

**COTTON  
2018  
PLANNING BUDGETS**

**Mississippi State University  
Department of Agricultural Economics  
Budget Report 2017-01**

**October 2017**



## 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 2018 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

## Acknowledgments

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

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

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

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

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# 2018 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 2017. (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 2017 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 first five trading days in 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 specified harvest month futures contract. 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, 12R-38" solid, conservation tillage  
 B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.3300	25.24	_____
UAN (32%)	gal	1.17	34.3582	40.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.0000	30.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.3993	5.39	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR					
	hour	13.52	0.5043	6.82	_____
DIESEL FUEL					
Tractors	gal	1.80	4.6248	8.32	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
REPAIR & MAINTENANCE					
Implements	acre	6.76	1.0000	6.76	_____
Tractors	acre	2.62	1.0000	2.62	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
INTEREST ON OP. CAP.	acre	14.55	1.0000	14.55	_____
TOTAL DIRECT EXPENSES				752.11	_____
FIXED EXPENSES					
Implements	acre	9.62	1.0000	9.62	_____
Tractors	acre	16.51	1.0000	16.51	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
TOTAL FIXED EXPENSES				112.10	_____
TOTAL SPECIFIED EXPENSES				864.21	_____

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1200.0000	792.00	_____
Cotton Seed	lb	0.10	1620.0000	162.00	_____
				-----	
TOTAL INCOME				954.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	65.44	1.0000	65.44	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	90.76	1.0000	90.76	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3252	2.93	_____
OPERATOR LABOR	hour	13.51	0.6304	8.52	_____
UNALLOCATED LABOR	hour	13.52	0.5043	6.82	_____
DIESEL FUEL	gal	1.80	9.6761	17.42	_____
REPAIR & MAINTENANCE	acre	30.70	1.0000	30.70	_____
INTEREST ON OP. CAP.	acre	14.55	1.0000	14.55	_____
				-----	
TOTAL DIRECT EXPENSES				752.11	_____
RETURNS ABOVE DIRECT EXPENSES				201.89	_____
				-----	
TOTAL FIXED EXPENSES				112.10	_____
				-----	
TOTAL SPECIFIED EXPENSES				864.21	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				89.79	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.3300				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
IncidentalPestTrt\$30	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.63	0.39	0.95	0.50

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.16	3.49		3.49
Lime (Spread)	ton	30.64						1.46	32.10		32.10
Custom Apply Fert	acre	7.50						0.36	7.86		7.86
Potash (60% K2O)	cwt	25.24						1.20	26.44		26.44
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55	8.87
Bed/Disk (Hipper)	12R-38		0.51	0.34	0.60			0.07	1.52	1.50	3.02
App by Air ( 5 gal)	appl	6.50						0.21	6.71		6.71
Clarity	pt	5.78						0.18	5.96		5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62		4.62
Select Max	pt	12.64						0.40	13.04		13.04
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88	6.54
UAN (32%)	gal	20.10						0.56	20.66		20.66
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82	5.26
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69	9.19
Cotton Seed B2XF	thous	135.00						3.21	138.21		138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48		20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37		7.37
Cotoran	pt	12.84						0.30	13.14		13.14
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.19	8.19		8.19
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15	1.96
Dual Magnum	pt	13.80						0.33	14.13		14.13
Liberty 280	oz	17.40						0.41	17.81		17.81
Acephate 90%	lb	1.86						0.04	1.90		1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Bidrin 8EC	oz	0.23						0.01	0.24		0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15	1.96
Centric 40WG	oz	10.76						0.21	10.97		10.97
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88	6.51
UAN (32%)	gal	20.10						0.40	20.50		20.50
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Diamond .83EC	oz	8.40						0.17	8.57		8.57
Imidacloprid 4F	oz	1.56						0.03	1.59		1.59
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20	5.04
Diuron	pt	6.24						0.10	6.34		6.34
Liberty 280	oz	17.40						0.28	17.68		17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.57						0.09	5.66		5.66
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Bifenthrin	oz	4.99						0.08	5.07		5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27		1.27
Lambda	oz	1.04						0.02	1.06		1.06
Bidrin 8EC	oz	2.34						0.04	2.38		2.38
Incidental Pest											
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
IncidentalPestTrt\$30	acre	30.00						0.48	30.48		30.48
App by Air ( 3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.57						0.07	5.64		5.64
Bifenthrin	oz	4.99						0.06	5.05		5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06		5.06
Centric 40WG	oz	13.45						0.16	13.61		13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48		3.48
Ethephon 6E	pt	5.76						0.05	5.81		5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28		3.28
Tribufos 6lb	pt	5.27						0.04	5.31		5.31
Ethephon 6E	pt	0.90						0.01	0.91		0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27	115.74
Gin & Haul	lb	132.00						0.52	132.52		132.52
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61	10.88
TOTALS		671.17	17.42	30.70	18.27	0.00	14.55	752.11	112.10	864.21	

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 1.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Delta Area, Mississippi, 2018

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	954.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	132.00
FERTILIZERS	25.24	0.00	0.00	0.00	0.00	20.10	0.00	20.10	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	22.90	0.00	69.52	0.00	23.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	20.72	43.94	24.01	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.00	1.49	4.01	1.83	1.28	0.00	0.00	7.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.63	0.00	0.00	0.00	0.00	1.08	2.73	1.35	0.93	0.00	0.00	9.70
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.00	0.99	2.79	1.17	0.59	0.00	0.00	23.13
INTEREST ON OP. CAP.	3.45	0.00	0.00	0.00	0.95	0.66	5.84	1.02	1.33	0.41	0.21	0.68
TOTAL DIRECT EXPENSES	75.73	0.00	0.00	0.00	31.01	24.32	251.64	52.31	84.08	34.42	25.34	173.26
NET INCOME	-75.73	0.00	0.00	0.00	-31.01	-24.32	-251.64	-52.31	-84.08	-34.42	-25.34	780.74
NET INCOME TO DATE	-75.73	-75.73	-75.73	-75.73	-106.74	-131.06	-382.70	-435.01	-519.09	-553.51	-578.85	201.89

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.



Table 1.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-226 -338	-207 -319	-187 -299	-167 -279	-147 -259	-127 -239	-108 -220	-88 -200	-68 -180	-48 -160	-28 -140
60	720.00	lb	-180 -292	-156 -269	-133 -245	-109 -221	-85 -197	-61 -174	-38 -150	-14 -126	9 -102	33 -78	56 -55
70	840.00	lb	-134 -246	-106 -218	-79 -191	-51 -163	-23 -135	4 -108	31 -80	59 -52	87 -24	114 2	142 30
80	960.00	lb	-88 -200	-56 -168	-25 -137	6 -105	38 -73	69 -42	101 -10	133 21	165 52	196 84	228 116
90	1080.00	lb	-42 -154	-6 -118	29 -83	64 -47	100 -11	135 23	171 59	207 95	242 130	278 166	314 202
100	1200.00	lb	3 -108	43 -68	83 -29	122 10	162 50	201 89	241 129	281 168	320 208	360 248	399 287
110	1320.00	lb	50 -62	93 -18	137 25	180 68	224 112	267 155	311 199	354 242	398 286	442 329	485 373
120	1440.00	lb	96 -15	143 31	191 79	238 126	286 174	333 221	381 269	428 316	476 364	523 411	571 459
130	1560.00	lb	142 30	193 81	245 133	296 184	348 236	399 287	451 339	502 390	554 442	605 493	657 545
140	1680.00	lb	188 76	243 131	299 187	354 242	410 298	465 353	521 409	576 464	632 519	687 575	742 630
150	1800.00	lb	234 122	294 181	353 241	412 300	472 360	531 419	591 478	650 538	709 597	769 657	828 716

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 2017 input prices.

Table 2.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage,  
B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	6.7500	33.75	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.5000	28.47	_____
UAN (32%)	gal	1.17	34.3582	40.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.5000	45.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.5025	6.79	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR					
	hour	13.50	0.5240	7.08	_____
DIESEL FUEL					
Tractors	gal	1.80	5.6368	10.16	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
Roll-Out Pipe Irr.	gal	1.80	8.5535	15.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.14	1.0000	7.14	_____
Tractors	acre	3.17	1.0000	3.17	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
Roll-Out Pipe Irr.	acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	acre	15.91	1.0000	15.91	_____
TOTAL DIRECT EXPENSES				851.58	_____
FIXED EXPENSES					
Implements	acre	11.11	1.0000	11.11	_____
Tractors	acre	20.04	1.0000	20.04	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
Roll-Out Pipe Irr.	acre	53.42	1.0000	53.42	_____
TOTAL FIXED EXPENSES				170.54	_____
TOTAL SPECIFIED EXPENSES				1022.12	_____

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1500.0000	990.00	_____
Cotton Seed	lb	0.10	2025.0000	202.50	_____
				-----	
TOTAL INCOME				1192.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	50.00	1.0000	50.00	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	68.67	1.0000	68.67	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	105.76	1.0000	105.76	_____
IRRIGATION SUPPLIES	acre	8.25	1.0000	8.25	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3252	2.93	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	13.51	0.7336	9.92	_____
UNALLOCATED LABOR	hour	13.50	0.5240	7.08	_____
DIESEL FUEL	gal	1.80	19.2417	34.65	_____
REPAIR & MAINTENANCE	acre	38.52	1.0000	38.52	_____
INTEREST ON OP. CAP.	acre	15.91	1.0000	15.91	_____
				-----	
TOTAL DIRECT EXPENSES				851.58	_____
RETURNS ABOVE DIRECT EXPENSES				340.92	_____
TOTAL FIXED EXPENSES				170.54	_____
				-----	
TOTAL SPECIFIED EXPENSES				1022.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				170.38	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air ( 3 gal)	appl					1.5000				
IncidentalPestTrt\$30	acre					1.5000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
TOTALS							0.73	0.50	1.42	0.52

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.16	3.49		3.49
Lime (Spread)	ton	30.64						1.46	32.10		32.10
Custom Apply Fert	acre	7.50						0.36	7.86		7.86
Potash (60% K2O)	cwt	28.47						1.35	29.82		29.82
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55	8.87
Bed/Disk (Hipper)	12R-38		1.03	0.68	1.20			0.14	3.05	2.99	6.04
App by Air ( 5 gal)	appl	6.50						0.21	6.71		6.71
Clarity	pt	5.78						0.18	5.96		5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62		4.62
Select Max	pt	12.64						0.40	13.04		13.04
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88	6.54
UAN (32%)	gal	20.10						0.56	20.66		20.66
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82	5.26
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69	9.19
Cotton Seed B2XF	thous	135.00						3.21	138.21		138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48		20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37		7.37
Cotoran	pt	12.84						0.30	13.14		13.14
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.19	8.19		8.19
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15	1.96
Dual Magnum	pt	13.80						0.33	14.13		14.13
Liberty 280	oz	17.40						0.41	17.81		17.81
Acephate 90%	lb	1.86						0.04	1.90		1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Bidrin 8EC	oz	0.23						0.01	0.24		0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15	1.96
Centric 40WG	oz	10.76						0.21	10.97		10.97
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88	6.51
UAN (32%)	gal	20.10						0.40	20.50		20.50
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Diamond .83EC	oz	8.40						0.17	8.57		8.57
Imidacloprid 4F	oz	1.56						0.03	1.59		1.59
App by Air ( 3 gal)	appl	5.00						0.10	5.10		5.10
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20	5.04
Diuron	pt	6.24						0.10	6.34		6.34
Liberty 280	oz	17.40						0.28	17.68		17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08		5.08
Acephate 90%	lb	5.57						0.09	5.66		5.66
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Bifenthrin	oz	4.99						0.08	5.07		5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27		1.27
Lambda	oz	1.04						0.02	1.06		1.06
Bidrin 8EC	oz	2.34						0.04	2.38		2.38
Incidental Pest											
App by Air ( 3 gal)	appl	7.50						0.12	7.62		7.62
IncidentalPestTrt\$30	acre	45.00						0.71	45.71		45.71
App by Air ( 3 gal)	appl	5.00						0.06	5.06		5.06
Acephate 90%	lb	5.57						0.07	5.64		5.64
Bifenthrin	oz	4.99						0.06	5.05		5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06		5.06
Centric 40WG	oz	13.45						0.16	13.61		13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55		6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48		3.48
Ethephon 6E	pt	5.76						0.05	5.81		5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28		3.28
Tribufos 6lb	pt	5.27						0.04	5.31		5.31
Ethephon 6E	pt	0.90						0.01	0.91		0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27	115.74
Gin & Haul	lb	165.00						0.65	165.65		165.65
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61	10.88
Roll-Out Pipe Irr.	acre	8.25	16.71	7.48	4.36			0.62	37.42	56.95	94.37
TOTALS		739.27	34.65	38.52	23.23	0.00	15.91	851.58	170.54	1022.12	

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 2.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

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	1192.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	10.00	13.75	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	165.00
FERTILIZERS	28.47	0.00	0.00	0.00	0.00	20.10	0.00	20.10	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	22.90	0.00	69.52	0.00	23.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	20.72	58.94	24.01	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.25	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.51	0.00	0.00	0.00	0.00	1.49	4.24	4.40	1.51	0.23	0.59	8.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.15	0.00	0.00	0.00	0.00	1.08	2.73	6.83	6.06	5.13	0.30	10.37
REPAIR & MAINTENANCE	2.37	0.00	0.00	0.00	0.00	0.99	2.79	5.59	1.90	1.31	0.13	23.44
INTEREST ON OP. CAP.	3.67	0.00	0.00	0.00	0.95	0.66	5.85	1.55	1.70	0.49	0.22	0.82
TOTAL DIRECT EXPENSES	80.64	0.00	0.00	0.00	31.01	24.32	251.88	79.68	108.62	41.17	26.37	207.89
NET INCOME	-80.64	0.00	0.00	0.00	-31.01	-24.32	-251.88	-79.68	-108.62	-41.17	-26.37	984.61
NET INCOME TO DATE	-80.64	-80.64	-80.64	-80.64	-111.65	-135.97	-387.85	-467.53	-576.15	-617.32	-643.69	340.92

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-195 -365	-170 -340	-145 -316	-120 -291	-96 -266	-71 -241	-46 -217	-21 -192	2 -167	27 -142	52 -118
60	900.00	lb	-137 -307	-107 -278	-77 -248	-48 -218	-18 -189	11 -159	40 -129	70 -99	100 -70	129 -40	159 -10
70	1050.00	lb	-79 -250	-44 -215	-10 -180	24 -146	58 -111	93 -76	128 -42	162 -7	197 27	232 61	266 96
80	1200.00	lb	-21 -192	17 -152	57 -113	96 -73	136 -34	176 5	215 45	255 84	294 124	334 163	374 203
90	1350.00	lb	35 -134	80 -90	124 -45	169 -1	213 43	258 87	303 132	347 177	392 221	436 266	481 310
100	1500.00	lb	93 -77	142 -27	192 21	241 71	291 120	340 170	390 219	439 269	489 318	538 368	588 417
110	1650.00	lb	151 -19	205 35	260 89	314 143	368 198	423 252	477 307	532 361	586 416	641 470	695 525
120	1800.00	lb	208 38	268 97	327 157	386 216	446 275	505 335	565 394	624 454	683 513	743 572	802 632
130	1950.00	lb	266 95	330 160	395 224	459 288	523 353	588 417	652 482	716 546	781 610	845 675	909 739
140	2100.00	lb	324 153	393 222	462 292	532 361	601 430	670 500	739 569	809 638	878 708	947 777	1017 846
150	2250.00	lb	381 211	456 285	530 359	604 434	678 508	753 582	827 656	901 731	975 805	1050 879	1124 953

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 2017 input prices.

Table 3.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage  
GLB2 variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.5000	28.47	_____
UAN (32%)	gal	1.17	34.3582	40.20	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.0000	30.00	_____
SEED/PLANTS					
Cotton Seed GLB2	thous	3.10	45.0000	139.50	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.3993	5.39	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR					
hour	hour	13.52	0.5043	6.82	_____
DIESEL FUEL					
Tractors	gal	1.80	4.6248	8.32	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
REPAIR & MAINTENANCE					
Implements	acre	6.76	1.0000	6.76	_____
Tractors	acre	2.62	1.0000	2.62	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
INTEREST ON OP. CAP.	acre	14.32	1.0000	14.32	_____
TOTAL DIRECT EXPENSES				739.61	_____
FIXED EXPENSES					
Implements	acre	9.62	1.0000	9.62	_____
Tractors	acre	16.51	1.0000	16.51	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
TOTAL FIXED EXPENSES				112.10	_____
TOTAL SPECIFIED EXPENSES				851.71	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 3.B Summary of estimated costs and returns per acre  
Cotton, 12R-38" solid, conservation tillage  
GLB2 variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1200.0000	792.00	_____
Cotton Seed	lb	0.10	1620.0000	162.00	_____
				-----	
TOTAL INCOME				954.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	68.67	1.0000	68.67	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	90.76	1.0000	90.76	_____
SEED/PLANTS	acre	139.50	1.0000	139.50	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3252	2.93	_____
OPERATOR LABOR	hour	13.51	0.6304	8.52	_____
UNALLOCATED LABOR	hour	13.52	0.5043	6.82	_____
DIESEL FUEL	gal	1.80	9.6761	17.42	_____
REPAIR & MAINTENANCE	acre	30.70	1.0000	30.70	_____
INTEREST ON OP. CAP.	acre	14.32	1.0000	14.32	_____
				-----	
TOTAL DIRECT EXPENSES				739.61	_____
RETURNS ABOVE DIRECT EXPENSES				214.39	_____
				-----	
TOTAL FIXED EXPENSES				112.10	_____
				-----	
TOTAL SPECIFIED EXPENSES				851.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				102.29	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 3.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 GLB2 variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed GLB2	thous					45.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
IncidentalPestTrt\$30	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.63	0.39	0.95	0.50

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 3.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
GLB2 variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	28.47						1.35	29.82	29.82
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55
Bed/Disk (Hipper)	12R-38		0.51	0.34	0.60			0.07	1.52	1.50
App by Air ( 5 gal)	appl	6.50						0.21	6.71	6.71
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Select Max	pt	12.64						0.40	13.04	13.04
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88
UAN (32%)	gal	20.10						0.56	20.66	20.66
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69
Cotton Seed GLB2	thous	139.50						3.31	142.81	142.81
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Dual Magnum	pt	13.80						0.33	14.13	14.13
Liberty 280	oz	17.40						0.41	17.81	17.81
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88
UAN (32%)	gal	20.10						0.40	20.50	20.50
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Diamond .83EC	oz	8.40						0.17	8.57	8.57
Imidacloprid 4F	oz	1.56						0.03	1.59	1.59
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20
Diuron	pt	6.24						0.10	6.34	6.34
Liberty 280	oz	17.40						0.28	17.68	17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.57						0.09	5.66	5.66
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Bifenthrin	oz	4.99						0.08	5.07	5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27	1.27
Lambda	oz	1.04						0.02	1.06	1.06
Bidrin 8EC	oz	2.34						0.04	2.38	2.38
Incidental Pest										
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
IncidentalPestTrt\$30	acre	30.00						0.48	30.48	30.48
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.57						0.07	5.64	5.64
Bifenthrin	oz	4.99						0.06	5.05	5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Centric 40WG	oz	13.45						0.16	13.61	13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28	3.28
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27
Gin & Haul	lb	132.00						0.52	132.52	132.52
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61
TOTALS		658.90	17.42	30.70	18.27	0.00	14.32	739.61	112.10	851.71

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 3.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 GLB2 variety, Delta Area, Mississippi, 2018

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	954.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	132.00
FERTILIZERS	28.47	0.00	0.00	0.00	0.00	20.10	0.00	20.10	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.90	0.00	69.52	0.00	23.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	20.72	43.94	24.01	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	139.50	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.00	1.49	4.01	1.83	1.28	0.00	0.00	7.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.63	0.00	0.00	0.00	0.00	1.08	2.73	1.35	0.93	0.00	0.00	9.70
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.00	0.99	2.79	1.17	0.59	0.00	0.00	23.13
INTEREST ON OP. CAP.	3.60	0.00	0.00	0.00	0.95	0.66	5.46	1.02	1.33	0.41	0.21	0.68
TOTAL DIRECT EXPENSES	79.11	0.00	0.00	0.00	31.01	24.32	235.76	52.31	84.08	34.42	25.34	173.26
NET INCOME	-79.11	0.00	0.00	0.00	-31.01	-24.32	-235.76	-52.31	-84.08	-34.42	-25.34	780.74
NET INCOME TO DATE	-79.11	-79.11	-79.11	-79.11	-110.12	-134.44	-370.20	-422.51	-506.59	-541.01	-566.35	214.39

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 GLB2 variety, Delta Area, Mississippi, 2018

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
			dollars										
PERCENT	YIELD	UNIT											
50	600.00	lb	-214 -326	-194 -306	-174 -286	-154 -267	-135 -247	-115 -227	-95 -207	-75 -187	-55 -168	-36 -148	-16 -128
60	720.00	lb	-168 -280	-144 -256	-120 -232	-96 -209	-73 -185	-49 -161	-25 -137	-1 -113	21 -90	45 -66	69 -42
70	840.00	lb	-122 -234	-94 -206	-66 -178	-38 -150	-11 -123	16 -95	44 -67	71 -40	99 -12	127 15	155 43
80	960.00	lb	-75 -188	-44 -156	-12 -124	19 -92	50 -61	82 -29	114 2	145 33	177 65	209 97	240 128
90	1080.00	lb	-29 -141	5 -106	41 -70	77 -34	112 0	148 36	184 71	219 107	255 143	291 178	326 214
100	1200.00	lb	16 -95	55 -56	95 -16	135 23	174 62	214 102	253 141	293 181	333 221	372 260	412 300
110	1320.00	lb	62 -49	106 -6	149 37	193 81	236 124	280 168	323 211	367 255	411 298	454 342	498 386
120	1440.00	lb	108 -3	156 44	203 91	251 139	298 186	346 234	393 281	441 329	488 376	536 424	583 471
130	1560.00	lb	154 42	206 94	257 145	309 197	360 248	412 300	463 351	515 403	566 454	618 506	669 557
140	1680.00	lb	200 88	256 144	311 199	367 255	422 310	478 366	533 421	589 476	644 532	699 587	755 643
150	1800.00	lb	247 135	306 194	365 253	425 313	484 372	544 432	603 491	662 550	722 610	781 669	841 729

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 2017 input prices.

Table 4.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage,  
GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	6.7500	33.75	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.5000	28.47	_____
UAN (32%)	gal	1.17	34.3582	40.20	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.5000	45.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25	33.0000	8.25	_____
SEED/PLANTS					
Cotton Seed GLB2	thous	3.10	45.0000	139.50	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.5025	6.79	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR					
	hour	13.50	0.5240	7.08	_____
DIESEL FUEL					
Tractors	gal	1.80	5.6368	10.16	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
Roll-Out Pipe Irr.	gal	1.80	8.5535	15.39	_____
REPAIR & MAINTENANCE					
Implements	acre	7.14	1.0000	7.14	_____
Tractors	acre	3.17	1.0000	3.17	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
Roll-Out Pipe Irr.	acre	6.89	1.0000	6.89	_____
INTEREST ON OP. CAP.	acre	15.53	1.0000	15.53	_____
TOTAL DIRECT EXPENSES				835.70	_____
FIXED EXPENSES					
Implements	acre	11.11	1.0000	11.11	_____
Tractors	acre	20.04	1.0000	20.04	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
Roll-Out Pipe Irr.	acre	53.42	1.0000	53.42	_____
TOTAL FIXED EXPENSES				170.54	_____
TOTAL SPECIFIED EXPENSES				1006.24	_____

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 4.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1500.0000	990.00	_____
Cotton Seed	lb	0.10	2025.0000	202.50	_____
				-----	
TOTAL INCOME				1192.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	50.00	1.0000	50.00	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	68.67	1.0000	68.67	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	105.76	1.0000	105.76	_____
IRRIGATION SUPPLIES	acre	8.25	1.0000	8.25	_____
SEED/PLANTS	acre	139.50	1.0000	139.50	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3252	2.93	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	13.51	0.7336	9.92	_____
UNALLOCATED LABOR	hour	13.50	0.5240	7.08	_____
DIESEL FUEL	gal	1.80	19.2417	34.65	_____
REPAIR & MAINTENANCE	acre	38.52	1.0000	38.52	_____
INTEREST ON OP. CAP.	acre	15.53	1.0000	15.53	_____
				-----	
TOTAL DIRECT EXPENSES				835.70	_____
RETURNS ABOVE DIRECT EXPENSES				356.80	_____
				-----	
TOTAL FIXED EXPENSES				170.54	_____
				-----	
TOTAL SPECIFIED EXPENSES				1006.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				186.26	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 4.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed GLB2	thous					45.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air ( 3 gal)	appl					1.5000				
IncidentalPestTrt\$30	acre					1.5000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
TOTALS							0.73	0.50	1.42	0.52

Note: Cost of production estimates are based on 2017 input prices.

- Fertilization decisions should be based on soil tests.**
- Soil test cost is prorated for a test every 3<sup>rd</sup> year.**
- Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 4.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	28.47						1.35	29.82	29.82
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55 8.87
Bed/Disk (Hipper)	12R-38		1.03	0.68	1.20			0.14	3.05	2.99 6.04
App by Air ( 5 gal)	appl	6.50						0.21	6.71	6.71
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Select Max	pt	12.64						0.40	13.04	13.04
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88 6.54
UAN (32%)	gal	20.10						0.56	20.66	20.66
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82 5.26
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69 9.19
Cotton Seed GLB2	thous	139.50						3.31	142.81	142.81
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20 2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15 1.96
Dual Magnum	pt	13.80						0.33	14.13	14.13
Liberty 280	oz	17.40						0.41	17.81	17.81
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20 2.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15 1.96
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88 6.51
UAN (32%)	gal	20.10						0.40	20.50	20.50
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Diamond .83EC	oz	8.40						0.17	8.57	8.57
Imidacloprid 4F	oz	1.56						0.03	1.59	1.59
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20 5.04
Diuron	pt	6.24						0.10	6.34	6.34
Liberty 280	oz	17.40						0.28	17.68	17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.57						0.09	5.66	5.66
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Bifenthrin	oz	4.99						0.08	5.07	5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27	1.27
Lambda	oz	1.04						0.02	1.06	1.06
Bidrin 8EC	oz	2.34						0.04	2.38	2.38
Incidental Pest										
App by Air ( 3 gal)	appl	7.50						0.12	7.62	7.62
IncidentalPestTrt\$30	acre	45.00						0.71	45.71	45.71
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.57						0.07	5.64	5.64
Bifenthrin	oz	4.99						0.06	5.05	5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Centric 40WG	oz	13.45						0.16	13.61	13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28	3.28
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27 115.74
Gin & Haul	lb	165.00						0.65	165.65	165.65
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61 10.88
Roll-Out Pipe Irr.	acre	8.25	16.71	7.48	4.36			0.62	37.42	56.95 94.37
TOTALS		723.77	34.65	38.52	23.23	0.00	15.53	835.70	170.54	1006.24

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 4.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

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	1192.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	10.00	13.75	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	165.00
FERTILIZERS	28.47	0.00	0.00	0.00	0.00	20.10	0.00	20.10	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.90	0.00	69.52	0.00	23.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	20.72	58.94	24.01	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.25	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	139.50	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	2.24	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.51	0.00	0.00	0.00	0.00	1.49	4.24	4.40	1.51	0.23	0.59	8.26
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.15	0.00	0.00	0.00	0.00	1.08	2.73	6.83	6.06	5.13	0.30	10.37
REPAIR & MAINTENANCE	2.37	0.00	0.00	0.00	0.00	0.99	2.79	5.59	1.90	1.31	0.13	23.44
INTEREST ON OP. CAP.	3.67	0.00	0.00	0.00	0.95	0.66	5.47	1.55	1.70	0.49	0.22	0.82
TOTAL DIRECT EXPENSES	80.64	0.00	0.00	0.00	31.01	24.32	236.00	79.68	108.62	41.17	26.37	207.89
NET INCOME	-80.64	0.00	0.00	0.00	-31.01	-24.32	-236.00	-79.68	-108.62	-41.17	-26.37	984.61
NET INCOME TO DATE	-80.64	-80.64	-80.64	-80.64	-111.65	-135.97	-371.97	-451.65	-560.27	-601.44	-627.81	356.80

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 GLB2 variety, furrow irrigated, 10.5 ac-in., Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-179 -349	-154 -324	-129 -300	-104 -275	-80 -250	-55 -225	-30 -201	-5 -176	18 -151	43 -126	68 -102
60	900.00	lb	-121 -291	-91 -262	-62 -232	-32 -202	-2 -173	27 -143	56 -113	86 -84	116 -54	145 -24	175 5
70	1050.00	lb	-63 -234	-29 -199	5 -164	40 -130	74 -95	109 -61	144 -26	178 8	213 42	248 77	282 112
80	1200.00	lb	-6 -176	33 -137	73 -97	112 -57	152 -18	191 21	231 60	271 100	310 140	350 179	389 219
90	1350.00	lb	51 -118	96 -74	140 -29	185 14	229 59	274 103	318 148	363 192	408 237	452 282	497 326
100	1500.00	lb	109 -61	158 -11	208 37	257 87	307 136	356 186	406 235	455 285	505 334	554 384	604 433
110	1650.00	lb	166 -3	221 50	275 105	330 159	384 214	439 268	493 323	548 377	602 432	657 486	711 540
120	1800.00	lb	224 54	284 113	343 172	402 232	462 291	521 351	581 410	640 469	699 529	759 588	818 648
130	1950.00	lb	282 111	346 176	411 240	475 304	539 369	604 433	668 497	732 562	797 626	861 690	925 755
140	2100.00	lb	340 169	409 238	478 308	547 377	617 446	686 516	755 585	825 654	894 723	963 793	1033 862
150	2250.00	lb	397 227	471 301	546 375	620 449	694 524	768 598	843 672	917 746	991 821	1065 895	1140 969

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 2017 input prices.

Table 5.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage,  
B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	4.5000	29.25	_____
App by Air ( 3 gal)	appl	5.00	4.7500	23.75	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.5000	28.47	_____
UAN (32%)	gal	1.17	34.3582	40.20	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.5000	45.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.3993	5.39	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR					
hour	hour	13.52	0.5043	6.82	_____
DIESEL FUEL					
Tractors	gal	1.80	4.6248	8.32	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
1/4-mi. Pivot Irr.	gal	1.80	11.2011	20.16	_____
REPAIR & MAINTENANCE					
Implements	acre	6.76	1.0000	6.76	_____
Tractors	acre	2.62	1.0000	2.62	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
1/4-mi. Pivot Irr.	acre	21.65	1.0000	21.65	_____
INTEREST ON OP. CAP.	acre	16.05	1.0000	16.05	_____
TOTAL DIRECT EXPENSES				860.11	_____
FIXED EXPENSES					
Implements	acre	9.62	1.0000	9.62	_____
Tractors	acre	16.51	1.0000	16.51	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
1/4-mi. Pivot Irr.	acre	74.43	1.0000	74.43	_____
TOTAL FIXED EXPENSES				186.53	_____
TOTAL SPECIFIED EXPENSES				1046.64	_____

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1500.0000	990.00	_____
Cotton Seed	lb	0.10	2025.0000	202.50	_____
				-----	
TOTAL INCOME				1192.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	53.00	1.0000	53.00	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	68.67	1.0000	68.67	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	105.76	1.0000	105.76	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3252	2.93	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	13.51	0.6304	8.52	_____
UNALLOCATED LABOR	hour	13.52	0.5043	6.82	_____
DIESEL FUEL	gal	1.80	20.8772	37.58	_____
REPAIR & MAINTENANCE	acre	52.35	1.0000	52.35	_____
INTEREST ON OP. CAP.	acre	16.05	1.0000	16.05	_____
				-----	
TOTAL DIRECT EXPENSES				860.11	_____
RETURNS ABOVE DIRECT EXPENSES				332.39	_____
				-----	
TOTAL FIXED EXPENSES				186.53	_____
				-----	
TOTAL SPECIFIED EXPENSES				1046.64	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				145.86	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Paratill	Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.04
Bed/Disk (Hipper)		12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.01
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air ( 5 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air ( 3 gal)	appl					1.5000				
IncidentalPestTrt\$30	acre					1.5000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 5 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.63	0.39	1.15	0.50

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	28.47						1.35	29.82	29.82
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55
Bed/Disk (Hipper)	12R-38		0.51	0.34	0.60			0.07	1.52	1.50
App by Air ( 5 gal)	appl	6.50						0.21	6.71	6.71
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Select Max	pt	12.64						0.40	13.04	13.04
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88
UAN (32%)	gal	20.10						0.56	20.66	20.66
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69
Cotton Seed B2XF	thous	135.00						3.21	138.21	138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48	20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Dual Magnum	pt	13.80						0.33	14.13	14.13
Liberty 280	oz	17.40						0.41	17.81	17.81
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88
UAN (32%)	gal	20.10						0.40	20.50	20.50
App by Air ( 5 gal)	appl	6.50						0.13	6.63	6.63
Diamond .83EC	oz	8.40						0.17	8.57	8.57
Imidacloprid 4F	oz	1.56						0.03	1.59	1.59
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20
Diuron	pt	6.24						0.10	6.34	6.34
Liberty 280	oz	17.40						0.28	17.68	17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.57						0.09	5.66	5.66
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Bifenthrin	oz	4.99						0.08	5.07	5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27	1.27
Lambda	oz	1.04						0.02	1.06	1.06
Bidrin 8EC	oz	2.34						0.04	2.38	2.38
Incidental Pest										
App by Air ( 3 gal)	appl	7.50						0.12	7.62	7.62
IncidentalPestTrt\$30	acre	45.00						0.71	45.71	45.71
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.57						0.07	5.64	5.64
Bifenthrin	oz	4.99						0.06	5.05	5.05
App by Air ( 5 gal)	appl	6.50						0.08	6.58	6.58
Centric 40WG	oz	13.45						0.16	13.61	13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28	3.28
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27
Gin & Haul	lb	165.00						0.65	165.65	165.65
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61
1/4-mi. Pivot Irr.	acre		20.16	21.65	1.84			0.78	44.43	74.43
TOTALS		734.02	37.58	52.35	20.11	0.00	16.05	860.11	186.53	1046.64

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 5.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage,  
 B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

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	1192.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	11.50	13.75	11.50	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	165.00
FERTILIZERS	28.47	0.00	0.00	0.00	0.00	20.10	0.00	20.10	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	22.90	0.00	69.52	0.00	23.64	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	20.72	58.94	24.01	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.00	1.49	5.35	1.98	1.48	0.15	0.00	7.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.63	0.00	0.00	0.00	0.00	1.08	2.73	7.40	8.99	6.05	0.00	9.70
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.00	0.99	2.79	19.55	2.46	1.40	0.00	23.13
INTEREST ON OP. CAP.	3.60	0.00	0.00	0.00	0.95	0.66	5.88	1.66	1.76	0.52	0.21	0.81
TOTAL DIRECT EXPENSES	79.11	0.00	0.00	0.00	31.01	24.32	253.02	85.15	112.14	43.63	25.34	206.39
NET INCOME	-79.11	0.00	0.00	0.00	-31.01	-24.32	-253.02	-85.15	-112.14	-43.63	-25.34	986.11
NET INCOME TO DATE	-79.11	-79.11	-79.11	-79.11	-110.12	-134.44	-387.46	-472.61	-584.75	-628.38	-653.72	332.39

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* 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,  
 B2XF variety, pivot irrigated, 7.5 ac.-in., Delta Area, Mississippi, 2018

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	-----dollars-----										
50	750.00	lb	-203	-178	-154	-129	-104	-79	-55	-30	-5	19	43
			-390	-365	-340	-315	-291	-266	-241	-216	-192	-167	-142
60	900.00	lb	-145	-116	-86	-56	-27	2	32	62	91	121	151
			-332	-302	-272	-243	-213	-183	-154	-124	-94	-65	-35
70	1050.00	lb	-88	-53	-18	15	50	85	119	154	189	223	258
			-274	-240	-205	-170	-136	-101	-66	-32	2	37	71
80	1200.00	lb	-30	9	48	88	127	167	207	246	286	325	365
			-217	-177	-137	-98	-58	-19	20	60	99	139	178
90	1350.00	lb	27	71	116	160	205	249	294	339	383	428	472
			-159	-114	-70	-25	18	63	107	152	197	241	286
100	1500.00	lb	84	134	183	233	282	332	381	431	480	530	579
			-101	-52	-2	46	96	145	195	244	294	343	393
110	1650.00	lb	142	197	251	305	360	414	469	523	578	632	687
			-43	10	64	119	173	228	282	337	391	446	500
120	1800.00	lb	200	259	319	378	437	497	556	616	675	734	794
			13	73	132	191	251	310	370	429	488	548	607
130	1950.00	lb	257	322	386	450	515	579	644	708	772	837	901
			71	135	200	264	328	393	457	521	586	650	714
140	2100.00	lb	315	384	454	523	592	662	731	800	870	939	1008
			129	198	267	337	406	475	544	614	683	752	822
150	2250.00	lb	373	447	521	596	670	744	818	893	967	1041	1115
			186	261	335	409	483	558	632	706	780	855	929

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 2017 input prices.

Table 6.A Estimated costs per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.5000	28.47	_____
UAN (32%)	gal	1.17	25.4000	29.72	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	4.5000	24.21	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	4.0000	3.12	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.0000	30.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.2712	3.66	_____
Self-Propelled	hour	13.51	0.2310	3.13	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2016	1.82	_____
UNALLOCATED LABOR	hour	13.51	0.4018	5.43	_____
DIESEL FUEL					
Tractors	gal	1.80	3.1417	5.66	_____
Self-Propelled	gal	1.80	5.0512	9.10	_____
REPAIR & MAINTENANCE					
Implements	acre	4.78	1.0000	4.78	_____
Tractors	acre	1.78	1.0000	1.78	_____
Self-Propelled	acre	21.32	1.0000	21.32	_____
INTEREST ON OP. CAP.	acre	14.10	1.0000	14.10	_____
TOTAL DIRECT EXPENSES				737.16	_____
FIXED EXPENSES					
Implements	acre	6.44	1.0000	6.44	_____
Tractors	acre	11.22	1.0000	11.22	_____
Self-Propelled	acre	85.97	1.0000	85.97	_____
TOTAL FIXED EXPENSES				103.63	_____
TOTAL SPECIFIED EXPENSES				840.79	_____

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 6.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1200.0000	792.00	_____
Cotton Seed	lb	0.10	1620.0000	162.00	_____
				-----	
TOTAL INCOME				954.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	58.19	1.0000	58.19	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	116.06	1.0000	116.06	_____
INSECTICIDES	acre	92.32	1.0000	92.32	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3014	2.72	_____
OPERATOR LABOR	hour	13.51	0.5023	6.79	_____
UNALLOCATED LABOR	hour	13.51	0.4018	5.43	_____
DIESEL FUEL	gal	1.80	8.1930	14.76	_____
REPAIR & MAINTENANCE	acre	27.88	1.0000	27.88	_____
INTEREST ON OP. CAP.	acre	14.10	1.0000	14.10	_____
				-----	
TOTAL DIRECT EXPENSES				737.16	_____
RETURNS ABOVE DIRECT EXPENSES				216.84	_____
				-----	
TOTAL FIXED EXPENSES				103.63	_____
				-----	
TOTAL SPECIFIED EXPENSES				840.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				113.21	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 6.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					4.0000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
IncidentalPestTrt\$30	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 225	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.50	0.27	0.80	0.40

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 6.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	28.47						1.35	29.82	29.82
App by Air ( 5 gal)	appl	6.50						0.21	6.71	6.71
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Select Max	pt	12.64						0.40	13.04	13.04
Surfactant	pt	0.66						0.02	0.68	0.68
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
NT Plant-Folding	12R-38		1.08	1.91	1.73			0.11	4.83	5.15
Cotton Seed B2XF	thous	135.00						3.21	138.21	138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48	20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Dual Magnum	pt	13.80						0.33	14.13	14.13
Liberty 280	oz	17.40						0.41	17.81	17.81
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-825gal	90' 250hp		0.27	0.18	0.34			0.02	0.81	1.15
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88
UAN (32%)	gal	29.72						0.59	30.31	30.31
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Diamond .83EC	oz	8.40						0.17	8.57	8.57
Imidacloprid 4F	oz	3.12						0.06	3.18	3.18
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.06	2.86	2.20
Diuron	pt	6.24						0.12	6.36	6.36
Liberty 280	oz	17.40						0.34	17.74	17.74
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.57						0.09	5.66	5.66
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Bifenthrin	oz	4.99						0.08	5.07	5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27	1.27
Lambda	oz	1.04						0.02	1.06	1.06
Bidrin 8EC	oz	2.34						0.04	2.38	2.38
Incidental Pest										
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
IncidentalPestTrt\$30	acre	30.00						0.48	30.48	30.48
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.57						0.07	5.64	5.64
Bifenthrin	oz	4.99						0.06	5.05	5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Centric 40WG	oz	13.45						0.16	13.61	13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28	3.28
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27
Gin & Haul	lb	132.00						0.52	132.52	132.52
Stalk Shredder-Flail	20'		1.72	2.53	2.00			0.02	6.27	4.61
TOTALS		665.48	14.76	27.88	14.94	0.00	14.10	737.16	103.63	840.79

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 6.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Delta Area, Mississippi, 2018

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	954.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	132.00
FERTILIZERS	28.47	0.00	0.00	0.00	0.00	0.00	0.00	29.72	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	22.90	0.00	69.52	23.64	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	22.28	43.94	24.01	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	4.08	3.11	0.00	0.00	0.00	7.75
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	2.78	2.28	0.00	0.00	0.00	9.70
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	2.99	1.76	0.00	0.00	0.00	23.13
INTEREST ON OP. CAP.	3.33	0.00	0.00	0.00	0.95	0.00	5.85	1.76	0.91	0.41	0.21	0.68
TOTAL DIRECT EXPENSES	73.27	0.00	0.00	0.00	31.01	0.00	251.97	90.67	57.22	34.42	25.34	173.26
NET INCOME	-73.27	0.00	0.00	0.00	-31.01	0.00	-251.97	-90.67	-57.22	-34.42	-25.34	780.74
NET INCOME TO DATE	-73.27	-73.27	-73.27	-73.27	-104.28	-104.28	-356.25	-446.92	-504.14	-538.56	-563.90	216.84

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* 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  
 B2XF variety, Delta Area, Mississippi, 2018

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82		
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-211 -315	-192 -295	-172 -275	-152 -256	-132 -236	-112 -216	-93 -196	-73 -176	-53 -157	-33 -137	-13 -117
60	720.00	lb	-165 -269	-141 -245	-118 -221	-94 -198	-70 -174	-46 -150	-23 -126	0 -103	24 -79	48 -55	71 -31
70	840.00	lb	-119 -223	-91 -195	-64 -167	-36 -140	-8 -112	18 -84	46 -56	74 -29	102 -1	129 26	157 53
80	960.00	lb	-73 -177	-41 -145	-10 -113	21 -82	53 -50	84 -18	116 12	148 44	179 76	211 108	243 139
90	1080.00	lb	-27 -130	8 -95	43 -59	79 -24	115 11	150 47	186 82	222 118	257 154	293 189	329 225
100	1200.00	lb	18 -84	58 -45	98 -5	137 34	177 73	216 113	256 152	296 192	335 232	375 271	414 311
110	1320.00	lb	64 -38	108 4	152 48	195 92	239 135	282 179	326 222	369 266	413 309	457 353	500 396
120	1440.00	lb	111 7	158 55	206 102	253 150	301 197	348 245	396 292	443 340	491 387	538 435	586 482
130	1560.00	lb	157 53	208 105	260 156	311 208	363 259	414 311	466 362	517 414	569 465	620 516	672 568
140	1680.00	lb	203 99	258 155	314 210	369 266	425 321	480 377	536 432	591 487	646 543	702 598	757 654
150	1800.00	lb	249 145	308 205	368 264	427 324	487 383	546 442	605 502	665 561	724 621	784 680	843 739

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 2017 input prices.

Table 7.A Estimated costs per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air ( 5 gal)	appl	6.50	2.5000	16.25	_____
App by Air ( 3 gal)	appl	5.00	5.2500	26.25	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.3500	25.62	_____
UAN (32%)	gal	1.17	32.5498	38.08	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	64.0000	8.96	_____
Select Max	pt	12.64	1.0000	12.64	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	1.6700	23.05	_____
Liberty 280	oz	0.60	58.0000	34.80	_____
Diuron	pt	3.90	1.1000	4.29	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	2.2000	2.57	_____
Centric 40WG	oz	5.38	3.8400	20.66	_____
Diamond .83EC	oz	1.40	6.0000	8.40	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.78	12.8000	9.98	_____
Lambda	oz	1.04	1.0000	1.04	_____
IncidentalPestTrt\$30	acre	30.00	1.0000	30.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	30.0000	90.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	26.7200	1.87	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.8605	11.63	_____
Self-Propelled	hour	13.51	0.2075	2.81	_____
HAND LABOR					
Implements	hour	9.06	0.3404	3.07	_____
Self-Propelled	hour	9.06	0.1899	1.72	_____
UNALLOCATED LABOR					
	hour	13.50	0.8544	11.54	_____
DIESEL FUEL					
Tractors	gal	1.80	9.9659	17.93	_____
Self-Propelled	gal	1.80	3.4215	6.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.36	1.0000	10.36	_____
Tractors	acre	5.64	1.0000	5.64	_____
Self-Propelled	acre	9.97	1.0000	9.97	_____
INTEREST ON OP. CAP.	acre	13.03	1.0000	13.03	_____
TOTAL DIRECT EXPENSES				658.49	_____
FIXED EXPENSES					
Implements	acre	16.19	1.0000	16.19	_____
Tractors	acre	35.57	1.0000	35.57	_____
Self-Propelled	acre	40.33	1.0000	40.33	_____
TOTAL FIXED EXPENSES				92.09	_____
TOTAL SPECIFIED EXPENSES				750.58	_____

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year..**



Table 7.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	811.0000	535.26	_____
Cotton Seed	lb	0.10	1095.0000	109.50	_____
				-----	
TOTAL INCOME				644.76	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	42.50	1.0000	42.50	_____
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	63.70	1.0000	63.70	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	109.56	1.0000	109.56	_____
INSECTICIDES	acre	87.21	1.0000	87.21	_____
SEED/PLANTS	acre	90.00	1.0000	90.00	_____
GROWTH REGULATORS	acre	1.87	1.0000	1.87	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5303	4.79	_____
OPERATOR LABOR	hour	13.51	1.0680	14.44	_____
UNALLOCATED LABOR	hour	13.50	0.8544	11.54	_____
DIESEL FUEL	gal	1.80	13.3875	24.10	_____
REPAIR & MAINTENANCE	acre	25.97	1.0000	25.97	_____
INTEREST ON OP. CAP.	acre	13.03	1.0000	13.03	_____
				-----	
TOTAL DIRECT EXPENSES				658.49	_____
RETURNS ABOVE DIRECT EXPENSES				-13.73	_____
				-----	
TOTAL FIXED EXPENSES				92.09	_____
				-----	
TOTAL SPECIFIED EXPENSES				750.58	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-105.82	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 7.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.3500				
Bed-Paratill Fold	8R-38 2x1	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air ( 5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	May		0.04	0.04	0.06	0.03
Dual Magnum	pt					0.6700				
Liberty 280	oz					29.0000				
Acephate 90%	lb					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
Fert Appl (Liquid)	8R-38 2x1	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
App by Air ( 3 gal)	appl			1.00	Jun	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.1000				
Liberty 280	oz					29.0000				
App by Air ( 3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air ( 3 gal)	appl					1.0000				
IncidentalPestTrt\$30	acre					1.0000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air ( 3 gal)	appl			1.00	Aug	1.0000				
Centric 40WG	oz					2.5000				
App by Air ( 5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air ( 5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
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 225	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 225	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 225	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.06	0.86	1.59	0.85

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 7.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	25.62						1.22	26.84	26.84
Bed-Paratill Fold	8R-38 2x1		1.12	1.69	1.31			0.20	4.32	4.55
Bed/Disk (Hipper)	8R-38 2x1		0.51	0.34	0.60			0.07	1.52	1.50
App by Air ( 5 gal)	appl	6.50						0.21	6.71	6.71
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Select Max	pt	12.64						0.40	13.04	13.04
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	8R-38 2x1		1.08	1.02	1.49			0.10	3.69	2.91
UAN (32%)	gal	19.04						0.53	19.57	19.57
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
Plant - Folding	8R-38 2x1		1.03	1.71	1.66			0.10	4.50	4.69
Cotton Seed B2XF	thous	90.00						2.14	92.14	92.14
Cotton Seed Trt.	acre	13.40						0.32	13.72	13.72
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Spray (Direct/Layby)	8R-38 2x1		0.93	0.59	1.28			0.07	2.87	2.20
Dual Magnum	pt	9.25						0.22	9.47	9.47
Liberty 280	oz	17.40						0.41	17.81	17.81
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Spray (Direct/Layby)	8R-38 2x1		0.93	0.59	1.28			0.06	2.86	2.20
Centric 40WG	oz	7.21						0.14	7.35	7.35
Mepiquat Chloride	oz	0.75						0.01	0.76	0.76
Fert Appl (Liquid)	8R-38 2x1		1.08	1.02	1.49			0.07	3.66	2.91
UAN (32%)	gal	19.04						0.38	19.42	19.42
App by Air ( 3 gal)	appl	5.00						0.10	5.10	5.10
Diamond .83EC	oz	8.40						0.17	8.57	8.57
Imidacloprid 4F	oz	1.56						0.03	1.59	1.59
Spray (Direct/Layby)	8R-38 2x1		0.93	0.59	1.28			0.04	2.84	2.20
Diuron	pt	4.29						0.07	4.36	4.36
Liberty 280	oz	17.40						0.28	17.68	17.68
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
Acephate 90%	lb	5.57						0.09	5.66	5.66
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Bifenthrin	oz	4.99						0.08	5.07	5.07
App by Air ( 3 gal)	appl	1.25						0.02	1.27	1.27
Lambda	oz	1.04						0.02	1.06	1.06
Bidrin 8EC	oz	2.34						0.04	2.38	2.38
Incidental Pest										
App by Air ( 3 gal)	appl	5.00						0.08	5.08	5.08
IncidentalPestTrt\$30	acre	30.00						0.48	30.48	30.48
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Acephate 90%	lb	5.57						0.07	5.64	5.64
Bifenthrin	oz	4.99						0.06	5.05	5.05
App by Air ( 3 gal)	appl	5.00						0.06	5.06	5.06
Centric 40WG	oz	13.45						0.16	13.61	13.61
App by Air ( 5 gal)	appl	6.50						0.05	6.55	6.55
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
App by Air ( 5 gal)	appl	3.25						0.03	3.28	3.28
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Cotton Picker	4R2x1 (350)		5.59	9.61	5.75			0.08	21.03	37.93
Boll Buggy	4R2x1 (350)		3.59	2.44	4.19			0.04	10.26	9.79
Module Builder	4R2x1 (350)		3.59	2.62	5.75			0.05	12.01	10.16
Gin & Haul	lb	89.21						0.35	89.56	89.56
Stalk Shredder-Flail	15'		2.29	2.85	2.68			0.03	7.85	5.83
TOTALS		564.62	24.10	25.97	30.77	0.00	13.03	658.49	92.09	750.58

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 7.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

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	644.76
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	6.50	0.00	0.00	5.00	11.25	10.00	9.75	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	89.21
FERTILIZERS	25.62	0.00	0.00	0.00	0.00	19.04	0.00	19.04	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	22.90	0.00	64.97	0.00	21.69	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	17.17	43.94	24.01	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.00	1.49	4.95	2.77	1.28	0.00	0.00	18.37
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	1.63	0.00	0.00	0.00	0.00	1.08	3.39	2.01	0.93	0.00	0.00	15.06
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.00	1.02	3.20	1.61	0.59	0.00	0.00	17.52
INTEREST ON OP. CAP.	3.47	0.00	0.00	0.00	0.95	0.63	4.55	0.96	1.30	0.41	0.21	0.55
TOTAL DIRECT EXPENSES	76.13	0.00	0.00	0.00	31.01	23.26	196.21	49.31	82.10	34.42	25.34	140.71
NET INCOME	-76.13	0.00	0.00	0.00	-31.01	-23.26	-196.21	-49.31	-82.10	-34.42	-25.34	504.05
NET INCOME TO DATE	-76.13	-76.13	-76.13	-76.13	-107.14	-130.40	-326.61	-375.92	-458.02	-492.44	-517.78	-13.73

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)  
 Conservation tillage, B2XF variety, Delta Area, Mississippi, 2018

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
	PRODUCT PRICE													
	0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82			
PERCENT	YIELD	UNIT	dollars											
50	405.50	lb	-303 -395	-290 -382	-276 -368	-263 -355	-249 -342	-236 -328	-223 -315	-209 -301	-196 -288	-183 -275	-169 -261	
60	486.60	lb	-272 -364	-256 -348	-240 -332	-224 -316	-208 -300	-192 -284	-175 -268	-159 -251	-143 -235	-127 -219	-111 -203	
70	567.70	lb	-241 -333	-222 -314	-203 -295	-184 -276	-166 -258	-147 -239	-128 -220	-109 -202	-91 -183	-72 -164	-53 -145	
80	648.80	lb	-209 -302	-188 -280	-167 -259	-145 -237	-124 -216	-102 -194	-81 -173	-60 -152	-38 -130	-17 -109	4 -87	
90	729.90	lb	-178 -270	-154 -246	-130 -222	-106 -198	-82 -174	-58 -150	-34 -126	-10 -102	13 -78	38 -54	62 -29	
100	811.00	lb	-147 -239	-120 -212	-94 -186	-67 -159	-40 -132	-13 -105	13 -79	39 -52	66 -25	93 1	120 27	
110	892.10	lb	-116 -208	-86 -179	-57 -149	-28 -120	1 -90	30 -61	60 -31	89 -2	119 27	148 56	178 85	
120	973.20	lb	-85 -177	-53 -145	-20 -113	11 -80	43 -48	75 -16	107 15	139 47	171 79	203 111	235 143	
130	1054.30	lb	-53 -146	-19 -111	15 -76	50 -41	85 -6	119 27	154 62	189 97	224 132	259 167	293 201	
140	1135.40	lb	-22 -114	14 -77	52 -39	89 -2	127 34	164 72	202 109	239 147	276 184	314 222	351 259	
150	1216.50	lb	8 -83	48 -43	88 -3	128 36	168 76	209 117	249 157	289 197	329 237	369 277	409 317	

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 2017 input prices.

Table 8.A Estimated costs per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.4000	26.57	_____
UAN (32%)	gal	1.17	28.9332	33.85	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	0.2000	0.23	_____
Centric 40WG	oz	5.38	2.0000	10.76	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.9288	12.56	_____
Self-Propelled	hour	13.51	0.3397	4.61	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	13.50	1.0149	13.71	_____
DIESEL FUEL					
Tractors	gal	1.80	9.0841	16.35	_____
Self-Propelled	gal	1.80	4.6559	8.42	_____
REPAIR & MAINTENANCE					
Implements	acre	10.43	1.0000	10.43	_____
Tractors	acre	5.01	1.0000	5.01	_____
Self-Propelled	acre	14.23	1.0000	14.23	_____
INTEREST ON OP. CAP.	acre	12.43	1.0000	12.43	_____
TOTAL DIRECT EXPENSES				621.72	_____
FIXED EXPENSES					
Implements	acre	16.13	1.0000	16.13	_____
Tractors	acre	31.62	1.0000	31.62	_____
Self-Propelled	acre	60.80	1.0000	60.80	_____
TOTAL FIXED EXPENSES				108.55	_____
TOTAL SPECIFIED EXPENSES				730.27	_____

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 8.B Summary of estimated costs and returns per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1000.0000	660.00	_____
Cotton Seed	lb	0.10	1350.0000	135.00	_____
				-----	
TOTAL INCOME				795.00	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	60.43	1.0000	60.43	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	77.58	1.0000	77.58	_____
INSECTICIDES	acre	45.99	1.0000	45.99	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.6139	5.56	_____
OPERATOR LABOR	hour	13.51	1.2686	17.17	_____
UNALLOCATED LABOR	hour	13.50	1.0149	13.71	_____
DIESEL FUEL	gal	1.80	13.7400	24.77	_____
REPAIR & MAINTENANCE	acre	29.67	1.0000	29.67	_____
INTEREST ON OP. CAP.	acre	12.43	1.0000	12.43	_____
				-----	
TOTAL DIRECT EXPENSES				621.72	_____
RETURNS ABOVE DIRECT EXPENSES				173.28	_____
				-----	
TOTAL FIXED EXPENSES				108.55	_____
				-----	
TOTAL SPECIFIED EXPENSES				730.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				64.73	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 8.C Estimated resource use for field operations, per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.4000				
Bed-Paratill Fold	8R-38	MFWD 190	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	0.074	0.50	Nov		0.03	0.03	0.03	0.02
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 190	0.074	1.00	May		0.07	0.07	0.14	0.05
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jul		0.06	0.06	0.10	0.05
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.26	0.92	1.88	1.01

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 8.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.16	3.49		3.49
Lime (Spread)	ton	30.64						1.46	32.10		32.10
Custom Apply Fert	acre	7.50						0.36	7.86		7.86
Potash (60% K2O)	cwt	26.57						1.26	27.83		27.83
Bed-Paratill Fold	8R-38		1.42	2.03	1.96			0.26	5.67	5.50	11.17
Bed/Disk (Hipper)Rd	8R-38		0.65	0.34	0.90			0.09	1.98	1.64	3.62
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.03	1.01	1.20	2.21
Clarity	pt	5.78						0.18	5.96		5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62		4.62
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	8R-38		1.37	1.37	2.24			0.14	5.12	3.71	8.83
UAN (32%)	gal	16.93						0.47	17.40		17.40
Row Cond Rigid	26'		1.05	0.55	1.46			0.07	3.13	3.00	6.13
Plant - Folding	8R-38		1.31	1.70	2.50			0.13	5.64	5.03	10.67
Cotton Seed B2XF	thous	135.00						3.21	138.21		138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48		20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37		7.37
Cotoran	pt	12.84						0.30	13.14		13.14
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.19	8.19		8.19
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Acephate 90%	lb	1.86						0.04	1.90		1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Bidrin 8EC	oz	0.23						0.01	0.24		0.24
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Centric 40WG	oz	10.76						0.21	10.97		10.97
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Fert Appl (Liquid)	8R-38		1.37	1.37	2.24			0.10	5.08	3.71	8.79
UAN (32%)	gal	16.93						0.34	17.27		17.27
Spray (Direct/Layby)	8R-38		1.18	0.70	1.92			0.06	3.86	2.69	6.55
Diuron	pt	6.24						0.10	6.34		6.34
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Acephate 90%	lb	5.57						0.09	5.66		5.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
IncidentalPestTrt\$22	acre	22.00						0.35	22.35		22.35
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Acephate 90%	lb	5.57						0.07	5.64		5.64
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Thidiazuron 4lb	oz	3.45						0.03	3.48		3.48
Ethephon 6E	pt	5.76						0.05	5.81		5.81
Sprayer 600-750gal	60' 175hp		0.14	0.09	0.26				0.49	0.60	1.09
Tribufos 6lb	pt	5.27						0.04	5.31		5.31
Ethephon 6E	pt	0.90						0.01	0.91		0.91
Cotton Picker	6R-38(355)		5.67	12.52	5.75			0.09	24.03	49.40	73.43
Boll Buggy	6R-38(355)		3.03	2.24	4.19			0.04	9.50	8.54	18.04
Module Builder	6R-38(355)		3.03	2.42	5.75			0.04	11.24	8.91	20.15
Gin & Haul	lb	110.00						0.44	110.44		110.44
Stalk Shredder-Flail	15'		1.94	2.72	2.68			0.03	7.37	5.02	12.39
TOTALS		518.41	24.77	29.67	36.44	0.00	12.43	621.72	108.55	730.27	

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 8.E Estimated monthly income and expense flows per acre  
Cotton, 8R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

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	795.00
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	110.00
FERTILIZERS	26.57	0.00	0.00	0.00	0.00	16.93	0.00	16.93	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	10.26	0.00	56.60	0.00	10.72	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	10.76	27.57	5.57	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.86	0.00	0.00	0.00	0.51	2.24	5.49	2.75	2.94	0.51	0.77	18.37
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	2.07	0.00	0.00	0.00	0.29	1.37	3.23	1.66	1.76	0.29	0.43	13.67
REPAIR & MAINTENANCE	2.37	0.00	0.00	0.00	0.18	1.37	2.79	1.55	1.06	0.18	0.27	19.90
INTEREST ON OP. CAP.	3.59	0.00	0.00	0.00	0.37	0.61	5.58	0.69	0.73	0.08	0.14	0.64
TOTAL DIRECT EXPENSES	78.93	0.00	0.00	0.00	12.27	22.52	240.44	35.46	45.90	6.63	16.99	162.58
NET INCOME	-78.93	0.00	0.00	0.00	-12.27	-22.52	-240.44	-35.46	-45.90	-6.63	-16.99	632.42
NET INCOME TO DATE	-78.93	-78.93	-78.93	-78.93	-91.20	-113.72	-354.16	-389.62	-435.52	-442.15	-459.14	173.28

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* 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  
 B2XF variety, Non-Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-184 -292	-167 -276	-151 -259	-134 -243	-118 -226	-101 -210	-85 -193	-68 -177	-52 -160	-35 -144	-19 -127
60	600.00	lb	-145 -254	-125 -234	-105 -214	-86 -194	-66 -174	-46 -155	-26 -135	-6 -115	12 -95	32 -75	52 -56
70	700.00	lb	-107 -215	-83 -192	-60 -169	-37 -146	-14 -123	8 -100	31 -77	54 -53	77 -30	100 -7	123 15
80	800.00	lb	-68 -177	-42 -150	-15 -124	10 -97	36 -71	63 -45	89 -18	116 7	142 34	168 60	195 86
90	900.00	lb	-30 -138	-0 -109	29 -79	58 -49	88 -19	118 9	148 39	177 69	207 98	237 128	266 158
100	1000.00	lb	8 -100	41 -67	74 -34	107 -1	140 31	173 64	206 97	239 130	272 163	305 196	338 229
110	1100.00	lb	46 -61	83 -25	119 10	155 47	191 83	228 119	264 155	300 192	337 228	373 264	409 301
120	1200.00	lb	85 -23	124 16	164 55	203 95	243 135	283 174	322 214	362 253	401 293	441 333	481 372
130	1300.00	lb	123 15	166 57	209 100	252 143	295 186	338 229	381 272	423 315	466 358	509 401	552 444
140	1400.00	lb	162 53	208 99	254 145	300 192	346 238	393 284	439 330	485 376	531 423	577 469	624 515
150	1500.00	lb	200 92	250 141	299 191	349 240	398 290	448 339	497 389	547 438	596 488	646 537	695 587

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 2017 input prices.

Table 9.A Estimated costs per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.4000	26.57	_____
UAN (32%)	gal	1.17	18.4000	21.53	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	0.2000	0.23	_____
Centric 40WG	oz	5.38	2.0000	10.76	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.7365	9.96	_____
Self-Propelled	hour	13.51	0.3397	4.61	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	13.50	0.8610	11.63	_____
DIESEL FUEL					
Tractors	gal	1.80	7.2030	12.97	_____
Self-Propelled	gal	1.80	4.6559	8.42	_____
REPAIR & MAINTENANCE					
Implements	acre	7.94	1.0000	7.94	_____
Tractors	acre	3.97	1.0000	3.97	_____
Self-Propelled	acre	14.23	1.0000	14.23	_____
INTEREST ON OP. CAP.	acre	11.58	1.0000	11.58	_____
TOTAL DIRECT EXPENSES				585.62	_____
FIXED EXPENSES					
Implements	acre	12.30	1.0000	12.30	_____
Tractors	acre	25.07	1.0000	25.07	_____
Self-Propelled	acre	60.80	1.0000	60.80	_____
TOTAL FIXED EXPENSES				98.17	_____
TOTAL SPECIFIED EXPENSES				683.79	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 9.B Summary of estimated costs and returns per acre  
Cotton, 8R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	900.0000	594.00	_____
Cotton Seed	lb	0.10	1215.0000	121.50	_____
				-----	
TOTAL INCOME				715.50	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	48.10	1.0000	48.10	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	77.58	1.0000	77.58	_____
INSECTICIDES	acre	45.99	1.0000	45.99	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5782	5.23	_____
OPERATOR LABOR	hour	13.51	1.0763	14.57	_____
UNALLOCATED LABOR	hour	13.50	0.8610	11.63	_____
DIESEL FUEL	gal	1.80	11.8590	21.39	_____
REPAIR & MAINTENANCE	acre	26.14	1.0000	26.14	_____
INTEREST ON OP. CAP.	acre	11.58	1.0000	11.58	_____
				-----	
TOTAL DIRECT EXPENSES				585.62	_____
RETURNS ABOVE DIRECT EXPENSES				129.88	_____
TOTAL FIXED EXPENSES					
				98.17	_____
				-----	
TOTAL SPECIFIED EXPENSES				683.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				31.71	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 9.C Estimated resource use for field operations, per acre  
Cotton, 8R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.4000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 190	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant-Folding	8R-38	MFWD 190	0.077	1.00	May		0.07	0.07	0.15	0.06
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	8R-38	MFWD 190	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 190	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker	6R-38(355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 190	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.07	0.73	1.65	0.86

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 9.D Estimated costs for field operations, per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.16	3.49		3.49
Lime (Spread)	ton	30.64						1.46	32.10		32.10
Custom Apply Fert	acre	7.50						0.36	7.86		7.86
Potash (60% K2O)	cwt	26.57						1.26	27.83		27.83
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.03	1.01	1.20	2.21
Clarity	pt	5.78						0.18	5.96		5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62		4.62
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Rigid	26'		1.05	0.55	1.46			0.07	3.13	3.00	6.13
NT Plant-Folding	8R-38		1.37	1.91	2.59			0.14	6.01	5.50	11.51
Cotton Seed B2XF	thous	135.00						3.21	138.21		138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48		20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37		7.37
Cotoran	pt	12.84						0.30	13.14		13.14
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.19	8.19		8.19
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Dual Magnum	pt	13.80						0.33	14.13		14.13
Acephate 90%	lb	1.86						0.04	1.90		1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Bidrin 8EC	oz	0.23						0.01	0.24		0.24
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Centric 40WG	oz	10.76						0.21	10.97		10.97
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Fert Appl (Liquid)	8R-38		1.37	1.37	2.24			0.10	5.08	3.71	8.79
UAN (32%)	gal	21.53						0.43	21.96		21.96
Spray (Direct/Layby)	8R-38		1.18	0.70	1.92			0.08	3.88	2.69	6.57
Diuron	pt	6.24						0.12	6.36		6.36
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57		4.57
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Acephate 90%	lb	5.57						0.09	5.66		5.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
IncidentalPestTrt\$22	acre	22.00						0.35	22.35		22.35
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Acephate 90%	lb	5.57						0.07	5.64		5.64
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Thidiazuron 4lb	oz	3.45						0.03	3.48		3.48
Ethephon 6E	pt	5.76						0.05	5.81		5.81
Sprayer 600-750gal	60' 175hp		0.14	0.09	0.26				0.49	0.60	1.09
Tribufos 6lb	pt	5.27						0.04	5.31		5.31
Ethephon 6E	pt	0.90						0.01	0.91		0.91
Cotton Picker	6R-38(355)		5.67	12.52	5.75			0.09	24.03	49.40	73.43
Boll Buggy	6R-38(355)		3.03	2.24	4.19			0.04	9.50	8.54	18.04
Module Builder	6R-38(355)		3.03	2.42	5.75			0.04	11.24	8.91	20.15
Gin & Haul	lb	99.00						0.39	99.39		99.39
Stalk Shredder-Flail	15'		1.94	2.72	2.68			0.03	7.37	5.02	12.39
TOTALS			495.08	21.39	26.14	31.43	0.00	11.58	585.62	98.17	683.79

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 9.E Estimated monthly income and expense flows per acre  
 Cotton, 8R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

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	715.50
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	99.00
FERTILIZERS	26.57	0.00	0.00	0.00	0.00	0.00	0.00	21.53	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	10.26	0.00	56.60	10.72	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	10.76	27.57	5.57	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	0.51	0.00	5.58	4.67	1.02	0.51	0.77	18.37
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	0.29	0.00	3.29	2.84	0.58	0.29	0.43	13.67
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.18	0.00	3.00	2.25	0.36	0.18	0.27	19.90
INTEREST ON OP. CAP.	3.24	0.00	0.00	0.00	0.37	0.00	5.59	1.07	0.50	0.08	0.14	0.59
TOTAL DIRECT EXPENSES	71.28	0.00	0.00	0.00	12.27	0.00	240.81	54.96	31.15	6.63	16.99	151.53
NET INCOME	-71.28	0.00	0.00	0.00	-12.27	0.00	-240.81	-54.96	-31.15	-6.63	-16.99	563.97
NET INCOME TO DATE	-71.28	-71.28	-71.28	-71.28	-83.55	-83.55	-324.36	-379.32	-410.47	-417.10	-434.09	129.88

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* 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  
 B2XF variety, Non-Delta Area, Mississippi, 2018

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-191	-176	-161	-147	-132	-117	-102	-87	-72	-58	-43
			-289	-274	-260	-245	-230	-215	-200	-185	-171	-156	-141
60	540.00	lb	-157	-139	-121	-103	-85	-67	-50	-32	-14	3	21
			-255	-237	-219	-201	-183	-166	-148	-130	-112	-94	-77
70	630.00	lb	-122	-101	-80	-60	-39	-18	2	23	43	64	85
			-220	-199	-179	-158	-137	-116	-95	-75	-54	-33	-12
80	720.00	lb	-87	-64	-40	-16	7	30	54	78	102	125	149
			-186	-162	-138	-114	-90	-67	-43	-19	4	27	51
90	810.00	lb	-53	-26	0	26	53	80	107	133	160	187	214
			-151	-124	-97	-71	-44	-17	8	35	62	89	115
100	900.00	lb	-18	11	40	70	100	129	159	189	218	248	278
			-116	-87	-57	-27	2	31	61	91	120	150	180
110	990.00	lb	15	48	81	114	146	179	212	244	277	310	342
			-82	-49	-16	15	48	81	113	146	179	211	244
120	1080.00	lb	50	86	121	157	193	228	264	300	335	371	407
			-47	-11	23	59	94	130	166	201	237	273	308
130	1170.00	lb	85	123	162	201	239	278	316	355	394	432	471
			-12	25	64	102	141	180	218	257	295	334	373
140	1260.00	lb	119	161	202	244	286	327	369	410	452	494	535
			21	63	104	146	187	229	271	312	354	395	437
150	1350.00	lb	154	198	243	288	332	377	421	466	510	555	599
			56	100	145	189	234	279	323	368	412	457	501

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 2017 input prices.

Table 10.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.4000	26.57	_____
UAN (32%)	gal	1.17	28.9332	33.85	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	0.2000	0.23	_____
Centric 40WG	oz	5.38	2.0000	10.76	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.4268	5.77	_____
Self-Propelled	hour	13.51	0.3397	4.61	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	13.51	0.6133	8.29	_____
DIESEL FUEL					
Tractors	gal	1.80	4.7451	8.54	_____
Self-Propelled	gal	1.80	5.9419	10.73	_____
REPAIR & MAINTENANCE					
Implements	acre	6.90	1.0000	6.90	_____
Tractors	acre	2.67	1.0000	2.67	_____
Self-Propelled	acre	22.31	1.0000	22.31	_____
INTEREST ON OP. CAP.	acre	12.19	1.0000	12.19	_____
TOTAL DIRECT EXPENSES				603.85	_____
FIXED EXPENSES					
Implements	acre	9.70	1.0000	9.70	_____
Tractors	acre	16.84	1.0000	16.84	_____
Self-Propelled	acre	92.67	1.0000	92.67	_____
TOTAL FIXED EXPENSES				119.21	_____
TOTAL SPECIFIED EXPENSES				723.06	_____

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 10.B Summary of estimated costs and returns per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1000.0000	660.00	_____
Cotton Seed	lb	0.10	1350.0000	135.00	_____
				-----	
TOTAL INCOME				795.00	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	60.43	1.0000	60.43	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	77.58	1.0000	77.58	_____
INSECTICIDES	acre	45.99	1.0000	45.99	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3796	3.43	_____
OPERATOR LABOR	hour	13.51	0.7666	10.38	_____
UNALLOCATED LABOR	hour	13.51	0.6133	8.29	_____
DIESEL FUEL	gal	1.80	10.6871	19.27	_____
REPAIR & MAINTENANCE	acre	31.88	1.0000	31.88	_____
INTEREST ON OP. CAP.	acre	12.19	1.0000	12.19	_____
				-----	
TOTAL DIRECT EXPENSES				603.85	_____
RETURNS ABOVE DIRECT EXPENSES				191.15	_____
TOTAL FIXED EXPENSES					
				119.21	_____
				-----	
TOTAL SPECIFIED EXPENSES				723.06	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				71.94	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 10.C Estimated resource use for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.4000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.76	0.42	1.14	0.61

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 10.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.16	3.49		3.49
Lime (Spread)	ton	30.64						1.46	32.10		32.10
Custom Apply Fert	acre	7.50						0.36	7.86		7.86
Potash (60% K2O)	cwt	26.57						1.26	27.83		27.83
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55	8.87
Bed/Disk (Hipper)	12R-38		0.51	0.34	0.60			0.07	1.52	1.50	3.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.03	1.01	1.20	2.21
Clarity	pt	5.78						0.18	5.96		5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62		4.62
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88	6.54
UAN (32%)	gal	16.93						0.47	17.40		17.40
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82	5.26
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69	9.19
Cotton Seed B2XF	thous	135.00						3.21	138.21		138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48		20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37		7.37
Cotoran	pt	12.84						0.30	13.14		13.14
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.19	8.19		8.19
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Acephate 90%	lb	1.86						0.04	1.90		1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Dual Magnum	pt	13.80						0.33	14.13		14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59		4.59
Bidrin 8EC	oz	0.23						0.01	0.24		0.24
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Centric 40WG	oz	10.76						0.21	10.97		10.97
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88	6.51
UAN (32%)	gal	16.93						0.34	17.27		17.27
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20	5.04
Diuron	pt	6.24						0.10	6.34		6.34
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55		4.55
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
Mepiquat Chloride	oz	1.12						0.02	1.14		1.14
Acephate 90%	lb	5.57						0.09	5.66		5.66
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20	2.20
IncidentalPestTrt\$22	acre	22.00						0.35	22.35		22.35
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Acephate 90%	lb	5.57						0.07	5.64		5.64
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20	2.19
Thidiazuron 4lb	oz	3.45						0.03	3.48		3.48
Ethephon 6E	pt	5.76						0.05	5.81		5.81
Sprayer 600-750gal	60' 175hp		0.14	0.09	0.26				0.49	0.60	1.09
Tribufos 6lb	pt	5.27						0.04	5.31		5.31
Ethephon 6E	pt	0.90						0.01	0.91		0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27	115.74
Gin & Haul	lb	110.00						0.44	110.44		110.44
Stalk Shredder-Flail	15'		1.94	2.72	2.68			0.03	7.37	5.02	12.39
TOTALS			518.41	19.27	31.88	22.10	0.00	12.19	603.85	119.21	723.06

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 10.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF variety, Non-Delta Area, Mississippi, 2018

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	795.00
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	110.00
FERTILIZERS	26.57	0.00	0.00	0.00	0.00	0.00	16.93	0.00	16.93	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	10.26	0.00	56.60	0.00	10.72	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	10.76	27.57	5.57	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.51	1.49	4.18	2.00	2.30	0.51	0.77	8.43
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	1.63	0.00	0.00	0.00	0.29	1.08	2.75	1.37	1.51	0.29	0.43	9.92
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.18	0.99	2.79	1.17	0.95	0.18	0.27	23.32
INTEREST ON OP. CAP.	3.51	0.00	0.00	0.00	0.37	0.57	5.54	0.66	0.71	0.08	0.14	0.61
TOTAL DIRECT EXPENSES	77.12	0.00	0.00	0.00	12.27	21.06	238.61	34.01	44.88	6.63	16.99	152.28
NET INCOME	-77.12	0.00	0.00	0.00	-12.27	-21.06	-238.61	-34.01	-44.88	-6.63	-16.99	642.72
NET INCOME TO DATE	-77.12	-77.12	-77.12	-77.12	-89.39	-110.45	-349.06	-383.07	-427.95	-434.58	-451.57	191.15

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF variety, Non-Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-166 -285	-149 -268	-133 -252	-116 -235	-100 -219	-83 -202	-67 -186	-50 -169	-34 -153	-17 -136	-1 -120
60	600.00	lb	-127 -246	-107 -227	-88 -207	-68 -187	-48 -167	-28 -147	-8 -128	10 -108	30 -88	50 -68	70 -48
70	700.00	lb	-89 -208	-66 -185	-43 -162	-19 -139	3 -116	26 -92	49 -69	72 -46	95 -23	118 -0	141 22
80	800.00	lb	-50 -169	-24 -143	2 -117	28 -90	54 -64	81 -37	107 -11	134 14	160 41	186 67	213 94
90	900.00	lb	-12 -131	17 -101	47 -72	76 -42	106 -12	136 16	165 46	195 76	225 106	254 135	284 165
100	1000.00	lb	26 -93	59 -60	92 -27	125 5	158 38	191 71	224 104	257 137	290 170	323 203	356 236
110	1100.00	lb	64 -54	100 -18	137 17	173 54	209 90	246 126	282 163	318 199	355 235	391 272	427 308
120	1200.00	lb	103 -16	142 23	182 63	221 102	261 142	301 181	340 221	380 261	419 300	459 340	499 379
130	1300.00	lb	141 22	184 65	227 108	270 151	313 193	356 236	398 279	441 322	484 365	527 408	570 451
140	1400.00	lb	179 60	226 106	272 153	318 199	364 245	410 291	457 337	503 384	549 430	595 476	641 522
150	1500.00	lb	218 99	267 148	317 198	366 247	416 297	465 346	515 396	564 445	614 495	663 544	713 594

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 2017 input prices.

Table 11.A Estimated costs per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.4000	26.57	_____
UAN (32%)	gal	1.17	18.4000	21.53	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	0.2000	0.23	_____
Centric 40WG	oz	5.38	2.0000	10.76	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.2987	4.04	_____
Self-Propelled	hour	13.51	0.3397	4.61	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
hour	hour	13.50	0.5108	6.90	_____
DIESEL FUEL					
Tractors	gal	1.80	3.2620	5.88	_____
Self-Propelled	gal	1.80	5.9419	10.73	_____
REPAIR & MAINTENANCE					
Implements	acre	4.92	1.0000	4.92	_____
Tractors	acre	1.83	1.0000	1.83	_____
Self-Propelled	acre	22.31	1.0000	22.31	_____
INTEREST ON OP. CAP.	acre	11.46	1.0000	11.46	_____
TOTAL DIRECT EXPENSES				570.98	_____
FIXED EXPENSES					
Implements	acre	6.52	1.0000	6.52	_____
Tractors	acre	11.55	1.0000	11.55	_____
Self-Propelled	acre	92.67	1.0000	92.67	_____
TOTAL FIXED EXPENSES				110.74	_____
TOTAL SPECIFIED EXPENSES				681.72	_____

Note: Cost of production estimates are based on 2017 input prices.

**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 11.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	900.0000	594.00	_____
Cotton Seed	lb	0.10	1215.0000	121.50	_____
				-----	
TOTAL INCOME				715.50	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	48.10	1.0000	48.10	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	77.58	1.0000	77.58	_____
INSECTICIDES	acre	45.99	1.0000	45.99	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3558	3.22	_____
OPERATOR LABOR	hour	13.51	0.6385	8.65	_____
UNALLOCATED LABOR	hour	13.50	0.5108	6.90	_____
DIESEL FUEL	gal	1.80	9.2040	16.61	_____
REPAIR & MAINTENANCE	acre	29.06	1.0000	29.06	_____
INTEREST ON OP. CAP.	acre	11.46	1.0000	11.46	_____
				-----	
TOTAL DIRECT EXPENSES				570.98	_____
RETURNS ABOVE DIRECT EXPENSES				144.52	_____
				-----	
TOTAL FIXED EXPENSES				110.74	_____
				-----	
TOTAL SPECIFIED EXPENSES				681.72	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				33.78	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 11.C Estimated resource use for field operations, per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.4000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 225	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest					1.00	Jul				
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.63	0.29	0.99	0.51

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 11.D Estimated costs for field operations, per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	26.57						1.26	27.83	27.83
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.03	1.01	1.20
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Surfactant	pt	0.66						0.02	0.68	0.68
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
NT Plant-Folding	12R-38		1.08	1.91	1.73			0.11	4.83	5.15
Cotton Seed B2XF	thous	135.00						3.21	138.21	138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48	20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Dual Magnum	pt	13.80						0.33	14.13	14.13
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88
UAN (32%)	gal	21.53						0.43	21.96	21.96
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.06	2.86	2.20
Diuron	pt	6.24						0.12	6.36	6.36
Glyphosate 3lbs a.e	oz	4.48						0.09	4.57	4.57
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Acephate 90%	lb	5.57						0.09	5.66	5.66
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
IncidentalPestTrt\$22	acre	22.00						0.35	22.35	22.35
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20
Acephate 90%	lb	5.57						0.07	5.64	5.64
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
Sprayer 600-750gal	60' 175hp		0.14	0.09	0.26				0.49	0.60
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27
Gin & Haul	lb	99.00						0.39	99.39	99.39
Stalk Shredder-Flail	15'		1.94	2.72	2.68			0.03	7.37	5.02
TOTALS		495.08	16.61	29.06	18.77	0.00	11.46	570.98	110.74	681.72

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 11.E Estimated monthly income and expense flows per acre  
Cotton, 12R-38" solid, no-till  
B2XF variety, Non-Delta Area, Mississippi, 2018

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	715.50
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	99.00
FERTILIZERS	26.57	0.00	0.00	0.00	0.00	0.00	0.00	21.53	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	10.26	0.00	56.60	10.72	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	10.76	27.57	5.57	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	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	0.51	0.00	4.25	3.28	1.02	0.51	0.77	8.43
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	0.29	0.00	2.80	2.30	0.58	0.29	0.43	9.92
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.18	0.00	2.99	1.76	0.36	0.18	0.27	23.32
INTEREST ON OP. CAP.	3.24	0.00	0.00	0.00	0.37	0.00	5.55	1.02	0.50	0.08	0.14	0.56
TOTAL DIRECT EXPENSES	71.28	0.00	0.00	0.00	12.27	0.00	238.94	52.49	31.15	6.63	16.99	141.23
NET INCOME	-71.28	0.00	0.00	0.00	-12.27	0.00	-238.94	-52.49	-31.15	-6.63	-16.99	574.27
NET INCOME TO DATE	-71.28	-71.28	-71.28	-71.28	-83.55	-83.55	-322.49	-374.98	-406.13	-412.76	-429.75	144.52

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, no-till  
 B2XF variety, Non-Delta Area, Mississippi, 2018

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-177 -287	-162 -272	-147 -258	-132 -243	-117 -228	-102 -213	-87 -198	-73 -183	-58 -168	-43 -154	-28 -139
60	540.00	lb	-142 -253	-124 -235	-106 -217	-88 -199	-71 -181	-53 -164	-35 -146	-17 -128	0 -110	17 -92	35 -74
70	630.00	lb	-107 -218	-87 -197	-66 -176	-45 -156	-24 -135	-3 -114	16 -93	37 -73	58 -52	79 -31	100 -10
80	720.00	lb	-73 -183	-49 -160	-25 -136	-1 -112	21 -88	45 -65	69 -41	93 -17	116 6	140 29	164 53
90	810.00	lb	-38 -149	-11 -122	14 -95	41 -69	68 -42	95 -15	121 11	148 37	175 64	201 91	228 117
100	900.00	lb	-3 -114	25 -85	55 -55	85 -25	114 4	144 33	174 63	203 93	233 122	263 152	293 182
110	990.00	lb	30 -80	63 -47	95 -14	128 17	161 50	193 83	226 115	259 148	291 181	324 213	357 246
120	1080.00	lb	65 -45	100 -9	136 25	172 61	207 97	243 132	279 168	314 203	350 239	386 275	421 310
130	1170.00	lb	99 -10	138 27	177 66	215 104	254 143	292 182	331 220	370 259	408 297	447 336	485 375
140	1260.00	lb	134 23	176 65	217 106	259 148	300 190	342 231	383 273	425 314	467 356	508 397	550 439
150	1350.00	lb	169 58	213 102	258 147	302 191	347 236	391 281	436 325	480 370	525 414	570 459	614 503

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 2017 input prices.

Table 12.A Estimated costs per acre  
Cotton, 12R-38" solid, conservation tillage  
B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.50	2.3000	3.45	_____
Ethephon 6E	pt	2.88	2.3125	6.66	_____
Tribufos 6lb	pt	10.54	0.5000	5.27	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	18.98	1.4000	26.57	_____
UAN (32%)	gal	1.17	28.9332	33.85	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.55	0.5000	5.78	_____
Glyphosate 3lbs a.e	oz	0.14	128.0000	17.92	_____
Gramoxone SL 2.0	oz	0.15	48.0000	7.20	_____
Cotoran	pt	6.42	2.0000	12.84	_____
Dual Magnum	pt	13.80	2.0000	27.60	_____
Diuron	pt	3.90	1.6000	6.24	_____
INSECTICIDES					
Acephate 90%	lb	7.43	1.7500	13.00	_____
Bidrin 8EC	oz	1.17	0.2000	0.23	_____
Centric 40WG	oz	5.38	2.0000	10.76	_____
IncidentalPestTrt\$22	acre	22.00	1.0000	22.00	_____
SEED/PLANTS					
Cotton Seed B2XF	thous	3.00	45.0000	135.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.28	0.4000	1.31	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	46.00	0.6660	30.64	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	13.51	0.4268	5.77	_____
Self-Propelled	hour	13.51	0.3397	4.61	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2560	2.32	_____
UNALLOCATED LABOR					
	hour	13.51	0.6133	8.29	_____
DIESEL FUEL					
Tractors	gal	1.80	4.7451	8.54	_____
Self-Propelled	gal	1.80	5.9419	10.73	_____
1/4-mi. Pivot Irr.	gal	1.80	11.2011	20.16	_____
REPAIR & MAINTENANCE					
Implements	acre	6.90	1.0000	6.90	_____
Tractors	acre	2.67	1.0000	2.67	_____
Self-Propelled	acre	22.31	1.0000	22.31	_____
1/4-mi. Pivot Irr.	acre	21.65	1.0000	21.65	_____
INTEREST ON OP. CAP.	acre	13.05	1.0000	13.05	_____
TOTAL DIRECT EXPENSES				670.36	_____
FIXED EXPENSES					
Implements	acre	9.70	1.0000	9.70	_____
Tractors	acre	16.84	1.0000	16.84	_____
Self-Propelled	acre	92.67	1.0000	92.67	_____
1/4-mi. Pivot Irr.	acre	74.43	1.0000	74.43	_____
TOTAL FIXED EXPENSES				193.64	_____
TOTAL SPECIFIED EXPENSES				864.00	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 12.B Summary of estimated costs and returns per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.66	1200.0000	792.00	_____
Cotton Seed	lb	0.10	1620.0000	162.00	_____
				-----	
TOTAL INCOME				954.00	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	15.38	1.0000	15.38	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	60.43	1.0000	60.43	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	77.58	1.0000	77.58	_____
INSECTICIDES	acre	45.99	1.0000	45.99	_____
SEED/PLANTS	acre	135.00	1.0000	135.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	30.64	1.0000	30.64	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3796	3.43	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	13.51	0.7666	10.38	_____
UNALLOCATED LABOR	hour	13.51	0.6133	8.29	_____
DIESEL FUEL	gal	1.80	21.8882	39.43	_____
REPAIR & MAINTENANCE	acre	53.53	1.0000	53.53	_____
INTEREST ON OP. CAP.	acre	13.05	1.0000	13.05	_____
				-----	
TOTAL DIRECT EXPENSES				670.36	_____
RETURNS ABOVE DIRECT EXPENSES				283.64	_____
TOTAL FIXED EXPENSES				193.64	_____
				-----	
TOTAL SPECIFIED EXPENSES				864.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				90.00	_____

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 12.C Estimated resource use for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.4000				
Bed-Paratill Fold	12R-38	MFWD 225	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 225	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-750gal	60' 175hp		0.017	1.00	Mar			0.01	0.02	0.01
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 225	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 225	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B2XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	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					0.2500				
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				
Bidrin 8EC	oz					0.2000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Fert Appl (Liquid)	12R-38	MFWD 225	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 225	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Diuron	pt					1.6000				
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jul			0.01	0.02	0.01
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.01	0.02	0.01
IncidentalPestTrt\$22	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Aug			0.01	0.02	0.01
Acephate 90%	lb					0.7500				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Sep			0.01	0.02	0.01
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-750gal	60' 175hp		0.017	0.50	Sep			0.00	0.01	0.00
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	15'	MFWD 190	0.110	1.00	Oct		0.11	0.11	0.11	0.08
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.76	0.42	1.34	0.61

Note: Cost of production estimates are based on 2017 input prices.  
**Fertilization decisions should be based on soil tests.**  
**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**  
**Lime cost prorated for application every 3<sup>rd</sup> year.**



Table 12.D Estimated costs for field operations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.16	3.49	3.49
Lime (Spread)	ton	30.64						1.46	32.10	32.10
Custom Apply Fert	acre	7.50						0.36	7.86	7.86
Potash (60% K2O)	cwt	26.57						1.26	27.83	27.83
Bed-Paratill Fold	12R-38		1.12	1.69	1.31			0.20	4.32	4.55
Bed/Disk (Hipper)	12R-38		0.51	0.34	0.60			0.07	1.52	1.50
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.03	1.01	1.20
Clarity	pt	5.78						0.18	5.96	5.96
Glyphosate 3lbs a.e	oz	4.48						0.14	4.62	4.62
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.10	3.66	2.88
UAN (32%)	gal	16.93						0.47	17.40	17.40
Row Cond Folding	38'		0.85	0.54	0.99			0.06	2.44	2.82
Plant - Folding	12R-38		1.03	1.71	1.66			0.10	4.50	4.69
Cotton Seed B2XF	thous	135.00						3.21	138.21	138.21
Cotton Seed Trt.	acre	20.00						0.48	20.48	20.48
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Gramoxone SL 2.0	oz	7.20						0.17	7.37	7.37
Cotoran	pt	12.84						0.30	13.14	13.14
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.19	8.19	8.19
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Acephate 90%	lb	1.86						0.04	1.90	1.90
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Dual Magnum	pt	13.80						0.33	14.13	14.13
Glyphosate 3lbs a.e	oz	4.48						0.11	4.59	4.59
Bidrin 8EC	oz	0.23						0.01	0.24	0.24
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Centric 40WG	oz	10.76						0.21	10.97	10.97
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Fert Appl (Liquid)	12R-38		1.08	0.99	1.49			0.07	3.63	2.88
UAN (32%)	gal	16.93						0.34	17.27	17.27
Spray (Direct/Layby)	12R-38		0.93	0.59	1.28			0.04	2.84	2.20
Diuron	pt	6.24						0.10	6.34	6.34
Glyphosate 3lbs a.e	oz	4.48						0.07	4.55	4.55
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
Mepiquat Chloride	oz	1.12						0.02	1.14	1.14
Acephate 90%	lb	5.57						0.09	5.66	5.66
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.02	1.00	1.20
IncidentalPestTrt\$22	acre	22.00						0.35	22.35	22.35
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20
Acephate 90%	lb	5.57						0.07	5.64	5.64
Sprayer 600-750gal	60' 175hp		0.29	0.18	0.51			0.01	0.99	1.20
Thidiazuron 4lb	oz	3.45						0.03	3.48	3.48
Ethephon 6E	pt	5.76						0.05	5.81	5.81
Sprayer 600-750gal	60' 175hp		0.14	0.09	0.26				0.49	0.60
Tribufos 6lb	pt	5.27						0.04	5.31	5.31
Ethephon 6E	pt	0.90						0.01	0.91	0.91
Cotton Picker/Module	6R-38(500)		7.98	20.60	5.75			0.14	34.47	81.27
Gin & Haul	lb	132.00						0.52	132.52	132.52
Stalk Shredder-Flail	15'		1.94	2.72	2.68			0.03	7.37	5.02
1/4-mi. Pivot Irr.	acre		20.16	21.65	1.84			0.78	44.43	74.43
TOTALS			540.41	39.43	53.53	23.94	0.00	13.05	670.36	193.64

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

Table 12.E Estimated monthly income and expense flows per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

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	954.00
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	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	132.00
FERTILIZERS	26.57	0.00	0.00	0.00	0.00	16.93	0.00	16.93	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	10.26	0.00	56.60	0.00	10.72	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	2.09	10.76	27.57	5.57	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	30.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	1.91	0.00	0.00	0.00	0.51	1.49	5.52	2.15	2.50	0.66	0.77	8.43
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	1.63	0.00	0.00	0.00	0.29	1.08	2.75	7.42	9.57	6.34	0.43	9.92
REPAIR & MAINTENANCE	2.03	0.00	0.00	0.00	0.18	0.99	2.79	19.55	2.82	1.58	0.27	23.32
INTEREST ON OP. CAP.	3.51	0.00	0.00	0.00	0.37	0.57	5.58	1.15	0.87	0.17	0.14	0.69
TOTAL DIRECT EXPENSES	77.12	0.00	0.00	0.00	12.27	21.06	239.99	59.08	55.17	14.32	16.99	174.36
NET INCOME	-77.12	0.00	0.00	0.00	-12.27	-21.06	-239.99	-59.08	-55.17	-14.32	-16.99	779.64
NET INCOME TO DATE	-77.12	-77.12	-77.12	-77.12	-89.39	-110.45	-350.44	-409.52	-464.69	-479.01	-496.00	283.64

Note: Cost of production estimates are based on 2017 input prices.

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

**Soil test cost is prorated for a test every 3<sup>rd</sup> year.**

**Lime cost prorated for application every 3<sup>rd</sup> year.**

\* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre  
 Cotton, 12R-38" solid, conservation tillage  
 B2XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2018

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.49	0.52	0.56	0.59	0.62	0.66	0.69	0.72	0.75	0.79	0.82
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-145 -338	-125 -318	-105 -299	-85 -279	-65 -259	-46 -239	-26 -219	-6 -200	13 -180	33 -160	52 -140
60	720.00	lb	-98 -292	-75 -268	-51 -245	-27 -221	-3 -197	19 -173	43 -150	67 -126	91 -102	114 -78	138 -54
70	840.00	lb	-52 -246	-25 -218	2 -191	30 -163	58 -135	85 -107	113 -80	141 -52	168 -24	196 3	224 30
80	960.00	lb	-6 -200	25 -168	56 -136	88 -105	120 -73	151 -41	183 -10	215 21	246 53	278 84	310 116
90	1080.00	lb	39 -154	75 -118	110 -82	146 -47	182 -11	217 24	253 59	288 95	324 130	360 166	395 202
100	1200.00	lb	85 -108	125 -68	164 -28	204 10	244 50	283 90	323 129	362 169	402 208	442 248	481 288
110	1320.00	lb	131 -61	175 -18	218 25	262 68	306 112	349 155	393 199	436 243	480 286	523 330	567 373
120	1440.00	lb	177 -15	225 31	272 79	320 126	368 174	415 221	463 269	510 316	558 364	605 411	653 459
130	1560.00	lb	224 30	275 81	327 133	378 184	430 236	481 287	532 339	584 390	635 442	687 493	738 545
140	1680.00	lb	270 76	325 132	381 187	436 242	491 298	547 353	602 409	658 464	713 520	769 575	824 630
150	1800.00	lb	316 122	375 182	435 241	494 300	553 360	613 419	672 479	732 538	791 597	850 657	910 716

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 2017 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, 2018

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	328,000	300	8	13.64	13.51	24.55	34.16	72.22	134.81	207.04
Combine (300-349 hp)	325 hp	355,000	300	8	16.73	13.51	30.11	36.97	80.60	145.91	226.51
Combine (350-399 hp)	355 hp	354,000	300	8	18.27	13.51	32.88	36.87	83.27	145.50	228.77
Combine (400-449 hp)	425 hp	413,000	300	8	21.87	13.51	39.37	43.02	95.90	169.75	265.65
Combine (450-499hp)	475 hp	427,000	300	8	24.44	13.51	44.00	44.47	101.99	175.50	277.50
Tractor ( 20-39hp)CB	MFWD 30	28,300	600	8	1.54	13.51	2.77	0.88	17.17	5.32	22.49
Tractor ( 20-39hp)RB	MFWD 30	20,000	600	8	1.54	13.51	2.77	0.62	16.91	3.76	20.67
Tractor ( 40-59hp)CB	2WD 50	32,300	600	8	2.57	13.51	4.63	1.00	19.15	6.07	25.22
Tractor ( 40-59hp)CB	MFWD 50	39,500	600	8	2.57	13.51	4.63	1.23	19.37	7.42	26.80
Tractor ( 40-59hp)RB	2WD 50	21,100	600	8	2.57	13.51	4.63	0.65	18.80	3.96	22.76
Tractor ( 40-59hp)RB	MFWD 50	24,800	600	8	2.57	13.51	4.63	0.77	18.91	4.66	23.58
Tractor ( 60-89hp)CB	2WD 75	49,300	600	8	3.86	13.51	6.94	1.54	21.99	9.27	31.27
Tractor ( 60-89hp)CB	MFWD 75	52,500	600	8	3.86	13.51	6.94	1.64	22.09	9.87	31.97
Tractor ( 60-89hp)RB	2WD 75	33,100	600	8	3.86	13.51	6.94	1.03	21.49	6.22	27.71
Tractor ( 60-89hp)RB	MFWD 75	37,800	600	8	3.86	13.51	6.94	1.18	21.63	7.10	28.74
Tractor ( 90-119hp)CB	2WD 105	66,300	600	8	5.40	13.51	9.72	2.07	25.31	12.46	37.77
Tractor ( 90-119hp)CB	MFWD 105	76,100	600	8	5.40	13.51	9.72	2.37	25.61	14.31	39.92
Tractor ( 90-119hp)RB	2WD 105	60,300	600	8	5.40	13.51	9.72	1.88	25.12	11.33	36.46
Tractor ( 90-119hp)RB	MFWD 105	67,800	600	8	5.40	13.51	9.72	2.11	25.35	12.75	38.10
Tractor (120-139hp)CB	2WD 130	103,000	600	8	6.69	13.51	12.04	3.21	28.77	19.36	48.14
Tractor (120-139hp)CB	MFWD 130	113,000	600	8	6.69	13.51	12.04	3.53	29.08	21.25	50.33
Tractor (140-159hp)CB	MFWD 150	131,000	600	8	7.72	13.51	13.89	4.09	31.50	24.63	56.13
Tractor (160-179hp)CB	MFWD 170	153,000	600	8	8.75	13.51	15.75	4.78	34.04	30.10	64.14
Tractor (180-199hp)CB	MFWD 190	173,000	600	8	9.77	13.51	17.60	5.40	36.51	34.04	70.56
Tractor (200-249hp)CB	MFWD 225	210,000	600	8	11.58	13.51	20.84	6.56	40.91	41.32	82.24
Tractor (250-349hp)CB	4WD 300	285,000	600	8	15.44	13.51	27.79	8.90	50.21	56.08	106.29
Tractor (250-349hp)CB	MFWD 300	272,000	600	8	15.44	13.51	27.79	8.50	49.80	53.52	103.32
Tractor (250-349hp)CB	Track 300	318,000	600	8	15.44	13.51	27.79	9.93	51.24	62.57	113.81
Tractor (350-449hp)	Track 400	341,000	600	8	20.58	13.51	37.06	10.65	61.22	67.10	128.32
Tractor (350-449hp)CB	4WD 400	331,000	600	8	20.58	13.51	37.06	10.34	60.91	65.13	126.04
Tractor (450-550hp)CB	4WD 500	367,000	600	8	25.73	13.51	46.32	11.46	71.30	72.21	143.52
Tractor (450-550hp)CB	Track 500	445,000	600	8	25.73	13.51	46.32	13.90	73.74	87.56	161.30
Utility Vehicle	800 CC	10,000	200	8	0.70	13.51	1.47	1.56	16.54	6.16	22.70
Utility Vehicle	900 CC	12,600	200	8	1.00	13.51	2.10	1.96	17.57	7.76	25.34
Utility Vehicle-mule	600 CC	8,340	200	8	0.50	13.51	1.05	1.30	15.86	5.14	21.00

## 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, 2018

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-----					
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	5.81	5.97	10.79	22.58	42.59	65.17
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	5.81	8.35	14.13	28.31	55.78	84.09
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	3.88	5.58	9.61	19.08	37.92	57.01
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	4.92	7.17	15.85	27.96	62.56	90.53
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	3.88	5.66	12.51	22.07	49.39	71.47
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	5.81	9.55	21.58	36.96	85.18	122.14
Cotton Picker/Modu	6R-30 (500)	764,000	200	8	25.73	0.218	4.92	10.11	26.05	41.08	102.80	143.89
Cotton Picker/Module	6R-38 (500)	765,000	200	8	25.73	0.172	3.88	7.98	20.59	32.46	81.26	113.73
Dry Applicator SP	70'300cuft	306,000	350	8	16.98	0.015	0.27	0.46	0.24	0.98	1.62	2.61
Sprayer 600-750gal	60' 175hp	193,000	350	8	9.00	0.017	0.31	0.28	0.18	0.78	1.19	1.98
Sprayer 600-825gal	80' 175hp	202,000	350	8	11.81	0.013	0.23	0.28	0.14	0.66	0.94	1.60
Sprayer 600-825gal	90' 250hp	279,000	350	8	12.73	0.011	0.21	0.26	0.17	0.65	1.15	1.81
Sprayer 800gal	100' 250hp	280,000	350	8	14.15	0.010	0.19	0.26	0.15	0.61	1.04	1.66
Sprayer 800gal	80' 250hp	254,000	350	8	12.86	0.013	0.23	0.30	0.17	0.72	1.18	1.90
Sprayer 1000-1400gal	90' 275hp	299,000	350	8	14.15	0.010	0.19	0.26	0.16	0.62	1.11	1.74
Sprayer 1000gal	100' 300hp	310,000	350	8	15.44	0.010	0.19	0.29	0.17	0.66	1.15	1.81
Sprayer 1200+gal	120' 300hp	334,000	350	8	15.44	0.008	0.15	0.24	0.15	0.56	1.03	1.59
xxCotton Picker/Modu	6R-38 (365)	536,000	200	8	20.58	0.172	3.88	6.38	14.43	24.70	56.94	81.64

Notes:

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

Direct: Does not include interest on operating capital.













Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2018 (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 (Bcast/HB)	40' Fold	MFWD 170	17,500	200	8	0.042	0.76	0.66	0.34	0.20	1.97	0.41	1.27	3.67
Spray (Broadcast)	27'	MFWD 170	5,350	200	8	0.062	1.13	0.98	0.15	0.29	2.57	0.18	1.88	4.65
Spray (Broadcast)	40'	MFWD 170	7,050	200	8	0.042	0.76	0.66	0.13	0.20	1.77	0.16	1.27	3.21
Spray (Broadcast)	50'	MFWD 170	11,200	200	8	0.033	0.61	0.53	0.17	0.16	1.48	0.21	1.01	2.71
Spray (Spot)	53'	MFWD 170	9,940	200	8	0.031	0.57	0.50	0.14	0.15	1.38	0.17	0.96	2.52
Spray (Spot)	60'	MFWD 225	17,800	200	8	0.028	0.50	0.58	0.23	0.18	1.51	0.28	1.16	2.96
Stalk Shredder	14'	MFWD 150	12,100	200	10	0.117	1.59	1.63	1.24	0.48	4.96	0.75	2.90	8.61
Stalk Shredder Flex	20'	MFWD 150	27,700	200	10	0.082	1.11	1.14	1.99	0.33	4.59	1.20	2.03	7.83
Stalk Shredder-Flail	12'	MFWD 150	21,800	200	10	0.137	1.85	1.91	2.62	0.56	6.95	1.58	3.38	11.92
Stalk Shredder-Flail	15'	MFWD 150	22,100	200	10	0.110	1.48	1.52	2.12	0.45	5.59	1.28	2.70	9.58
Stalk Shredder-Flail	18'	MFWD 150	27,100	200	10	0.091	1.23	1.27	2.17	0.37	5.06	1.31	2.25	8.63
Stalk Shredder-Flail	20'	MFWD 150	27,500	200	10	0.082	1.11	1.14	1.98	0.33	4.58	1.19	2.03	7.81
Stalk Shredder-Flail	25'	MFWD 150	36,700	200	10	0.066	0.89	0.91	2.11	0.27	4.19	1.27	1.62	7.10
Strip Till	8R-38	MFWD 225	37,700	150	10	0.061	0.83	1.28	1.00	0.40	3.52	1.63	2.54	7.71
Strip Till	12R-30	MFWD 225	59,700	150	10	0.061	0.83	1.28	1.59	0.40	4.11	2.59	2.54	9.25
Strip Till	12R-40	MFWD 225	64,800	150	10	0.046	0.62	0.96	1.29	0.30	3.18	2.10	1.91	7.20
Subsoiler	3 shank	MFWD 190	4,550	100	15	0.204	2.76	3.59	0.30	1.10	7.77	0.76	6.95	15.49
Subsoiler	4 shank	MFWD 225	8,900	100	15	0.153	2.07	3.20	0.45	1.00	6.74	1.12	6.34	14.21
Subsoiler	5 shank	MFWD 225	12,100	100	15	0.122	1.65	2.55	0.49	0.80	5.50	1.22	5.05	11.77
Subsoiler low-till	4 shank	MFWD 225	10,800	100	15	0.153	2.07	3.20	0.55	1.00	6.83	1.36	6.34	14.55
Subsoiler low-till	6 shank	MFWD 225	17,100	100	15	0.102	1.38	2.12	0.58	0.67	4.76	1.44	4.22	10.42
Subsoiler low-till	8 shank	MFWD 225	17,300	100	15	0.076	1.03	1.59	0.44	0.50	3.57	1.09	3.16	7.82

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, 2018

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Captan 50 WP	lb	4.93
Agri-Dex	pt	2.38	Cotton Seed Trt.	acre	20.00
Class Act NG	pt	2.38	CruiserMaxx	oz	4.25
Crop Oil Conc. (Pet.)	pt	2.74	Dithane F-45	qt	7.81
Crop Oil Conc. (Veg.)	pt	2.61	Enable 2F	oz	1.97
Dyne-A-Pak	pt	4.73	Headline EC	oz	2.63
Herbimax	pt	1.88	Manzate 75 DF	lb	4.86
Induce	pt	3.31	Moncut 70 DF	lb	32.81
MSO	pt	2.61	Propimax EC	pt	12.64
Penetrator Plus	pt	3.50	Prosaro	oz	5.57
Prime Oil	pt	2.35	Provost	oz	2.43
Surfactant	pt	3.28	Quadris	oz	2.14
CLEANING			Quadris Top	oz	2.55
Cleaning Peanuts	ton	18.00	Quadris Top SBX	oz	2.75
CROP CONSULTANT			Quilt	pt	18.55
Corn Consultant	acre	6.00	Quilt XCEL	pt	25.43
Cotton Consultant	acre	8.00	Ridomil Gold	oz	6.42
Peanut Consultant	acre	9.25	Rovral 4F	pt	14.90
Rice Consultant	acre	8.00	Stratego	pt	17.50
Sorghum Consultant	acre	6.00	Stratego YLD	oz	4.28
Soybeans Consultant	acre	6.50	Tilt 3.6 EC	oz	0.75
Wheat Consultant	acre	5.50	Tilt/ Bravo SE	oz	0.41
CUSTOM FERTILIZE			Uniform	oz	4.63
App Fert by Air	cwt	7.00	GINNING		
App Fert by Air (Mi)	appl	7.00	Gin & Haul	lb	0.11
Custom Apply Fert	acre	7.50	GROWTH REGULATORS		
CUSTOM LIME			Mepex	oz	0.08
Lime (Spread)	ton	46.00	Mepichlor 4.2%	oz	0.07
CUSTOM PLANT			Mepiquat	oz	0.07
Custom Plant	acre	7.50	Pentia	pt	6.46
Custom Plant Air	cwt	7.00	Stance	oz	1.25
CUSTOM SPRAY			HARVEST AIDS		
App by Air ( 3 gal)	appl	5.00	Adios	oz	1.29
App by Air ( 5 gal)	appl	6.50	Aim 2EC	oz	5.65
App by Air (10 gal)	appl	9.00	Def/Folex	pt	10.54
Custom Spray Ground	acre	7.00	Defol 5	gal	5.39
DRYING			Ethephon 6E	pt	2.88
Dry Corn	bu	0.19	Finish 6	pt	9.61
Dry Grain Sorghum	cwt	0.25	Folex 6EC	pt	10.54
Dry Peanuts	ton	24.00	Freefall SC	oz	1.50
Dry Rice	bu	0.40	Ginstar EC	pt	26.44
ERADICATION FEE			Gramoxone SL	oz	0.15
Eradication	acre	1.00	Sharpen	oz	6.45
FERTILIZERS			Sodium Chlorate 5L	gal	5.39
Agrotain Ultra	pt	9.00	SuperBoll	oz	0.19
Amm Sulfate (21% N)	cwt	13.43	Thidiazuron 4lb	oz	1.50
Boron Plus	pt	3.69	Tribufos 6lb	pt	10.54
DAP	cwt	21.52	HAULING		
Fert 10-34-0	cwt	22.25	Haul Corn	bu	0.23
Fert 10-34-0	gal	2.59	Haul Peanuts	ton	14.50
Fert 11-37-0	cwt	23.05	Haul Rice	bu	0.35
Fert 33-0-0-12S	cwt	18.00	Haul Sorghum	bu	0.25
Fert 41-0-0-4	cwt	13.50	Haul Soybeans	bu	0.27
Lime	ton	46.00	Haul Wheat	bu	0.26
NBPT	pt	9.00	HERBICIDES		
Phosphorus (46% P2O5)	cwt	18.75	2,4-D Amine 4	pt	2.40
Potash (60% K2O)	cwt	18.98	AAtrex 4L	pt	2.12
Sulfur Plus	pt	2.62	AAtrex NINE-O	lb	3.96
UAN (32% N)	cwt	10.50	Accent Q	oz	21.51
UAN (32%)	gal	1.17	Aim	oz	5.65
UAN + Sulfur (28%)	cwt	11.75	Assure II	oz	0.74
UAN + Sulfur (28%)	gal	1.31	Atrazine 4L	pt	2.12
Urea, Solid (46% N)	cwt	14.19	Axial XL	oz	1.17
Zinc Plus	pt	2.99	Axiom	oz	1.92
FUNGICIDES			Banvel	pt	13.43
Aframe	oz	1.96	Basagran	pt	12.31
Alfa Guard	lb	1.48	Beyond	oz	4.48
Allegiance Flowable	pt	48.89	Bicep II Magnum	qt	11.01
Apron Maxx RTA	oz	0.84	Bicep Lite Magnum	pt	7.27
Artisan	oz	1.00			
Bravo Weather Stick	pt	6.56			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2018 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Bolero	pt	7.73	Regiment	oz	44.90
Boundary	pt	11.20	Remedy Ultra	pt	9.60
Butyrac 175 (2,4-D)	pt	3.29	RiceBeaux	pt	5.86
Butyrac 200 (2,4-DB)	pt	4.34	Riceshot	pt	3.86
Cadre	oz	3.54	Ricestar HT	pt	24.35
Canopy	oz	2.74	Roundup Power Max	oz	0.17
Caparol	pt	4.60	Roundup PowerMax	pt	2.72
Capreno	oz	7.13	Roundup WeatherMax	oz	0.26
Clarity	pt	11.55	Roundup WeatherMax	pt	4.46
Classic	oz	17.18	Scepter 70 DG	oz	4.48
Clearpath	lb	61.26	Select Max	pt	12.64
Cobra	oz	1.72	Sequence	pt	5.95
Command 3ME	pt	19.93	Sharpen	oz	6.45
Corvus	oz	7.29	Simazine	pt	2.54
Cotoran	pt	6.42	Stalwart	pt	4.52
Cotton Pro	pt	3.52	Stam 80 EDF	lb	9.61
Credit Extra	pt	2.17	Stam M4	qt	7.80
Dicamba	pt	12.00	Staple LX	oz	7.63
Direx	pt	3.99	Steadfast	oz	12.26
Diuron	pt	3.90	Storm	pt	11.41
Diuron 80 DF	lb	5.09	Strada Pro	oz	7.27
Diuron 80%	lb	5.09	Strongarm	oz	56.42
Dual II Magnum	pt	14.83	Superwham	qt	9.18
Dual Magnum	pt	13.80	Surpass EC	qt	26.36
Duet	pt	5.35	Synchrony XP	oz	12.71
Envoke	oz	102.89	Touchdown Total	qt	5.16
Expert	pt	4.39	Treflan	pt	3.52
Facet L	pt	15.25	Tricor DF	lb	15.82
Fierce	oz	7.54	Trifluralin	pt	3.52
Finesse	oz	16.06	Ultra Blazer	pt	10.31
Flexstar	pt	8.41	Valor SX	oz	4.57
Fusilade DX	oz	1.00	Valor XLT	oz	5.00
Glyphosate 3lbs a.e	pt	2.25	Zidua	oz	9.05
Glyphosate 3lbs a.e	oz	0.14	INOCULANT		
Glystar Plus	pt	2.17	Optimize	oz	2.14
Goal 2XL	pt	9.89	Optimize LIFT	oz	0.59
Gramoxone SL 2.0	oz	0.15	Vault	oz	1.73
Grasp Xtra	oz	1.53	INSECTICIDES		
Halex GT	pt	7.80	Abamectin .15EC	oz	0.96
Halomax	oz	21.44	Acephate 90%	lb	7.43
Harmony Extra SG	oz	13.79	Acephate 90SP	lb	7.43
Harness XTRA	pt	9.45	Acramite-4SC	oz	1.71
Impact	oz	24.90	Admire Pro	oz	1.70
Leadoff	oz	5.82	Asana .66 XL	oz	0.58
Lexar	pt	7.96	Baythroid XL	oz	2.65
Liberty 280	oz	0.60	Belt	oz	7.90
Linex	pt	9.28	Bidrin 8EC	oz	1.17
Londax	oz	18.08	Bifenthrin	oz	0.78
Lorox	lb	24.12	Bifenture 2EC	pt	12.36
Metribuzin 75	lb	15.87	Brigade EC	pt	11.85
MSMA 6.6	pt	2.90	Capture LFR	oz	2.28
MSMA6 Plus	pt	3.63	Carbaryl 4L	pt	5.85
Newpath	oz	3.83	Carbine 50WG	oz	5.93
Osprey	oz	3.61	Centric 40WG	oz	5.38
Outlook	pt	17.47	Comite 1l	pt	8.45
Paraquat	oz	0.28	Confirm 2F	oz	2.06
Parazone 3SL	oz	0.28	Diamond .83EC	pt	22.36
Permit	oz	22.43	Diamond .83EC	oz	1.40
Poast	pt	12.77	Dimethoate 4E	pt	5.31
Prefix	pt	6.53	Dimilin 2L	oz	1.45
Prowl 3.3 EC	pt	6.07	Dipel DF	lb	13.13
Pursuit	oz	3.51	Dipel ES	pt	4.89
Quinstar 4L	oz	1.60	Endigo ZC	pt	24.86
Raptor	oz	4.38	Force 3G	lb	6.03
RealmQ	oz	4.97	Gaucha 600	oz	2.35
RebelEx	oz	2.67	Hero	pt	25.77
Reflex	pt	6.52	Imidacloprid 4F	oz	0.78

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2018 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Imidan 70 WSB	oz	0.67	Peanut Seed	lb	0.84
IncidentalPestTrt \$8	acre	8.00	Rice Clearfield	lb	0.95
IncidentalPestTrt\$22	acre	22.00	Rice Clrflld Hyb Trt	lb	5.55
IncidentalPestTrt\$30	acre	30.00	Rice Conv Hyb Trt	lb	5.66
Intrepid 2F	oz	2.00	Rice Seed CF (Levees)	lb	0.95
Intruder 70WSP	oz	9.71	Rice Seed CFH (Levee)	lb	1.78
Karate Z	oz	2.74	Rice Seed Conv.	lb	0.28
Lambda	oz	1.04	Rice Seed Cv (Levees)	lb	0.28
Lannate LV	pt	10.88	Rice Seed CvH (Levee)	lb	1.66
Leverage 2.7	oz	2.17	Rice Seed Trt/Insect	lbseed	0.23
Lorsban 15G	lb	2.35	Sorghum Concept	lb	2.57
Lorsban 4E	pt	6.10	Sorghum Concept+ Po	lb	3.92
Macho	oz	0.62	Soybean Seed LL	lb	1.28
Malathion 5E	pt	4.09	Soybean Seed RR2	lb	1.51
Malathion 8E	pt	5.50	Soybean Seed RR2X	lb	1.47
Mustang Max	oz	1.34	Wheat Seed Private	lb	0.29
Nuprid 4F	oz	0.88	SOIL TEST		
Oberon 4 SC	pt	59.84	Soil Test	acre	10.00
Pounce 25WP	lb	14.13	SURVEY & MARK LEVEES		
Prevathon	oz	1.32	Survey & Mark Levees	acre	4.50
Radiant	oz	6.82	Survey & Mark Levees	acre	4.50
Sevin 4F	pt	6.24	TECHNOLOGY FEE		
Sevin XLR Plus	qt	13.23	W3RF Cot Tech Fee	thous	1.45
Sivanto Prime	oz	2.55			
Transform WG	oz	8.18			
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.25			
SEED/PLANTS					
Corn Seed BtRR	thous	3.63			
Corn Seed Conv.	thous	2.89			
Corn Seed RR2	thous	3.24			
Cotton Seed GLB2	thous	3.10			
Cotton Seed W3RF	thous	0.73			



Appendix Table 5. Estimated fuel prices  
and interest rates, Mississippi, 2018

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	1.80
Gasoline	gal	2.10
LP Gas	gal	1.65
INTEREST RATES		
Short-term	%	4.75
Intermediate-term	%	5.00

Appendix Table 6. Labor types, wage rates and unallocated labor  
multipliers for crop enterprises, Mississippi, 2018

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	13.51
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, 2018

Crop	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 '18	3.96	-0.20	3.76	2.10	3.76
Cotton Lint	lb	Dec '18	0.6788	-0.0181	0.6607	0.52	0.6607
Cottonseed	lb						0.10 <sup>f</sup>
Grain Sorghum	bu				3.57	2.02	3.57
Peanuts	ton				385.00	355.00	385.00
Soybeans	bu	Nov '18	9.83	+0.07	9.90	5.21	9.90
Rice	bu	Nov '18	5.17	-0.27	4.90	2.96	4.90
Wheat	bu	Jul '18	4.88	-0.17	4.71	2.76	4.71

<sup>a</sup> Average of the daily closing futures contract prices during the first 5 trading days in October 2017 for the stated contract months.

<sup>b</sup> Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2017 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

<sup>c</sup> The forward contract price for corn, cotton, rice, soybeans and wheat is the futures contract price plus the basis. The forward contract price for grain sorghum is 95% of the forward contract price for corn. The forward contract price for peanuts is an estimate from a poll of Extension Peanut Marketing Specialists.

<sup>d</sup> Average Mississippi County CCC Loan Rate for 2017 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2017 Farm-stored Loan Rate for long grain rough rice. National 2018 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

<sup>e</sup> Price used in MSU Extension Service Planning Budgets.

<sup>f</sup> Cottonseed price is the average marketing year price over the years 2007-2016.

Appendix Table 8. Estimated costs for field operations, per acre  
 Cotton irrigated with roll-out pipe  
 160-acre roll-out pipe system, 10.5 ac-in., Delta Area, Mississippi, 2018

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'		0.67	0.31	0.51			0.01	1.50	1.58	3.08
Set Up Engine											
IRRIGATE LABOR	hour				0.23			0.01	0.24		0.24
Ditcher (1m/160a)			0.15	0.06	0.13			0.01	0.35	0.31	0.66
Roll-Out Pipe	ft	8.25						0.16	8.41		8.41
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.20	0.09	0.40			0.01	0.70	0.66	1.36
IRRIGATE LABOR	hour				1.81			0.04	1.85		1.85
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Apply Water											
IRRIGATE LABOR	hour				0.23				0.23		0.23
Pick Up Pipe											
Pipe Spool 160ac	1/4m roll		0.30	0.13	0.59			0.01	1.03	0.98	2.01
Land Forming (\$450)	each									31.93	31.93
Well & Pump, Furrow	each			2.96				0.06	3.02	8.74	11.76
Main Line Pipe	each									4.32	4.32
Engine, RPF, 75	each									8.43	8.43
June Irrigation	ac-in		5.13	1.31				0.13	6.57		6.57
July Irrigation	ac-in		5.13	1.31				0.10	6.54		6.54
August Irrigation	ac-in		5.13	1.31				0.08	6.52		6.52
TOTALS		8.25	16.71	7.48	4.36	0.00		0.62	37.42	56.95	94.37

Note: Cost of production estimates are based on 2017 input prices.

Appendix Table 9. Estimated costs for field operations, per acre  
 Cotton irrigated with center pivot  
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2018

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----					FIXED COST	TOTAL COST		
		OP INPUT	FUEL	R&M	LABOR	LEASE			INTER	TOTAL
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28	0.28	
Maintenance										
IRRIGATE LABOR	hour				1.07		0.03	1.10	1.10	
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15	0.15	
Apply Water										
IRRIGATE LABOR	hour				0.20			0.20	0.20	
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15	0.15	
Pivot, 1/4 CP	each			13.48			0.27	13.75	54.09	67.84
Well & Pump, 1/4 CP	each			3.50			0.07	3.57	10.35	13.92
Engine, 1/4 CP, 65	each								9.99	9.99
June Irr. 3app@.75"	ac-in		6.05	1.40			0.15	7.60		7.60
July Irr. 4app@.75"	ac-in		8.06	1.87			0.16	10.09		10.09
Aug Irr. 3app@.75"	ac-in		6.05	1.40			0.09	7.54		7.54
TOTALS		0.00	20.16	21.65	1.84	0.00	0.78	44.43	74.43	118.86

Note: Cost of production estimates are based on 2017 input prices.

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