

**COTTON
2022
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2021-01**

November 2021

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 2022 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.

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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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Frank Matta, MAFES

Supporting Committees

Equipment

Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES

Prices

Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES

Documentation and Data Processing

Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES

Publication Review

Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES

Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2022 Budget Committees.....	ii
2022 Planning Budgets	1
Budgets for Agricultural Enterprises.....	1
Methods and Procedures	1
Production Practices	1
Machinery	1
Estimates of Direct Costs.....	2
Estimates of Fixed Costs.....	2
Estimates of Returns	3
Irrigation Costs	3
Net Returns	3
 Enterprise Budgets	
Table	
1 Cotton, 12R-38", solid, conservation tillage B3XF variety, Delta Area	6
2 Cotton, 12R-38", solid, conservation tillage, furrow irr., B3XF variety, 10.5 ac-in., Delta Area.....	12
3 Cotton, 12R-38", solid, cons. tillage, pivot irr., B3XF variety, 7.5 ac-in., Delta Area.....	18
4 Cotton, 12R-38", solid, no-till B3XF variety, Delta Area	24
5 Cotton, 12R-38", 2x1 full-skip, (8 rows planted) Cons. till., B3XF variety, Delta Area.....	30
6 Cotton, 8R-38", solid, conservation tillage B3XF variety, Non-Delta Area	36
7 Cotton, 8R-38", solid, no-till B3XF variety, Non-Delta Area	42
8 Cotton, 12R-38", solid, conservation tillage B3XF variety, Non-Delta Area	48
9 Cotton, 12R-38", solid, no-till B3XF variety, Non-Delta Area	54
10 Cotton, 12R-38", solid, conservation tillage B3XF variety, pivot irrigated, 7.5 ac-in., Non-Delta Area	60
11 Cotton, 12R-38", solid, conservation tillage W3FE variety, Delta Area	66
12 Cotton, 12R-38", solid, conservation tillage, furrow irr., W3FE variety, 10.5 ac-in., Delta Area.....	72
13 Cotton, 12R-38", solid, cons. tillage, pivot irr., W3FE variety, 7.5 ac-in., Delta Area.....	78
14 Cotton, 12R-38", solid, no-till W3FE variety, Delta Area	84

15	Cotton, 12R-38", 2x1 full-skip, (8 rows planted) Cons. till., W3FE variety, Delta Area	90
16	Cotton, 8R-38", solid, conservation tillage W3FE variety, Non-Delta Area	96
17	Cotton, 8R-38", solid, no-till W3FE variety, Non-Delta Area	102
18	Cotton, 12R-38", solid, conservation tillage W3FE variety, Non-Delta Area.....	108
19	Cotton, 12R-38", solid, no-till W3FE variety, Non-Delta Area	114
20	Cotton, 12R-38", solid, conservation tillage W3FE, pivot irrigated, 7.5 ac-in., Non-Delta Area	120

Appendix

Table

1	Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour.....	128
2	Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per acre.....	129
3	Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre	130
4	Operating inputs: estimated prices	135
5	Estimated fuel prices and interest rates	138
6	Labor types, wage rates and unallocated labor multipliers for crop enterprises.....	138
7	Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets	139
8	Cotton irrigated with roll-out pipe 160-acre roll-out pipe system, 10.5 ac-in., Delta Area.....	140
9	Cotton irrigated with center pivot 135-acre ¼-mile pivot system, 7.5 ac-in., Delta Area.....	141
	Literature Cited	142

2022 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.

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 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 2021. (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 2021 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
 B3XF variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.3993	6.10	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.24	0.4855	7.40	_____
DIESEL FUEL					
Tractors	gal	2.36	6.1665	14.55	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.97	1.0000	7.97	_____
Tractors	acre	4.03	1.0000	4.03	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
INTEREST ON OP. CAP.	acre	11.67	1.0000	11.67	_____
TOTAL DIRECT EXPENSES				786.04	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	23.84	1.0000	23.84	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
TOTAL FIXED EXPENSES				123.55	_____
TOTAL SPECIFIED EXPENSES				909.59	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	90.77	1.0000	90.77	_____
INSECTICIDES	acre	85.21	1.0000	85.21	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
OPERATOR LABOR	hour	15.27	0.6069	9.27	_____
UNALLOCATED LABOR	hour	15.24	0.4855	7.40	_____
DIESEL FUEL	gal	2.36	11.0501	26.07	_____
REPAIR & MAINTENANCE	acre	35.62	1.0000	35.62	_____
INTEREST ON OP. CAP.	acre	11.67	1.0000	11.67	_____

TOTAL DIRECT EXPENSES				786.04	_____
RETURNS ABOVE DIRECT EXPENSES				417.44	_____

TOTAL FIXED EXPENSES				123.55	_____

TOTAL SPECIFIED EXPENSES				909.59	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				293.89	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	36.08						0.74	36.82	36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed B3XF	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Engenia	oz	10.62						0.19	10.81	10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58	3.58
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	36.08						0.53	36.61	36.61
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Engenia	oz	10.62						0.15	10.77	10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57	3.57
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	132.00						0.39	132.39	132.39
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21
TOTALS		693.19	26.07	35.62	19.49	0.00	11.67	786.04	123.55	909.59

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	3.68	3.44	0.00	0.00	0.00	8.56
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	3.85	0.00	0.00	0.00	13.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.34	3.21	2.48	0.00	0.00	0.00	26.12
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.84	3.64	1.27	0.80	0.31	0.18	0.53
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	41.79	210.53	88.87	67.42	35.86	30.31	180.69
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-41.79	-210.53	-88.87	-67.42	-35.86	-30.31	1022.79
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-172.36	-382.89	-471.76	-539.18	-575.04	-605.35	417.44

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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
 B3XF variety, Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-157 -280	-131 -255	-105 -229	-80 -203	-54 -178	-29 -152	-3 -126	22 -101	47 -75	73 -50	99 -24
60	720.00	lb	-93 -217	-62 -186	-31 -155	-1 -124	29 -94	60 -63	91 -32	121 -1	152 29	183 59	214 90
70	840.00	lb	-29 -153	6 -117	41 -81	77 -45	113 -9	149 26	185 61	221 97	257 133	293 169	328 205
80	960.00	lb	33 -89	74 -48	115 -7	156 33	197 74	238 115	279 156	320 197	361 238	402 279	443 320
90	1080.00	lb	97 -26	143 20	189 66	235 112	282 158	328 204	374 250	420 296	466 343	512 389	558 435
100	1200.00	lb	161 37	212 88	263 140	314 191	366 242	417 293	468 345	519 396	571 447	622 498	673 550
110	1320.00	lb	224 101	281 157	337 214	393 270	450 326	506 383	563 439	619 495	675 552	732 608	788 665
120	1440.00	lb	288 164	349 226	411 287	472 349	534 410	596 472	657 533	719 595	780 657	842 718	903 780
130	1560.00	lb	352 228	418 295	485 361	552 428	618 495	685 561	751 628	818 695	885 761	951 828	1018 894
140	1680.00	lb	415 292	487 363	559 435	631 507	702 579	774 651	846 722	918 794	989 866	1061 938	1133 1009
150	1800.00	lb	479 355	556 432	633 509	710 586	786 663	863 740	940 817	1017 894	1094 971	1171 1047	1248 1124

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 2021 input prices.

Table 2.A Estimated costs per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.7500	32.20	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90SP	lb	8.58	0.5000	4.29	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Acephate 90%	lb	9.87	1.5000	14.81	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	7.63	1.5000	11.45	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	51.0000	10.71	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.5025	7.67	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
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	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.23	0.5052	7.70	_____
DIESEL FUEL					
Tractors	gal	2.36	7.2737	17.17	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
Roll-Out Pipe Irr.	gal	2.36	8.5535	20.19	_____
REPAIR & MAINTENANCE					
Implements	acre	8.50	1.0000	8.50	_____
Tractors	acre	4.73	1.0000	4.73	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	12.34	1.0000	12.34	_____
TOTAL DIRECT EXPENSES				874.29	_____
FIXED EXPENSES					
Implements	acre	12.73	1.0000	12.73	_____
Tractors	acre	27.99	1.0000	27.99	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
Roll-Out Pipe Irr.	acre	49.28	1.0000	49.28	_____
TOTAL FIXED EXPENSES				179.17	_____
TOTAL SPECIFIED EXPENSES				1053.46	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1500.0000	1281.60	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1504.35	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	49.70	1.0000	49.70	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	90.77	1.0000	90.77	_____
INSECTICIDES	acre	92.07	1.0000	92.07	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.71	1.0000	10.71	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	15.27	0.7101	10.84	_____
UNALLOCATED LABOR	hour	15.23	0.5052	7.70	_____
DIESEL FUEL	gal	2.36	20.7109	48.88	_____
REPAIR & MAINTENANCE	acre	44.01	1.0000	44.01	_____
INTEREST ON OP. CAP.	acre	12.34	1.0000	12.34	_____

TOTAL DIRECT EXPENSES				874.29	_____
RETURNS ABOVE DIRECT EXPENSES				630.06	_____

TOTAL FIXED EXPENSES				179.17	_____

TOTAL SPECIFIED EXPENSES				1053.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				450.89	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90SP	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	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	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Mepiquat Chloride	oz					19.0000				
Centric 40WG	oz					2.0000				
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\$15	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				
Transform WG	oz					1.5000				
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				Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	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							0.71	0.50	1.38	0.50

Note: Cost of production estimates are based on 2021 input prices.

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

Table 2.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38	10.91
Bed/Disk (Hipper)	12R-38		1.80	1.13	1.35			0.15	4.43	4.51	8.94
App by Air (5 gal)	appl	7.00						0.16	7.16		7.16
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Select Max	pt	12.73						0.30	13.03		13.03
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95	8.92
UAN (32%)	gal	36.08						0.74	36.82		36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73	11.52
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90SP	lb	4.29						0.08	4.37		4.37
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28	2.22
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	36.08						0.53	36.61		36.61
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Diamond .83EC	oz	7.68						0.09	7.77		7.77
Imidacloprid 4F	oz	1.56						0.02	1.58		1.58
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.05	4.02	3.20	7.22
Engenia	oz	10.62						0.12	10.74		10.74
Glyphosate 3lbs a.e	oz	3.52						0.04	3.56		3.56
Dual Magnum	pt	10.02						0.12	10.14		10.14
Mepiquat Chloride	oz	3.99						0.05	4.04		4.04
Centric 40WG	oz	9.94						0.12	10.06		10.06
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Acephate 90%	lb	7.40						0.09	7.49		7.49
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Bifenthrin	oz	5.50						0.06	5.56		5.56
App by Air (3 gal)	appl	1.40						0.02	1.42		1.42
Lambda	oz	1.88						0.02	1.90		1.90
Bidrin 8EC	oz	2.68						0.03	2.71		2.71
Incidental Pest											
App by Air (3 gal)	appl	8.40						0.10	8.50		8.50
IncidentalPestTrt\$15	acre	22.50						0.26	22.76		22.76
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Acephate 90%	lb	7.40						0.06	7.46		7.46
Bifenthrin	oz	5.50						0.05	5.55		5.55
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Transform WG	oz	11.45						0.10	11.55		11.55
App by Air (5 gal)	appl	7.00						0.04	7.04		7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
App by Air (5 gal)	appl	3.50						0.02	3.52		3.52
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	165.00						0.48	165.48		165.48
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21	14.64
Roll-Out Pipe Irr.	acre	7.92	21.91	7.83	4.50			0.51	42.67	53.36	96.03
TOTALS		744.40	48.88	44.01	24.66	0.00	12.34	874.29	179.17	1053.46	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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	1504.35
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	21.00	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	44.86	0.00	24.16	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.29	4.29	59.14	24.35	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	0.00	10.71	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	39.29	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	2.83	0.00	0.00	0.00	0.00	1.65	3.91	4.62	1.65	0.23	0.63	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.76	0.00	0.00	0.00	0.00	1.88	4.00	9.41	8.35	6.73	0.39	14.36
REPAIR & MAINTENANCE	3.03	0.00	0.00	0.00	0.00	1.34	3.21	6.09	2.33	1.40	0.17	26.44
INTEREST ON OP. CAP.	3.48	0.00	0.00	0.00	0.69	0.84	3.63	1.00	1.50	0.38	0.19	0.63
TOTAL DIRECT EXPENSES	102.67	0.00	0.00	0.00	30.10	41.79	210.11	69.41	128.84	44.29	31.51	215.57
NET INCOME	-102.67	0.00	0.00	0.00	-30.10	-41.79	-210.11	-69.41	-128.84	-44.29	-31.51	1288.78
NET INCOME TO DATE	-102.67	-102.67	-102.67	-102.67	-132.77	-174.56	-384.67	-454.08	-582.92	-627.21	-658.72	630.06

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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, conserv. tillage, furrow irr.
 B3XF variety, 10.5 ac-in., Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-88 -267	-56 -235	-24 -203	7 -171	39 -139	72 -107	104 -75	136 -43	168 -11	200 20	232 53
60	900.00	lb	-8 -187	29 -149	68 -110	106 -72	145 -34	183 4	222 42	260 81	298 119	337 158	375 196
70	1050.00	lb	70 -108	115 -63	160 -18	205 26	250 71	295 116	340 160	384 205	429 250	474 295	519 340
80	1200.00	lb	150 -28	201 22	253 73	304 125	355 176	406 227	458 278	509 330	560 381	611 432	663 483
90	1350.00	lb	230 50	287 108	345 166	403 223	460 281	518 339	576 396	633 454	691 512	749 569	806 627
100	1500.00	lb	309 130	373 194	437 258	501 322	565 386	630 450	694 514	758 579	822 643	886 707	950 771
110	1650.00	lb	389 210	459 280	530 351	600 421	671 492	741 562	812 632	882 703	953 773	1023 844	1094 914
120	1800.00	lb	468 289	545 366	622 443	699 520	776 597	853 674	930 751	1007 827	1083 904	1160 981	1237 1058
130	1950.00	lb	548 369	631 452	714 535	798 619	881 702	964 785	1048 869	1131 952	1214 1035	1298 1118	1381 1202
140	2100.00	lb	627 448	717 538	807 628	897 717	986 807	1076 897	1166 987	1255 1076	1345 1166	1435 1256	1525 1345
150	2250.00	lb	707 528	803 624	899 720	995 816	1092 912	1188 1008	1284 1105	1380 1201	1476 1297	1572 1393	1668 1489

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 2021 input prices.

Table 3.A Estimated costs per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.7500	32.20	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.3993	6.10	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
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	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.24	0.4855	7.40	_____
DIESEL FUEL					
Tractors	gal	2.36	6.1665	14.55	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
1/4-mi. Pivot Irr.	gal	2.36	11.2011	26.43	_____
REPAIR & MAINTENANCE					
Implements	acre	7.97	1.0000	7.97	_____
Tractors	acre	4.03	1.0000	4.03	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	12.51	1.0000	12.51	_____
TOTAL DIRECT EXPENSES				880.40	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	23.84	1.0000	23.84	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
1/4-mi. Pivot Irr.	acre	68.70	1.0000	68.70	_____
TOTAL FIXED EXPENSES				192.25	_____
TOTAL SPECIFIED EXPENSES				1072.65	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1500.0000	1281.60	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1504.35	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	49.70	1.0000	49.70	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	90.77	1.0000	90.77	_____
INSECTICIDES	acre	92.71	1.0000	92.71	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	15.27	0.6069	9.27	_____
UNALLOCATED LABOR	hour	15.24	0.4855	7.40	_____
DIESEL FUEL	gal	2.36	22.2512	52.50	_____
REPAIR & MAINTENANCE	acre	57.57	1.0000	57.57	_____
INTEREST ON OP. CAP.	acre	12.51	1.0000	12.51	_____

TOTAL DIRECT EXPENSES				880.40	_____
RETURNS ABOVE DIRECT EXPENSES				623.95	_____
TOTAL FIXED EXPENSES					
				192.25	_____

TOTAL SPECIFIED EXPENSES				1072.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				431.70	_____

Note: Cost of production estimates are based on 2021 input prices.

Table 3.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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% K20)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	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							0.60	0.39	1.12	0.48

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	36.08						0.74	36.82	36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed B3XF	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Engenia	oz	10.62						0.19	10.81	10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58	3.58
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	36.08						0.53	36.61	36.61
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Engenia	oz	10.62						0.15	10.77	10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57	3.57
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	8.40						0.10	8.50	8.50
IncidentalPestTrt\$15	acre	22.50						0.26	22.76	22.76
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	165.00						0.48	165.48	165.48
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21
1/4-mi. Pivot Irr.	acre		26.43	21.95	1.84			0.64	50.86	68.70
TOTALS			736.49	52.50	57.57	21.33	0.00	12.51	880.40	192.25
									880.40	1072.65

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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	1504.35
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	21.00	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	49.20	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	5.02	3.59	0.20	0.15	0.00	8.56
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	11.78	10.57	7.93	0.00	13.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.34	3.21	20.95	1.99	1.49	0.00	26.12
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.84	3.66	1.66	1.06	0.39	0.18	0.62
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	41.79	211.89	115.81	90.74	45.51	30.31	213.78
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-41.79	-211.89	-115.81	-90.74	-45.51	-30.31	1290.57
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-172.36	-384.25	-500.06	-590.80	-636.31	-666.62	623.95

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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, cons. tillage, pivot irr.
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-94	-62	-30	1	33	65	97	129	162	194	226
			-286	-254	-222	-190	-158	-126	-94	-62	-30	1	33
60	900.00	lb	-14	23	62	100	139	177	215	254	292	331	369
			-206	-168	-130	-91	-53	-14	23	62	100	139	177
70	1050.00	lb	64	109	154	199	244	289	333	378	423	468	513
			-127	-82	-37	7	52	96	141	186	231	276	321
80	1200.00	lb	144	195	246	298	349	400	451	503	554	605	657
			-47	3	54	105	157	208	259	311	362	413	464
90	1350.00	lb	223	281	339	396	454	512	570	627	685	743	800
			31	89	147	204	262	320	377	435	493	550	608
100	1500.00	lb	303	367	431	495	559	623	688	752	816	880	944
			111	175	239	303	367	431	495	559	623	688	752
110	1650.00	lb	383	453	524	594	665	735	806	876	947	1017	1088
			190	261	331	402	472	543	613	684	754	825	895
120	1800.00	lb	462	539	616	693	770	847	924	1000	1077	1154	1231
			270	347	424	501	578	654	731	808	885	962	1039
130	1950.00	lb	542	625	708	792	875	958	1042	1125	1208	1292	1375
			350	433	516	599	683	766	849	933	1016	1099	1183
140	2100.00	lb	621	711	801	890	980	1070	1160	1249	1339	1429	1518
			429	519	609	698	788	878	967	1057	1147	1236	1326
150	2250.00	lb	701	797	893	989	1085	1182	1278	1374	1470	1566	1662
			509	605	701	797	893	989	1085	1182	1278	1374	1470

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 2021 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	25.4000	53.34	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.2712	4.14	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.21	0.3830	5.83	_____
DIESEL FUEL					
Tractors	gal	2.36	4.1890	9.88	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
REPAIR & MAINTENANCE					
Implements	acre	5.78	1.0000	5.78	_____
Tractors	acre	2.74	1.0000	2.74	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
INTEREST ON OP. CAP.	acre	10.82	1.0000	10.82	_____
TOTAL DIRECT EXPENSES				754.48	_____
FIXED EXPENSES					
Implements	acre	7.27	1.0000	7.27	_____
Tractors	acre	16.20	1.0000	16.20	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
TOTAL FIXED EXPENSES				112.64	_____
TOTAL SPECIFIED EXPENSES				867.12	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 4.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	92.79	1.0000	92.79	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	90.77	1.0000	90.77	_____
INSECTICIDES	acre	85.21	1.0000	85.21	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2897	2.61	_____
OPERATOR LABOR	hour	15.27	0.4788	7.31	_____
UNALLOCATED LABOR	hour	15.21	0.3830	5.83	_____
DIESEL FUEL	gal	2.36	9.0726	21.40	_____
REPAIR & MAINTENANCE	acre	32.14	1.0000	32.14	_____
INTEREST ON OP. CAP.	acre	10.82	1.0000	10.82	_____

TOTAL DIRECT EXPENSES				754.48	_____
RETURNS ABOVE DIRECT EXPENSES				449.00	_____

TOTAL FIXED EXPENSES				112.64	_____

TOTAL SPECIFIED EXPENSES				867.12	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				336.36	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Delta Area, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	ALLOC UNIT	UNALL 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 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May		0.01	0.01	0.01	0.00
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	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun		0.01	0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
App by Air (5 gal)	appl	7.00						0.16	7.16		7.16
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Select Max	pt	12.73						0.30	13.03		13.03
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
NT Plant-Folding	12R-38		1.88	2.39	1.89			0.11	6.27	6.40	12.67
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28	2.22
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	53.34						0.78	54.12		54.12
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Engenia	oz	10.62						0.15	10.77		10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57		3.57
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Diamond .83EC	oz	7.68						0.09	7.77		7.77
Imidacloprid 4F	oz	1.56						0.02	1.58		1.58
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Acephate 90%	lb	7.40						0.09	7.49		7.49
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Bifenthrin	oz	5.50						0.06	5.56		5.56
App by Air (3 gal)	appl	1.40						0.02	1.42		1.42
Lambda	oz	1.88						0.02	1.90		1.90
Bidrin 8EC	oz	2.68						0.03	2.71		2.71
Incidental Pest											
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Acephate 90%	lb	7.40						0.06	7.46		7.46
Bifenthrin	oz	5.50						0.05	5.55		5.55
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Transform WG	oz	11.45						0.10	11.55		11.55
App by Air (5 gal)	appl	7.00						0.04	7.04		7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
App by Air (5 gal)	appl	3.50						0.02	3.52		3.52
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	132.00						0.39	132.39		132.39
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21	14.64
TOTALS		674.37	21.40	32.14	15.75	0.00	10.82	754.48	112.64	867.12	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	53.34	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	21.75	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	3.75	3.44	0.00	0.00	0.00	8.56
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	4.07	3.85	0.00	0.00	0.00	13.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.54	2.48	0.00	0.00	0.00	26.12
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.69	0.00	3.65	1.52	0.80	0.31	0.18	0.53
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	30.10	0.00	211.01	106.38	67.42	35.86	30.31	180.69
NET INCOME	-92.71	0.00	0.00	0.00	-30.10	0.00	-211.01	-106.38	-67.42	-35.86	-30.31	1022.79
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-122.81	-122.81	-333.82	-440.20	-507.62	-543.48	-573.79	449.00

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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, no-till
 B3XF variety, Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-125 -238	-99 -212	-74 -186	-48 -161	-23 -135	2 -110	28 -84	53 -58	79 -33	105 -7	130 18
60	720.00	lb	-61 -174	-31 -143	-0 -113	30 -82	61 -51	91 -20	122 9	153 40	184 71	214 102	245 132
70	840.00	lb	1 -110	37 -75	73 -39	109 -3	145 32	181 68	217 104	252 140	288 176	324 212	360 247
80	960.00	lb	65 -47	106 -6	147 34	188 75	229 116	270 157	311 198	352 239	393 280	434 321	475 362
90	1080.00	lb	129 16	175 62	221 108	267 154	313 200	359 247	405 293	451 339	498 385	544 431	590 477
100	1200.00	lb	192 80	243 131	295 182	346 233	397 285	449 336	500 387	551 438	602 490	654 541	705 592
110	1320.00	lb	256 143	312 200	369 256	425 312	481 369	538 425	594 482	651 538	707 594	763 651	820 707
120	1440.00	lb	319 207	381 268	443 330	504 391	566 453	627 514	689 576	750 637	812 699	873 761	935 822
130	1560.00	lb	383 271	450 337	516 404	583 470	650 537	716 604	783 670	850 737	916 804	983 870	1050 937
140	1680.00	lb	447 334	519 406	590 478	662 549	734 621	806 693	877 765	949 837	1021 908	1093 980	1165 1052
150	1800.00	lb	510 398	587 475	664 552	741 629	818 705	895 782	972 859	1049 936	1126 1013	1203 1090	1279 1167

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 2021 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	32.5498	68.35	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	1.3400	6.66	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	30.0000	77.70	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	42.7200	8.97	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.8159	12.46	_____
Self-Propelled	hour	15.27	0.1958	2.99	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR	hour	15.23	0.8094	12.33	_____
DIESEL FUEL					
Tractors	gal	2.36	12.6003	29.73	_____
Self-Propelled	gal	2.36	3.4035	8.03	_____
REPAIR & MAINTENANCE					
Implements	acre	11.56	1.0000	11.56	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	10.03	1.0000	10.03	_____
INTEREST ON OP. CAP.	acre	10.71	1.0000	10.71	_____
TOTAL DIRECT EXPENSES				707.36	_____
FIXED EXPENSES					
Implements	acre	16.58	1.0000	16.58	_____
Tractors	acre	48.73	1.0000	48.73	_____
Self-Propelled	acre	38.23	1.0000	38.23	_____
TOTAL FIXED EXPENSES				103.54	_____
TOTAL SPECIFIED EXPENSES				810.90	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	811.0000	692.92	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				813.37	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	107.81	1.0000	107.81	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	90.77	1.0000	90.77	_____
INSECTICIDES	acre	81.93	1.0000	81.93	_____
SEED/PLANTS	acre	77.70	1.0000	77.70	_____
GROWTH REGULATORS	acre	8.97	1.0000	8.97	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5022	4.53	_____
OPERATOR LABOR	hour	15.27	1.0118	15.45	_____
UNALLOCATED LABOR	hour	15.23	0.8094	12.33	_____
DIESEL FUEL	gal	2.36	16.0039	37.76	_____
REPAIR & MAINTENANCE	acre	29.82	1.0000	29.82	_____
INTEREST ON OP. CAP.	acre	10.71	1.0000	10.71	_____

TOTAL DIRECT EXPENSES				707.36	_____
RETURNS ABOVE DIRECT EXPENSES				106.01	_____

TOTAL FIXED EXPENSES				103.54	_____

TOTAL SPECIFIED EXPENSES				810.90	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				2.47	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

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-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 5.D Estimated costs for field operations, per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	8R-38 2x1		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	8R-38 2x1		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	8R-38 2x1		1.88	1.39	1.65			0.10	5.02	4.00
UAN (32%)	gal	34.18						0.70	34.88	34.88
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	8R-38 2x1		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed B3XF	thous	77.70						1.36	79.06	79.06
Cotton Seed Trt.	acre	13.40						0.23	13.63	13.63
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Engenia	oz	10.62						0.19	10.81	10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58	3.58
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Spray (Direct/Layby)	8R-38 2x1		1.62	0.93	1.42			0.06	4.03	3.20
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	8R-38 2x1		1.88	1.39	1.65			0.07	4.99	4.00
UAN (32%)	gal	34.18						0.50	34.68	34.68
Spray (Direct/Layby)	8R-38 2x1		1.62	0.93	1.42			0.06	4.03	3.20
Engenia	oz	10.62						0.15	10.77	10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57	3.57
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	6.66						0.10	6.76	6.76
Mepiquat Chloride	oz	2.25						0.03	2.28	2.28
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Cotton Picker	4R2x1(350)		7.33	9.61	6.29			0.07	23.30	35.67
Boll Buggy	4R2x1(350)		6.28	3.05	4.73			0.04	14.10	12.76
Module Builder	4R2x1(350)		6.28	3.23	6.29			0.05	15.85	13.10
Gin & Haul	lb	89.21						0.26	89.47	89.47
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
TOTALS		596.76	37.76	29.82	32.31	0.00	10.71	707.36	103.54	810.90

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 5.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

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	813.37
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	34.18	0.00	34.18	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	21.75	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	10.95	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	77.70	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	3.68	4.49	0.00	0.00	0.00	20.33
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	5.12	0.00	0.00	0.00	23.90
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.39	3.21	3.25	0.00	0.00	0.00	19.50
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.80	2.84	1.23	0.80	0.31	0.18	0.45
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	39.90	164.28	85.63	67.42	35.86	30.31	153.39
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-39.90	-164.28	-85.63	-67.42	-35.86	-30.31	659.98
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-170.47	-334.75	-420.38	-487.80	-523.66	-553.97	106.01

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-282 -385	-265 -368	-247 -351	-230 -333	-213 -316	-195 -299	-178 -281	-161 -264	-143 -247	-126 -229	-109 -212
60	486.60	lb	-239 -342	-218 -322	-197 -301	-176 -280	-156 -259	-135 -238	-114 -218	-93 -197	-73 -176	-52 -155	-31 -134
70	567.70	lb	-196 -299	-172 -275	-147 -251	-123 -227	-99 -202	-75 -178	-50 -154	-26 -130	-2 -105	21 -81	46 -57
80	648.80	lb	-153 -256	-125 -229	-97 -201	-70 -173	-42 -145	-14 -118	13 -90	40 -62	68 -35	96 -7	123 20
90	729.90	lb	-110 -213	-79 -182	-47 -151	-16 -120	14 -89	45 -57	76 -26	108 4	139 35	170 66	201 98
100	811.00	lb	-67 -170	-32 -136	2 -101	36 -66	71 -32	106 2	140 37	175 71	209 106	244 141	279 175
110	892.10	lb	-24 -127	13 -89	52 -51	90 -13	128 24	166 62	204 100	242 139	280 177	318 215	356 253
120	973.20	lb	18 -84	60 -43	101 -1	143 40	185 81	226 123	268 164	309 206	351 247	393 289	434 331
130	1054.30	lb	61 -41	106 3	151 48	196 93	242 138	287 183	332 228	377 273	422 318	467 363	512 408
140	1135.40	lb	104 1	153 49	201 98	250 146	298 195	347 243	395 292	444 340	492 389	541 437	589 486
150	1216.50	lb	147 44	199 96	251 148	303 200	355 252	407 304	459 356	511 408	563 460	615 512	667 564

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 2021 input prices.

Table 6.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.9288	14.19	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR	hour	15.29	1.0008	15.31	_____
DIESEL FUEL					
Tractors	gal	2.36	14.3433	33.86	_____
Self-Propelled	gal	2.36	4.4973	10.58	_____
REPAIR & MAINTENANCE					
Implements	acre	11.57	1.0000	11.57	_____
Tractors	acre	9.40	1.0000	9.40	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	10.53	1.0000	10.53	_____
TOTAL DIRECT EXPENSES				690.61	_____
FIXED EXPENSES					
Implements	acre	16.28	1.0000	16.28	_____
Tractors	acre	55.45	1.0000	55.45	_____
Self-Propelled	acre	57.17	1.0000	57.17	_____
TOTAL FIXED EXPENSES				128.90	_____
TOTAL SPECIFIED EXPENSES				819.51	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1000.0000	854.40	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				1002.90	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	78.04	1.0000	78.04	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.6051	5.48	_____
OPERATOR LABOR	hour	15.27	1.2510	19.11	_____
UNALLOCATED LABOR	hour	15.29	1.0008	15.31	_____
DIESEL FUEL	gal	2.36	18.8406	44.44	_____
REPAIR & MAINTENANCE	acre	35.19	1.0000	35.19	_____
INTEREST ON OP. CAP.	acre	10.53	1.0000	10.53	_____

TOTAL DIRECT EXPENSES				690.61	_____
RETURNS ABOVE DIRECT EXPENSES				312.29	_____

TOTAL FIXED EXPENSES				128.90	_____

TOTAL SPECIFIED EXPENSES				819.51	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				183.39	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 6.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	8R-38	MFWD 300	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 300	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 300	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 300	0.074	1.00	May		0.07	0.07	0.14	0.05
Cotton Seed B3XF	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					
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38	MFWD 300	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38 (355)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.25	0.92	1.85	1.00

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	8R-38		2.94	2.25	2.22			0.26	7.67	7.11
Bed/Disk (Hipper)Rd	8R-38		1.35	0.59	1.02			0.10	3.06	2.73
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.15	7.43	5.86
UAN (32%)	gal	30.38						0.62	31.00	31.00
Row Cond Rigid	26'		2.18	0.88	1.64			0.08	4.78	4.66
Plant - Folding	8R-38		2.72	2.27	2.73			0.14	7.86	7.14
Cotton Seed B3XF	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Engenia	oz	10.62						0.19	10.81	10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58	3.58
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.11	7.39	5.86
UAN (32%)	gal	30.38						0.44	30.82	30.82
Spray (Direct/Layby)	8R-38		2.44	1.17	2.14			0.08	5.83	4.53
Engenia	oz	10.62						0.15	10.77	10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57	3.57
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Acephate 90%	lb	7.40						0.09	7.49	7.49
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Acephate 90%	lb	7.40						0.06	7.46	7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker	6R-38(355)		7.43	12.52	6.29			0.08	26.32	46.46
Boll Buggy	6R-38(355)		6.28	3.05	4.73			0.04	14.10	12.76
Module Builder	6R-38(355)		6.28	3.23	6.29			0.05	15.85	13.10
Gin & Haul	lb	110.00						0.32	110.32	110.32
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
TOTALS		560.55	44.44	35.19	39.90	0.00	10.53	690.61	128.90	819.51

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

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	1002.90
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	3.24	0.00	0.00	0.00	0.57	2.49	5.51	5.20	1.14	0.57	0.85	20.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.29	0.00	0.00	0.00	0.37	2.83	5.64	5.64	0.74	0.37	0.56	24.00
REPAIR & MAINTENANCE	2.84	0.00	0.00	0.00	0.20	1.96	3.55	3.33	0.40	0.20	0.30	22.41
INTEREST ON OP. CAP.	3.50	0.00	0.00	0.00	0.26	0.77	3.70	1.25	0.33	0.07	0.13	0.52
TOTAL DIRECT EXPENSES	103.44	0.00	0.00	0.00	11.08	38.43	214.40	87.55	28.37	8.61	21.47	177.26
NET INCOME	-103.44	0.00	0.00	0.00	-11.08	-38.43	-214.40	-87.55	-28.37	-8.61	-21.47	825.64
NET INCOME TO DATE	-103.44	-103.44	-103.44	-103.44	-114.52	-152.95	-367.35	-454.90	-483.27	-491.88	-513.35	312.29

Note: Cost of production estimates are based on 2021 input price.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
	PRODUCT PRICE													
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06			
PERCENT	YIELD	UNIT	dollars											
50	500.00	lb	-166	-145	-123	-102	-81	-59	-38	-17	4	25	47	
			-295	-274	-252	-231	-210	-188	-167	-145	-124	-103	-81	
60	600.00	lb	-113	-87	-62	-36	-10	14	40	65	91	117	142	
			-242	-216	-191	-165	-139	-114	-88	-62	-37	-11	13	
70	700.00	lb	-60	-30	-0	29	59	89	118	148	178	208	238	
			-189	-159	-129	-99	-69	-39	-9	19	49	79	109	
80	800.00	lb	-7	26	60	95	129	163	197	231	266	300	334	
			-136	-102	-67	-33	0	34	68	102	137	171	205	
90	900.00	lb	45	84	122	160	199	237	276	314	353	391	430	
			-83	-44	-6	32	70	108	147	185	224	262	301	
100	1000.00	lb	98	141	184	226	269	312	355	397	440	483	525	
			-30	12	55	97	140	183	226	268	311	354	396	
110	1100.00	lb	151	198	245	292	339	386	433	480	527	574	621	
			22	69	116	163	210	257	304	351	398	445	492	
120	1200.00	lb	204	256	307	358	409	461	512	563	614	666	717	
			75	127	178	229	280	332	383	434	485	537	588	
130	1300.00	lb	257	313	368	424	479	535	591	646	702	757	813	
			128	184	240	295	351	406	462	517	573	628	684	
140	1400.00	lb	310	370	430	490	550	609	669	729	789	849	908	
			181	241	301	361	421	481	540	600	660	720	780	
150	1500.00	lb	363	428	492	556	620	684	748	812	876	940	1004	
			235	299	363	427	491	555	619	683	747	811	875	

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 7.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	18.4000	38.64	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.7365	11.25	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
	hour	15.30	0.8469	12.96	_____
DIESEL FUEL					
Tractors	gal	2.36	11.3731	26.85	_____
Self-Propelled	gal	2.36	4.4973	10.58	_____
REPAIR & MAINTENANCE					
Implements	acre	9.06	1.0000	9.06	_____
Tractors	acre	7.45	1.0000	7.45	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	9.49	1.0000	9.49	_____
TOTAL DIRECT EXPENSES				639.36	_____
FIXED EXPENSES					
Implements	acre	12.77	1.0000	12.77	_____
Tractors	acre	43.97	1.0000	43.97	_____
Self-Propelled	acre	57.17	1.0000	57.17	_____
TOTAL FIXED EXPENSES				113.91	_____
TOTAL SPECIFIED EXPENSES				753.27	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 7.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	900.0000	768.96	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				902.61	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	78.09	1.0000	78.09	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	78.04	1.0000	78.04	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5694	5.15	_____
OPERATOR LABOR	hour	15.27	1.0586	16.17	_____
UNALLOCATED LABOR	hour	15.30	0.8469	12.96	_____
DIESEL FUEL	gal	2.36	15.8705	37.43	_____
REPAIR & MAINTENANCE	acre	30.73	1.0000	30.73	_____
INTEREST ON OP. CAP.	acre	9.49	1.0000	9.49	_____

TOTAL DIRECT EXPENSES				639.36	_____
RETURNS ABOVE DIRECT EXPENSES				263.25	_____
TOTAL FIXED EXPENSES					
				113.91	_____

TOTAL SPECIFIED EXPENSES				753.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				149.34	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 7.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

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					1.5000				
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 300	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant-Folding	8R-38	MFWD 300	0.077	1.00	May		0.07	0.07	0.15	0.06
Cotton Seed B3XF	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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38	MFWD 300	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.05	0.73	1.62	0.84

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Rigid	26'		2.18	0.88	1.64			0.08	4.78	4.66	9.44
NT Plant-Folding	8R-38		2.83	2.61	2.84			0.14	8.42	7.85	16.27
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.11	7.39	5.86	13.25
UAN (32%)	gal	38.64						0.56	39.20		39.20
Spray (Direct/Layby)	8R-38		2.44	1.17	2.14			0.08	5.83	4.53	10.36
Engenia	oz	10.62						0.15	10.77		10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57		3.57
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker	6R-38(355)		7.43	12.52	6.29			0.08	26.32	46.46	72.78
Boll Buggy	6R-38(355)		6.28	3.05	4.73			0.04	14.10	12.76	26.86
Module Builder	6R-38(355)		6.28	3.23	6.29			0.05	15.85	13.10	28.95
Gin & Haul	lb	99.00						0.29	99.29		99.29
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
TOTALS		527.43	37.43	30.73	34.28	0.00	9.49	639.36	113.91	753.27	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

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	902.61
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	38.64	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	0.57	0.00	5.62	5.20	1.14	0.57	0.85	20.33
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	0.37	0.00	5.75	5.64	0.74	0.37	0.56	24.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.89	3.33	0.40	0.20	0.30	22.41
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.26	0.00	3.70	1.37	0.33	0.07	0.13	0.49
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	11.08	0.00	214.96	95.93	28.37	8.61	21.47	166.23
NET INCOME	-92.71	0.00	0.00	0.00	-11.08	0.00	-214.96	-95.93	-28.37	-8.61	-21.47	736.38
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-103.79	-103.79	-318.75	-414.68	-443.05	-451.66	-473.13	263.25

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-167 -281	-148 -262	-129 -243	-110 -223	-90 -204	-71 -185	-52 -166	-33 -147	-13 -127	5 -108	24 -89
60	540.00	lb	-119 -233	-96 -210	-73 -187	-50 -164	-27 -141	-4 -118	18 -95	41 -72	64 -49	87 -26	110 -3
70	630.00	lb	-72 -186	-45 -159	-18 -132	8 -105	35 -78	62 -51	89 -24	116 2	143 29	170 56	196 83
80	720.00	lb	-24 -138	6 -107	37 -76	67 -46	98 -15	129 15	160 46	190 76	221 107	252 138	283 169
90	810.00	lb	23 -90	57 -56	92 -21	127 13	161 47	196 82	230 116	265 151	300 186	334 220	369 255
100	900.00	lb	71 -42	109 -4	147 33	186 72	224 110	263 149	301 187	340 226	378 264	417 303	455 341
110	990.00	lb	118 4	161 47	203 89	245 131	287 174	330 216	372 258	414 300	457 343	499 385	541 427
120	1080.00	lb	166 52	212 98	258 144	304 190	351 237	397 283	443 329	489 375	535 421	581 467	627 513
130	1170.00	lb	214 100	264 150	314 200	364 250	414 300	464 350	514 400	564 450	614 500	664 550	714 600
140	1260.00	lb	261 148	315 201	369 255	423 309	477 363	531 417	584 471	638 524	692 578	746 632	800 686
150	1350.00	lb	309 195	367 253	425 311	482 368	540 426	598 484	655 541	713 599	771 657	828 714	886 772

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 2021 input prices.

Table 8.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.4268	6.52	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
hour	hour	15.32	0.5992	9.18	_____
DIESEL FUEL					
Tractors	gal	2.36	6.5911	15.55	_____
Self-Propelled	gal	2.36	5.7832	13.62	_____
REPAIR & MAINTENANCE					
Implements	acre	8.18	1.0000	8.18	_____
Tractors	acre	4.30	1.0000	4.30	_____
Self-Propelled	acre	24.69	1.0000	24.69	_____
INTEREST ON OP. CAP.	acre	10.22	1.0000	10.22	_____
TOTAL DIRECT EXPENSES				661.08	_____
FIXED EXPENSES					
Implements	acre	10.66	1.0000	10.66	_____
Tractors	acre	25.49	1.0000	25.49	_____
Self-Propelled	acre	96.04	1.0000	96.04	_____
TOTAL FIXED EXPENSES				132.19	_____
TOTAL SPECIFIED EXPENSES				793.27	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 8.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1000.0000	854.40	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				1002.90	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	78.04	1.0000	78.04	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3708	3.35	_____
OPERATOR LABOR	hour	15.27	0.7490	11.44	_____
UNALLOCATED LABOR	hour	15.32	0.5992	9.18	_____
DIESEL FUEL	gal	2.36	12.3744	29.17	_____
REPAIR & MAINTENANCE	acre	37.17	1.0000	37.17	_____
INTEREST ON OP. CAP.	acre	10.22	1.0000	10.22	_____

TOTAL DIRECT EXPENSES				661.08	_____
RETURNS ABOVE DIRECT EXPENSES				341.82	_____
TOTAL FIXED EXPENSES				132.19	_____

TOTAL SPECIFIED EXPENSES				793.27	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				209.63	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 8.C Estimated resource use for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.74	0.42	1.11	0.59

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 8.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38	10.91
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25	4.48
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95	8.92
UAN (32%)	gal	30.38						0.62	31.00		31.00
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73	11.52
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	30.38						0.44	30.82		30.82
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Engenia	oz	10.62						0.15	10.77		10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57		3.57
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	110.00						0.32	110.32		110.32
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
TOTALS		560.55	29.17	37.17	23.97	0.00	10.22	661.08	132.19	793.27	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

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	1002.90
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	2.16	0.00	0.00	0.00	0.57	1.65	4.08	3.64	1.14	0.57	0.85	9.31
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	2.86	0.00	0.00	0.00	0.37	1.88	4.04	3.87	0.74	0.37	0.56	14.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.20	1.34	3.19	2.47	0.40	0.20	0.30	26.60
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.26	0.72	3.64	1.19	0.33	0.07	0.13	0.47
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	11.08	35.97	210.95	83.30	28.37	8.61	21.47	160.86
NET INCOME	-100.47	0.00	0.00	0.00	-11.08	-35.97	-210.95	-83.30	-28.37	-8.61	-21.47	842.04
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-111.55	-147.52	-358.47	-441.77	-470.14	-478.75	-500.22	341.82

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-137 -269	-115 -247	-94 -226	-72 -205	-51 -183	-30 -162	-8 -141	12 -119	33 -98	55 -76	76 -55
60	600.00	lb	-83 -216	-58 -190	-32 -164	-7 -139	18 -113	44 -88	69 -62	95 -36	121 -11	146 14	172 40
70	700.00	lb	-30 -163	-1 -133	28 -103	58 -73	88 -43	118 -13	148 16	178 46	208 76	238 106	268 135
80	800.00	lb	22 -110	56 -75	90 -41	124 -7	158 26	193 60	227 94	261 129	295 163	329 197	363 231
90	900.00	lb	75 -57	113 -18	152 19	190 58	228 96	267 135	305 173	344 212	382 250	421 289	459 327
100	1000.00	lb	128 -3	170 38	213 81	256 124	299 166	341 209	384 252	427 295	469 337	512 380	555 423
110	1100.00	lb	181 49	228 96	275 143	322 190	369 237	416 284	463 331	510 378	557 425	604 472	651 518
120	1200.00	lb	234 102	285 153	336 204	388 255	439 307	490 358	541 409	593 460	644 512	695 563	746 614
130	1300.00	lb	287 155	342 210	398 266	453 321	509 377	565 432	620 488	676 543	731 599	787 654	842 710
140	1400.00	lb	340 208	400 268	460 327	519 387	579 447	639 507	699 567	759 626	818 686	878 746	938 806
150	1500.00	lb	393 261	457 325	521 389	585 453	649 517	713 581	777 645	842 709	906 773	970 837	1034 902

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 2021 input prices.

Table 9.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	18.4000	38.64	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.2987	4.56	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
	hour	15.31	0.4967	7.61	_____
DIESEL FUEL					
Tractors	gal	2.36	4.6137	10.88	_____
Self-Propelled	gal	2.36	5.7832	13.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.99	1.0000	5.99	_____
Tractors	acre	3.01	1.0000	3.01	_____
Self-Propelled	acre	24.69	1.0000	24.69	_____
INTEREST ON OP. CAP.	acre	9.33	1.0000	9.33	_____
TOTAL DIRECT EXPENSES				615.18	_____
FIXED EXPENSES					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	17.85	1.0000	17.85	_____
Self-Propelled	acre	96.04	1.0000	96.04	_____
TOTAL FIXED EXPENSES				121.28	_____
TOTAL SPECIFIED EXPENSES				736.46	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 9.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	900.0000	768.96	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				902.61	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	78.09	1.0000	78.09	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	78.04	1.0000	78.04	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3470	3.14	_____
OPERATOR LABOR	hour	15.27	0.6209	9.48	_____
UNALLOCATED LABOR	hour	15.31	0.4967	7.61	_____
DIESEL FUEL	gal	2.36	10.3969	24.50	_____
REPAIR & MAINTENANCE	acre	33.69	1.0000	33.69	_____
INTEREST ON OP. CAP.	acre	9.33	1.0000	9.33	_____

TOTAL DIRECT EXPENSES				615.18	_____
RETURNS ABOVE DIRECT EXPENSES				287.43	_____

TOTAL FIXED EXPENSES				121.28	_____

TOTAL SPECIFIED EXPENSES				736.46	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				166.15	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 9.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	ALLOC UNIT	UNALL LABOR	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				
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 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B3XF	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	
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun		0.01	0.02	0.01	
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.62	0.29	0.96	0.49

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 9.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
NT Plant-Folding	12R-38		1.88	2.39	1.89			0.11	6.27	6.40	12.67
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	38.64						0.56	39.20		39.20
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Engenia	oz	10.62						0.15	10.77		10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57		3.57
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	99.00						0.29	99.29		99.29
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
TOTALS		527.43	24.50	33.69	20.23	0.00	9.33	615.18	121.28	736.46	

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 9.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

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	902.61
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	38.64	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	0.57	0.00	4.15	3.64	1.14	0.57	0.85	9.31
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	0.37	0.00	4.11	3.87	0.74	0.37	0.56	14.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.52	2.47	0.40	0.20	0.30	26.60
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.26	0.00	3.65	1.31	0.33	0.07	0.13	0.44
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	11.08	0.00	211.43	91.68	28.37	8.61	21.47	149.83
NET INCOME	-92.71	0.00	0.00	0.00	-11.08	0.00	-211.43	-91.68	-28.37	-8.61	-21.47	752.78
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-103.79	-103.79	-315.22	-406.90	-435.27	-443.88	-465.35	287.43

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-143	-124	-105	-85	-66	-47	-28	-8	10	29	48
			-264	-245	-226	-207	-187	-168	-149	-130	-111	-91	-72
60	540.00	lb	-95	-72	-49	-26	-3	19	42	65	88	111	134
			-217	-193	-170	-147	-124	-101	-78	-55	-32	-9	13
70	630.00	lb	-48	-21	5	32	59	86	113	140	167	194	221
			-169	-142	-115	-88	-61	-34	-7	19	45	72	99
80	720.00	lb	-0	30	61	91	122	153	184	215	245	276	307
			-121	-90	-60	-29	1	32	62	93	124	155	186
90	810.00	lb	47	82	116	151	185	220	255	289	324	358	393
			-73	-39	-4	29	64	99	133	168	202	237	272
100	900.00	lb	95	133	172	210	248	287	325	364	402	441	479
			-26	12	50	89	127	166	204	243	281	319	358
110	990.00	lb	142	185	227	269	312	354	396	438	481	523	565
			21	63	106	148	190	233	275	317	359	402	444
120	1080.00	lb	190	236	282	329	375	421	467	513	559	605	652
			69	115	161	207	253	300	346	392	438	484	530
130	1170.00	lb	238	288	338	388	438	488	538	588	638	688	738
			117	167	217	267	317	367	417	467	516	566	616
140	1260.00	lb	286	339	393	447	501	555	609	662	716	770	824
			164	218	272	326	380	434	487	541	595	649	703
150	1350.00	lb	333	391	449	506	564	622	679	737	795	852	910
			212	270	327	385	443	500	558	616	674	731	789

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 2021 input prices.

Table 10.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	96.0000	10.56	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.4268	6.52	_____
Self-Propelled	hour	15.27	0.3309	5.05	_____
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	0.2516	2.28	_____
UNALLOCATED LABOR					
	hour	15.30	0.6062	9.28	_____
DIESEL FUEL					
Tractors	gal	2.36	6.5911	15.55	_____
Self-Propelled	gal	2.36	5.8626	13.81	_____
1/4-mi. Pivot Irr.	gal	2.36	11.2011	26.43	_____
REPAIR & MAINTENANCE					
Implements	acre	8.18	1.0000	8.18	_____
Tractors	acre	4.30	1.0000	4.30	_____
Self-Propelled	acre	24.80	1.0000	24.80	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	11.02	1.0000	11.02	_____
TOTAL DIRECT EXPENSES				742.17	_____
FIXED EXPENSES					
Implements	acre	10.66	1.0000	10.66	_____
Tractors	acre	25.49	1.0000	25.49	_____
Self-Propelled	acre	96.67	1.0000	96.67	_____
1/4-mi. Pivot Irr.	acre	68.70	1.0000	68.70	_____
TOTAL FIXED EXPENSES				201.52	_____
TOTAL SPECIFIED EXPENSES				943.69	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	78.04	1.0000	78.04	_____
INSECTICIDES	acre	56.46	1.0000	56.46	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3752	3.39	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	15.27	0.7578	11.57	_____
UNALLOCATED LABOR	hour	15.30	0.6062	9.28	_____
DIESEL FUEL	gal	2.36	23.6549	55.79	_____
REPAIR & MAINTENANCE	acre	59.23	1.0000	59.23	_____
INTEREST ON OP. CAP.	acre	11.02	1.0000	11.02	_____

TOTAL DIRECT EXPENSES				742.17	_____
RETURNS ABOVE DIRECT EXPENSES				461.31	_____
TOTAL FIXED EXPENSES					
				201.52	_____

TOTAL SPECIFIED EXPENSES				943.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				259.79	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 10.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	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
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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				1.50	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.02	0.03	0.02
IncidentalPestTrt\$15	acre					1.5000				
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					1200.0000				
Stalk Shredder-Flail	15'	MFWD 300	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							0.75	0.42	1.33	0.60

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 10.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38	10.91
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25	4.48
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95	8.92
UAN (32%)	gal	30.38						0.62	31.00		31.00
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73	11.52
Cotton Seed B3XF	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Engenia	oz	10.62						0.19	10.81		10.81
Glyphosate 3lbs a.e	oz	3.52						0.06	3.58		3.58
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	30.38						0.44	30.82		30.82
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Engenia	oz	10.62						0.15	10.77		10.77
Glyphosate 3lbs a.e	oz	3.52						0.05	3.57		3.57
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.56	0.31	0.84			0.02	1.73	1.89	3.62
IncidentalPestTrt\$15	acre	22.50						0.26	22.76		22.76
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	132.00						0.39	132.39		132.39
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
1/4-mi. Pivot Irr.	acre		26.43	21.95	1.84			0.64	50.86	68.70	119.56
TOTALS			590.05	55.79	59.23	26.08	0.00	11.02	742.17	201.52	943.69

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 10.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	44.86	24.16	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	29.90	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	2.16	0.00	0.00	0.00	0.57	1.65	5.42	3.79	1.61	0.72	0.85	9.31
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	2.86	0.00	0.00	0.00	0.37	1.88	4.04	11.80	11.50	8.30	0.56	14.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.20	1.34	3.19	20.94	2.50	1.69	0.30	26.60
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.26	0.72	3.66	1.58	0.57	0.15	0.13	0.54
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	11.08	35.97	212.31	110.24	49.44	18.26	21.47	182.93
NET INCOME	-100.47	0.00	0.00	0.00	-11.08	-35.97	-212.31	-110.24	-49.44	-18.26	-21.47	1020.55
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-111.55	-147.52	-359.83	-470.07	-519.51	-537.77	-559.24	461.31

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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
 B3XF pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
			-----dollars-----										
PERCENT	YIELD	UNIT											
50	600.00	lb	-113 -314	-87 -289	-62 -263	-36 -237	-10 -212	14 -186	40 -161	66 -135	91 -109	117 -84	143 -58
60	720.00	lb	-49 -251	-18 -220	11 -189	42 -158	73 -128	104 -97	134 -66	165 -35	196 -5	227 25	257 56
70	840.00	lb	14 -187	49 -151	85 -115	121 -79	157 -43	193 -8	229 27	265 63	301 99	336 135	372 171
80	960.00	lb	77 -123	118 -82	159 -41	200 -0	241 40	282 81	323 122	364 163	405 204	446 245	487 286
90	1080.00	lb	141 -60	187 -14	233 32	279 78	325 124	372 170	418 216	464 262	510 308	556 355	602 401
100	1200.00	lb	204 3	256 54	307 105	358 157	410 208	461 259	512 311	563 362	615 413	666 464	717 516
110	1320.00	lb	268 67	325 123	381 179	437 236	494 292	550 349	606 405	663 461	719 518	776 574	832 631
120	1440.00	lb	332 130	393 192	455 253	516 315	578 376	639 438	701 499	762 561	824 622	885 684	947 745
130	1560.00	lb	395 194	462 261	529 327	595 394	662 461	729 527	795 594	862 660	929 727	995 794	1062 860
140	1680.00	lb	459 258	531 329	603 401	674 473	746 545	818 616	890 688	962 760	1033 832	1105 904	1177 975
150	1800.00	lb	523 321	600 398	677 475	753 552	830 629	907 706	984 783	1061 860	1138 936	1215 1013	1292 1090

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 2021 input prices.

Table 11.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.3993	6.10	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.24	0.4855	7.40	_____
DIESEL FUEL					
Tractors	gal	2.36	6.1665	14.55	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
REPAIR & MAINTENANCE					
Implements	acre	7.97	1.0000	7.97	_____
Tractors	acre	4.03	1.0000	4.03	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
INTEREST ON OP. CAP.	acre	11.61	1.0000	11.61	_____
TOTAL DIRECT EXPENSES				782.14	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	23.84	1.0000	23.84	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
TOTAL FIXED EXPENSES				123.55	_____
TOTAL SPECIFIED EXPENSES				905.69	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 11.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	86.93	1.0000	86.93	_____
INSECTICIDES	acre	85.21	1.0000	85.21	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
OPERATOR LABOR	hour	15.27	0.6069	9.27	_____
UNALLOCATED LABOR	hour	15.24	0.4855	7.40	_____
DIESEL FUEL	gal	2.36	11.0501	26.07	_____
REPAIR & MAINTENANCE	acre	35.62	1.0000	35.62	_____
INTEREST ON OP. CAP.	acre	11.61	1.0000	11.61	_____

TOTAL DIRECT EXPENSES				782.14	_____
RETURNS ABOVE DIRECT EXPENSES				421.34	_____

TOTAL FIXED EXPENSES				123.55	_____

TOTAL SPECIFIED EXPENSES				905.69	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				297.79	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 11.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2021 input prices.

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

Table 11.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	36.08						0.74	36.82	36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	36.08						0.53	36.61	36.61
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	132.00						0.39	132.39	132.39
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21
TOTALS		689.35	26.07	35.62	19.49	0.00	11.61	782.14	123.55	905.69

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 11.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	3.68	3.44	0.00	0.00	0.00	8.56
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	3.85	0.00	0.00	0.00	13.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.34	3.21	2.48	0.00	0.00	0.00	26.12
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.84	3.60	1.25	0.80	0.31	0.18	0.53
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	41.79	208.57	86.93	67.42	35.86	30.31	180.69
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-41.79	-208.57	-86.93	-67.42	-35.86	-30.31	1022.79
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-172.36	-380.93	-467.86	-535.28	-571.14	-601.45	421.34

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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, conservation tillage
 W3FE variety, Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-153 -276	-127 -251	-102 -225	-76 -199	-50 -174	-25 -148	0 -123	26 -97	51 -71	77 -46	103 -20
60	720.00	lb	-89 -213	-58 -182	-28 -151	2 -120	33 -90	64 -59	94 -28	125 2	156 32	187 63	217 94
70	840.00	lb	-25 -149	9 -113	45 -77	81 -41	117 -5	153 29	189 65	225 101	261 137	297 173	332 209
80	960.00	lb	37 -85	78 -44	119 -3	160 37	201 78	242 119	283 160	324 201	365 242	406 283	447 324
90	1080.00	lb	101 -22	147 23	193 70	239 116	285 162	332 208	378 254	424 300	470 346	516 393	562 439
100	1200.00	lb	165 41	216 92	267 143	318 195	370 246	421 297	472 349	523 400	575 451	626 502	677 554
110	1320.00	lb	228 105	285 161	341 217	397 274	454 330	510 387	567 443	623 499	679 556	736 612	792 669
120	1440.00	lb	292 168	353 230	415 291	476 353	538 414	599 476	661 537	722 599	784 660	845 722	907 783
130	1560.00	lb	355 232	422 299	489 365	555 432	622 499	689 565	755 632	822 698	889 765	955 832	1022 898
140	1680.00	lb	419 296	491 367	563 439	634 511	706 583	778 654	850 726	922 798	993 870	1065 942	1137 1013
150	1800.00	lb	483 359	560 436	637 513	713 590	790 667	867 744	944 821	1021 898	1098 974	1175 1051	1252 1128

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 2021 input prices.

Table 12.A Estimated costs per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.7500	32.20	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	7.63	1.5000	11.45	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	51.0000	10.71	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.5025	7.67	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
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	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.23	0.5052	7.70	_____
DIESEL FUEL					
Tractors	gal	2.36	7.2737	17.17	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
Roll-Out Pipe Irr.	gal	2.36	8.5535	20.19	_____
REPAIR & MAINTENANCE					
Implements	acre	8.50	1.0000	8.50	_____
Tractors	acre	4.73	1.0000	4.73	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	12.29	1.0000	12.29	_____
TOTAL DIRECT EXPENSES				871.04	_____
FIXED EXPENSES					
Implements	acre	12.73	1.0000	12.73	_____
Tractors	acre	27.99	1.0000	27.99	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
Roll-Out Pipe Irr.	acre	49.28	1.0000	49.28	_____
TOTAL FIXED EXPENSES				179.17	_____
TOTAL SPECIFIED EXPENSES				1050.21	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 12.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1500.0000	1281.60	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1504.35	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	49.70	1.0000	49.70	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	86.93	1.0000	86.93	_____
INSECTICIDES	acre	92.71	1.0000	92.71	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.71	1.0000	10.71	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	15.27	0.7101	10.84	_____
UNALLOCATED LABOR	hour	15.23	0.5052	7.70	_____
DIESEL FUEL	gal	2.36	20.7109	48.88	_____
REPAIR & MAINTENANCE	acre	44.01	1.0000	44.01	_____
INTEREST ON OP. CAP.	acre	12.29	1.0000	12.29	_____

TOTAL DIRECT EXPENSES				871.04	_____
RETURNS ABOVE DIRECT EXPENSES				633.31	_____
TOTAL FIXED EXPENSES				179.17	_____

TOTAL SPECIFIED EXPENSES				1050.21	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				454.14	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 12.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	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	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					19.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	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							0.71	0.50	1.38	0.50

Note: Cost of production estimates are based on 2021 input prices.

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

Table 12.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conserv. tillage, furrow irr.
 W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		1.80	1.13	1.35			0.15	4.43	4.51
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	36.08						0.74	36.82	36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	36.08						0.53	36.61	36.61
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.05	4.02	3.20
Enlist Duo	pt	12.22						0.14	12.36	12.36
Dual Magnum	pt	10.02						0.12	10.14	10.14
Centric 40WG	oz	9.94						0.12	10.06	10.06
Mepiquat Chloride	oz	3.99						0.05	4.04	4.04
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	8.40						0.10	8.50	8.50
IncidentalPestTrt\$15	acre	22.50						0.26	22.76	22.76
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	165.00						0.48	165.48	165.48
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	14.64
Roll-Out Pipe Irr.	acre	7.92	21.91	7.83	4.50			0.51	42.67	53.36
TOTALS		741.20	48.88	44.01	24.66	0.00	12.29	871.04	179.17	1050.21

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 12.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conserv. tillage, furrow irr.
W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

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	1504.35
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	21.00	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	42.94	0.00	22.24	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	4.29	59.14	24.35	0.00	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	0.00	10.71	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	39.29	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	2.83	0.00	0.00	0.00	0.00	1.65	3.91	4.62	1.65	0.23	0.63	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.76	0.00	0.00	0.00	0.00	1.88	4.00	9.41	8.35	6.73	0.39	14.36
REPAIR & MAINTENANCE	3.03	0.00	0.00	0.00	0.00	1.34	3.21	6.09	2.33	1.40	0.17	26.44
INTEREST ON OP. CAP.	3.48	0.00	0.00	0.00	0.69	0.84	3.60	1.00	1.48	0.38	0.19	0.63
TOTAL DIRECT EXPENSES	102.67	0.00	0.00	0.00	30.10	41.79	208.80	69.41	126.90	44.29	31.51	215.57
NET INCOME	-102.67	0.00	0.00	0.00	-30.10	-41.79	-208.80	-69.41	-126.90	-44.29	-31.51	1288.78
NET INCOME TO DATE	-102.67	-102.67	-102.67	-102.67	-132.77	-174.56	-383.36	-452.77	-579.67	-623.96	-655.47	633.31

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd 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, conserv. tillage, furrow irr.
 W3FE variety, 10.5 ac-in., Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-84 -264	-52 -232	-20 -200	11 -168	43 -135	75 -103	107 -71	139 -39	171 -7	203 24	235 56
60	900.00	lb	-5 -184	33 -146	71 -107	109 -69	148 -30	186 7	225 46	263 84	302 123	340 161	379 199
70	1050.00	lb	74 -104	119 -60	163 -15	208 29	253 74	298 119	343 164	388 209	433 253	477 298	522 343
80	1200.00	lb	153 -25	205 25	256 77	307 128	358 179	410 230	461 282	512 333	563 384	615 435	666 487
90	1350.00	lb	233 54	291 111	348 169	406 227	464 284	521 342	579 400	637 457	694 515	752 573	810 630
100	1500.00	lb	312 133	376 197	441 261	505 325	569 390	633 454	697 518	761 582	825 646	889 710	953 774
110	1650.00	lb	392 213	462 283	533 354	603 424	674 495	744 565	815 636	885 706	956 777	1026 847	1097 918
120	1800.00	lb	472 292	548 369	625 446	702 523	779 600	856 677	933 754	1010 831	1087 908	1164 984	1241 1061
130	1950.00	lb	551 372	634 455	718 539	801 622	884 705	968 788	1051 872	1134 955	1218 1038	1301 1122	1384 1205
140	2100.00	lb	631 452	720 541	810 631	900 721	990 810	1079 900	1169 990	1259 1080	1348 1169	1438 1259	1528 1349
150	2250.00	lb	710 531	806 627	903 723	999 819	1095 916	1191 1012	1287 1108	1383 1204	1479 1300	1575 1396	1671 1492

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 2021 input prices.

Table 13.A Estimated costs per acre
Cotton, 12R-38" solid, cons. tillage, pivot irr.
W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.7500	32.20	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	34.3582	72.15	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.3993	6.10	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
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	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.24	0.4855	7.40	_____
DIESEL FUEL					
Tractors	gal	2.36	6.1665	14.55	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
1/4-mi. Pivot Irr.	gal	2.36	11.2011	26.43	_____
REPAIR & MAINTENANCE					
Implements	acre	7.97	1.0000	7.97	_____
Tractors	acre	4.03	1.0000	4.03	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	12.45	1.0000	12.45	_____
TOTAL DIRECT EXPENSES				876.50	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	23.84	1.0000	23.84	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
1/4-mi. Pivot Irr.	acre	68.70	1.0000	68.70	_____
TOTAL FIXED EXPENSES				192.25	_____
TOTAL SPECIFIED EXPENSES				1068.75	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 13.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1500.0000	1281.60	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1504.35	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	49.70	1.0000	49.70	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	111.61	1.0000	111.61	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	86.93	1.0000	86.93	_____
INSECTICIDES	acre	92.71	1.0000	92.71	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3135	2.82	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	15.27	0.6069	9.27	_____
UNALLOCATED LABOR	hour	15.24	0.4855	7.40	_____
DIESEL FUEL	gal	2.36	22.2512	52.50	_____
REPAIR & MAINTENANCE	acre	57.57	1.0000	57.57	_____
INTEREST ON OP. CAP.	acre	12.45	1.0000	12.45	_____

TOTAL DIRECT EXPENSES				876.50	_____
RETURNS ABOVE DIRECT EXPENSES				627.85	_____
TOTAL FIXED EXPENSES					
				192.25	_____

TOTAL SPECIFIED EXPENSES				1068.75	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				435.60	_____

Note: Cost of production estimates are based on 2021 input prices.

Table 13.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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% K20)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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				Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	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							0.60	0.39	1.12	0.48

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 13.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	36.08						0.74	36.82	36.82
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	36.08						0.53	36.61	36.61
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	8.40						0.10	8.50	8.50
IncidentalPestTrt\$15	acre	22.50						0.26	22.76	22.76
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	165.00						0.48	165.48	165.48
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21
1/4-mi. Pivot Irr.	acre		26.43	21.95	1.84			0.64	50.86	68.70
TOTALS		732.65	52.50	57.57	21.33	0.00	12.45	876.50	192.25	1068.75

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 13.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

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	1504.35
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	21.00	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	36.08	0.00	36.08	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	21.75	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	49.20	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	5.02	3.59	0.20	0.15	0.00	8.56
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	11.78	10.57	7.93	0.00	13.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.34	3.21	20.95	1.99	1.49	0.00	26.12
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.84	3.62	1.64	1.06	0.39	0.18	0.62
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	41.79	209.93	113.87	90.74	45.51	30.31	213.78
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-41.79	-209.93	-113.87	-90.74	-45.51	-30.31	1290.57
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-172.36	-382.29	-496.16	-586.90	-632.41	-662.72	627.85

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.
 W3FE variety, 7.5 ac.-in., Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-90 -282	-58 -250	-26 -218	5 -186	37 -154	69 -122	101 -90	133 -58	165 -26	197 5	229 37
60	900.00	lb	-10 -203	27 -164	66 -126	104 -87	142 -49	181 -10	219 27	258 66	296 104	335 142	373 181
70	1050.00	lb	68 -123	113 -78	158 -33	203 11	248 55	293 100	337 145	382 190	427 235	472 280	517 325
80	1200.00	lb	148 -43	199 7	250 58	302 109	353 161	404 212	455 263	507 314	558 366	609 417	660 468
90	1350.00	lb	227 35	285 93	343 150	400 208	458 266	516 323	573 381	631 439	689 497	746 554	804 612
100	1500.00	lb	307 115	371 179	435 243	499 307	563 371	627 435	691 499	756 563	820 627	884 691	948 756
110	1650.00	lb	387 194	457 265	527 335	598 406	668 476	739 547	809 617	880 688	950 758	1021 829	1091 899
120	1800.00	lb	466 274	543 351	620 428	697 505	774 581	851 658	927 735	1004 812	1081 889	1158 966	1235 1043
130	1950.00	lb	546 353	629 437	712 520	796 603	879 687	962 770	1045 853	1129 937	1212 1020	1295 1103	1379 1186
140	2100.00	lb	625 433	715 523	805 612	894 702	984 792	1074 882	1164 971	1253 1061	1343 1151	1433 1240	1522 1330
150	2250.00	lb	705 513	801 609	897 705	993 801	1089 897	1185 993	1282 1089	1378 1185	1474 1282	1570 1378	1666 1474

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 2021 input prices.

Table 14.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	25.4000	53.34	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	48.0000	10.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.2712	4.14	_____
Self-Propelled	hour	15.27	0.2075	3.17	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	15.21	0.3830	5.83	_____
DIESEL FUEL					
Tractors	gal	2.36	4.1890	9.88	_____
Self-Propelled	gal	2.36	4.8836	11.52	_____
REPAIR & MAINTENANCE					
Implements	acre	5.78	1.0000	5.78	_____
Tractors	acre	2.74	1.0000	2.74	_____
Self-Propelled	acre	23.62	1.0000	23.62	_____
INTEREST ON OP. CAP.	acre	10.76	1.0000	10.76	_____
TOTAL DIRECT EXPENSES				750.58	_____
FIXED EXPENSES					
Implements	acre	7.27	1.0000	7.27	_____
Tractors	acre	16.20	1.0000	16.20	_____
Self-Propelled	acre	89.17	1.0000	89.17	_____
TOTAL FIXED EXPENSES				112.64	_____
TOTAL SPECIFIED EXPENSES				863.22	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 14.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	92.79	1.0000	92.79	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	86.93	1.0000	86.93	_____
INSECTICIDES	acre	85.21	1.0000	85.21	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	10.08	1.0000	10.08	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.2897	2.61	_____
OPERATOR LABOR	hour	15.27	0.4788	7.31	_____
UNALLOCATED LABOR	hour	15.21	0.3830	5.83	_____
DIESEL FUEL	gal	2.36	9.0726	21.40	_____
REPAIR & MAINTENANCE	acre	32.14	1.0000	32.14	_____
INTEREST ON OP. CAP.	acre	10.76	1.0000	10.76	_____

TOTAL DIRECT EXPENSES				750.58	_____
RETURNS ABOVE DIRECT EXPENSES				452.90	_____

TOTAL FIXED EXPENSES				112.64	_____

TOTAL SPECIFIED EXPENSES				863.22	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				340.26	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 14.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2022

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					1.5000				
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 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 14.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
App by Air (5 gal)	appl	7.00						0.16	7.16		7.16
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Select Max	pt	12.73						0.30	13.03		13.03
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
NT Plant-Folding	12R-38		1.88	2.39	1.89			0.11	6.27	6.40	12.67
Cotton Seed W3FE	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28	2.23
Enlist Duo	pt	12.22						0.21	12.43		12.43
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.01	0.94	1.28	2.22
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	53.34						0.78	54.12		54.12
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Enlist Duo	pt	12.22						0.18	12.40		12.40
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Diamond .83EC	oz	7.68						0.09	7.77		7.77
Imidacloprid 4F	oz	1.56						0.02	1.58		1.58
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
Acephate 90%	lb	7.40						0.09	7.49		7.49
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Bifenthrin	oz	5.50						0.06	5.56		5.56
App by Air (3 gal)	appl	1.40						0.02	1.42		1.42
Lambda	oz	1.88						0.02	1.90		1.90
Bidrin 8EC	oz	2.68						0.03	2.71		2.71
Incidental Pest											
App by Air (3 gal)	appl	5.60						0.07	5.67		5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Acephate 90%	lb	7.40						0.06	7.46		7.46
Bifenthrin	oz	5.50						0.05	5.55		5.55
App by Air (3 gal)	appl	5.60						0.05	5.65		5.65
Transform WG	oz	11.45						0.10	11.55		11.55
App by Air (5 gal)	appl	7.00						0.04	7.04		7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
App by Air (5 gal)	appl	3.50						0.02	3.52		3.52
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	132.00						0.39	132.39		132.39
Stalk Shredder-Flail	20'		3.01	3.13	2.27			0.02	8.43	6.21	14.64
TOTALS		670.53	21.40	32.14	15.75	0.00	10.76	750.58	112.64	863.22	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 14.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	53.34	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	21.75	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	6.72	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	39.29	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	3.75	3.44	0.00	0.00	0.00	8.56
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	4.07	3.85	0.00	0.00	0.00	13.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.54	2.48	0.00	0.00	0.00	26.12
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.69	0.00	3.61	1.50	0.80	0.31	0.18	0.53
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	30.10	0.00	209.05	104.44	67.42	35.86	30.31	180.69
NET INCOME	-92.71	0.00	0.00	0.00	-30.10	0.00	-209.05	-104.44	-67.42	-35.86	-30.31	1022.79
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-122.81	-122.81	-331.86	-436.30	-503.72	-539.58	-569.89	452.90

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-121 -234	-96 -208	-70 -183	-44 -157	-19 -131	6 -106	32 -80	57 -54	83 -29	108 -3	134 21
60	720.00	lb	-58 -170	-27 -139	3 -109	34 -78	64 -47	95 -16	126 13	157 44	188 75	218 106	249 136
70	840.00	lb	5 -107	41 -71	77 -35	113 0	149 36	185 72	220 108	256 144	292 180	328 215	364 251
80	960.00	lb	69 -43	110 -2	151 38	192 79	233 120	274 161	315 202	356 243	397 284	438 325	479 366
90	1080.00	lb	132 20	179 66	225 112	271 158	317 204	363 250	409 297	455 343	502 389	548 435	594 481
100	1200.00	lb	196 83	247 135	299 186	350 237	401 288	452 340	504 391	555 442	606 494	657 545	709 596
110	1320.00	lb	260 147	316 203	373 260	429 316	485 373	542 429	598 485	654 542	711 598	767 655	824 711
120	1440.00	lb	323 211	385 272	446 334	508 395	569 457	631 518	692 580	754 641	816 703	877 764	939 826
130	1560.00	lb	387 274	454 341	520 408	587 474	654 541	720 608	787 674	854 741	920 808	987 874	1053 941
140	1680.00	lb	451 338	522 410	594 482	666 553	738 625	810 697	881 769	953 840	1025 912	1097 984	1168 1056
150	1800.00	lb	514 402	591 479	668 556	745 632	822 709	899 786	976 863	1053 940	1130 1017	1206 1094	1283 1171

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 2021 input prices.

Table 15.A Estimated costs per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.00	2.5000	17.50	_____
App by Air (3 gal)	appl	5.60	5.2500	29.40	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	32.5498	68.35	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Select Max	pt	12.73	1.0000	12.73	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	5.2000	6.97	_____
Centric 40WG	oz	4.97	1.3400	6.66	_____
Diamond .83EC	oz	1.28	6.0000	7.68	_____
Imidacloprid 4F	oz	0.78	2.0000	1.56	_____
Bifenthrin	oz	0.86	12.8000	11.01	_____
Lambda	oz	1.88	1.0000	1.88	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	7.63	1.5000	11.45	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	30.0000	77.70	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	42.7200	8.97	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.8159	12.46	_____
Self-Propelled	hour	15.27	0.1958	2.99	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR	hour	15.23	0.8094	12.33	_____
DIESEL FUEL					
Tractors	gal	2.36	12.6003	29.73	_____
Self-Propelled	gal	2.36	3.4035	8.03	_____
REPAIR & MAINTENANCE					
Implements	acre	11.56	1.0000	11.56	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	10.03	1.0000	10.03	_____
INTEREST ON OP. CAP.	acre	10.65	1.0000	10.65	_____
TOTAL DIRECT EXPENSES				703.46	_____
FIXED EXPENSES					
Implements	acre	16.58	1.0000	16.58	_____
Tractors	acre	48.73	1.0000	48.73	_____
Self-Propelled	acre	38.23	1.0000	38.23	_____
TOTAL FIXED EXPENSES				103.54	_____
TOTAL SPECIFIED EXPENSES				807.00	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 15.B Summary of estimated costs and returns per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	811.0000	692.92	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				813.37	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	46.90	1.0000	46.90	_____
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	107.81	1.0000	107.81	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	86.93	1.0000	86.93	_____
INSECTICIDES	acre	81.93	1.0000	81.93	_____
SEED/PLANTS	acre	77.70	1.0000	77.70	_____
GROWTH REGULATORS	acre	8.97	1.0000	8.97	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5022	4.53	_____
OPERATOR LABOR	hour	15.27	1.0118	15.45	_____
UNALLOCATED LABOR	hour	15.23	0.8094	12.33	_____
DIESEL FUEL	gal	2.36	16.0039	37.76	_____
REPAIR & MAINTENANCE	acre	29.82	1.0000	29.82	_____
INTEREST ON OP. CAP.	acre	10.65	1.0000	10.65	_____

TOTAL DIRECT EXPENSES				703.46	_____
RETURNS ABOVE DIRECT EXPENSES				109.91	_____

TOTAL FIXED EXPENSES				103.54	_____

TOTAL SPECIFIED EXPENSES				807.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				6.37	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 15.C Estimated resource use for field operations, per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

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-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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				
Transform WG	oz					1.5000				
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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2021 input prices.

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

Table 15.D Estimated costs for field operations, per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	8R-38 2x1		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	8R-38 2x1		0.90	0.57	0.68			0.08	2.23	2.25
App by Air (5 gal)	appl	7.00						0.16	7.16	7.16
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Select Max	pt	12.73						0.30	13.03	13.03
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	8R-38 2x1		1.88	1.39	1.65			0.10	5.02	4.00
UAN (32%)	gal	34.18						0.70	34.88	34.88
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	8R-38 2x1		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	77.70						1.36	79.06	79.06
Cotton Seed Trt.	acre	13.40						0.23	13.63	13.63
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-825gal	90' 250hp		0.35	0.21	0.37			0.02	0.95	1.28
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Spray (Direct/Layby)	8R-38 2x1		1.62	0.93	1.42			0.06	4.03	3.20
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	8R-38 2x1		1.88	1.39	1.65			0.07	4.99	4.00
UAN (32%)	gal	34.18						0.50	34.68	34.68
Spray (Direct/Layby)	8R-38 2x1		1.62	0.93	1.42			0.06	4.03	3.20
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	6.66						0.10	6.76	6.76
Mepiquat Chloride	oz	2.25						0.03	2.28	2.28
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Diamond .83EC	oz	7.68						0.09	7.77	7.77
Imidacloprid 4F	oz	1.56						0.02	1.58	1.58
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
Acephate 90%	lb	7.40						0.09	7.49	7.49
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Bifenthrin	oz	5.50						0.06	5.56	5.56
App by Air (3 gal)	appl	1.40						0.02	1.42	1.42
Lambda	oz	1.88						0.02	1.90	1.90
Bidrin 8EC	oz	2.68						0.03	2.71	2.71
Incidental Pest										
App by Air (3 gal)	appl	5.60						0.07	5.67	5.67
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Acephate 90%	lb	7.40						0.06	7.46	7.46
Bifenthrin	oz	5.50						0.05	5.55	5.55
App by Air (3 gal)	appl	5.60						0.05	5.65	5.65
Transform WG	oz	11.45						0.10	11.55	11.55
App by Air (5 gal)	appl	7.00						0.04	7.04	7.04
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
App by Air (5 gal)	appl	3.50						0.02	3.52	3.52
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Cotton Picker	4R2x1(350)		7.33	9.61	6.29			0.07	23.30	35.67
Boll Buggy	4R2x1(350)		6.28	3.05	4.73			0.04	14.10	12.76
Module Builder	4R2x1(350)		6.28	3.23	6.29			0.05	15.85	13.10
Gin & Haul	lb	89.21						0.26	89.47	89.47
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
TOTALS		592.92	37.76	29.82	32.31	0.00	10.65	703.46	103.54	807.00

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 15.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

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	813.37
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	18.20	11.20	10.50	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	34.18	0.00	34.18	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	21.75	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	10.95	41.70	24.35	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	77.70	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	6.72	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	39.29	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	2.16	0.00	0.00	0.00	0.00	1.65	3.68	4.49	0.00	0.00	0.00	20.33
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	2.86	0.00	0.00	0.00	0.00	1.88	4.00	5.12	0.00	0.00	0.00	23.90
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.00	1.39	3.21	3.25	0.00	0.00	0.00	19.50
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.69	0.80	2.80	1.21	0.80	0.31	0.18	0.45
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	30.10	39.90	162.32	83.69	67.42	35.86	30.31	153.39
NET INCOME	-100.47	0.00	0.00	0.00	-30.10	-39.90	-162.32	-83.69	-67.42	-35.86	-30.31	659.98
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-130.57	-170.47	-332.79	-416.48	-483.90	-519.76	-550.07	109.91

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta Area, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-278 -381	-261 -364	-243 -347	-226 -330	-209 -312	-191 -295	-174 -278	-157 -260	-139 -243	-122 -226	-105 -208
60	486.60	lb	-235 -338	-214 -318	-193 -297	-173 -276	-152 -255	-131 -235	-110 -214	-89 -193	-69 -172	-48 -151	-27 -131
70	567.70	lb	-192 -295	-168 -271	-143 -247	-119 -223	-95 -198	-71 -174	-46 -150	-22 -126	1 -101	25 -77	50 -53
80	648.80	lb	-149 -252	-121 -225	-93 -197	-66 -169	-38 -142	-10 -114	16 -86	44 -58	72 -31	100 -3	127 24
90	729.90	lb	-106 -209	-75 -178	-43 -147	-12 -116	18 -85	49 -53	80 -22	111 8	143 39	174 70	205 101
100	811.00	lb	-63 -166	-28 -132	5 -97	40 -62	75 -28	109 6	144 41	179 75	213 110	248 144	283 179
110	892.10	lb	-20 -123	17 -85	55 -47	94 -9	132 28	170 66	208 104	246 142	284 181	322 219	360 257
120	973.20	lb	22 -80	64 -39	105 2	147 43	189 85	230 127	272 168	313 210	355 251	396 293	438 334
130	1054.30	lb	65 -37	110 7	155 52	200 97	245 142	290 187	335 232	381 277	426 322	471 367	516 412
140	1135.40	lb	108 5	157 53	205 102	254 150	302 199	351 247	399 296	448 344	496 393	545 441	593 490
150	1216.50	lb	151 48	203 100	255 152	307 204	359 256	411 308	463 360	515 412	567 464	619 515	671 567

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 2021 input prices.

Table 16.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.9288	14.19	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR	hour	15.29	1.0008	15.31	_____
DIESEL FUEL					
Tractors	gal	2.36	14.3433	33.86	_____
Self-Propelled	gal	2.36	4.4973	10.58	_____
REPAIR & MAINTENANCE					
Implements	acre	11.57	1.0000	11.57	_____
Tractors	acre	9.40	1.0000	9.40	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	10.47	1.0000	10.47	_____
TOTAL DIRECT EXPENSES				686.71	_____
FIXED EXPENSES					
Implements	acre	16.28	1.0000	16.28	_____
Tractors	acre	55.45	1.0000	55.45	_____
Self-Propelled	acre	57.17	1.0000	57.17	_____
TOTAL FIXED EXPENSES				128.90	_____
TOTAL SPECIFIED EXPENSES				815.61	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 16.B Summary of estimated costs and returns per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1000.0000	854.40	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				1002.90	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	74.20	1.0000	74.20	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.6051	5.48	_____
OPERATOR LABOR	hour	15.27	1.2510	19.11	_____
UNALLOCATED LABOR	hour	15.29	1.0008	15.31	_____
DIESEL FUEL	gal	2.36	18.8406	44.44	_____
REPAIR & MAINTENANCE	acre	35.19	1.0000	35.19	_____
INTEREST ON OP. CAP.	acre	10.47	1.0000	10.47	_____

TOTAL DIRECT EXPENSES				686.71	_____
RETURNS ABOVE DIRECT EXPENSES				316.19	_____

TOTAL FIXED EXPENSES				128.90	_____

TOTAL SPECIFIED EXPENSES				815.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				187.29	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 16.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	8R-38	MFWD 300	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 300	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 300	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 300	0.074	1.00	May		0.07	0.07	0.14	0.05
Cotton Seed W3FE	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					
Eradication	acre					1.0000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	May			0.01	0.02	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38	MFWD 300	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38 (355)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.25	0.92	1.85	1.00

Note: Cost of production estimates are based on 2021 input prices.

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

Table 16.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	8R-38		2.94	2.25	2.22			0.26	7.67	7.11
Bed/Disk (Hipper)Rd	8R-38		1.35	0.59	1.02			0.10	3.06	2.73
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.15	7.43	5.86
UAN (32%)	gal	30.38						0.62	31.00	31.00
Row Cond Rigid	26'		2.18	0.88	1.64			0.08	4.78	4.66
Plant - Folding	8R-38		2.72	2.27	2.73			0.14	7.86	7.14
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.11	7.39	5.86
UAN (32%)	gal	30.38						0.44	30.82	30.82
Spray (Direct/Layby)	8R-38		2.44	1.17	2.14			0.08	5.83	4.53
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Acephate 90%	lb	7.40						0.09	7.49	7.49
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Acephate 90%	lb	7.40						0.06	7.46	7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker	6R-38(355)		7.43	12.52	6.29			0.08	26.32	46.46
Boll Buggy	6R-38(355)		6.28	3.05	4.73			0.04	14.10	12.76
Module Builder	6R-38(355)		6.28	3.23	6.29			0.05	15.85	13.10
Gin & Haul	lb	110.00						0.32	110.32	110.32
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
TOTALS		556.71	44.44	35.19	39.90	0.00	10.47	686.71	128.90	815.61

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 16.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

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	1002.90
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	3.24	0.00	0.00	0.00	0.57	2.49	5.51	5.20	1.14	0.57	0.85	20.33
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.29	0.00	0.00	0.00	0.37	2.83	5.64	5.64	0.74	0.37	0.56	24.00
REPAIR & MAINTENANCE	2.84	0.00	0.00	0.00	0.20	1.96	3.55	3.33	0.40	0.20	0.30	22.41
INTEREST ON OP. CAP.	3.50	0.00	0.00	0.00	0.26	0.77	3.66	1.23	0.33	0.07	0.13	0.52
TOTAL DIRECT EXPENSES	103.44	0.00	0.00	0.00	11.08	38.43	212.44	85.61	28.37	8.61	21.47	177.26
NET INCOME	-103.44	0.00	0.00	0.00	-11.08	-38.43	-212.44	-85.61	-28.37	-8.61	-21.47	825.64
NET INCOME TO DATE	-103.44	-103.44	-103.44	-103.44	-114.52	-152.95	-365.39	-451.00	-479.37	-487.98	-509.45	316.19

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-162 -291	-141 -270	-119 -248	-98 -227	-77 -206	-55 -184	-34 -163	-13 -142	8 -120	29 -99	50 -77
60	600.00	lb	-109 -238	-83 -212	-58 -187	-32 -161	-7 -135	18 -110	44 -84	69 -59	95 -33	121 -7	146 17
70	700.00	lb	-56 -185	-26 -155	3 -125	33 -95	63 -65	92 -35	122 -6	152 23	182 53	212 83	242 113
80	800.00	lb	-3 -132	30 -98	64 -64	99 -29	133 4	167 38	201 72	235 106	269 141	304 175	338 209
90	900.00	lb	49 -79	87 -40	126 -2	164 35	203 74	241 112	280 151	318 189	357 228	395 266	434 305
100	1000.00	lb	102 -26	145 16	188 59	230 101	273 144	316 187	358 230	401 272	444 315	487 358	529 400
110	1100.00	lb	155 26	202 73	249 120	296 167	343 214	390 261	437 308	484 355	531 402	578 449	625 496
120	1200.00	lb	208 79	259 131	311 182	362 233	413 284	465 336	516 387	567 438	618 489	670 541	721 592
130	1300.00	lb	261 132	317 188	372 243	428 299	483 354	539 410	594 466	650 521	706 577	761 632	817 688
140	1400.00	lb	314 185	374 245	434 305	494 365	554 425	613 484	673 544	733 604	793 664	853 724	912 783
150	1500.00	lb	367 238	431 303	495 367	560 431	624 495	688 559	752 623	816 687	880 751	944 815	1008 879

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 2021 input prices.

Table 17.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	18.4000	38.64	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.7365	11.25	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
	hour	15.30	0.8469	12.96	_____
DIESEL FUEL					
Tractors	gal	2.36	11.3731	26.85	_____
Self-Propelled	gal	2.36	4.4973	10.58	_____
REPAIR & MAINTENANCE					
Implements	acre	9.06	1.0000	9.06	_____
Tractors	acre	7.45	1.0000	7.45	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	9.43	1.0000	9.43	_____
TOTAL DIRECT EXPENSES				635.46	_____
FIXED EXPENSES					
Implements	acre	12.77	1.0000	12.77	_____
Tractors	acre	43.97	1.0000	43.97	_____
Self-Propelled	acre	57.17	1.0000	57.17	_____
TOTAL FIXED EXPENSES				113.91	_____
TOTAL SPECIFIED EXPENSES				749.37	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 17.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	900.0000	768.96	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				902.61	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	78.09	1.0000	78.09	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	74.20	1.0000	74.20	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5694	5.15	_____
OPERATOR LABOR	hour	15.27	1.0586	16.17	_____
UNALLOCATED LABOR	hour	15.30	0.8469	12.96	_____
DIESEL FUEL	gal	2.36	15.8705	37.43	_____
REPAIR & MAINTENANCE	acre	30.73	1.0000	30.73	_____
INTEREST ON OP. CAP.	acre	9.43	1.0000	9.43	_____

TOTAL DIRECT EXPENSES				635.46	_____
RETURNS ABOVE DIRECT EXPENSES				267.15	_____
TOTAL FIXED EXPENSES					
				113.91	_____

TOTAL SPECIFIED EXPENSES				749.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				153.24	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 17.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

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					1.5000				
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 300	0.059	1.00	May		0.05	0.05	0.05	0.04
NT Plant-Folding	8R-38	MFWD 300	0.077	1.00	May		0.07	0.07	0.15	0.06
Cotton Seed W3FE	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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38	MFWD 300	0.077	1.00	Jun		0.07	0.07	0.11	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	6R-38(355)	MFWD 300	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.05	0.73	1.62	0.84

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 17.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Rigid	26'		2.18	0.88	1.64			0.08	4.78	4.66	9.44
NT Plant-Folding	8R-38		2.83	2.61	2.84			0.14	8.42	7.85	16.27
Cotton Seed W3FE	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Enlist Duo	pt	12.22						0.21	12.43		12.43
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	8R-38		2.83	1.96	2.49			0.11	7.39	5.86	13.25
UAN (32%)	gal	38.64						0.56	39.20		39.20
Spray (Direct/Layby)	8R-38		2.44	1.17	2.14			0.08	5.83	4.53	10.36
Enlist Duo	pt	12.22						0.18	12.40		12.40
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker	6R-38(355)		7.43	12.52	6.29			0.08	26.32	46.46	72.78
Boll Buggy	6R-38(355)		6.28	3.05	4.73			0.04	14.10	12.76	26.86
Module Builder	6R-38(355)		6.28	3.23	6.29			0.05	15.85	13.10	28.95
Gin & Haul	lb	99.00						0.29	99.29		99.29
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
TOTALS		523.59	37.43	30.73	34.28	0.00	9.43	635.46	113.91	749.37	

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 17.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

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	902.61
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	38.64	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	0.57	0.00	5.62	5.20	1.14	0.57	0.85	20.33
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	0.37	0.00	5.75	5.64	0.74	0.37	0.56	24.00
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.89	3.33	0.40	0.20	0.30	22.41
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.26	0.00	3.66	1.35	0.33	0.07	0.13	0.49
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	11.08	0.00	213.00	93.99	28.37	8.61	21.47	166.23
NET INCOME	-92.71	0.00	0.00	0.00	-11.08	0.00	-213.00	-93.99	-28.37	-8.61	-21.47	736.38
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-103.79	-103.79	-316.79	-410.78	-439.15	-447.76	-469.23	267.15

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06			
PERCENT	YIELD	UNIT	dollars											
50	450.00	lb	-163 -277	-144 -258	-125 -239	-106 -220	-86 -200	-67 -181	-48 -162	-29 -143	-10 -123	9 -104	28 -85	
60	540.00	lb	-116 -229	-92 -206	-69 -183	-46 -160	-23 -137	-0 -114	22 -91	45 -68	68 -45	91 -22	114 0	
70	630.00	lb	-68 -182	-41 -155	-14 -128	12 -101	39 -74	66 -47	93 -20	120 6	146 33	173 59	200 86	
80	720.00	lb	-20 -134	10 -103	40 -72	71 -42	102 -11	133 19	163 50	194 80	225 111	256 142	287 173	
90	810.00	lb	27 -86	61 -52	96 -17	130 17	165 51	200 86	234 120	269 155	303 190	338 224	373 259	
100	900.00	lb	74 -39	113 -0	151 37	190 76	228 114	267 153	305 191	344 230	382 268	420 307	459 345	
110	990.00	lb	122 8	164 51	207 93	249 135	291 177	334 220	376 262	418 304	460 347	503 389	545 431	
120	1080.00	lb	170 56	216 102	262 148	308 194	354 241	401 287	447 333	493 379	539 425	585 471	631 517	
130	1170.00	lb	218 104	268 154	318 204	368 254	418 304	468 354	518 404	568 454	617 504	667 554	717 604	
140	1260.00	lb	265 151	319 205	373 259	427 313	481 367	535 421	588 474	642 528	696 582	750 636	804 690	
150	1350.00	lb	313 199	371 257	428 315	486 372	544 430	601 488	659 545	717 603	775 661	832 718	890 776	

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 2021 input prices.

Table 18.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.4268	6.52	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
hour	hour	15.32	0.5992	9.18	_____
DIESEL FUEL					
Tractors	gal	2.36	6.5911	15.55	_____
Self-Propelled	gal	2.36	5.7832	13.62	_____
REPAIR & MAINTENANCE					
Implements	acre	8.18	1.0000	8.18	_____
Tractors	acre	4.30	1.0000	4.30	_____
Self-Propelled	acre	24.69	1.0000	24.69	_____
INTEREST ON OP. CAP.	acre	10.16	1.0000	10.16	_____
TOTAL DIRECT EXPENSES				657.18	_____
FIXED EXPENSES					
Implements	acre	10.66	1.0000	10.66	_____
Tractors	acre	25.49	1.0000	25.49	_____
Self-Propelled	acre	96.04	1.0000	96.04	_____
TOTAL FIXED EXPENSES				132.19	_____
TOTAL SPECIFIED EXPENSES				789.37	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 18.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1000.0000	854.40	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				1002.90	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	74.20	1.0000	74.20	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3708	3.35	_____
OPERATOR LABOR	hour	15.27	0.7490	11.44	_____
UNALLOCATED LABOR	hour	15.32	0.5992	9.18	_____
DIESEL FUEL	gal	2.36	12.3744	29.17	_____
REPAIR & MAINTENANCE	acre	37.17	1.0000	37.17	_____
INTEREST ON OP. CAP.	acre	10.16	1.0000	10.16	_____

TOTAL DIRECT EXPENSES				657.18	_____
RETURNS ABOVE DIRECT EXPENSES				345.72	_____

TOTAL FIXED EXPENSES				132.19	_____

TOTAL SPECIFIED EXPENSES				789.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				213.53	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.74	0.42	1.11	0.59

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 18.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	30.38						0.62	31.00	31.00
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	30.38						0.44	30.82	30.82
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Acephate 90%	lb	7.40						0.09	7.49	7.49
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
IncidentalPestTrt\$15	acre	15.00						0.18	15.18	15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Acephate 90%	lb	7.40						0.06	7.46	7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	110.00						0.32	110.32	110.32
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
TOTALS			556.71	29.17	37.17	23.97	0.00	10.16	657.18	132.19

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 18.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

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	1002.90
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	2.16	0.00	0.00	0.00	0.57	1.65	4.08	3.64	1.14	0.57	0.85	9.31
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	2.86	0.00	0.00	0.00	0.37	1.88	4.04	3.87	0.74	0.37	0.56	14.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.20	1.34	3.19	2.47	0.40	0.20	0.30	26.60
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.26	0.72	3.60	1.17	0.33	0.07	0.13	0.47
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	11.08	35.97	208.99	81.36	28.37	8.61	21.47	160.86
NET INCOME	-100.47	0.00	0.00	0.00	-11.08	-35.97	-208.99	-81.36	-28.37	-8.61	-21.47	842.04
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-111.55	-147.52	-356.51	-437.87	-466.24	-474.85	-496.32	345.72

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT			dollars										
YIELD	UNIT												
50	500.00	lb	-133 -265	-111 -243	-90 -222	-69 -201	-47 -179	-26 -158	-4 -137	16 -115	37 -94	59 -73	80 -51
60	600.00	lb	-80 -212	-54 -186	-28 -160	-3 -135	22 -109	48 -84	73 -58	99 -32	124 -7	150 18	176 44
70	700.00	lb	-27 -159	2 -129	32 -99	62 -69	92 -39	122 -9	152 20	182 50	212 80	242 109	272 139
80	800.00	lb	26 -106	60 -71	94 -37	128 -3	162 30	196 64	231 98	265 133	299 167	333 201	367 235
90	900.00	lb	79 -53	117 -14	155 23	194 62	232 100	271 139	309 177	348 216	386 254	425 292	463 331
100	1000.00	lb	132 -0	174 42	217 85	260 128	303 170	345 213	388 256	431 298	473 341	516 384	559 427
110	1100.00	lb	185 52	232 99	279 146	326 193	373 240	420 287	467 334	514 381	561 428	608 475	655 522
120	1200.00	lb	238 106	289 157	340 208	392 259	443 311	494 362	545 413	597 464	648 516	699 567	750 618
130	1300.00	lb	291 159	346 214	402 270	457 325	513 381	568 436	624 492	680 547	735 603	791 658	846 714
140	1400.00	lb	344 212	404 271	463 331	523 391	583 451	643 511	703 570	762 630	822 690	882 750	942 810
150	1500.00	lb	397 265	461 329	525 393	589 457	653 521	717 585	781 649	845 713	910 777	974 841	1038 905

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 2021 input prices.

Table 19.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	18.4000	38.64	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.2987	4.56	_____
Self-Propelled	hour	15.27	0.3221	4.92	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2472	2.24	_____
UNALLOCATED LABOR					
	hour	15.31	0.4967	7.61	_____
DIESEL FUEL					
Tractors	gal	2.36	4.6137	10.88	_____
Self-Propelled	gal	2.36	5.7832	13.62	_____
REPAIR & MAINTENANCE					
Implements	acre	5.99	1.0000	5.99	_____
Tractors	acre	3.01	1.0000	3.01	_____
Self-Propelled	acre	24.69	1.0000	24.69	_____
INTEREST ON OP. CAP.	acre	9.27	1.0000	9.27	_____
TOTAL DIRECT EXPENSES				611.28	_____
FIXED EXPENSES					
Implements	acre	7.39	1.0000	7.39	_____
Tractors	acre	17.85	1.0000	17.85	_____
Self-Propelled	acre	96.04	1.0000	96.04	_____
TOTAL FIXED EXPENSES				121.28	_____
TOTAL SPECIFIED EXPENSES				732.56	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 19.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	900.0000	768.96	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				902.61	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	78.09	1.0000	78.09	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	74.20	1.0000	74.20	_____
INSECTICIDES	acre	48.96	1.0000	48.96	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3470	3.14	_____
OPERATOR LABOR	hour	15.27	0.6209	9.48	_____
UNALLOCATED LABOR	hour	15.31	0.4967	7.61	_____
DIESEL FUEL	gal	2.36	10.3969	24.50	_____
REPAIR & MAINTENANCE	acre	33.69	1.0000	33.69	_____
INTEREST ON OP. CAP.	acre	9.27	1.0000	9.27	_____

TOTAL DIRECT EXPENSES				611.28	_____
RETURNS ABOVE DIRECT EXPENSES				291.33	_____

TOTAL FIXED EXPENSES				121.28	_____

TOTAL SPECIFIED EXPENSES				732.56	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				170.05	_____

Note: Cost of production estimates are based on 2021 input prices.

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

Table 19.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	ALLOC UNIT	UNALL 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				
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 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed W3FE	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	
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun		0.01	0.02	0.01	
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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\$15	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 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.62	0.29	0.96	0.49

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 19.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

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						0.12	3.45		3.45
Lime (Spread)	ton	39.29						1.38	40.67		40.67
Custom Apply Fert	acre	7.50						0.26	7.76		7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83		40.83
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26	2.43
Clarity	pt	5.50						0.13	5.63		5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60		3.60
Surfactant	pt	0.66						0.02	0.68		0.68
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71	7.11
NT Plant-Folding	12R-38		1.88	2.39	1.89			0.11	6.27	6.40	12.67
Cotton Seed W3FE	thous	116.55						2.04	118.59		118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35		20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Gramoxone SL 2.0	oz	9.12						0.16	9.28		9.28
Cotoran	pt	11.58						0.20	11.78		11.78
Surfactant	pt	0.66						0.01	0.67		0.67
Cotton Consultant	acre	8.00						0.14	8.14		8.14
Eradication	acre	1.00						0.02	1.02		1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Enlist Duo	pt	12.22						0.21	12.43		12.43
Dual Magnum	pt	10.02						0.18	10.20		10.20
Acephate 90%	lb	4.93						0.09	5.02		5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26	2.42
Bidrin 8EC	oz	4.29						0.06	4.35		4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95	8.89
UAN (32%)	gal	38.64						0.56	39.20		39.20
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20	7.23
Enlist Duo	pt	12.22						0.18	12.40		12.40
Dual Magnum	pt	10.02						0.15	10.17		10.17
Centric 40WG	oz	9.94						0.14	10.08		10.08
Mepiquat Chloride	oz	3.36						0.05	3.41		3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Mepiquat Chloride	oz	3.36						0.04	3.40		3.40
Acephate 90%	lb	7.40						0.09	7.49		7.49
Incidental Pest											
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
IncidentalPestTrt\$15	acre	15.00						0.18	15.18		15.18
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Acephate 90%	lb	7.40						0.06	7.46		7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26	2.41
Thidiazuron 4lb	oz	4.76						0.03	4.79		4.79
Ethephon 6E	pt	7.78						0.05	7.83		7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63	1.20
Tribufos 6lb	pt	5.87						0.03	5.90		5.90
Ethephon 6E	pt	1.22						0.01	1.23		1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33	125.20
Gin & Haul	lb	99.00						0.29	99.29		99.29
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98	18.65
TOTALS			523.59	24.50	33.69	20.23	0.00	9.27	611.28	121.28	732.56

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

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	902.61
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	0.00	0.00	38.64	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	22.40	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	0.57	0.00	4.15	3.64	1.14	0.57	0.85	9.31
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	0.37	0.00	4.11	3.87	0.74	0.37	0.56	14.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.52	2.47	0.40	0.20	0.30	26.60
INTEREST ON OP. CAP.	3.14	0.00	0.00	0.00	0.26	0.00	3.61	1.29	0.33	0.07	0.13	0.44
TOTAL DIRECT EXPENSES	92.71	0.00	0.00	0.00	11.08	0.00	209.47	89.74	28.37	8.61	21.47	149.83
NET INCOME	-92.71	0.00	0.00	0.00	-11.08	0.00	-209.47	-89.74	-28.37	-8.61	-21.47	752.78
NET INCOME TO DATE	-92.71	-92.71	-92.71	-92.71	-103.79	-103.79	-313.26	-403.00	-431.37	-439.98	-461.45	291.33

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-139 -260	-120 -241	-101 -222	-81 -203	-62 -184	-43 -164	-24 -145	-5 -126	14 -107	33 -87	52 -68
60	540.00	lb	-91 -213	-68 -190	-45 -167	-22 -143	0 -120	23 -97	46 -74	69 -51	92 -28	115 -5	138 17
70	630.00	lb	-44 -165	-17 -138	9 -111	36 -84	63 -57	90 -30	117 -3	144 22	171 49	198 76	224 103
80	720.00	lb	3 -117	34 -86	65 -56	95 -25	126 5	157 36	188 66	218 97	249 128	280 159	311 189
90	810.00	lb	51 -69	85 -35	120 -0	155 33	189 68	224 103	258 137	293 172	328 206	362 241	397 276
100	900.00	lb	99 -22	137 16	175 54	214 93	252 131	291 170	329 208	368 246	406 285	445 323	483 362
110	990.00	lb	146 25	189 67	231 110	273 152	316 194	358 237	400 279	442 321	485 363	527 406	569 448
120	1080.00	lb	194 73	240 119	286 165	332 211	379 257	425 303	471 350	517 396	563 442	609 488	655 534
130	1170.00	lb	242 121	292 171	342 221	392 270	442 320	492 370	542 420	592 470	642 520	692 570	742 620
140	1260.00	lb	290 168	343 222	397 276	451 330	505 384	559 437	613 491	666 545	720 599	774 653	828 707
150	1350.00	lb	337 216	395 274	453 331	510 389	568 447	626 504	683 562	741 620	799 677	856 735	914 793

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 2021 input prices.

Table 20.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	2.07	2.3000	4.76	_____
Ethephon 6E	pt	3.89	2.3125	9.00	_____
Tribufos 6lb	pt	11.74	0.5000	5.87	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	26.30	1.5000	39.45	_____
UAN (32%)	gal	2.10	28.9332	60.76	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	11.00	0.5000	5.50	_____
Glyphosate 3lbs a.e	oz	0.11	32.0000	3.52	_____
Gramoxone SL 2.0	oz	0.19	48.0000	9.12	_____
Cotoran	pt	5.79	2.0000	11.58	_____
Enlist Duo	pt	3.49	7.0000	24.43	_____
Dual Magnum	pt	10.02	2.0000	20.04	_____
INSECTICIDES					
Acephate 90%	lb	9.87	2.0000	19.74	_____
Bidrin 8EC	oz	1.34	3.2000	4.29	_____
Centric 40WG	oz	4.97	2.0000	9.94	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.59	45.0000	116.55	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.21	32.0000	6.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
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	59.00	0.6660	39.29	_____
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	15.27	0.4268	6.52	_____
Self-Propelled	hour	15.27	0.3309	5.05	_____
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	0.2516	2.28	_____
UNALLOCATED LABOR					
	hour	15.30	0.6062	9.28	_____
DIESEL FUEL					
Tractors	gal	2.36	6.5911	15.55	_____
Self-Propelled	gal	2.36	5.8626	13.81	_____
1/4-mi. Pivot Irr.	gal	2.36	11.2011	26.43	_____
REPAIR & MAINTENANCE					
Implements	acre	8.18	1.0000	8.18	_____
Tractors	acre	4.30	1.0000	4.30	_____
Self-Propelled	acre	24.80	1.0000	24.80	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	10.96	1.0000	10.96	_____
TOTAL DIRECT EXPENSES				738.27	_____
FIXED EXPENSES					
Implements	acre	10.66	1.0000	10.66	_____
Tractors	acre	25.49	1.0000	25.49	_____
Self-Propelled	acre	96.67	1.0000	96.67	_____
1/4-mi. Pivot Irr.	acre	68.70	1.0000	68.70	_____
TOTAL FIXED EXPENSES				201.52	_____
TOTAL SPECIFIED EXPENSES				939.79	_____

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 20.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.85	1200.0000	1025.28	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1203.48	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	19.63	1.0000	19.63	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	100.21	1.0000	100.21	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	74.20	1.0000	74.20	_____
INSECTICIDES	acre	56.46	1.0000	56.46	_____
SEED/PLANTS	acre	116.55	1.0000	116.55	_____
GROWTH REGULATORS	acre	6.72	1.0000	6.72	_____
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	39.29	1.0000	39.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3752	3.39	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	15.27	0.7578	11.57	_____
UNALLOCATED LABOR	hour	15.30	0.6062	9.28	_____
DIESEL FUEL	gal	2.36	23.6549	55.79	_____
REPAIR & MAINTENANCE	acre	59.23	1.0000	59.23	_____
INTEREST ON OP. CAP.	acre	10.96	1.0000	10.96	_____

TOTAL DIRECT EXPENSES				738.27	_____
RETURNS ABOVE DIRECT EXPENSES				465.21	_____
TOTAL FIXED EXPENSES					
				201.52	_____

TOTAL SPECIFIED EXPENSES				939.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				263.69	_____

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 20.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	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 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	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
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Jun			0.01	0.02	0.01
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
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				1.50	Jul					
Sprayer 600-750gal	60' 175hp		0.017					0.02	0.03	0.02
IncidentalPestTrt\$15	acre					1.5000				
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 300	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							0.75	0.42	1.33	0.60

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

Table 20.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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						0.12	3.45	3.45
Lime (Spread)	ton	39.29						1.38	40.67	40.67
Custom Apply Fert	acre	7.50						0.26	7.76	7.76
Potash (60% K2O)	cwt	39.45						1.38	40.83	40.83
Bed-Subsoil Fold	12R-38		1.96	1.90	1.48			0.19	5.53	5.38
Bed/Disk (Hipper)	12R-38		0.90	0.57	0.68			0.08	2.23	2.25
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.03	1.17	1.26
Clarity	pt	5.50						0.13	5.63	5.63
Glyphosate 3lbs a.e	oz	3.52						0.08	3.60	3.60
Surfactant	pt	0.66						0.02	0.68	0.68
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.10	4.97	3.95
UAN (32%)	gal	30.38						0.62	31.00	31.00
Row Cond Folding	38'		1.49	0.73	1.12			0.06	3.40	3.71
Plant - Folding	12R-38		1.81	2.06	1.82			0.10	5.79	5.73
Cotton Seed W3FE	thous	116.55						2.04	118.59	118.59
Cotton Seed Trt.	acre	20.00						0.35	20.35	20.35
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Gramoxone SL 2.0	oz	9.12						0.16	9.28	9.28
Cotoran	pt	11.58						0.20	11.78	11.78
Surfactant	pt	0.66						0.01	0.67	0.67
Cotton Consultant	acre	8.00						0.14	8.14	8.14
Eradication	acre	1.00						0.02	1.02	1.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Enlist Duo	pt	12.22						0.21	12.43	12.43
Dual Magnum	pt	10.02						0.18	10.20	10.20
Acephate 90%	lb	4.93						0.09	5.02	5.02
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.02	1.16	1.26
Bidrin 8EC	oz	4.29						0.06	4.35	4.35
Fert Appl (Liquid)	12R-38		1.88	1.34	1.65			0.07	4.94	3.95
UAN (32%)	gal	30.38						0.44	30.82	30.82
Spray (Direct/Layby)	12R-38		1.62	0.93	1.42			0.06	4.03	3.20
Enlist Duo	pt	12.22						0.18	12.40	12.40
Dual Magnum	pt	10.02						0.15	10.17	10.17
Centric 40WG	oz	9.94						0.14	10.08	10.08
Mepiquat Chloride	oz	3.36						0.05	3.41	3.41
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Mepiquat Chloride	oz	3.36						0.04	3.40	3.40
Acephate 90%	lb	7.40						0.09	7.49	7.49
Incidental Pest										
Sprayer 600-750gal	60' 175hp		0.56	0.31	0.84			0.02	1.73	1.89
IncidentalPestTrt\$15	acre	22.50						0.26	22.76	22.76
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Acephate 90%	lb	7.40						0.06	7.46	7.46
Sprayer 600-750gal	60' 175hp		0.37	0.20	0.57			0.01	1.15	1.26
Thidiazuron 4lb	oz	4.76						0.03	4.79	4.79
Ethephon 6E	pt	7.78						0.05	7.83	7.83
Sprayer 600-750gal	60' 175hp		0.19	0.10	0.28				0.57	0.63
Tribufos 6lb	pt	5.87						0.03	5.90	5.90
Ethephon 6E	pt	1.22						0.01	1.23	1.23
Cotton Picker/Module	6R-38(500)		10.47	22.99	6.29			0.12	39.87	85.33
Gin & Haul	lb	132.00						0.39	132.39	132.39
Stalk Shredder-Flail	15'		4.01	3.61	3.02			0.03	10.67	7.98
1/4-mi. Pivot Irr.	acre		26.43	21.95	1.84			0.64	50.86	68.70
TOTALS		586.21	55.79	59.23	26.08	0.00	10.96	738.27	201.52	939.79

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 20.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

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	1203.48
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	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	39.45	0.00	0.00	0.00	0.00	30.38	0.00	30.38	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	9.02	0.00	42.94	22.24	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.93	14.23	29.90	7.40	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	116.55	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	3.36	3.36	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	39.29	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	2.16	0.00	0.00	0.00	0.57	1.65	5.42	3.79	1.61	0.72	0.85	9.31
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	2.86	0.00	0.00	0.00	0.37	1.88	4.04	11.80	11.50	8.30	0.56	14.48
REPAIR & MAINTENANCE	2.47	0.00	0.00	0.00	0.20	1.34	3.19	20.94	2.50	1.69	0.30	26.60
INTEREST ON OP. CAP.	3.41	0.00	0.00	0.00	0.26	0.72	3.62	1.56	0.57	0.15	0.13	0.54
TOTAL DIRECT EXPENSES	100.47	0.00	0.00	0.00	11.08	35.97	210.35	108.30	49.44	18.26	21.47	182.93
NET INCOME	-100.47	0.00	0.00	0.00	-11.08	-35.97	-210.35	-108.30	-49.44	-18.26	-21.47	1020.55
NET INCOME TO DATE	-100.47	-100.47	-100.47	-100.47	-111.55	-147.52	-357.87	-466.17	-515.61	-533.87	-555.34	465.21

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.64	0.68	0.72	0.76	0.81	0.85	0.89	0.93	0.98	1.02	1.06
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-109 -310	-83 -285	-58 -259	-32 -234	-6 -208	18 -182	44 -157	70 -131	95 -105	121 -80	146 -54
60	720.00	lb	-45 -247	-14 -216	15 -185	46 -154	77 -124	108 -93	138 -62	169 -31	200 -1	231 29	261 60
70	840.00	lb	17 -183	53 -147	89 -111	125 -75	161 -40	197 -4	233 31	269 67	304 103	340 139	376 175
80	960.00	lb	81 -119	122 -78	163 -37	204 3	245 44	286 85	327 126	368 167	409 208	450 249	491 290
90	1080.00	lb	145 -56	191 -10	237 35	283 82	329 128	375 174	422 220	468 266	514 312	560 358	606 405
100	1200.00	lb	208 7	260 58	311 109	362 161	413 212	465 263	516 314	567 366	619 417	670 468	721 520
110	1320.00	lb	272 71	328 127	385 183	441 240	498 296	554 352	610 409	667 465	723 522	780 578	836 634
120	1440.00	lb	336 134	397 196	459 257	520 319	582 380	643 442	705 503	766 565	828 626	889 688	951 749
130	1560.00	lb	399 198	466 264	533 331	599 398	666 464	733 531	799 598	866 664	933 731	999 798	1066 864
140	1680.00	lb	463 261	535 333	607 405	678 477	750 549	822 620	894 692	965 764	1037 836	1109 907	1181 979
150	1800.00	lb	527 325	604 402	680 479	757 556	834 633	911 710	988 787	1065 863	1142 940	1219 1017	1296 1094

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 2021 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, 2022

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	391,000	300	8	13.64	15.27	32.19	40.72	88.18	151.14	239.33
Combine (300-349 hp)	325 hp	413,700	300	8	16.73	15.27	39.48	43.09	97.84	159.92	257.76
Combine (350-399 hp)	355 hp	437,900	300	8	18.27	15.27	43.11	45.61	104.00	169.27	273.27
Combine (400-449 hp)	425 hp	474,800	300	8	21.87	15.27	51.62	49.45	116.35	183.54	299.89
Combine (450-499hp)	475 hp	489,900	300	8	24.44	15.27	57.69	51.03	124.00	189.37	313.37
Tractor(20-39hp)CB	MFWD 30	28,600	600	8	1.54	15.27	3.64	0.89	19.80	5.01	24.81
Tractor(20-39hp)RB	MFWD 30	21,400	600	8	1.54	15.27	3.64	0.66	19.58	3.74	23.33
Tractor(40-59hp)CB	2WD 50	32,100	600	8	2.57	15.27	6.07	1.00	22.34	5.62	27.97
Tractor(40-59hp)CB	MFWD 50	42,600	600	8	2.57	15.27	6.07	1.33	22.67	7.46	30.13
Tractor(40-59hp)RB	2WD 50	23,300	600	8	2.57	15.27	6.07	0.72	22.07	4.08	26.15
Tractor(40-59hp)RB	MFWD 50	30,500	600	8	2.57	15.27	6.07	0.95	22.29	5.34	27.64
Tractor(60-89hp)CB	2WD 75	56,700	600	8	3.86	15.27	9.11	1.77	26.15	9.93	36.08
Tractor(60-89hp)CB	MFWD 75	60,500	600	8	3.86	15.27	9.11	1.89	26.27	10.59	36.87
Tractor(60-89hp)RB	2WD 75	43,100	600	8	3.86	15.27	9.11	1.34	25.72	7.55	33.27
Tractor(60-89hp)RB	MFWD 75	43,800	600	8	3.86	15.27	9.11	1.36	25.74	7.67	33.42
Tractor(90-119hp)CB	2WD 105	74,700	600	8	5.40	15.27	12.75	2.33	30.35	13.08	43.44
Tractor(90-119hp)CB	MFWD 105	94,500	600	8	5.40	15.27	12.75	2.95	30.97	16.55	47.53
Tractor(90-119hp)RB	2WD 105	67,100	600	8	5.40	15.27	12.75	2.09	30.12	11.75	41.87
Tractor(90-119hp)RB	MFWD 105	75,300	600	8	5.40	15.27	12.75	2.35	30.37	13.19	43.57
Tractor(120-139hp)CB	2WD 130	117,400	600	8	6.69	15.27	15.79	3.66	34.73	20.56	55.29
Tractor(120-139hp)CB	MFWD 130	131,100	600	8	6.69	15.27	15.79	4.09	35.15	22.96	58.12
Tractor(140-159hp)	2WD 150	116,100	600	8	7.72	15.27	18.22	3.62	37.11	20.34	57.45
Tractor(140-159hp)CB	MFWD 150	143,000	600	8	7.72	15.27	18.22	4.46	37.96	25.05	63.01
Tractor(160-179hp)CB	MFWD 170	164,000	600	8	8.75	15.27	20.65	5.12	41.04	30.21	71.26
Tractor(180-199hp)CB	MFWD 190	206,000	600	8	9.77	15.27	23.08	6.43	44.78	37.95	82.74
Tractor(200-249hp)CB	MFWD 225	248,000	600	8	11.58	15.27	27.33	7.75	50.35	45.69	96.04
Tractor(250-349hp)CB	4WD 300	343,000	600	8	15.44	15.27	36.44	10.71	62.43	63.19	125.62
Tractor(250-349hp)CB	MFWD 300	324,000	600	8	15.44	15.27	36.44	10.12	61.83	59.69	121.53
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	15.27	36.44	10.28	61.99	60.61	122.60
Tractor(350-449hp)	Track 400	492,000	600	8	20.58	15.27	48.59	15.37	79.23	90.64	169.88
Tractor(350-449hp)CB	4WD 400	406,000	600	8	20.58	15.27	48.59	12.68	76.54	74.80	151.34
Tractor(450-550hp)CB	4WD 500	430,000	600	8	25.73	15.27	60.73	13.43	89.44	79.22	168.66
Tractor(450-550hp)CB	Track 500	496,000	600	8	25.73	15.27	60.73	15.50	91.50	91.38	182.88
Utility Vehicle	800 CC	12,200	200	8	0.70	15.27	1.96	1.90	19.14	7.07	26.21
Utility Vehicle	900 CC	15,800	200	8	1.00	15.27	2.81	2.46	20.54	9.16	29.71

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

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, 2022

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	6.27	7.82	10.79	24.89	40.05	64.95
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	6.27	10.95	14.13	31.36	52.46	83.83
Cotton Picker	4R2x1(350)	357,000	200	8	18.01	0.172	4.19	7.32	9.61	21.12	35.66	56.79
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	5.31	9.41	15.85	30.57	58.84	89.42
Cotton Picker	6R-38(355)	465,000	200	8	18.27	0.172	4.19	7.43	12.51	24.14	46.45	70.60
Cotton Picker/Modu	4R-38(365)	536,000	200	8	20.58	0.257	6.27	12.52	21.58	40.38	80.11	120.50
Cotton Picker/Module	6R-30(500)	854,000	200	8	25.73	0.218	5.31	13.25	29.12	47.68	108.07	155.76
Cotton Picker/Module	6R-38(500)	854,000	200	8	25.73	0.172	4.19	10.46	22.99	37.65	85.32	122.97
Dry Applicator SP	70' 300cuft	365,000	350	8	16.98	0.015	0.29	0.60	0.29	1.20	1.82	3.02
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.34	0.37	0.20	0.92	1.26	2.18
Sprayer 600-825gal	80' 175hp	234,000	350	8	11.81	0.013	0.26	0.36	0.16	0.79	1.02	1.82
Sprayer 600-825gal	90' 250hp	328,000	350	8	12.73	0.011	0.23	0.35	0.20	0.79	1.27	2.06
Sprayer 800gal	100' 250hp	333,000	350	8	14.15	0.010	0.20	0.35	0.18	0.75	1.16	1.91
Sprayer 800gal	80' 250hp	300,000	350	8	12.86	0.013	0.26	0.40	0.21	0.87	1.31	2.18
Sprayer 1000-1400gal	90' 275hp	332,000	350	8	14.15	0.010	0.20	0.35	0.18	0.75	1.16	1.91
Sprayer 1000gal	100' 300hp	379,000	350	8	15.44	0.010	0.20	0.38	0.21	0.80	1.32	2.13
Sprayer 1200+gal	120' 300hp	401,000	350	8	15.44	0.008	0.17	0.32	0.18	0.68	1.17	1.85

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, 2022

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
dollars hours years hr/ac -----\$/acre-----														
Bed-Paratill w/ro	4R-30	MFWD 225	18,700	150	12	0.204	3.12	5.58	1.37	1.58	11.66	2.20	9.33	23.20
Bed-Paratill w/ro	4R-38	MFWD 225	18,700	150	12	0.160	2.45	4.39	1.08	1.24	9.18	1.73	7.35	18.27
Bed-Paratill w/ro	6R-38	MFWD 225	25,500	150	12	0.107	1.64	2.93	0.99	0.83	6.40	1.58	4.91	12.90
Bed-Rip/Disk Fold.	8R-38	MFWD 190	49,200	300	20	0.073	1.11	1.68	0.17	0.47	3.45	0.76	2.77	6.98
Bed-Rip/Disk Fold.	12R-30	MFWD 225	69,800	300	20	0.061	0.94	1.68	0.21	0.47	3.31	0.91	2.81	7.04
Bed-Rip/Disk Fold.	12R-38	MFWD 225	69,800	300	20	0.046	0.70	1.26	0.16	0.35	2.48	0.68	2.11	5.28
Bed-Rip/Disk Rigid	4R-30	MFWD 190	22,600	300	20	0.184	2.82	4.26	0.20	1.19	8.48	0.88	7.01	16.38
Bed-Rip/Disk Rigid	4R-38	MFWD 190	22,600	300	20	0.146	2.24	3.38	0.16	0.94	6.73	0.70	5.56	13.00
Bed-Rip/Disk Rigid	6R-30	MFWD 190	31,200	300	20	0.123	1.88	2.84	0.19	0.79	5.71	0.81	4.67	11.20
Bed-Rip/Disk Rigid	6R-38	MFWD 190	31,200	300	20	0.097	1.48	2.24	0.15	0.62	4.50	0.64	3.69	8.84
Bed-Rip/Disk Rigid	8R-30	MFWD 190	41,700	300	20	0.139	2.12	3.20	0.28	0.89	6.51	1.22	5.27	13.01
Bed-Rip/Disk Rigid	8R-38	MFWD 190	41,700	300	20	0.073	1.11	1.68	0.15	0.47	3.42	0.64	2.77	6.84
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	24,800	150	12	0.107	1.64	2.93	0.96	0.83	6.37	1.53	4.91	12.83
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	33,000	150	12	0.080	1.23	2.20	0.96	0.62	5.02	1.53	3.69	10.25
Bed-Subsoil Fold	8R-38	MFWD 225	49,200	150	12	0.080	1.23	2.20	1.43	0.62	5.50	2.29	3.69	11.48
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	69,800	150	12	0.053	0.82	1.46	1.35	0.41	4.06	2.16	2.45	8.68
Bed-Subsoil Fold	12R-38	MFWD 225	69,800	150	12	0.053	0.82	1.46	1.35	0.41	4.06	2.16	2.45	8.68
Bed-Subsoil Rigid	4R-30	MFWD 225	17,500	150	12	0.204	3.12	5.58	1.29	1.58	11.57	2.06	9.33	22.97
Bed-Subsoil Rigid	4R-38	MFWD 225	16,800	150	12	0.160	2.45	4.39	0.97	1.24	9.07	1.56	7.35	17.98
Bed-Subsoil Rigid	6R-30	MFWD 225	24,300	150	12	0.136	2.08	3.72	1.19	1.05	8.05	1.91	6.22	16.18
Bed-Subsoil Rigid	6R-38	MFWD 225	25,300	150	12	0.107	1.64	2.93	0.98	0.83	6.39	1.57	4.91	12.88
Bed-Subsoil Rigid	8R-30	MFWD 225	32,500	150	12	0.102	1.56	2.79	1.19	0.79	6.34	1.91	4.66	12.92
Bed-Subsoil Rigid	8R-38	MFWD 225	33,600	150	12	0.080	1.23	2.20	0.97	0.62	5.04	1.56	3.69	10.30
Bed/Disk (Hipper)	4R-38	MFWD 150	10,500	160	10	0.147	2.25	2.69	0.38	0.65	5.99	0.95	3.69	10.64
Bed/Disk (Hipper)	6R-38	MFWD 170	16,200	160	10	0.098	1.50	2.03	0.39	0.50	4.45	0.98	2.98	8.41
Bed/Disk (Hipper)	8R-30	MFWD 190	20,800	160	10	0.093	1.43	2.16	0.48	0.60	4.68	1.19	3.55	9.44
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	51,400	160	10	0.049	0.75	1.13	0.63	0.31	2.84	1.55	1.87	6.27
Bed/Disk (Hipper)	12R-30	MFWD 225	40,100	160	10	0.062	0.95	1.70	0.62	0.48	3.77	1.53	2.85	8.16
Bed/Disk (Hipper)	12R-38	MFWD 225	51,400	160	10	0.049	0.75	1.34	0.63	0.38	3.11	1.55	2.25	6.93
Bed/Disk (Hipper)	16R40	MFWD 300	60,800	160	10	0.035	0.54	1.28	0.53	0.35	2.72	1.32	2.11	6.15
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	22,000	160	10	0.074	1.13	1.71	0.40	0.47	3.72	1.00	2.81	7.54
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	22,700	160	10	0.074	1.13	1.71	0.42	0.47	3.73	1.03	2.81	7.58
Bed/Disk w/roller	8R-30	MFWD 190	26,900	160	10	0.093	1.43	2.16	0.63	0.60	4.82	1.54	3.55	9.93
Bed/Disk w/roller	8R-38	MFWD 190	30,800	160	10	0.074	1.13	1.71	0.57	0.47	3.88	1.40	2.81	8.10
Bed/Disk w/roller	12R-30/40	MFWD 225	50,900	160	10	0.062	0.95	1.70	0.79	0.48	3.94	1.95	2.85	8.75
Bed/Lister	4R-38	MFWD 150	18,100	160	8	0.228	3.48	4.16	0.96	1.02	9.63	2.85	5.72	18.21
Bed/Lister	6R-38	MFWD 150	20,400	160	8	0.120	1.83	2.19	0.57	0.53	5.13	1.69	3.01	9.84
Bed/Lister	8R-30	MFWD 190	24,900	160	8	0.114	1.74	2.63	0.66	0.73	5.78	1.96	4.33	12.07
Bed/Lister	8R-38	MFWD 190	25,000	160	8	0.090	1.37	2.08	0.52	0.58	4.57	1.55	3.42	9.55
Bed/Lister	8R-38 2x1	MFWD 190	40,400	160	8	0.060	0.91	1.38	0.56	0.38	3.26	1.67	2.28	7.21
Bed/Lister	12R-38	MFWD 225	40,400	160	8	0.060	0.91	1.64	0.56	0.46	3.59	1.67	2.74	8.01
Bed/Lister	16R-30	MFWD 225	54,700	160	8	0.035	0.53	0.96	0.45	0.27	2.21	1.32	1.60	5.15
Bed/Lister	16R40	MFWD 300	56,900	160	8	0.043	0.65	1.57	0.57	0.43	3.23	1.69	2.57	7.50
Bed/Lister-Roll-Fo	8R-38	MFWD 190	28,300	160	10	0.095	1.46	2.21	0.67	0.61	4.97	1.66	3.64	10.28
Bed/Lister-Roll-Fo	12R-30	MFWD 225	37,800	160	10	0.080	1.23	2.21	0.76	0.62	4.83	1.87	3.69	10.41
Bed/Lister-Roll-Fo	12R-38	MFWD 225	38,400	160	10	0.063	0.97	1.74	0.61	0.49	3.82	1.50	2.91	8.25
Bed/Lister-Roll-Fo	16R-30	MFWD 225	48,700	160	10	0.060	0.92	1.65	0.73	0.47	3.79	1.81	2.77	8.37
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.46	2.21	0.59	0.61	4.89	1.47	3.64	10.00
Blade-Box	6'-7'	MFWD 105	1,500	200	20	0.020	0.30	0.25	0.01	0.04	0.62	0.01	0.26	0.89
Blade-Box	8'-10'	MFWD 105	3,890	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	MFWD 105	6,190	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	MFWD 105	1,280	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	MFWD 105	4,010	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	MFWD 105	10,790	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	3.93	5.94	1.96	1.65	13.51	3.70	9.78	26.99
Boll Buggy	4R-38 (350)	MFWD 190	30,500	200	10	0.257	3.93	5.94	1.96	1.65	13.51	3.70	9.78	26.99
Boll Buggy	4R2x1 (350)	MFWD 190	30,500	200	10	0.172	2.63	3.97	1.31	1.10	9.03	2.47	6.53	18.04
Boll Buggy	6R-30 (355)	MFWD 190	30,500	200	10	0.218	3.33	5.03	1.66	1.40	11.43	3.13	8.28	22.85
Boll Buggy	6R-38 (355)	MFWD 190	30,500	200	10	0.172	2.63	3.97	1.31	1.10	9.03	2.47	6.53	18.04
Chisel Plow-Folding	24'	MFWD 190	45,200	150	12	0.076	1.16	1.76	1.24	0.49	4.67	1.99	2.90	9.56
Chisel Plow-Folding	32'	MFWD 225	58,400	150	12	0.057	0.88	1.57	1.21	0.44	4.12	1.94	2.63	8.71
Chisel Plow-Folding	42'	MFWD 225	67,000	150	12	0.044	0.67	1.20	1.06	0.34	3.28	1.70	2.01	6.99
Chisel Plow-Folding	50'	MFWD 225	88,800	150	12	0.036	0.56	1.01	1.18	0.28	3.04	1.89	1.68	6.63
Chisel Plow-Folding	61'	MFWD 225	102,400	150	12	0.030	0.46	0.82	1.12	0.23	2.64	1.79	1.38	5.82
Chisel Plow-Rigid	10'	MFWD 170	7,930	150	12	0.184	2.82	3.81	0.52	0.94	8.11	0.84	5.58	14.54
Chisel Plow-Rigid	15'	2WD 130	13,800	150	12	0.123	1.88	1.94	0.61	0.45	4.89	0.98	2.53	8.41
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.56	2.80	0.49	0.79	5.66	0.79	4.69	11.15
Cultivate	4R-30	2WD 105	15,800	150	10	0.206	3.14	2.63	0.86	0.48	7.13	2.13	2.69	11.96
Cultivate	4R-38	2WD 105	16,000	150	10	0.162	2.47	2.07	0.69	0.34	5.58	1.70	1.90	9.19
Cultivate	6R-30	MFWD 150	19,700	150	10	0.137	2.09	2.50	0.72	0.61	5.94	1.77	3.44	11.16
Cultivate	6R-38	MFWD 150	20,600	150	10	0.108	1.65	1.97	0.59	0.48	4.71	1.46	2.71	8.90
Cultivate	8R-30	MFWD 190	25,100	150	10	0.103	1.57	2.38	0.69	0.66	5.30	1.69	3.91	10.91
Cultivate	8R-38	MFWD 190	30,200	150	10	0.073	1.12	1.70	0.59	0.47	3.89	1.45	2.79	8.14
Cultivate	8R-38 2x1	MFWD 190	46,300	150	10	0.054	0.82	1.25	0.67	0.34	3.10	1.64	2.06	6.80
Cultivate	12R-30	MFWD 225	45,300	150	10	0.068	1.04	1.87	0.83	0.53	4.29	2.04	3.14	9.47
Cultivate	12R-38	MFWD 225	46,300	150	10	0.054	0.82	1.48	0.67	0.42	3.40	1.64	2.48	7.53
Cultivate	16R-30	MFWD 225	65,500	150	10	0.051	0.78	1.40	0.90	0.39	3.49	2.21	2.35	8.06
Cultivate & Post	4R-30	2WD 105	21,100	150	10	0.220	4.35	2.80	1.23	0.46	8.86	3.04	2.58	14.48
Cultivate & Post	4R-38	2WD 105	21,300	150	10	0.173	3.42	2.20	0.98	0.36	6.98	2.41	2.03	11.44

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (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-----							
Cultivate & Post	6R-30	MFWD 150	25,100	150	10	0.146	2.90	2.67	0.98	0.65	7.21	2.41	3.67	13.30
Cultivate & Post	6R-38	MFWD 150	25,900	150	10	0.115	2.29	2.10	0.79	0.51	5.71	1.96	2.90	10.58
Cultivate & Post	8R-30	MFWD 190	30,400	150	10	0.110	2.17	2.53	0.89	0.70	6.31	2.19	4.17	12.68
Cultivate & Post	8R-38	MFWD 190	35,500	150	10	0.086	1.72	2.00	0.82	0.55	5.11	2.02	3.30	10.43
Cultivate & Post	8R-38 2x1	MFWD 190	51,600	150	10	0.057	1.14	1.33	0.79	0.37	3.65	1.95	2.19	7.80
Cultivate & Post	12R-30	MFWD 225	50,600	150	10	0.073	1.45	2.00	0.98	0.56	5.01	2.43	3.35	10.79
Cultivate & Post	12R-38	MFWD 225	51,600	150	10	0.057	1.14	1.58	0.79	0.44	3.97	1.95	2.64	8.57
Cultivate & Post	16R-30	MFWD 225	70,800	150	10	0.055	1.08	1.50	1.03	0.42	4.05	2.55	2.51	9.12
Disk & Incorporate	14'	2WD 130	32,200	200	10	0.149	2.96	2.36	1.44	0.54	7.32	2.36	3.07	12.76
Disk & Incorporate	20'	MFWD 190	79,300	200	10	0.092	1.83	2.13	2.19	0.59	6.75	3.60	3.50	13.86
Disk & Incorporate	24'	MFWD 190	52,200	200	10	0.087	1.72	2.01	1.36	0.56	5.67	2.23	3.31	11.22
Disk & Incorporate	28'	MFWD 225	62,300	200	10	0.074	1.48	2.04	1.39	0.57	5.50	2.29	3.41	11.21
Disk & Incorporate	32'	MFWD 225	67,900	200	10	0.065	1.29	1.78	1.33	0.50	4.92	2.18	2.99	10.10
Disk Harrow	14'	2WD 130	26,900	180	10	0.140	2.14	2.21	1.04	0.51	5.92	2.06	2.88	10.86
Disk Harrow	20'	MFWD 190	47,100	180	10	0.098	1.49	2.26	1.28	0.63	5.68	2.52	3.72	11.93
Disk Harrow	24'	MFWD 190	46,900	180	10	0.081	1.24	1.88	1.06	0.52	4.73	2.09	3.10	9.93
Disk Harrow	28'	MFWD 225	56,900	180	10	0.070	1.07	1.91	1.10	0.54	4.64	2.17	3.20	10.02
Disk Harrow	32'	MFWD 225	62,600	180	10	0.061	0.93	1.67	1.06	0.47	4.15	2.09	2.80	9.06
Disk Harrow	42'	MFWD 225	110,100	180	10	0.046	0.71	1.27	1.43	0.36	3.78	2.81	2.13	8.73
Disk Harrow 40-100hp	14'	2WD 75	16,700	180	10	0.140	2.14	1.27	0.65	0.18	4.26	1.27	1.05	6.59
Disk Heavy	14'	MFWD 150	26,900	180	10	0.145	2.22	2.65	1.09	0.65	6.63	2.14	3.65	12.43
Disk Heavy	20'	MFWD 190	73,900	180	10	0.097	1.48	2.24	1.99	0.62	6.35	3.92	3.69	13.97
Disk Heavy	28'	MFWD 225	56,900	180	10	0.075	1.15	2.06	1.19	0.58	5.00	2.35	3.45	10.81
Disk Ripper	15'	MFWD 225	50,800	180	10	0.136	2.08	3.72	1.92	1.05	8.78	3.77	6.22	18.78
Ditcher		2WD 130	6,480	200	10	0.020	0.30	0.31	0.05	0.07	0.74	0.06	0.41	1.22
Ditcher (1m/160a)		2WD 130	6,480	200	10	0.009	0.14	0.14	0.02	0.03	0.34	0.02	0.19	0.57
Fert Appl (Liquid)	4R-38	MFWD 150	19,000	150	8	0.154	3.06	2.81	1.95	0.69	8.53	2.05	3.87	14.46
Fert Appl (Liquid)	6R-30	MFWD 170	19,800	150	8	0.130	2.59	2.70	1.72	0.67	7.69	1.81	3.95	13.47
Fert Appl (Liquid)	6R-38	MFWD 170	19,800	150	8	0.103	2.04	2.13	1.36	0.52	6.07	1.43	3.12	10.63
Fert Appl (Liquid)	8R-30	MFWD 190	20,100	150	8	0.098	1.94	2.26	1.31	0.63	6.15	1.38	3.72	11.27
Fert Appl (Liquid)	8R-38	MFWD 190	22,600	150	8	0.077	1.53	1.79	1.16	0.49	4.99	1.22	2.94	9.17
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	25,200	150	8	0.051	1.02	1.19	0.86	0.33	3.41	0.91	1.96	6.29
Fert Appl (Liquid)	12R-30	MFWD 225	25,900	150	8	0.078	1.55	2.14	1.35	0.60	5.66	1.42	3.58	10.68
Fert Appl (Liquid)	12R-38	MFWD 225	23,700	150	8	0.051	1.02	1.41	0.81	0.40	3.65	0.85	2.36	6.87
Field Cult & Inc	42'	MFWD 225	70,900	100	10	0.037	0.74	1.03	0.66	0.29	2.74	2.63	1.72	7.10
Field Cult & Inc	50'	MFWD 225	76,700	100	10	0.031	0.62	0.86	0.60	0.24	2.34	2.39	1.44	6.19
Field Cult & Inc Fld	24'	MFWD 170	37,200	100	10	0.066	1.30	1.36	0.61	0.33	3.62	2.41	1.99	8.04
Field Cult & Inc Fld	32'	MFWD 190	49,800	100	10	0.049	0.98	1.14	0.61	0.31	3.06	2.42	1.88	7.37
Field Cult & Inc Rdg	12'	2WD 150	18,200	100	10	0.132	2.61	2.40	0.60	0.47	6.10	2.36	2.68	11.16
Field Cultivate Fld	24'	MFWD 170	31,800	100	10	0.062	0.95	1.28	0.49	0.31	3.04	1.94	1.87	6.87
Field Cultivate Fld	32'	MFWD 190	44,400	100	10	0.046	0.71	1.07	0.51	0.30	2.60	2.03	1.77	6.41
Field Cultivate Fld	42'	MFWD 225	60,600	100	10	0.035	0.54	0.97	0.53	0.27	2.32	2.11	1.62	6.07
Field Cultivate Fld	50'	MFWD 225	67,600	100	10	0.029	0.45	0.81	0.50	0.23	2.00	1.98	1.36	5.35
Field Cultivate Rdg	12'	2WD 150	12,900	100	10	0.124	1.90	2.26	0.40	0.45	5.02	1.57	2.53	9.12
Grain Cart Corn	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.19	0.16	1.33	0.31	0.96	2.61
Grain Cart Corn	700 bu	MFWD 190	44,900	200	12	0.025	0.38	0.58	0.30	0.16	1.44	0.49	0.96	2.89
Grain Cart Corn	1000 bu	MFWD 225	59,400	200	12	0.025	0.38	0.69	0.40	0.19	1.68	0.65	1.15	3.48
Grain Cart Rice	500 bu	MFWD 190	29,100	200	12	0.062	0.95	1.44	0.49	0.40	3.29	0.78	2.37	6.45
Grain Cart Rice	700 bu	MFWD 190	44,900	200	12	0.055	0.83	1.26	0.66	0.35	3.13	1.06	2.08	6.28
Grain Cart Rice	1000 bu	MFWD 190	59,400	200	12	0.045	0.69	1.05	0.73	0.29	2.79	1.17	1.73	5.70
Grain Cart Soybean	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.20	0.16	1.34	0.32	0.96	2.63
Grain Cart Soybean	700 bu	MFWD 190	44,900	200	12	0.021	0.32	0.49	0.25	0.13	1.21	0.41	0.80	2.42
Grain Cart Soybean	1000 bu	MFWD 190	59,400	200	12	0.021	0.32	0.49	0.34	0.13	1.29	0.54	0.80	2.64
Grain Cart Wht/Sor	500 bu	MFWD 190	29,100	200	12	0.025	0.38	0.58	0.20	0.16	1.34	0.32	0.96	2.63
Grain Cart Wht/Sor	700 bu	MFWD 190	44,900	200	12	0.021	0.32	0.49	0.25	0.13	1.21	0.41	0.80	2.42
Grain Cart Wht/Sor	1000 bu	MFWD 190	59,400	200	12	0.021	0.32	0.49	0.34	0.13	1.29	0.54	0.80	2.64
Grain Drill	10'	2WD 130	28,700	150	8	0.188	4.58	2.97	2.02	0.69	10.28	3.59	3.87	17.76
Grain Drill	12'	2WD 130	28,200	150	8	0.157	3.82	2.48	1.66	0.57	8.54	2.94	3.23	14.72
Grain Drill	15'	MFWD 150	34,400	150	8	0.125	3.05	2.29	1.62	0.56	7.53	2.87	3.14	13.55
Grain Drill	20'	MFWD 170	41,900	150	8	0.094	2.29	1.94	1.48	0.48	6.20	2.62	2.84	11.68
Grain Drill	24'	MFWD 190	67,300	150	8	0.078	1.91	1.81	1.98	0.50	6.21	3.51	2.98	12.70
Grain Drill	30'	MFWD 225	68,900	150	8	0.062	1.52	1.71	1.62	0.48	5.35	2.87	2.87	11.10
Grain Drill	35'	MFWD 225	93,600	150	8	0.053	1.31	1.47	1.89	0.41	5.09	3.35	2.46	10.90
Grain Drill & Pre	10'	2WD 130	34,000	150	8	0.203	4.94	3.20	2.58	0.74	11.48	4.58	4.17	20.24
Grain Drill & Pre	12'	2WD 130	33,500	150	8	0.169	4.11	2.67	2.12	0.62	9.53	3.76	3.48	16.78
Grain Drill & Pre	15'	MFWD 150	39,800	150	8	0.135	3.29	2.46	2.02	0.60	8.38	3.58	3.39	15.35
Grain Drill & Pre	20'	MFWD 170	47,200	150	8	0.101	2.47	2.09	1.79	0.52	6.88	3.18	3.06	13.13
Grain Drill & Pre	24'	MFWD 190	72,600	150	8	0.084	2.05	1.95	2.30	0.54	6.86	4.08	3.21	14.15
Grain Drill & Pre	30'	MFWD 225	74,200	150	8	0.067	1.64	1.85	1.88	0.52	5.90	3.33	3.09	12.33
Grain Drill & Pre	35'	MFWD 225	104,000	150	8	0.058	1.41	1.58	2.26	0.44	5.70	4.01	2.65	12.37
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.52	1.71	1.34	0.48	5.07	2.38	2.87	10.33
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	0.98	1.49	0.31	0.41	3.21	0.43	2.45	6.10
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.79	1.19	0.27	0.33	2.59	0.38	1.96	4.94
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.59	0.89	0.28	0.24	2.02	0.40	1.47	3.90
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.49	0.88	0.29	0.25	1.92	0.41	1.47	3.81
Header - Corn	6R-30	265 hp	54,200	300	8	0.170	2.60	5.48	2.30	6.93	17.32	3.23	25.73	46.29
Header - Corn	6R-38	265 hp	53,800	300	8	0.134	2.05	4.32	1.80	5.47	13.66	2.53	20.31	36.51
Header - Corn	8R-30	265 hp	71,200	300	8	0.127	1.95	4.11	2.27	5.20	13.53	3.18	19.30	36.02

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (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-----							
Header - Corn	8R-38	325 hp	72,200	300	8	0.100	1.54	3.98	1.82	4.35	11.70	2.55	16.14	30.40
Header - Corn	12R-20	325 hp	105,000	300	8	0.127	1.95	5.04	3.35	5.50	15.84	4.69	20.42	40.97
Header - Corn	12R-30	325 hp	118,000	300	8	0.085	1.30	3.36	2.51	3.66	10.84	3.52	13.61	27.97
Header - Draper (CL)	25' Rigid	265 hp	74,100	300	8	0.203	3.10	6.53	3.44	8.27	21.35	5.00	30.69	57.05
Header - Draper (CL)	30' Rigid	325 hp	78,600	300	8	0.169	2.58	6.68	3.04	7.29	19.60	4.42	27.06	51.09
Header - Draper (CL)	36' Rigid	355 hp	82,300	300	8	0.141	2.15	6.08	2.65	6.43	17.32	3.85	23.87	45.05
Header - Draper (CL)	40' Rigid	425 hp	86,900	300	8	0.126	1.93	6.55	2.52	6.27	17.29	3.66	23.29	44.25
Header - Draper (SL)	25' Rigid	325 hp	74,100	300	8	0.176	2.68	6.94	2.98	7.58	20.20	4.33	28.14	52.68
Header - Draper (SL)	30' Rigid	325 hp	78,600	300	8	0.146	2.23	5.79	2.64	6.32	16.99	3.83	23.45	44.27
Header - Draper (SL)	36' Rigid	355 hp	82,300	300	8	0.122	1.86	5.26	2.30	5.57	15.01	3.34	20.68	39.04
Header - Draper (SL)	40' Rigid	425 hp	86,900	300	8	0.110	1.67	5.67	2.19	5.44	14.98	3.17	20.18	38.35
Header -RiceStrp (CL)	20'	265 hp	50,600	300	8	0.253	3.87	8.17	3.21	10.33	25.59	4.50	38.36	68.46
Header -RiceStrp (CL)	24'	325 hp	54,000	300	8	0.211	3.23	8.35	2.85	9.11	23.55	4.00	33.82	61.38
Header -RiceStrp (CL)	32'	325 hp	60,800	300	8	0.158	2.42	6.26	2.41	6.83	17.93	3.37	25.37	46.68
Header -RiceStrp (SL)	20'	265 hp	50,600	300	8	0.220	3.35	7.08	2.78	8.96	22.18	3.90	33.25	59.33
Header -RiceStrp (SL)	24'	325 hp	54,000	300	8	0.183	2.79	7.23	2.47	7.90	20.41	3.46	29.31	53.20
Header -RiceStrp (SL)	32'	325 hp	60,800	300	8	0.137	2.09	5.42	2.09	5.92	15.54	2.92	21.98	40.46
Header -Soybean	22' Flex	265 hp	33,800	300	8	0.116	1.77	3.73	0.98	4.72	11.21	1.37	17.54	30.14
Header -Soybean	25' Flex	325 hp	37,000	300	8	0.102	1.56	4.03	0.94	4.40	10.94	1.32	16.33	28.60
Header -Soybean	30' Flex	325 hp	44,700	300	8	0.085	1.30	3.36	0.95	3.66	9.28	1.33	13.61	24.23
Header -Soybean	35' Flex	355 hp	52,200	300	8	0.072	1.11	3.14	0.95	3.32	8.54	1.33	12.35	22.23
Header -Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.77	3.73	0.57	4.72	10.81	0.80	17.54	29.16
Header -Wheat/Sorghum	25' Rigid	325 hp	25,400	300	8	0.102	1.56	4.03	0.64	4.40	10.64	0.90	16.33	27.89
Header -Wheat/Sorghum	30' Rigid	325 hp	29,100	300	8	0.085	1.30	3.36	0.61	3.66	8.95	0.86	13.61	23.43
Land Plane	50'x16'	MFWD 190	11,100	200	10	0.151	2.31	3.50	0.33	0.97	7.12	0.82	5.75	13.71
Levee Pull & Seed	8 Blade	MFWD 170	12,000	100	10	0.003	0.05	0.07	0.00	0.01	0.15	0.04	0.10	0.30
Levee Pull (1m/80a)	8 blade	MFWD 170	8,760	100	10	0.003	0.05	0.07	0.00	0.01	0.15	0.03	0.10	0.29
Levee Splitter (1/80)	32"	MFWD 150	3,860	100	10	0.004	0.06	0.07	0.00	0.01	0.16	0.01	0.10	0.28
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	6.27	5.94	2.23	1.65	16.11	4.21	9.78	30.11
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	6.27	5.94	2.23	1.65	16.11	4.21	9.78	30.11
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	4.19	3.97	1.49	1.10	10.77	2.81	6.53	20.12
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	5.31	5.03	1.89	1.40	13.64	3.56	8.28	25.49
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	4.19	3.97	1.49	1.10	10.77	2.81	6.53	20.12
NT Grain Drill	10'	2WD 130	34,900	150	8	0.235	5.73	3.72	3.08	0.86	13.40	5.46	4.84	23.72
NT Grain Drill	12'	2WD 130	46,900	150	8	0.163	3.98	2.58	2.87	0.60	10.04	5.10	3.36	18.51
NT Grain Drill	15'	MFWD 150	56,900	150	8	0.130	3.18	2.38	2.79	0.58	8.95	4.95	3.28	17.18
NT Grain Drill	20'	MFWD 170	68,700	150	8	0.098	2.38	2.02	2.53	0.50	7.45	4.48	2.96	14.90
NT Grain Drill	24'	MFWD 190	98,000	150	8	0.081	1.99	1.88	3.00	0.52	7.41	5.33	3.10	15.85
NT Grain Drill	30'	MFWD 225	104,300	150	8	0.065	1.59	1.78	2.56	0.50	6.45	4.53	2.99	13.98
NT Grain Drill & Pre	10'	2WD 130	40,200	150	8	0.211	5.14	3.34	3.18	0.77	12.45	5.65	4.35	22.45
NT Grain Drill & Pre	12'	2WD 130	52,300	150	8	0.176	4.28	2.78	3.45	0.64	11.17	6.12	3.62	20.92
NT Grain Drill & Pre	15'	MFWD 150	62,200	150	8	0.141	3.43	2.56	3.28	0.63	9.92	5.82	3.53	19.28
NT Grain Drill & Pre	20'	MFWD 170	74,000	150	8	0.105	2.57	2.18	2.93	0.54	8.23	5.20	3.19	16.63
NT Grain Drill & Pre	24'	MFWD 190	103,000	150	8	0.088	2.14	2.03	3.40	0.56	8.15	6.03	3.34	17.52
NT Grain Drill & Pre	30'	MFWD 225	110,000	150	8	0.070	1.71	1.92	2.90	0.54	7.09	5.15	3.22	15.47
NT Plant&Pre-Folding	8R-38	MFWD 170	67,800	150	8	0.083	2.03	1.72	2.12	0.42	6.31	3.76	2.52	12.60
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.055	1.35	1.14	2.23	0.28	5.02	3.95	1.68	10.66
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.57	2.44	3.28	0.68	8.97	5.82	4.01	18.81
NT Plant&Pre-Folding	12R-30	MFWD 190	94,600	150	8	0.070	1.71	1.62	2.50	0.45	6.29	4.43	2.67	13.40
NT Plant&Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.055	1.35	1.28	2.23	0.35	5.23	3.95	2.11	11.30
NT Plant&Pre-Folding	16R-30	MFWD 190	142,000	150	8	0.052	1.28	1.22	2.81	0.34	5.66	4.99	2.00	12.66
NT Plant&Pre-Folding	23R-15	MFWD 190	192,000	150	8	0.073	1.78	1.69	5.28	0.47	9.24	9.37	2.78	21.40
NT Plant&Pre-Folding	24R-20	MFWD 190	214,000	150	8	0.052	1.28	1.22	4.24	0.34	7.09	7.52	2.00	16.61
NT Plant&Pre-Folding	24R-30	MFWD 190	223,000	150	8	0.035	0.85	0.81	2.94	0.22	4.84	5.22	1.33	11.41
NT Plant&Pre-Folding	31R-15	MFWD 225	232,000	150	8	0.054	1.32	1.49	4.75	0.42	8.00	8.42	2.49	18.92
NT Plant&Pre-Folding	32R-15	MFWD 225	230,000	150	8	0.052	1.28	1.44	4.56	0.40	7.70	8.08	2.41	18.20
NT Plant&Pre-Rigid	4R-30	2WD 130	33,800	150	8	0.211	5.14	3.34	2.68	0.77	11.94	4.75	4.35	21.04
NT Plant&Pre-Rigid	4R-38	2WD 130	34,800	150	8	0.166	4.05	2.63	2.17	0.61	9.46	3.85	3.42	16.74
NT Plant&Pre-Rigid	6R-30	MFWD 150	43,600	150	8	0.141	3.43	2.56	2.30	0.63	8.93	4.08	3.53	16.55
NT Plant&Pre-Rigid	6R-38	MFWD 150	42,700	150	8	0.111	2.70	2.02	1.78	0.49	7.01	3.15	2.78	12.96
NT Plant&Pre-Rigid	8R-30	MFWD 170	54,200	150	8	0.105	2.57	2.18	2.14	0.54	7.44	3.80	3.19	14.45
NT Plant&Pre-Rigid	8R-38	MFWD 170	52,100	150	8	0.083	2.03	1.72	1.63	0.42	5.82	2.89	2.52	11.24
NT Plant&Pre-Rigid	11R-15	MFWD 170	65,100	150	8	0.143	3.50	2.97	3.51	0.73	10.72	6.22	4.34	21.29
NT Plant&Pre-Rigid	11R-20	MFWD 170	64,300	150	8	0.115	2.81	2.38	2.78	0.59	8.57	4.93	3.49	17.01
NT Plant&Pre-Rigid	12R-20	MFWD 190	66,600	150	8	0.105	2.57	2.44	2.64	0.68	8.33	4.68	4.01	17.03
NT Plant&Pre-Rigid	12R-30	MFWD 190	86,500	150	8	0.070	1.71	1.62	2.28	0.45	6.08	4.05	2.67	12.81
NT Plant&Pre-Rigid	15R-15	MFWD 190	87,300	150	8	0.113	2.75	2.61	3.70	0.72	9.79	6.56	4.29	20.65
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.35	1.52	3.61	0.43	6.91	6.40	2.54	15.86
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	134,900	150	8	0.083	2.03	2.28	4.22	0.64	9.19	7.49	3.82	20.51
NT Plant-Folding	8R-38	MFWD 170	62,500	150	8	0.077	1.88	1.60	1.81	0.39	5.70	3.22	2.34	11.28
NT Plant-Folding	8R-38 2x1	MFWD 170	96,300	150	8	0.051	1.25	1.06	1.86	0.26	4.45	3.30	1.56	9.32
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.38	2.26	2.85	0.63	8.14	5.05	3.72	16.92
NT Plant-Folding	12R-30	MFWD 190	84,300	150	8	0.065	1.59	1.51	2.06	0.42	5.59	3.66	2.48	11.74
NT Plant-Folding	12R-38	MFWD 190	96,300	150	8	0.051	1.25	1.19	1.86	0.33	4.65	3.30	1.96	9.92
NT Plant-Folding	16R-30	MFWD 190	132,000	150	8	0.049	1.19	1.13	2.43	0.31	5.07	4.30	1.86	11.24
NT Plant-Folding	23R-15	MFWD 190	182,000	150	8	0.068	1.65	1.57	4.65	0.43	8.32	8.24	2.58	19.16
NT Plant-Folding	24R-20	MFWD 190	204,000	150	8	0.049	1.19	1.13	3.75	0.31	6.40	6.65	1.86	14.92
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.79	0.75	2.55	0.21	4.31	4.52	1.24	10.08
NT Plant-Folding	31R-15	MFWD 225	222,000	150	8	0.050	1.23	1.38	4.22	0.39	7.24	7.48	2.31	17.05

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant-Folding	32R-15	MFWD 225	219,000	150	8	0.049	1.19	1.34	4.03	0.38	6.95	7.14	2.24	16.34
NT Plant-Rigid	4R-30	2WD 130	28,400	150	8	0.196	4.77	3.10	2.09	0.72	10.69	3.70	4.04	18.44
NT Plant-Rigid	4R-38	2WD 130	29,500	150	8	0.154	3.76	2.44	1.71	0.56	8.48	3.03	3.18	14.69
NT Plant-Rigid	6R-30	MFWD 150	38,300	150	8	0.130	3.18	2.38	1.88	0.58	8.03	3.33	3.28	14.65
NT Plant-Rigid	6R-38	MFWD 150	37,300	150	8	0.103	2.51	1.88	1.44	0.46	6.30	2.56	2.58	11.45
NT Plant-Rigid	8R-30	MFWD 170	48,900	150	8	0.098	2.38	2.02	1.80	0.50	6.72	3.19	2.96	12.88
NT Plant-Rigid	8R-38	MFWD 170	46,800	150	8	0.077	1.88	1.60	1.36	0.39	5.25	2.41	2.34	10.01
NT Plant-Rigid	11R-15	MFWD 170	59,700	150	8	0.133	3.25	2.75	2.99	0.68	9.68	5.30	4.03	19.02
NT Plant-Rigid	11R-20	MFWD 170	59,000	150	8	0.107	2.61	2.21	2.37	0.55	7.75	4.20	3.24	15.20
NT Plant-Rigid	12R-20	MFWD 190	61,200	150	8	0.098	2.38	2.26	2.25	0.63	7.54	3.99	3.72	15.26
NT Plant-Rigid	12R-30	MFWD 190	76,200	150	8	0.065	1.59	1.51	1.87	0.42	5.39	3.31	2.48	11.19
NT Plant-Rigid	15R-15	MFWD 190	77,000	150	8	0.105	2.55	2.42	3.03	0.67	8.68	5.37	3.98	18.05
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.25	1.41	3.15	0.40	6.23	5.59	2.36	14.19
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	1.88	2.12	3.78	0.60	8.39	6.70	3.54	18.65
Peanut Cond. & Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.52	2.30	0.25	0.64	4.73	0.33	3.79	8.86
Peanut Conditioner	6-Row	MFWD 190	18,500	300	20	0.100	1.52	2.30	0.37	0.64	4.84	0.35	3.79	8.99
Peanut Dig/Invertor	4R-30	MFWD 190	38,600	300	15	0.235	3.60	5.44	2.26	1.51	12.82	2.50	8.95	24.28
Peanut Dig/Invertor	4R-38	MFWD 190	38,600	300	15	0.186	2.84	4.29	1.78	1.19	10.12	1.97	7.06	19.17
Peanut Dig/Invertor	6R-38	MFWD 190	54,700	300	15	0.124	1.89	2.86	1.19	0.79	6.74	1.86	4.70	13.32
Peanut Dump Cart	6-Row	MFWD 190	57,400	300	20	0.310	4.73	7.15	1.03	1.99	14.92	3.76	11.76	30.45
Peanut Harvester	4R-30	MFWD 225	160,000	300	20	0.849	12.97	23.23	7.70	6.58	50.50	25.74	38.83	115.08
Peanut Harvester	4R-38	MFWD 225	160,000	300	20	0.934	14.27	25.54	8.47	7.24	55.53	29.98	42.70	128.21
Peanut Harvester	6R-38	MFWD 225	175,000	300	20	0.625	9.54	17.08	5.28	4.84	36.75	21.92	28.55	87.24
Peanut Lifter	6-Row	MFWD 225	7,440	300	20	0.100	1.52	2.73	0.15	0.77	5.18	0.14	4.56	9.89
Peanut Plt&Pre Fold.	12R-38	MFWD 190	94,300	150	8	0.080	1.95	1.85	2.84	0.51	7.17	5.03	3.05	15.26
Peanut Plt&Pre Rigid	8R-30	MFWD 190	46,000	150	8	0.152	3.71	3.52	2.63	0.98	10.86	4.67	5.79	21.33
Peanut Plt&Pre Rigid	8R-38	MFWD 190	43,900	150	8	0.120	2.93	2.78	1.98	0.77	8.49	3.52	4.58	16.59
Peanut Plt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	2.93	2.78	5.75	0.77	12.25	10.19	4.58	27.03
Pipe Spool 160ac	1/4m roll	2WD 130	6,500	15	12	0.003	0.10	0.04	0.01	0.01	0.17	0.11	0.06	0.35
Pipe Trailer 1m/160a	30'	2WD 130	1,980	100	15	0.003	0.19	0.05	0.00	0.01	0.26	0.00	0.07	0.35
Plant & Pre-Folding	8R-38	MFWD 170	59,600	150	8	0.080	1.95	1.65	1.79	0.41	5.81	3.17	2.42	11.42
Plant & Pre-Folding	8R-38 2x1	MFWD 170	94,300	150	8	0.053	1.30	1.10	1.88	0.27	4.56	3.34	1.61	9.53
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.47	2.34	2.68	0.65	8.15	4.76	3.85	16.77
Plant & Pre-Folding	12R-30	MFWD 190	82,400	150	8	0.067	1.64	1.56	2.09	0.43	5.73	3.70	2.56	12.01
Plant & Pre-Folding	12R-38	MFWD 190	94,300	150	8	0.053	1.30	1.23	1.88	0.34	4.76	3.34	2.02	10.14
Plant & Pre-Folding	16R-30	MFWD 190	126,000	150	8	0.050	1.23	1.17	2.39	0.32	5.13	4.25	1.92	11.31
Plant & Pre-Folding	23R-15	MFWD 190	169,000	150	8	0.070	1.71	1.62	4.46	0.45	8.26	7.91	2.67	18.86
Plant & Pre-Folding	24R-20	MFWD 190	190,000	150	8	0.050	1.23	1.17	3.61	0.32	6.35	6.41	1.92	14.68
Plant & Pre-Folding	24R-30	MFWD 190	198,000	150	8	0.033	0.82	0.78	2.51	0.21	4.33	4.45	1.28	10.07
Plant & Pre-Folding	31R-15	MFWD 225	200,000	150	8	0.052	1.27	1.43	3.93	0.40	7.05	6.97	2.39	16.42
Plant & Pre-Folding	32R-15	MFWD 225	197,000	150	8	0.050	1.23	1.38	3.75	0.39	6.76	6.64	2.31	15.73
Plant & Pre-Rigid	4R-30	2WD 130	29,700	150	8	0.203	4.94	3.20	2.26	0.74	11.15	4.00	4.17	19.34
Plant & Pre-Rigid	4R-38	2WD 130	30,800	150	8	0.159	3.89	2.52	1.84	0.58	8.84	3.27	3.28	15.41
Plant & Pre-Rigid	6R-30	MFWD 150	37,500	150	8	0.135	3.29	2.46	1.90	0.60	8.26	3.37	3.39	15.03
Plant & Pre-Rigid	6R-38	MFWD 150	36,600	150	8	0.106	2.60	1.94	1.46	0.47	6.49	2.59	2.67	11.76
Plant & Pre-Rigid	8R-30	MFWD 170	46,000	150	8	0.101	2.47	2.09	1.75	0.52	6.83	3.10	3.06	13.01
Plant & Pre-Rigid	8R-38	MFWD 170	43,900	150	8	0.080	1.95	1.65	1.32	0.41	5.34	2.34	2.42	10.11
Plant & Pre-Rigid	11R-15	MFWD 170	53,900	150	8	0.148	3.60	3.06	2.99	0.75	10.42	5.30	4.47	20.21
Plant & Pre-Rigid	11R-20	MFWD 170	53,100	150	8	0.110	2.69	2.29	2.20	0.56	7.76	3.91	3.35	15.03
Plant & Pre-Rigid	12R-20	MFWD 190	54,300	150	8	0.101	2.47	2.34	2.06	0.65	7.53	3.66	3.85	15.05
Plant & Pre-Rigid	12R-30	MFWD 190	74,200	150	8	0.067	1.64	1.56	1.88	0.43	5.52	3.33	2.56	11.43
Plant & Pre-Rigid	15R-15	MFWD 190	72,000	150	8	0.108	2.64	2.50	2.93	0.69	8.78	5.19	4.12	18.09
Plant & Pre-TwinRow	12R-30/40	MFWD 225	160,700	150	8	0.053	1.30	1.46	3.22	0.41	6.39	5.70	2.44	14.54
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	1.95	2.19	3.82	0.62	8.59	6.77	3.66	19.03
Plant - Folding	8R-38	MFWD 170	54,300	150	8	0.074	1.81	1.53	1.51	0.38	5.25	2.68	2.25	10.19
Plant - Folding	8R-38 2x1	MFWD 170	84,000	150	8	0.049	1.20	1.02	1.56	0.25	4.04	2.77	1.49	8.31
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.29	2.17	2.30	0.60	7.38	4.08	3.57	15.04
Plant - Folding	12R-30	MFWD 190	72,100	150	8	0.062	1.52	1.45	1.69	0.40	5.08	3.01	2.38	10.48
Plant - Folding	12R-38	MFWD 190	84,000	150	8	0.049	1.20	1.14	1.56	0.31	4.23	2.77	1.88	8.88
Plant - Folding	16R-30	MFWD 190	115,000	150	8	0.047	1.14	1.08	2.03	0.30	4.57	3.60	1.78	9.96
Plant - Folding	23R-15	MFWD 190	158,000	150	8	0.065	1.59	1.51	3.87	0.42	7.40	6.87	2.48	16.76
Plant - Folding	24R-20	MFWD 190	179,000	150	8	0.047	1.14	1.08	3.16	0.30	5.70	5.60	1.78	13.09
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.76	0.72	2.16	0.20	3.86	3.84	1.19	8.89
Plant - Folding	31R-15	MFWD 225	190,000	150	8	0.048	1.18	1.33	3.47	0.37	6.36	6.15	2.22	14.74
Plant - Folding	32R-15	MFWD 225	187,000	150	8	0.047	1.14	1.28	3.30	0.36	6.10	5.85	2.15	14.11
Plant - Rigid	4R-30	2WD 130	24,400	150	8	0.188	4.58	2.97	1.72	0.69	9.98	3.05	3.87	16.91
Plant - Rigid	4R-38	2WD 130	25,400	150	8	0.148	3.61	2.34	1.41	0.54	7.91	2.50	3.05	13.47
Plant - Rigid	6R-30	MFWD 150	32,200	150	8	0.125	3.05	2.29	1.51	0.56	7.42	2.69	3.14	13.26
Plant - Rigid	6R-38	MFWD 150	31,200	150	8	0.099	2.41	1.80	1.16	0.44	5.82	2.05	2.48	10.37
Plant - Rigid	8R-30	MFWD 170	40,700	150	8	0.094	2.29	1.94	1.43	0.48	6.16	2.55	2.84	11.56
Plant - Rigid	8R-38	MFWD 170	38,600	150	8	0.074	1.81	1.53	1.07	0.38	4.81	1.91	2.25	8.97
Plant - Rigid	11R-15	MFWD 170	48,500	150	8	0.137	3.34	2.84	2.50	0.70	9.39	4.43	4.15	17.99
Plant - Rigid	11R-20	MFWD 170	47,800	150	8	0.103	2.50	2.12	1.84	0.52	7.00	3.27	3.11	13.39
Plant - Rigid	12R-20	MFWD 190	49,000	150	8	0.094	2.29	2.17	1.73	0.60	6.80	3.07	3.57	13.45
Plant - Rigid	12R-30	MFWD 190	64,000	150	8	0.062	1.52	1.45	1.50	0.40	4.89	2.67	2.38	9.95
Plant - Rigid	15R-15	2WD 150	61,700	150	8	0.094	2.29	1.71	2.18	0.34	6.53	3.86	1.91	12.32
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.20	1.35	2.79	0.38	5.73	4.94	2.26	12.95
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	1.81	2.03	3.38	0.57	7.80	5.99	3.40	17.20
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	1.90	1.96	0.21	0.45	4.54	0.27	2.55	7.37

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (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-----							
Roller/Cultipacker	20'	MFWD 150	12,500	300	12	0.074	1.14	1.36	0.22	0.33	3.05	0.27	1.87	5.20
Roller/Cultipacker	30'	MFWD 170	16,900	300	12	0.049	0.75	1.02	0.19	0.25	2.24	0.25	1.50	3.99
Roller/Cultipacker	38'	MFWD 225	24,200	300	12	0.039	0.60	1.07	0.22	0.30	2.20	0.28	1.79	4.28
Roller/Stubble	20'	2WD 50	14,600	300	12	0.074	1.14	0.45	0.25	0.05	1.90	0.32	0.30	2.53
Roller/Stubble	32'	MFWD 225	24,500	300	12	0.046	0.71	1.27	0.26	0.36	2.61	0.34	2.13	5.09
Rotary Cutter	7'	MFWD 130	0	185	10	0.168	2.57	2.65	0.00	0.68	5.91	0.00	3.86	9.78
Rotary Cutter	12'	2WD 150	14,100	185	10	0.098	1.49	1.78	1.12	0.35	4.76	0.73	1.99	7.50
Rotary Cutter-Flex	15'	MFWD 150	21,800	185	10	0.078	1.19	1.43	1.38	0.35	4.37	0.91	1.96	7.24
Rotary Cutter-Flex	20'	MFWD 150	30,100	185	10	0.058	0.89	1.07	1.43	0.26	3.67	0.94	1.47	6.09
Row Cond & Inc-Fold.	26'	MFWD 190	29,200	100	10	0.063	1.25	1.46	0.46	0.40	3.59	1.82	2.40	7.82
Row Cond & Inc-Fold.	38'	MFWD 225	41,800	100	10	0.043	0.85	1.18	0.45	0.33	2.83	1.78	1.98	6.60
Row Cond & Inc-Rigid	13'	2WD 130	13,400	100	10	0.126	2.51	2.00	0.42	0.46	5.40	1.67	2.61	9.69
Row Cond & Inc-Rigid	21'	2WD 170	19,500	100	10	0.078	1.55	1.62	0.38	0.29	3.85	1.50	1.72	7.08
Row Cond & Inc-Rigid	26'	MFWD 190	23,900	100	10	0.026	0.52	0.61	0.15	0.17	1.47	0.62	1.00	3.10
Row Cond Folding	26'	MFWD 225	23,900	100	10	0.059	0.91	1.63	0.35	0.46	3.36	1.40	2.72	7.49
Row Cond Folding	38'	MFWD 225	31,500	100	10	0.040	0.62	1.11	0.32	0.31	2.37	1.26	1.86	5.51
Row Cond Rigid	13'	2WD 130	8,670	100	10	0.119	1.82	1.88	0.25	0.43	4.40	1.01	2.45	7.88
Row Cond Rigid	21'	2WD 170	14,200	100	10	0.073	1.12	1.52	0.26	0.27	3.19	1.03	1.62	5.84
Row Cond Rigid	26'	MFWD 190	18,600	100	10	0.059	0.91	1.37	0.27	0.38	2.95	1.09	2.26	6.31
Row Cond./Roll-Fol	30'	MFWD 190	46,200	160	10	0.062	0.95	1.44	0.72	0.40	3.52	1.77	2.37	7.66
Row Cond./Roll-Fold.	26'	MFWD 190	26,500	160	10	0.072	1.10	1.66	0.47	0.46	3.70	1.17	2.73	7.61
Row Cond./Roll-Rigid	40'	MFWD 225	34,000	160	10	0.046	0.71	1.28	0.39	0.36	2.75	0.97	2.14	5.88
Row Cond./Roll-Rig	21'	MFWD 190	25,800	160	10	0.089	1.36	2.06	0.57	0.57	4.57	1.41	3.38	9.37
Row Cond./Roll-Rig	26'	MFWD 190	28,400	160	10	0.072	1.10	1.66	0.51	0.46	3.74	1.25	2.73	7.73
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.02	0.97	0.34	0.27	2.60	0.64	1.59	4.84
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	5.15	0.51	0.08	0.49	6.25	0.09	1.84	8.19
Spray (ATV)	20'	800 CC	1,690	200	8	0.084	1.67	0.16	0.06	0.16	2.07	0.07	0.59	2.74
Spray (Band)	27' Fold	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Band)	40' Fold	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Band)	50' Fold	MFWD 170	9,160	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Band)	60' Fold	MFWD 170	14,700	200	8	0.028	0.55	0.58	0.19	0.14	1.48	0.21	0.85	2.55
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,500	200	8	0.130	2.57	2.37	0.51	0.58	6.05	0.58	3.26	9.89
Spray (Bcast/HB)	20' Rigid	MFWD 150	9,960	200	8	0.084	1.67	1.54	0.39	0.37	3.99	0.44	2.11	6.55
Spray (Bcast/HB)	27' Fold	MFWD 170	16,100	200	8	0.062	1.24	1.29	0.47	0.32	3.32	0.53	1.89	5.75
Spray (Bcast/HB)	27' Rigid	MFWD 170	11,700	200	8	0.062	1.24	1.29	0.34	0.32	3.20	0.38	1.89	5.47
Spray (Bcast/HB)	30' Fold	MFWD 170	17,100	200	8	0.056	1.11	1.16	0.45	0.28	3.02	0.50	1.70	5.23
Spray (Bcast/HB)	40' Fold	MFWD 170	19,900	200	8	0.042	0.83	0.87	0.39	0.21	2.32	0.44	1.27	4.04
Spray (Broadcast)	27'	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Broadcast)	40'	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Broadcast)	50'	MFWD 170	9,200	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Broadcast)	60'	MFWD 170	14,700	200	8	0.028	0.55	0.58	0.19	0.14	1.48	0.21	0.85	2.55
Spray (Direct/Hood)	8R-30	MFWD 170	17,800	200	8	0.084	1.67	1.74	0.70	0.43	4.56	0.79	2.55	7.91
Spray (Direct/Hood)	8R-38	MFWD 170	18,700	200	8	0.066	1.32	1.38	0.58	0.34	3.63	0.65	2.02	6.31
Spray (Direct/Hood)	12R-30	MFWD 170	24,900	200	8	0.056	1.11	1.16	0.65	0.28	3.22	0.73	1.70	5.67
Spray (Direct/Hood)	12R-38	MFWD 170	26,100	200	8	0.044	0.88	0.91	0.54	0.22	2.57	0.61	1.34	4.53
Spray (Direct/Layby)	8R-30	MFWD 170	15,500	200	8	0.084	1.67	1.74	0.61	0.43	4.47	0.68	2.55	7.71
Spray (Direct/Layby)	8R-38	MFWD 170	15,500	200	8	0.066	1.32	1.38	0.48	0.34	3.53	0.54	2.02	6.10
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	22,900	200	8	0.044	0.88	0.91	0.47	0.22	2.50	0.53	1.34	4.38
Spray (Direct/Layby)	12R-30	MFWD 170	22,900	200	8	0.056	1.11	1.16	0.60	0.28	3.17	0.67	1.70	5.55
Spray (Direct/Layby)	12R-38	MFWD 170	22,900	200	8	0.044	0.88	0.91	0.47	0.22	2.50	0.53	1.34	4.38
Spray (Direct/Layby)	16R-20/30	MFWD 225	26,700	200	8	0.062	1.24	1.71	0.78	0.48	4.22	0.87	2.86	7.96
Spray (Levee Leaper)	50'	MFWD 225	13,400	200	8	0.033	0.67	0.92	0.21	0.26	2.07	0.23	1.54	3.85
Spray (Pull Type)	60'	MFWD 225	49,600	200	8	0.028	0.55	0.77	0.65	0.21	2.20	0.73	1.28	4.22
Spray (Pull Type)	80'	MFWD 225	53,300	200	8	0.021	0.41	0.57	0.52	0.16	1.68	0.59	0.96	3.24
Spray (Pull Type)	90'	MFWD 225	54,200	200	8	0.018	0.37	0.51	0.47	0.14	1.50	0.53	0.85	2.90
Spray (Pull Type)	120'	MFWD 225	84,300	200	8	0.014	0.27	0.38	0.55	0.10	1.33	0.62	0.64	2.59
Spray (Ropewick)	20'	MFWD 190	4,100	200	8	0.084	1.67	1.95	0.16	0.54	4.33	0.18	3.21	7.72
Spray (Spot)	27'	MFWD 170	5,300	200	8	0.062	1.24	1.29	0.15	0.32	3.01	0.17	1.89	5.08
Spray (Spot)	40'	MFWD 170	10,200	200	8	0.042	0.83	0.87	0.20	0.21	2.13	0.22	1.27	3.63
Spray (Spot)	50'	MFWD 170	9,200	200	8	0.033	0.67	0.69	0.14	0.17	1.68	0.16	1.02	2.87
Spray (Spot)	60'	MFWD 225	14,700	200	8	0.028	0.55	0.77	0.19	0.21	1.74	0.21	1.28	3.24
Stalk Shredder	14'	MFWD 150	18,400	200	10	0.117	1.79	2.14	1.89	0.52	6.37	1.06	2.95	10.39
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.25	1.50	2.38	0.36	5.52	1.34	2.06	8.93
Stalk Shredder-Flail	12'	MFWD 150	25,900	200	10	0.137	2.09	2.50	3.11	0.61	8.33	1.75	3.44	13.53
Stalk Shredder-Flail	15'	MFWD 150	26,000	200	10	0.110	1.67	2.00	2.50	0.49	6.67	1.40	2.75	10.83
Stalk Shredder-Flail	18'	MFWD 150	29,600	200	10	0.091	1.39	1.67	2.37	0.40	5.85	1.33	2.29	9.48
Stalk Shredder-Flail	20'	MFWD 150	31,700	200	10	0.082	1.25	1.50	2.28	0.36	5.42	1.28	2.06	8.77
Stalk Shredder-Flail	25'	MFWD 150	46,900	200	10	0.066	1.00	1.20	2.70	0.29	5.21	1.52	1.65	8.38
Strip Till	8R-38	MFWD 225	43,000	150	10	0.061	0.94	1.68	1.14	0.47	4.25	1.73	2.81	8.80
Strip Till	12R-30	MFWD 225	69,600	150	10	0.061	0.94	1.68	1.85	0.47	4.96	2.81	2.81	10.58
Strip Till	12R-40	MFWD 225	75,400	150	10	0.046	0.70	1.26	1.51	0.35	3.83	2.28	2.11	8.23
Subsoiler	3 shank	MFWD 190	6,500	100	15	0.204	3.12	4.71	0.44	1.31	9.59	0.99	7.75	18.34
Subsoiler	4 shank	MFWD 225	11,430	100	15	0.153	2.34	4.19	0.58	1.19	8.32	1.31	7.01	16.65
Subsoiler	5 shank	MFWD 225	14,630	100	15	0.122	1.86	3.34	0.59	0.94	6.75	1.34	5.59	13.69
Subsoiler low-till	6 shank	MFWD 225	20,000	100	15	0.102	1.56	2.79	0.68	0.79	5.82	1.53	4.66	12.02
Subsoiler low-till	8 shank	MFWD 225	21,400	100	15	0.076	1.16	2.09	0.54	0.59	4.39	1.22	3.49	9.12

Notes:

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

Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Apron Maxx RTA	oz	0.84
Agri-Dex	pt	1.75	Artisan	oz	0.23
AMS SuperMax	pt	3.81	Avaris	oz	1.68
Class Act NG	pt	4.75	Avicta Complete Bean	oz	0.26
Crop Oil Conc. (Pet.)	pt	2.86	Bravo Weather Stick	pt	4.12
Crop Oil Conc. (Veg.)	pt	2.90	Captan 50 WP	lb	6.59
Dyne-A-Pak	pt	4.13	Convoy	oz	1.17
Fire-Zone	pt	2.87	Cotton Seed Trt.	acre	20.00
Herbimax	pt	4.00	CruiserMaxx Vibrance	oz	4.60
Induce	pt	3.00	Elatus	oz	3.31
MSO	pt	4.38	Flint Extra	oz	8.75
Penetrator Plus	pt	2.58	Headline EC	oz	4.44
Surfactant	pt	3.30	Miravis Top	oz	1.34
CLEANING			Prior Xemium	oz	3.91
Cleaning Peanuts	ton	18.00	Propimax EC	pt	12.50
CROP CONSULTANT			Prosaro	oz	2.36
Corn Consultant	acre	6.00	Provost Optimum	oz	219.44
Cotton Consultant	acre	8.00	Quadris	oz	1.56
Peanut Consultant	acre	9.25	Quadris Top	oz	2.59
Rice Consultant	acre	8.00	Quadris Top SBX	oz	2.77
Sorghum Consultant	acre	6.00	Quilt	pt	20.23
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	24.10
Wheat Consultant	acre	5.50	Stratego	pt	23.93
CUSTOM FERTILIZE			Stratego YLD	oz	3.46
App Fert by Air	cwt	7.50	Tilt 3.6 EC	oz	0.90
App Fert by Air (Mi)	appl	7.50	Tilt/ Bravo SE	oz	0.72
Custom Apply Fert	acre	7.50	Trivapro	oz	1.50
CUSTOM LIME			GINNING		
Lime (Spread)	ton	59.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	7.50	Mepichlor 4.2%	oz	0.09
CUSTOM SPRAY			Mepiquat	oz	0.21
App by Air (3 gal)	appl	5.60	Mepstar 6	oz	0.08
App by Air (5 gal)	appl	7.00	Palisade	oz	1.20
App by Air (10 gal)	appl	9.30	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSB	oz	1.32
DRYING			Stance	oz	1.27
Dry Corn	bu	0.19	Veto	oz	0.06
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	1.00
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.73
Eradication	acre	1.00	Defol 5	gal	8.54
FERTILIZERS			Display	oz	10.23
Agrotain Ultra	pt	11.30	Ethephon 6E	pt	3.89
Amm Sulfate (21% N)	cwt	19.88	Finish 6	pt	11.74
Boron Plus	pt	4.64	Folex 6EC	pt	11.74
DAP	cwt	35.88	Freefall SC	oz	1.63
Fert 10-34-0	cwt	31.55	Ginstar EC	pt	27.59
Fert 10-34-0	gal	3.68	Gramoxone SL	oz	0.19
Fert 11-37-0	cwt	26.26	Sharpen	oz	5.99
Fert 41-0-0-4	cwt	18.22	Sodium Chlorate 5L	gal	8.54
Lime	ton	49.00	SuperBoll	oz	0.24
NBPT	pt	12.93	Thidiazuron 4lb	oz	2.07
Phosphorus (46% P2O5)	cwt	27.75	Tribufos 6lb	pt	11.74
Potash (60% K2O)	cwt	26.30	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	19.00	Haul Corn	bu	0.23
UAN (32%)	gal	2.10	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	18.45	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	2.05	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	28.63	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.40	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.96	2,4-D Amine 4	pt	2.64
Alfa Guard	lb	1.26	2,4-D Ester	pt	2.41
Allegiance Flowabl	oz	3.35	AAtrex 4L	pt	1.90
Ameristar Top	oz	2.51	Accent Q	oz	18.15
Approach Prima	pt	28.00	Acuron	oz	0.51

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	5.79	Harmony Extra SG	oz	10.86
Anthem Flex	oz	3.57	Helmet	oz	0.41
Anthem Maxx	oz	5.38	Huskie	oz	0.82
Armezon Pro	oz	0.92	Impact	oz	15.32
Atrazine 4L	pt	1.67	Intimidator	oz	0.64
Atrazine 90DF	lb	3.36	Leadoff	oz	6.00
Authority First	lb	68.23	League	oz	4.39
Authority Elite	pt	13.75	Lexar	pt	6.79
Authority Maxx	lb	68.82	Liberty 280	oz	0.59
Authority MTZ	lb	20.63	Loyant	oz	2.29
Avatar	pt	9.62	Makaze	oz	0.21
Avenger	pt	11.75	Metolachlor	pt	5.02
Axial XL	oz	1.10	Metribuzin 4L	pt	8.25
Axiom	oz	2.06	Metribuzin 75	lb	14.73
Banvel	pt	4.81	MSMA	pt	3.42
Barrage	pt	5.36	Newpath	oz	3.84
Basagran	pt	5.43	Obey	oz	1.01
Boundary	pt	10.45	Osprey	oz	4.00
Brake	oz	1.48	Outlook	pt	13.88
Broadaxe	pt	13.95	Panther Pro	oz	6.61
Broadhead	lb	58.21	Parallel	pt	4.01
Buccaneer Plus	pt	2.97	Paraquat	oz	0.16
Buctril	pt	4.28	Parazone 3SL	oz	0.18
Butyrac 200 (2,4-DB)	pt	2.90	Permit	oz	21.96
Cadre	oz	3.33	Permit Plus	oz	21.96
Canopy	oz	2.91	PowerFlex	oz	7.00
Caparol	pt	4.87	Preface	oz	4.99
Capreno	oz	3.96	Prefix	pt	6.17
Cinch	pt	14.18	Provisia	oz	0.76
Cinch ATZ	pt	5.96	Prowl 3.3 EC	pt	5.69
Clarity	pt	11.00	Quelex	oz	7.42
Classic	oz	12.00	RealmQ	oz	5.34
Clearpath	oz	4.06	RebelEx	oz	2.00
Clethodim 2E	oz	0.50	Reflex	pt	6.71
Clincher SF	oz	2.56	Regiment	oz	45.50
Cobra	oz	1.23	Resicore	oz	0.60
Command 3ME	pt	18.00	Resource	oz	2.11
Corvus	oz	4.69	RiceBeaux	pt	5.38
Cotoran	pt	5.79	Riceshot	pt	4.92
Cotton Pro	pt	3.45	Ricestar HT	pt	26.88
Dicamba	pt	6.35	Ringside	pt	5.63
Direx	pt	2.44	Roundup Power Max	oz	0.20
Diuron	pt	3.50	Roundup PowerMax	pt	3.24
Dual II Magnum	pt	11.15	Roundup PowerMax ii	oz	0.19
Dual Magnum	pt	10.02	Roundup Pro	pt	0.20
Duet	pt	6.22	Scepter 70 DG	oz	4.64
Engenia	oz	0.83	Select Max	pt	12.73
Envive	oz	4.06	Sencor/Tricor.Metrib	lb	23.95
Envoke	oz	0.80	Sequence	pt	5.72
Facet L	pt	14.83	Sharpen	oz	5.99
Fierce	oz	6.50	Sinister	pt	13.77
Fierce XLT	oz	3.91	Sonic	oz	4.04
Finesse	oz	12.45	Stalwart	pt	3.82
Firestorm	pt	3.44	Stam 80 EDF	lb	9.45
First Rate	oz	37.79	Stam M4	qt	10.83
Flexstar	pt	7.34	Staple LX	oz	7.89
Flexstar GT	pt	4.73	Storm	pt	11.16
Fusilade DX	oz	0.88	Strada	oz	5.88
Gambit	oz	16.50	Strada Pro	oz	6.56
Glyphosate 3lbs a.e	pt	1.81	Strada XT2	pt	3.26
Glyphosate 3lbs a.e	oz	0.11	Superwham	qt	10.07
Goal 2XL	pt	8.69	Suprend	lb	13.52
Gramoxone SL 2.0	oz	0.19	SureStart II	oz	0.39
Grandstand R	pt	17.79	Surveil	oz	6.70
Grasp	oz	12.07	Synchrony XP	oz	11.26
Grasp Xtra	oz	1.61	Tempest	pt	19.50
Halex GT	pt	5.82	Touchdown Total	qt	10.21
Halomax	oz	21.11	Treflan	pt	2.50

(continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	3.73	Malathion 8E	pt	9.84
Triflurex	pt	3.47	Mustang Max	oz	0.97
Ultra Blazer	pt	5.25	Nuprid 4F	oz	0.94
Valor EZ	oz	4.71	Oberon	oz	2.78
Valor SX	oz	3.60	Orthene 90	lb	11.15
Valor XLT	oz	3.45	Permethrin	oz	0.40
Vamos	pt	6.49	Portal XLO	oz	0.74
Verdict	oz	1.54	Pounce 25WP	lb	19.52
Veritas	pt	7.49	Prevathon	oz	1.05
Villain	pt	5.24	Python WDG	oz	19.80
Volunteer	pt	10.63	Radiant	oz	8.28
Warrant	pt	3.97	Sevin 4F	pt	56.11
XtendiMax	oz	0.42	Sevin XLR Plus	qt	16.01
Zidua DF	oz	8.76	Sivanto Prime	oz	3.24
Zidua SC	oz	4.93	Tempest	oz	1.70
INOCULANT			Transform WG	oz	7.63
Inoculant-Soybean	acre	1.55	Up-Cyde	oz	0.36
Optimize LIFT	oz	0.50	Warrior ZT	oz	2.74
INSECTICIDES			Zeal	oz	8.42
Abamectin .15EC	oz	1.75	IRRIGATION SUPPLIES		
Acephate 90%	lb	9.87	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	8.58	SEED/PLANTS		
Admire Pro	oz	1.57	Corn Seed BtRR	thous	3.75
Agri-Mek	oz	2.66	Corn Seed Conv.	thous	1.93
Asana .66 XL	oz	0.63	Corn Seed Op Leptra	thous	3.66
Avenger	oz	0.28	Corn Seed RR2	thous	3.25
Baythroid XL	oz	1.04	Corn Seed VT2P	thous	3.63
Belt	oz	6.80	Cot. Seed B3XF/W3FE	thous	2.59
Besiege	oz	2.38	Cotton Seed B3XF	thous	2.59
Bidrin 8EC	oz	1.34	Cotton Seed GLB2	thous	2.05
Bifenthrin	oz	0.86	Cotton Seed W3FE	thous	2.59
Bifenture 2EC	oz	0.51	Cotton Seed W3RF	thous	1.98
Brigade EC	pt	18.77	Peanut Seed	lb	0.84
Capture LFR	oz	1.37	Rice Conv Hyb Trt	lb	6.60
Centric 40WG	oz	4.97	Rice Fullpage Hyb Tr	lb	7.37
Cypermethrin	oz	1.31	Rice Seed CF(Levees)	lb	1.03
Declare	oz	1.95	Rice Seed Clearfield	lb	1.03
Diamond .83EC	oz	1.28	Rice Seed Conv.	lb	0.32
Dimethoate 4E	pt	5.65	Rice Seed Cv(Levees)	lb	0.32
Dimilin 2L	oz	1.70	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	1.53	Rice Seed FPH(Levee)	lb	2.67
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.25
Hero	oz	1.09	Rice Seed Trt/Insect	lbseed	0.29
Imidacloprid 4F	oz	0.78	Sorghum Concept	lb	3.10
Imidan 70 WSB	oz	0.79	Sorghum Concept+ Po	lb	3.72
IncidentalPestTrt \$8	acre	8.00	Soybean Enlist E3	lb	1.20
IncidentalPestTrt\$15	acre	15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$22	acre	22.00	Soybean Seed RR2	lb	1.16
IncidentalPestTrt\$30	acre	30.00	Soybean Seed RR2X	lb	1.34
Intrepid 2F	oz	1.91	Wheat Seed Private	lb	0.28
Intruder 70WSP	oz	1.13	SOIL TEST		
Lambda	oz	1.88	Soil Test	acre	10.00
Lannate LV	pt	9.30	SURVEY & MARK LEVEES		
Macho	oz	0.47	Survey & Mark Levees	acre	4.50
			Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2022

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	2.36
Gasoline	gal	2.81
INTEREST RATES		
Short-term	%	3.50
Intermediate-term	%	4.00

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2022

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	15.27
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, 2022

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '22	5.31	-0.14	5.17	2.35	5.17
Cotton Lint	lb	Dec '22	0.87	-0.016	0.8544	0.52	0.8544
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				4.91	4.09	4.91
Peanuts	ton				430.00	354.89	430.00
Soybeans	bu	Nov '22	12.45	0.01	12.46	6.41	12.46
Rice	bu	Nov '22	6.16	-0.36	5.80	3.21	5.80
Wheat	bu	Jul '22	7.44	0.16	7.28	3.60	7.28

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2021 for the stated contract months.

^b 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 2020 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.

^c 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.

^d Average Mississippi County CCC Loan Rate for 2021 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2020 Farm-stored Loan Rate for long grain rough rice. National 2021 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

^f Cottonseed price is the average marketing year price over the years 2008-2021.

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, 2022

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'		0.88	0.32	0.58		0.01	1.79	1.65	3.44
Set Up Engine										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Ditcher (1m/160a)			0.19	0.07	0.14		0.01	0.41	0.31	0.72
Roll-Out Pipe	ft	7.92					0.12	8.04		8.04
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.26	0.11	0.42		0.01	0.80	0.85	1.65
IRRIGATE LABOR	hour				1.81		0.03	1.84		1.84
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.39	0.17	0.63		0.01	1.20	1.27	2.47
Land Forming (\$450)	each								28.81	28.81
Well & Pump, Furrow	each			2.96			0.04	3.00	7.88	10.88
Main Line Pipe	each								4.36	4.36
Engine, RPF, 75	each								8.23	8.23
June Irrigation	ac-in		6.73	1.40			0.12	8.25		8.25
July Irrigation	ac-in		6.73	1.40			0.09	8.22		8.22
August Irrigation	ac-in		6.73	1.40			0.07	8.20		8.20
TOTALS		7.92	21.91	7.83	4.50	0.00	0.51	42.67	53.36	96.03

Note: Cost of production estimates are based on 2021 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, 2022

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				0.27	0.27
Maintenance										
IRRIGATE LABOR	hour				1.07		0.02		1.09	1.09
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Apply Water										
IRRIGATE LABOR	hour				0.20				0.20	0.20
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Pivot, 1/4 CP	each			13.48			0.20	13.68	49.60	63.28
Well & Pump, 1/4 CP	each			3.50			0.05	3.55	9.34	12.89
Engine, 1/4 CP, 65	each								9.76	9.76
June Irr. 3app@.75"	ac-in		7.93	1.49			0.14	9.56		9.56
July Irr. 4app@.75"	ac-in		10.57	1.99			0.15	12.71		12.71
Aug Irr. 3app@.75"	ac-in		7.93	1.49			0.08	9.50		9.50
TOTALS		0.00	26.43	21.95	1.84	0.00	0.64	50.86	68.70	119.56

Note: Cost of production estimates are based on 2021 input prices.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968."
4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2021 Planning Budgets." Budget Report No. 2020-03, Department of Agricultural Economics, Mississippi State University, October 2020.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2021 Planning Budgets." Budget Report No. 2020-01, Department of Agricultural Economics, Mississippi State University, October 2020.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2022 Planning Budgets." Budget Report No. 2021-08, Department of Agricultural Economics, Mississippi State University, April 2021.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Peanuts 2021 Planning Budgets." Budget Report No. 2020-07, Department of Agricultural Economics, Mississippi State University, October 2020.
16. "Rice 2021 Planning Budgets." Budget Report No. 2020-04, Department of Agricultural Economics, Mississippi State University, October 2020.
17. "Soybeans 2021 Planning Budgets." Budget Report No. 2020-02, Department of Agricultural Economics, Mississippi State University, October 2020.
18. United States Department of Agriculture Farm Service Agency. *Commodity Loan Rates*. <https://www.fsa.usda.gov/programs-and-services/price-support/commodity-loan-rates/index>. Accessed October 22, 2021.
19. "Vegetables 2018 Planning Budgets." Budget Report No. 2017-09, Department of Agricultural Economics, Mississippi State University December 2017.



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