
Diuron 80%	lb	4.55						0.07	4.62	4.62
Glyphosate 3lbs a.e.	oz	3.52						0.05	3.57	3.57
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Acephate 90%	lb	4.52						0.07	4.59	4.59
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48 0.96
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46 90.43
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81 23.67
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83 27.53
Gin & Haul	lb	67.50						0.24	67.74	67.74
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82 10.71
TOTALS			406.52	38.08	28.40	35.53	0.00	8.89	517.42	104.86 622.28

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

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

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	712.13
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.50
FERTILIZERS	3.85	0.00	0.00	0.00	32.20	22.50	0.00	22.50	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	5.26	0.00	16.16	3.52	8.07	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.65	0.00	0.00	0.00	0.76	1.93	4.03	2.37	1.67	0.00	0.22	22.90
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.89	0.00	0.00	0.00	0.87	1.81	3.66	2.19	1.56	0.00	0.19	25.91
REPAIR & MAINTENANCE	1.79	0.00	0.00	0.00	0.29	1.14	1.86	1.28	0.61	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.40	0.00	0.00	0.00	1.48	0.69	3.26	0.74	0.60	0.11	0.12	0.49
TOTAL DIRECT EXPENSES	33.58	0.00	0.00	0.00	52.61	28.07	154.28	41.84	41.97	10.27	16.64	138.16
NET INCOME	-33.58	0.00	0.00	0.00	-52.61	-28.07	-154.28	-41.84	-41.97	-10.27	-16.64	573.97
NET INCOME TO DATE	-33.58	-33.58	-33.58	-33.58	-86.19	-114.26	-268.54	-310.38	-352.35	-362.62	-379.26	194.71

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

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

\* Lease costs are based on hourly usage costs.

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

PRODUCT	-----PERCENT-----												
	75	80	85	90	95	100	105	110	115	120	125		
-----	-----PRODUCT PRICE-----												
Cotton Lint	0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05		
PERCENT	YIELD	UNIT	-----dollars-----										
50	375.00	lb	-167	-152	-136	-120	-104	-88	-72	-56	-41	-25	-9
			-272	-256	-241	-225	-209	-193	-177	-161	-145	-130	-114
60	450.00	lb	-127	-108	-89	-70	-51	-31	-12	6	25	44	63
			-232	-212	-193	-174	-155	-136	-117	-98	-79	-60	-41
70	525.00	lb	-86	-64	-41	-19	2	24	46	69	91	113	135
			-191	-169	-146	-124	-102	-80	-57	-35	-13	8	30
80	600.00	lb	-45	-20	5	30	55	81	106	132	157	182	208
			-150	-125	-99	-74	-48	-23	1	27	52	78	103
90	675.00	lb	-4	23	52	80	109	138	166	195	223	252	280
			-109	-81	-52	-23	4	33	61	90	118	147	175
100	750.00	lb	36	67	99	131	162	194	226	258	289	321	353
			-68	-37	-5	26	58	89	121	153	185	216	248
110	825.00	lb	76	111	146	181	216	251	286	321	356	390	425
			-27	6	41	76	111	146	181	216	251	286	321
120	900.00	lb	117	155	193	231	269	308	346	384	422	460	498
			12	50	88	127	165	203	241	279	317	355	393
130	975.00	lb	158	199	241	282	323	364	405	447	488	529	570
			53	94	136	177	218	259	301	342	383	424	466
140	1050.00	lb	199	243	288	332	376	421	465	510	554	599	643
			94	138	183	227	272	316	360	405	449	494	538
150	1125.00	lb	240	287	335	382	430	478	525	573	620	668	716
			135	182	230	278	325	373	420	468	515	563	611

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

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

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

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

Table 9.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	5.50	2.0000	11.00	_____
App by Air ( 3 gal)	appl	4.00	3.2500	13.00	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.74	2.0000	3.48	_____
Ethephon 6E	pt	2.85	1.3300	3.79	_____
Tribufos 6lb	pt	6.53	0.5000	3.27	_____
GINNING					
Gin & Haul	lb	0.09	750.0000	67.50	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	22.00	0.1750	3.85	_____
Amm Nitrate (34% N)	cwt	18.00	1.8000	32.40	_____
Potash (60% K2O)	cwt	23.00	1.4000	32.20	_____
UAN (32% N)	cwt	12.50	1.8000	22.50	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
2,4-D Amine 4	pt	1.74	1.0000	1.74	_____
Glyphosate 3lbs a.e.	oz	0.11	128.0000	14.08	_____
Dual Magnum	pt	12.64	1.0000	12.64	_____
Diuron 80%	lb	4.55	1.0000	4.55	_____
INSECTICIDES					
Acephate 90%	lb	8.21	1.5200	12.48	_____
Centric 40WG	oz	4.22	2.0000	8.44	_____
Karate Z	oz	2.87	0.5000	1.44	_____
Bidrin 8WM	oz	0.85	2.0000	1.70	_____
Incidental Pest Trt	acre	12.00	1.0000	12.00	_____
SEED/PLANTS					
Cotton Seed B2RF	thous	0.61	45.0000	27.45	_____
TECHNOLOGY FEE					
B2RF Cot Tech Fee	thous	1.49	45.0000	67.05	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.10	16.0000	1.60	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	6.25	1.0000	6.25	_____
ERADICATION FEE					
Eradication	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING					
Insect Scouting	acre	7.00	1.0000	7.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.5000	23.00	_____
OPERATOR LABOR					
Tractors	hour	11.35	0.9212	10.47	_____
Self-Propelled	hour	11.35	0.3018	3.43	_____
HAND LABOR					
Implements	hour	9.06	0.4136	3.75	_____
Self-Propelled	hour	9.06	0.2798	2.54	_____
UNALLOCATED LABOR					
	hour	11.34	0.9785	11.10	_____
DIESEL FUEL					
Tractors	gal	2.39	9.0100	21.53	_____
Self-Propelled	gal	2.39	5.0405	12.05	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	3.68	1.0000	3.68	_____
Self-Propelled	acre	14.49	1.0000	14.49	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
TOTAL DIRECT EXPENSES				515.54	_____
FIXED EXPENSES					
Implements	acre	12.52	1.0000	12.52	_____
Tractors	acre	23.87	1.0000	23.87	_____
Self-Propelled	acre	59.84	1.0000	59.84	_____
TOTAL FIXED EXPENSES				96.23	_____
TOTAL SPECIFIED EXPENSES				611.77	_____

Note: Cost of production estimates are based on 2010 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, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.84	750.0000	634.50	_____
Cotton Seed	lb	0.06	1125.0000	77.63	_____
				-----	
TOTAL INCOME				712.13	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.00	1.0000	24.00	_____
HARVEST AIDS	acre	10.54	1.0000	10.54	_____
GINNING	acre	67.50	1.0000	67.50	_____
FERTILIZERS	acre	90.95	1.0000	90.95	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	33.01	1.0000	33.01	_____
INSECTICIDES	acre	36.07	1.0000	36.07	_____
SEED/PLANTS	acre	27.45	1.0000	27.45	_____
TECHNOLOGY FEE	acre	67.05	1.0000	67.05	_____
GROWTH REGULATORS	acre	1.60	1.0000	1.60	_____
CUSTOM FERTILIZE	acre	6.25	1.0000	6.25	_____
ERADICATION FEE	acre	2.00	1.0000	2.00	_____
INSECT SCOUTING	acre	7.00	1.0000	7.00	_____
CUSTOM LIME	acre	23.00	1.0000	23.00	_____
HAND LABOR	hour	9.06	0.6934	6.29	_____
OPERATOR LABOR	hour	11.35	1.2231	13.90	_____
UNALLOCATED LABOR	hour	11.34	0.9785	11.10	_____
DIESEL FUEL	gal	2.39	14.0506	33.58	_____
REPAIR & MAINTENANCE	acre	25.36	1.0000	25.36	_____
INTEREST ON OP. CAP.	acre	8.89	1.0000	8.89	_____
				-----	
TOTAL DIRECT EXPENSES				515.54	_____
RETURNS ABOVE DIRECT EXPENSES				196.59	_____
TOTAL FIXED EXPENSES					
				96.23	_____
				-----	
TOTAL SPECIFIED EXPENSES				611.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				100.36	_____

Note: Cost of production estimates are based on 2010 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, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Lime (Spread)	ton			0.25	Nov	0.5000				
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 Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant&Pre-Rigid	8R-38	MFWD 190	0.083	1.00	May		0.08	0.08	0.16	0.06
Cotton Seed B2RF	thous					45.0000				
B2RF Cot Tech Fee	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Insect Scouting	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Glyphosate 3lbs a.e.	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.2200				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					8.0000				
Glyphosate 3lbs a.e.	oz					32.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32% N)	cwt					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			0.25	Jul	0.2500				
Karate Z	oz					0.5000				
Bidrin 8WM	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
Incidental Pest Trt	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.0000				
Ethephon 6E	pt					1.3300				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R-38(350)		0.257	1.00	Oct			0.25	0.51	0.20
Boll Buggy	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.25	0.20
Module Builder	4R-38(325)	MFWD 190	0.257	1.00	Oct		0.25	0.25	0.51	0.20
Gin & Haul	lb			1.00	Oct	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 2010 input prices.  
**Fertilization decisions should be based on soil tests.**

Table 9.D Estimated costs for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2RF variety, Non-Delta Area, Mississippi, 2011

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Lime (Spread)	ton	23.00						1.00	24.00	24.00
Phosphorus(46% P2O5)	cwt	3.85						0.17	4.02	4.02
App by Air ( 5 gal)	appl	5.50						0.16	5.66	5.66
2,4-D Amine 4	pt	1.74						0.05	1.79	1.79
Glyphosate 3lbs a.e.	oz	3.52						0.10	3.62	3.62
Custom Apply Fert	acre	6.25						0.18	6.43	6.43
Amm Nitrate (34% N)	cwt	32.40						0.94	33.34	33.34
Potash (60% K2O)	cwt	32.20						0.93	33.13	33.13
Row Cond Rigid	26'		1.40	0.41	1.22			0.07	3.10	2.31
NT Plant&Pre-Rigid	8R-38		1.95	1.49	2.47			0.13	6.04	4.48
Cotton Seed B2RF	thous	27.45						0.59	28.04	28.04
B2RF Cot Tech Fee	thous	67.05						1.45	68.50	68.50
Cotton Seed Trt.	acre	20.00						0.43	20.43	20.43
Insect Scouting	acre	7.00						0.15	7.15	7.15
Eradication	acre	2.00						0.04	2.04	2.04
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95
Glyphosate 3lbs a.e.	oz	3.52						0.08	3.60	3.60
Dual Magnum	pt	12.64						0.27	12.91	12.91
Acephate 90%	lb	1.81						0.04	1.85	1.85
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.44			0.02	0.98	0.95
Centric 40WG	oz	8.44						0.15	8.59	8.59
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
Fert Appl (Liquid)	8R-38		1.81	1.14	1.93			0.09	4.97	2.98
UAN (32% N)	cwt	22.50						0.41	22.91	22.91
Spray (Direct/Layby)	8R-38		1.56	0.61	1.67			0.07	3.91	2.16
Diuron 80%	lb	4.55						0.08	4.63	4.63
Glyphosate 3lbs a.e.	oz	3.52						0.06	3.58	3.58
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Mepiquat Chloride	oz	0.80						0.01	0.81	0.81
Acephate 90%	lb	4.52						0.07	4.59	4.59
App by Air ( 3 gal)	appl	1.00						0.01	1.01	1.01
Karate Z	oz	1.44						0.02	1.46	1.46
Bidrin 8WM	oz	1.70						0.02	1.72	1.72
Incidental Pest										
App by Air ( 3 gal)	appl	4.00						0.06	4.06	4.06
Incidental Pest Trt	acre	12.00						0.17	12.17	12.17
App by Air ( 3 gal)	appl	4.00						0.04	4.04	4.04
Acephate 90%	lb	6.16						0.07	6.23	6.23
App by Air ( 5 gal)	appl	5.50						0.04	5.54	5.54
Thidiazuron 4lb	oz	3.48						0.03	3.51	3.51
Ethephon 6E	pt	3.79						0.03	3.82	3.82
Sprayer 600-750gal	60' 175hp		0.19	0.07	0.22				0.48	0.48
Tribufos 6lb	pt	3.27						0.02	3.29	3.29
Cotton Picker	4R-38(350)		11.10	14.14	7.61			0.12	32.97	57.46
Boll Buggy	4R-38(325)		6.03	2.51	5.27			0.05	13.86	9.81
Module Builder	4R-38(325)		6.03	3.00	7.61			0.06	16.70	10.83
Gin & Haul	lb	67.50						0.24	67.74	67.74
Stalk Shredder	14'		2.75	1.71	2.41			0.02	6.89	3.82
TOTALS		416.42	33.58	25.36	31.29	0.00	8.89	515.54	96.23	611.77

Note: Cost of production estimates are based on 2010 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, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	712.13
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	5.50	0.00	0.00	0.00	9.00	4.00	5.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.54	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.50
FERTILIZERS	3.85	0.00	0.00	0.00	64.60	0.00	0.00	22.50	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	5.26	0.00	16.16	11.59	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	1.81	8.44	19.66	6.16	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	27.45	0.00	0.00	0.00	0.00	0.00
TECHNOLOGY FEE	0.00	0.00	0.00	0.00	0.00	0.00	67.05	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
INSECT SCOUTING	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.04	0.00	0.00	0.22	22.90
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	3.73	3.75	0.00	0.00	0.19	25.91
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.04	1.89	0.00	0.00	0.07	21.36
INTEREST ON OP. CAP.	1.17	0.00	0.00	0.00	2.36	0.00	3.27	0.95	0.42	0.11	0.12	0.49
TOTAL DIRECT EXPENSES	28.02	0.00	0.00	0.00	83.97	0.00	154.64	53.96	29.88	10.27	16.64	138.16
NET INCOME	-28.02	0.00	0.00	0.00	-83.97	0.00	-154.64	-53.96	-29.88	-10.27	-16.64	573.97
NET INCOME TO DATE	-28.02	-28.02	-28.02	-28.02	-111.99	-111.99	-266.63	-320.59	-350.47	-360.74	-377.38	196.59

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

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

\* Lease costs are based on hourly usage costs.



Table 9.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2RF variety, Non-Delta Area, Mississippi, 2011

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.63	0.67	0.71	0.76	0.80	0.84	0.88	0.93	0.97	1.01	1.05
PERCENT	YIELD	UNIT	dollars										
50	375.00	lb	-166 -262	-150 -246	-134 -230	-118 -214	-102 -198	-86 -183	-70 -167	-55 -151	-39 -135	-23 -119	-7 -103
60	450.00	lb	-125 -221	-106 -202	-87 -183	-68 -164	-49 -145	-30 -126	-11 -107	7 -88	26 -69	46 -50	65 -31
70	525.00	lb	-84 -180	-62 -158	-40 -136	-17 -114	4 -91	26 -69	48 -47	70 -25	93 -3	115 19	137 41
80	600.00	lb	-43 -139	-18 -114	7 -89	32 -63	57 -38	83 -12	108 12	133 37	159 63	184 88	210 113
90	675.00	lb	-2 -99	25 -70	54 -41	82 -13	111 15	139 43	168 72	197 100	225 129	254 157	282 186
100	750.00	lb	37 -58	69 -26	101 5	133 36	164 68	196 100	228 132	260 163	291 195	323 227	355 258
110	825.00	lb	78 -17	113 17	148 52	183 87	218 122	253 157	288 191	323 226	357 261	392 296	427 331
120	900.00	lb	119 23	157 61	195 99	233 137	271 175	309 213	348 251	386 289	424 327	462 365	500 404
130	975.00	lb	160 64	201 105	242 146	284 187	325 229	366 270	407 311	449 352	490 394	531 435	572 476
140	1050.00	lb	201 104	245 149	290 193	334 238	378 282	423 327	467 371	512 415	556 460	600 504	645 549
150	1125.00	lb	242 145	289 193	337 240	384 288	432 336	479 383	527 431	575 478	622 526	670 574	717 621

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



## APPENDIX

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

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

## Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

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

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

## Notes:

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

Direct: Does not include interest on operating capital.

BB = Boll Buggy, Tr = Trailer















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

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

## Notes:

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

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

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

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

(continued)

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

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

(continued)

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

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

(continued)

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
UAN (32% N)	cwt	3.75						0.09	3.84		3.84
Set Up Engine											
IRRIGATE LABOR	hour				0.27			0.01	0.28		0.28
Maintenance											
IRRIGATE LABOR	hour				1.07			0.02	1.09		1.09
UAN (32% N)	cwt	3.75						0.07	3.82		3.82
Apply Water											
IRRIGATE LABOR	hour				0.15				0.15		0.15
Sprayer 600-750gal	60' 175hp		0.38	0.14	0.28			0.01	0.81	0.95	1.76
Caparol 4L	pt	3.36						0.06	3.42		3.42
MSMA 6.6	pt	7.40						0.13	7.53		7.53
App by Air ( 3 gal)	appl	4.00						0.07	4.07		4.07
Mepiquat Chloride	oz	0.80						0.01	0.81		0.81
Apply Water											
IRRIGATE LABOR	hour				0.20				0.20		0.20
Incidental Pest											
App by Air ( 3 gal)	appl	2.00						0.03	2.03		2.03
Incidental Pest Trt	acre	6.00						0.09	6.09		6.09
Apply Water											
IRRIGATE LABOR	hour				0.15				0.15		0.15
Pivot, 1/4 CP	each			11.56				0.21	11.77	48.35	60.12
Well & Pump, 1/4 CP	each			2.84				0.05	2.89	8.84	11.73
Engine, 1/4 CP, 65	each									6.14	6.14
June Irr. 3app@.75"	ac-in		8.03	0.83				0.16	9.02		9.02
July Irr. 4app@.75"	ac-in		10.71	1.10				0.17	11.98		11.98
Aug Irr. 3app@.75"	ac-in		8.03	0.83				0.10	8.96		8.96
TOTALS		31.06	27.15	17.30	2.12	0.00		1.28	78.91	64.28	143.19

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

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