

COTTON 2024 PLANNING BUDGETS

**Mississippi State University
Department of Agricultural Economics
Budget Report 2023-01**

November 2023

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 2024 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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Table of Contents

	Page
Foreword.....	i
Acknowledgments.....	i
2024 Budget Committees.....	ii
2024 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, conversation 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 B3XF, 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

2024 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 2023. (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:

IIR = Capital recovery factor

IIR = Intermediate-term interest rate

TYL = Total years of life

$$\begin{aligned} CRCPY &= [(RLC - SV) \times CRF] \\ &\quad + (SV \times IIR) \end{aligned}$$

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 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	34.3582	137.43	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Engenia	oz	0.80	25.6000	20.48	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	
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	65.00	0.6660	43.29	
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	17.94	0.3993	7.16	
Self-Propelled	hour	17.94	0.2075	3.72	
HAND LABOR					
implements	hour	9.06	0.1235	1.11	
Self-Propelled	hour	9.06	0.1899	1.71	
UNALLOCATED LABOR					
hour	17.91	0.4855	8.70		
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	
Self-Propelled	gal	3.44	4.8836	16.78	
REPAIR & MAINTENANCE					
implements	acre	10.79	1.0000	10.79	
Tractors	acre	4.47	1.0000	4.47	
Self-Propelled	acre	25.96	1.0000	25.96	
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				932.22	
FIXED EXPENSES					
implements	acre	19.47	1.0000	19.47	
Tractors	acre	34.46	1.0000	34.46	
Self-Propelled	acre	126.29	1.0000	126.29	
TOTAL FIXED EXPENSES				180.22	
TOTAL SPECIFIED EXPENSES				1112.44	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	11.0501	38.01	_____
REPAIR & MAINTENANCE	acre	41.22	1.0000	41.22	_____
INTEREST ON OP. CAP.	acre	33.21	1.0000	33.21	_____

TOTAL DIRECT EXPENSES				932.22	_____
RETURNS ABOVE DIRECT EXPENSES				209.34	_____
TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1112.44	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				29.12	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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) UAN (32%)	12R-38 gal	MFWD 300	0.051	1.00	Apr		17.1791	0.05	0.05	0.07	0.04
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) UAN (32%)	12R-38 gal	MFWD 300	0.051	1.00	Jun		17.1791	0.05	0.05	0.07	0.04
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				
Incidental Pest Trt \$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				
Ethepron 6E	pt						2.0000				
App by Air (5 gal)	appl			0.50	Sep		0.5000				
Tribufos 6lb	pt						0.5000				
Ethepron 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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60
UAN (32%)	gal	68.72					3.31	72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	68.72					2.36	71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	132.00					0.91	132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
TOTALS		797.38	38.01	41.22	22.40	0.00	33.21	932.22
								180.22
								1112.44

Note: Cost of production estimates are based on 2023 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, 2024

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	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	4.23	3.97	0.00	0.00	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	9.07	4.42	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	228.87	132.56	63.59	38.29	28.63	192.15
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-228.87	-132.56	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-477.00	-609.56	-673.15	-711.44	-740.07	209.34

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-326 -506	-302 -482	-278 -458	-254 -434	-229 -410	-205 -386	-181 -362	-157 -337	-133 -313	-109 -289	-85 -265
60	720.00	lb	-267 -447	-238 -418	-209 -389	-180 -360	-151 -331	-122 -303	-93 -274	-65 -245	-36 -216	-7 -187	21 -158
70	840.00	lb	-208 -388	-174 -354	-140 -321	-107 -287	-73 -253	-39 -220	-6 -186	27 -152	61 -118	95 -85	128 -51
80	960.00	lb	-149 -329	-110 -291	-72 -252	-33 -214	4 -175	43 -136	81 -98	120 -59	158 -21	197 17	235 55
90	1080.00	lb	-90 -270	-47 -227	-3 -183	39 -140	82 -97	126 -53	169 -10	212 32	256 76	299 119	343 162
100	1200.00	lb	-31 -211	16 -163	64 -115	113 -67	161 -19	209 29	257 77	305 125	353 173	402 221	450 269
110	1320.00	lb	27 -152	80 -99	133 -46	186 6	239 59	292 112	345 165	398 218	451 271	504 324	557 377
120	1440.00	lb	86 -93	144 -35	202 21	259 79	317 137	375 195	433 253	491 310	548 368	606 426	664 484
130	1560.00	lb	145 -34	208 27	270 90	333 153	395 215	458 278	521 340	583 403	646 466	708 528	771 591
140	1680.00	lb	204 24	271 91	339 158	406 226	474 293	541 361	608 428	676 496	743 563	811 631	878 698
150	1800.00	lb	263 83	335 155	407 227	480 299	552 372	624 444	696 516	769 588	841 661	913 733	985 805

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 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
			dollars	dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.7500	39.50	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	34.3582	137.43	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Engenia	oz	0.80	25.6000	20.48	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90SP	lb	8.25	0.5000	4.13	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Centric 40WG	oz	5.95	2.0000	11.90	
Acephate 90%	lb	8.25	1.5000	12.38	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	
Transform WG	oz	9.34	1.5000	14.01	
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	51.0000	3.57	
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	65.00	0.6660	43.29	
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	17.94	0.5025	9.02	
Self-Propelled	hour	17.94	0.2075	3.72	
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	17.93	0.5052	9.06		
DIESEL FUEL					
Tractors	gal	3.44	7.2737	25.04	
Self-Propelled	gal	3.44	4.8836	16.78	
Roll-Out Pipe Irr.	gal	3.44	8.5535	29.43	
REPAIR & MAINTENANCE					
Implements	acre	11.75	1.0000	11.75	
Tractors	acre	5.29	1.0000	5.29	
Self-Propelled	acre	25.96	1.0000	25.96	
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	
INTEREST ON OP. CAP.	acre	35.15	1.0000	35.15	
TOTAL DIRECT EXPENSES				-----	1033.93
FIXED EXPENSES					
Implements	acre	23.82	1.0000	23.82	
Tractors	acre	40.82	1.0000	40.82	
Self-Propelled	acre	126.29	1.0000	126.29	
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	
TOTAL FIXED EXPENSES				-----	265.40
TOTAL SPECIFIED EXPENSES				-----	1299.33

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____
TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.57	1.0000	3.57	_____
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	43.29	1.0000	43.29	_____
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	17.94	0.7101	12.74	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL	gal	3.44	20.7109	71.25	_____
REPAIR & MAINTENANCE	acre	50.16	1.0000	50.16	_____
INTEREST ON OP. CAP.	acre	35.15	1.0000	35.15	_____
TOTAL DIRECT EXPENSES				1033.93	_____
RETURNS ABOVE DIRECT EXPENSES				393.02	_____
TOTAL FIXED EXPENSES				265.40	_____
TOTAL SPECIFIED EXPENSES				1299.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				127.62	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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
Bed/Disk (Hipper)	12R-38	MFWD	300	0.049	1.00	Nov			0.04	0.04	0.04
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) UAN (32%)	12R-38 gal	MFWD	300	0.051	1.00	Apr	17.1791		0.05	0.05	0.07
Row Cond Folding	38'	MFWD	300	0.040	1.00	May			0.04	0.04	0.04
Plant - Folding	12R-38	MFWD	300	0.049	1.00	May			0.04	0.04	0.09
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
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
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
Bidrin 8EC	oz						3.2000				
Fert Appl (Liquid) UAN (32%)	12R-38 gal	MFWD	300	0.051	1.00	Jun	17.1791		0.05	0.05	0.07
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
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				
Ethepron 6E	pt						2.0000				
App by Air (5 gal)	appl				0.50	Sep	0.5000				
Tribufos 6lb	pt						0.5000				
Ethepron 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
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.27	3.60	3.60
Lime (Spread)	ton	43.29					3.57	46.86	46.86
Custom Apply Fert	acre	7.50					0.62	8.12	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98
Bed/Disk (Hipper)	12R-38			2.62	1.96	1.60	0.51	6.69	8.91
App by Air (5 gal)	appl	8.11					0.45	8.56	8.56
Clarity	pt	7.15					0.39	7.54	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44	8.44
Select Max	pt	15.01					0.83	15.84	15.84
Surfactant	pt	0.66					0.04	0.70	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96
UAN (32%)	gal	68.72					3.31	72.03	72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70
Plant - Folding	12R-38			2.64	2.35	2.05	0.29	7.33	8.61
Cotton Seed B3XF	thous	117.00					4.83	121.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Gramoxone SL 2.0	oz	15.84					0.65	16.49	16.49
Cotoran	pt	10.48					0.43	10.91	10.91
Surfactant	pt	0.66					0.03	0.69	0.69
Cotton Consultant	acre	8.00					0.33	8.33	8.33
Eradication	acre	1.00					0.04	1.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Engenia	oz	10.24					0.42	10.66	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33	8.33
Dual Magnum	pt	10.75					0.44	11.19	11.19
Acephate 90SP	lb	4.13					0.17	4.30	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Bidrin 8EC	oz	4.83					0.17	5.00	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96
UAN (32%)	gal	68.72					2.36	71.08	71.08
App by Air (3 gal)	appl	6.87					0.19	7.06	7.06
Diamond .83EC	oz	7.56					0.21	7.77	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15	1.15
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.14	5.27	4.76
Engenia	oz	10.24					0.28	10.52	10.52
Glyphosate 3lbs a.e	oz	8.00					0.22	8.22	8.22
Dual Magnum	pt	10.75					0.30	11.05	11.05
Mepiquat Chloride	oz	1.33					0.04	1.37	1.37
Centric 40WG	oz	11.90					0.33	12.23	12.23
App by Air (3 gal)	appl	6.87					0.19	7.06	7.06
Acephate 90%	lb	6.19					0.17	6.36	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15	1.15
Bifenthrin	oz	3.58					0.10	3.68	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77	1.77
Lambda	oz	0.39					0.01	0.40	0.40
Bidrin 8EC	oz	3.02					0.08	3.10	3.10
Incidental Pest									
App by Air (3 gal)	appl	10.31					0.28	10.59	10.59
IncidentalPestTrt\$15	acre	22.50					0.62	23.12	23.12
App by Air (3 gal)	appl	6.87					0.14	7.01	7.01
Acephate 90%	lb	6.19					0.13	6.32	6.32
Bifenthrin	oz	3.58					0.07	3.65	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01	7.01
Transform WG	oz	14.01					0.29	14.30	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66	2.66
Ethepron 6E	pt	6.76					0.09	6.85	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12	4.12
Tribufos 6lb	pt	5.63					0.08	5.71	5.71
Ethepron 6E	pt	1.06					0.01	1.07	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31
Gin & Haul	lb	165.00					1.13	166.13	166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21	9.51
Roll-Out Pipe Irr.	acre	7.92	31.93	7.96	4.71		1.48	54.00	80.72
TOTALS		849.45	71.25	50.16	27.92	0.00	35.15	1033.93	265.40 1299.33

Note: Cost of production estimates are based on 2023 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, 2024

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	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	0.00	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.83	56.72	23.78	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	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	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	43.29	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	3.33	0.00	0.00	0.00	0.00	1.90	4.46	4.99	1.87	0.23	0.68	10.46
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	5.48	0.00	0.00	0.00	0.00	2.75	5.83	13.73	12.18	9.81	0.56	20.91
REPAIR & MAINTENANCE	4.51	0.00	0.00	0.00	0.00	1.65	3.64	6.44	2.52	1.40	0.19	29.81
INTEREST ON OP. CAP.	10.04	0.00	0.00	0.00	2.15	3.61	9.08	3.67	3.63	1.00	0.41	1.56
TOTAL DIRECT EXPENSES	131.78	0.00	0.00	0.00	41.08	78.63	229.11	110.30	135.25	49.96	30.08	227.74
NET INCOME	-131.78	0.00	0.00	0.00	-41.08	-78.63	-229.11	-110.30	-135.25	-49.96	-30.08	1199.21
NET INCOME TO DATE	-131.78	-131.78	-131.78	-131.78	-172.86	-251.49	-480.60	-590.90	-726.15	-776.11	-806.19	393.02

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		PERCENT	PRODUCT PRICE										
			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT YIELD UNIT													
			dollars										
50	750.00	lb	-276 -541	-246 -511	-216 -481	-186 -451	-156 -421	-126 -391	-95 -361	-65 -331	-35 -301	-5 -270	24 -240
60	900.00	lb	-202 -468	-166 -432	-130 -395	-94 -359	-58 -323	-22 -287	13 -251	50 -215	86 -179	122 -143	158 -106
70	1050.00	lb	-129 -394	-86 -352	-44 -310	-2 -268	39 -225	81 -183	123 -141	165 -99	208 -57	250 -15	292 26
80	1200.00	lb	-55 -320	-7 -272	40 -224	89 -176	137 -128	185 -79	233 -31	281 16	329 64	378 112	426 160
90	1350.00	lb	18 -247	72 -192	126 -138	180 -84	235 -30	289 23	343 78	397 132	451 186	505 240	560 294
100	1500.00	lb	91 -173	152 -113	212 -53	272 7	332 67	393 127	453 187	513 248	573 308	633 368	694 428
110	1650.00	lb	165 -99	231 -33	298 32	364 98	430 165	496 231	563 297	629 363	695 430	761 496	827 562
120	1800.00	lb	239 -26	311 46	383 118	456 190	528 262	600 335	672 407	745 479	817 551	889 624	961 696
130	1950.00	lb	313 47	391 125	469 204	547 282	626 360	704 439	782 517	860 595	939 673	1017 752	1095 830
140	2100.00	lb	386 121	471 205	555 289	639 374	723 458	808 542	892 627	976 711	1061 795	1145 880	1229 964
150	2250.00	lb	460 195	550 285	641 375	731 466	821 556	912 646	1002 736	1092 827	1183 917	1273 1007	1363 1098

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 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	_____
App by Air (3 gal)	appl	6.87	5.7500	39.50	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	34.3582	137.43	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	5.2000	7.85	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	1.26	6.0000	7.56	_____
Imidacloprid 4F	oz	0.79	2.0000	1.58	_____
Bifenthrin	oz	0.56	12.8000	7.17	_____
Lambda	oz	0.39	1.0000	0.39	_____
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	9.34	1.5000	14.01	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.3993	7.16	_____
Self-Propelled	hour	17.94	0.2075	3.72	_____
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		17.91	0.4855	8.70	_____
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	_____
Self-Propelled	gal	3.44	4.8836	16.78	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.79	1.0000	10.79	_____
Tractors	acre	4.47	1.0000	4.47	_____
Self-Propelled	acre	25.96	1.0000	25.96	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	35.58	1.0000	35.58	_____
TOTAL DIRECT EXPENSES					
				1040.85	_____
FIXED EXPENSES					
Implements	acre	19.47	1.0000	19.47	_____
Tractors	acre	34.46	1.0000	34.46	_____
Self-Propelled	acre	126.29	1.0000	126.29	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES					
				279.72	_____
TOTAL SPECIFIED EXPENSES					
				1320.57	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	22.2512	76.54	_____
REPAIR & MAINTENANCE	acre	63.17	1.0000	63.17	_____
INTEREST ON OP. CAP.	acre	35.58	1.0000	35.58	_____

TOTAL DIRECT EXPENSES				1040.85	_____
RETURNS ABOVE DIRECT EXPENSES				386.10	_____
TOTAL FIXED EXPENSES				279.72	_____

TOTAL SPECIFIED EXPENSES				1320.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				106.38	_____

Note: Cost of production estimates are based on 2023 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.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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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				1.50	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				
Etephon 6E	pt						2.0000				
App by Air (5 gal)	appl			0.50	Sep		0.5000				
Tribufos 6lb	pt						0.5000				
Etephon 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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60
UAN (32%)	gal	68.72					3.31	72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
Plant - Folding	12R-38			2.64	2.35	2.05	0.29	7.33
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	68.72					2.36	71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	10.31					0.28	10.59
IncidentalPestTrt\$15	acre	22.50					0.62	23.12
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	165.00					1.13	166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17
TOTALS		841.32	76.54	63.17	24.24	0.00	35.58	1040.85
								279.72
								1320.57

Note: Cost of production estimates are based on 2023 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, 2024

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	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	44.82	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	5.57	4.12	0.20	0.15	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	17.19	15.41	11.56	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	21.45	1.99	1.49	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	9.12	5.46	2.49	1.04	0.39	1.54
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	230.26	163.78	92.92	51.76	28.63	225.37
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-230.26	-163.78	-92.92	-51.76	-28.63	1201.58
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-478.39	-642.17	-735.09	-786.85	-815.48	386.10

Note: Cost of production estimates are based on 2023 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 irrig.,
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT YIELD UNIT dollars													
50	750.00	lb	-283 -563	-253 -533	-223 -502	-193 -472	-163 -442	-132 -412	-102 -382	-72 -352	-42 -322	-12 -292	17 -262
60	900.00	lb	-209 -489	-173 -453	-137 -417	-101 -381	-65 -344	-29 -308	6 -272	43 -236	79 -200	115 -164	151 -128
70	1050.00	lb	-136 -415	-93 -373	-51 -331	-9 -289	32 -247	74 -205	116 -162	158 -120	201 -78	243 -36	285 5
80	1200.00	lb	-62 -342	-14 -293	33 -245	82 -197	130 -149	178 -101	226 -53	274 -4	322 43	371 91	419 139
90	1350.00	lb	11 -268	65 -214	119 -159	173 -105	228 -51	282 2	336 56	390 110	444 165	499 219	553 273
100	1500.00	lb	85 -194	145 -134	205 -74	265 -14	325 46	386 106	446 166	506 226	566 287	626 347	687 407
110	1650.00	lb	158 -120	224 -54	291 11	357 77	423 143	489 210	556 276	622 342	688 408	754 475	821 541
120	1800.00	lb	232 -47	304 24	376 97	449 169	521 241	593 313	665 386	738 458	810 530	882 603	954 675
130	1950.00	lb	306 26	384 104	462 182	540 261	619 339	697 417	775 496	854 574	932 652	1010 730	1088 809
140	2100.00	lb	379 100	464 184	548 268	632 353	717 437	801 521	885 605	969 690	1054 774	1138 858	1222 943
150	2250.00	lb	453 173	543 264	634 354	724 444	814 535	905 625	995 715	1085 806	1176 896	1266 986	1356 1076

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 2023 input prices.

Table 4.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	25.4000	101.60	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Engenia	oz	0.80	25.6000	20.48	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	
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	65.00	0.6660	43.29	
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	17.94	0.2712	4.87	
Self-Propelled	hour	17.94	0.2075	3.72	
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	
Self-Propelled	hour	9.06	0.1899	1.71	
UNALLOCATED LABOR					
hour	17.93	0.3830	6.87		
DIESEL FUEL					
Tractors	gal	3.44	4.1890	14.42	
Self-Propelled	gal	3.44	4.8836	16.78	
REPAIR & MAINTENANCE					
Implements	acre	7.38	1.0000	7.38	
Tractors	acre	3.04	1.0000	3.04	
Self-Propelled	acre	25.96	1.0000	25.96	
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				877.10	
FIXED EXPENSES					
Implements	acre	12.08	1.0000	12.08	
Tractors	acre	23.41	1.0000	23.41	
Self-Propelled	acre	126.29	1.0000	126.29	
TOTAL FIXED EXPENSES				161.78	
TOTAL SPECIFIED EXPENSES				1038.88	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	155.90	1.0000	155.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.4788	8.59	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL	gal	3.44	9.0726	31.20	_____
REPAIR & MAINTENANCE	acre	36.38	1.0000	36.38	_____
INTEREST ON OP. CAP.	acre	29.91	1.0000	29.91	_____

TOTAL DIRECT EXPENSES				877.10	_____
RETURNS ABOVE DIRECT EXPENSES				264.46	_____
TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1038.88	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				102.68	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov	0.3330					
Lime (Spread)	ton			0.33	Nov	0.6660					
Custom Apply Fert	acre			1.00	Nov	1.0000					
Potash (60% K2O)	cwt					1.5000					
App by Air (5 gal)	appl			1.00	Mar	1.0000					
Clarity	pt					0.5000					
Glyphosate 3lbs a.e	oz					32.0000					
Select Max	pt					1.0000					
Surfactant	pt					0.2000					
Row Cond Folding	38'	MFWD	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	0.00
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					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					
Incidental Pest Trt\$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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	101.60					3.49	105.09
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
Incidental Pest Trt \$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethephon 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	132.00					0.91	132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
TOTALS		761.54	31.20	36.38	18.07	0.00	29.91	877.10
								161.78
								1038.88

Note: Cost of production estimates are based on 2023 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, 2024

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	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	101.60	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	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	4.32	3.97	0.00	0.00	0.00	9.78
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	5.94	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.98	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	2.15	0.00	9.09	5.55	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	41.08	0.00	229.43	166.57	63.59	38.29	28.63	192.15
NET INCOME	-117.36	0.00	0.00	0.00	-41.08	0.00	-229.43	-166.57	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-158.44	-158.44	-387.87	-554.44	-618.03	-656.32	-684.95	264.46

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-271 -432	-247 -408	-223 -384	-198 -360	-174 -336	-150 -312	-126 -288	-102 -264	-78 -240	-54 -216	-30 -192
60	720.00	lb	-212 -374	-183 -345	-154 -316	-125 -287	-96 -258	-67 -229	-38 -200	-9 -171	18 -142	47 -113	76 -84
70	840.00	lb	-153 -315	-119 -281	-85 -247	-52 -213	-18 -180	15 -146	49 -112	82 -79	116 -45	150 -11	183 22
80	960.00	lb	-94 -256	-55 -217	-17 -179	21 -140	59 -101	98 -63	136 -24	175 13	213 52	252 90	291 129
90	1080.00	lb	-35 -197	8 -153	51 -110	94 -67	138 -23	181 19	224 62	268 106	311 149	354 193	398 236
100	1200.00	lb	23 -138	71 -89	119 -41	168 6	216 54	264 102	312 150	360 199	408 247	457 295	505 343
110	1320.00	lb	82 -79	135 -26	188 26	241 79	294 132	347 185	400 238	453 291	506 344	559 397	612 450
120	1440.00	lb	141 -20	199 37	257 95	314 153	372 210	430 268	488 326	546 384	603 442	661 499	719 557
130	1560.00	lb	200 38	263 101	325 163	388 226	450 289	513 351	576 414	638 477	701 539	764 602	826 664
140	1680.00	lb	259 97	326 165	394 232	461 299	529 367	596 434	664 502	731 569	798 637	866 704	933 772
150	1800.00	lb	318 156	390 228	462 301	535 373	607 445	679 517	751 590	824 662	896 734	968 806	1040 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 2023 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	32.5498	130.20	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Engenia	oz	0.80	25.6000	20.48	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	1.3400	7.97	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	30.0000	78.00	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	42.7200	2.99	
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	65.00	0.6660	43.29	
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	17.94	0.8159	14.63	
Self-Propelled	hour	17.94	0.1958	3.51	
HAND LABOR					
Implement	hour	9.06	0.3181	2.87	
Self-Propelled	hour	9.06	0.1840	1.66	
UNALLOCATED LABOR					
hour	17.92	0.8094	14.51		
DIESEL FUEL					
Tractors	gal	3.44	12.6003	43.36	
Self-Propelled	gal	3.44	3.4035	11.70	
REPAIR & MAINTENANCE					
Implement	acre	14.47	1.0000	14.47	
Tractors	acre	9.12	1.0000	9.12	
Self-Propelled	acre	10.03	1.0000	10.03	
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				854.17	
FIXED EXPENSES					
Implement	acre	27.91	1.0000	27.91	
Tractors	acre	70.41	1.0000	70.41	
Self-Propelled	acre	49.34	1.0000	49.34	
TOTAL FIXED EXPENSES				147.66	
TOTAL SPECIFIED EXPENSES				1001.83	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	811.0000	651.07	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				771.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	184.50	1.0000	184.50	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	114.46	1.0000	114.46	_____
INSECTICIDES	acre	78.03	1.0000	78.03	_____
SEED/PLANTS	acre	78.00	1.0000	78.00	_____
GROWTH REGULATORS	acre	2.99	1.0000	2.99	_____
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	43.29	1.0000	43.29	_____
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	17.94	1.0118	18.14	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL	gal	3.44	16.0039	55.06	_____
REPAIR & MAINTENANCE	acre	33.62	1.0000	33.62	_____
INTEREST ON OP. CAP.	acre	30.86	1.0000	30.86	_____

TOTAL DIRECT EXPENSES				854.17	_____
RETURNS ABOVE DIRECT EXPENSES				-82.65	_____
TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-230.31	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	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						1.0000				
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	8R-38 2x1		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	8R-38 2x1			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.31	6.67
UAN (32%)	gal	65.10					3.13	68.23
Row Cond Folding	38'			2.17	0.87	1.32	0.18	4.54
Plant - Folding	8R-38 2x1			2.64	2.35	2.05	0.29	7.33
Cotton Seed B3XF	thous	78.00					3.22	81.22
Cotton Seed Trt.	acre	13.40					0.55	13.95
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.22	6.58
UAN (32%)	gal	65.10					2.24	67.34
Spray (Direct/Layby)	8R-38 2x1		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	7.97					0.27	8.24
Mepiquat Chloride	oz	0.75					0.03	0.78
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Ethepron 6E	pt	1.06					0.01	1.07
Tribufos 6lb	pt	5.63					0.08	5.71
Cotton Picker	4R2x1(350)		10.68	9.61	7.12		0.19	27.60
Boll Buggy	4R2x1(350)		9.15	3.23	5.56		0.12	18.06
Module Builder	4R2x1(350)			9.15	3.41	7.12	0.14	19.82
Gin & Haul	lb	89.21					0.61	89.82
Stalk Shredder-Flail	15'			5.84	4.54	3.55	0.10	14.03
TOTALS		697.45	55.06	33.62	37.18	0.00	30.86	854.17
								147.66
								1001.83

Note: Cost of production estimates are based on 2023 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, 2024

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	771.52
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	65.10	0.00	65.10	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	30.16	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	12.80	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	78.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	4.23	5.18	0.00	0.00	0.00	23.35
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	7.49	0.00	0.00	0.00	34.82
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.71	3.64	3.95	0.00	0.00	0.00	20.79
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.44	7.18	4.29	1.70	0.77	0.39	1.16
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	74.90	181.38	128.55	63.59	38.29	28.63	169.33
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-74.90	-181.38	-128.55	-63.59	-38.29	-28.63	602.19
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-244.40	-425.78	-554.33	-617.92	-656.21	-684.84	-82.65

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		PERCENT											
		75	80	85	90	95	100	105	110	115	120		
		PRODUCT PRICE											
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT YIELD UNIT dollars													
50	405.50	lb	-444 -592	-428 -576	-412 -559	-395 -543	-379 -527	-363 -510	-346 -494	-330 -478	-314 -462	-298 -445	-281 -429
60	486.60	lb	-404 -552	-385 -532	-365 -513	-346 -493	-326 -474	-307 -454	-287 -435	-268 -415	-248 -396	-229 -376	-209 -357
70	567.70	lb	-364 -512	-342 -489	-319 -467	-296 -444	-273 -421	-251 -398	-228 -375	-205 -353	-182 -330	-159 -307	-137 -284
80	648.80	lb	-325 -472	-299 -446	-273 -420	-246 -394	-220 -368	-194 -342	-168 -316	-142 -290	-116 -264	-90 -238	-64 -212
90	729.90	lb	-285 -432	-255 -403	-226 -374	-197 -345	-168 -315	-138 -286	-109 -257	-80 -227	-50 -198	-21 -169	7 -139
100	811.00	lb	-245 -393	-212 -360	-180 -327	-147 -295	-115 -262	-82 -230	-50 -197	-17 -165	15 -132	47 -100	80 -67
110	892.10	lb	-205 -353	-169 -317	-133 -281	-98 -245	-62 -209	-26 -174	9 -138	45 -102	80 -66	116 -30	152 4
120	973.20	lb	-165 -313	-126 -274	-87 -235	-48 -196	-9 -157	29 -118	68 -78	107 -39	146 -0	185 38	224 77
130	1054.30	lb	-125 -273	-83 -231	-41 -188	1 -146	43 -104	85 -61	128 -19	170 22	212 65	255 107	297 149
140	1135.40	lb	-86 -233	-40 -188	5 -142	50 -96	96 -51	141 -5	187 39	233 85	278 130	324 176	369 222
150	1216.50	lb	-46 -193	2 -145	51 -96	100 -47	149 1	197 50	246 99	295 147	344 196	393 245	442 294

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 2023 input prices.

Table 6.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.9288	16.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
DIESEL FUEL					
Tractors	gal	3.44	14.3433	49.32	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	14.48	1.0000	14.48	_____
Tractors	acre	10.37	1.0000	10.37	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				825.22	_____
FIXED EXPENSES					
Implements	acre	27.22	1.0000	27.22	_____
Tractors	acre	80.15	1.0000	80.15	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				181.43	_____
TOTAL SPECIFIED EXPENSES				1006.65	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1000.0000	802.80	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				951.30	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5801	5.23	_____
OPERATOR LABOR	hour	17.94	1.2010	21.53	_____
UNALLOCATED LABOR	hour	17.93	0.9608	17.23	_____
DIESEL FUEL	gal	3.44	18.7642	64.49	_____
REPAIR & MAINTENANCE	acre	39.15	1.0000	39.15	_____
INTEREST ON OP. CAP.	acre	30.11	1.0000	30.11	_____

TOTAL DIRECT EXPENSES				825.22	_____
RETURNS ABOVE DIRECT EXPENSES				126.08	_____
TOTAL FIXED EXPENSES				181.43	_____

TOTAL SPECIFIED EXPENSES				1006.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-55.35	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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 600-825gal	90' 250hp			0.011	1.00	Mar		0.01	0.01	0.01	0.00
Clarity	pt					0.5000					
Glyphosate 3lbs a.e	oz					32.0000					
Surfactant	pt					0.2000					
Fert Appl (Liquid) UAN (32%)	8R-38 gal	MFWD	300	0.077	1.00	Apr	14.4666	0.07	0.07	0.11	0.06
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 600-825gal	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) UAN (32%)	8R-38 gal	MFWD	300	0.077	1.00	Jun	14.4666	0.07	0.07	0.11	0.06
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 600-825gal	90' 250hp			0.011	1.00	Jul		0.01	0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000					
Acephate 90%	lb					0.7500					
Incidental Pest					1.00	Jul					
Sprayer 600-825gal	90' 250hp			0.011				0.01	0.01	0.01	0.00
Incidental Pest Trt \$15	acre					1.0000					
Sprayer 600-825gal	90' 250hp			0.011	1.00	Aug		0.01	0.01	0.01	0.00
Acephate 90%	lb					0.7500					
Sprayer 600-825gal	90' 250hp			0.011	1.00	Sep		0.01	0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000					
Ethephon 6E	pt					2.0000					
Sprayer 600-825gal	90' 250hp			0.011	0.50	Sep		0.00	0.00	0.00	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							1.20	0.92	1.78	0.96	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	8R-38		4.29	2.97	2.61		0.81	10.68
Bed/Disk (Hipper) Rd	8R-38			1.97	0.74	1.19	0.32	4.22
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	8R-38		4.12	2.40	2.85		0.45	9.82
UAN (32%)	gal	57.87					2.78	60.65
Row Cond Rigid	26'			3.17	1.02	1.93	0.25	6.37
Plant - Folding	8R-38			3.96	2.78	3.09	0.41	10.24
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e.	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	8R-38		4.12	2.40	2.85		0.32	9.69
UAN (32%)	gal	57.87					1.99	59.86
Spray (Direct/Layby)	8R-38		3.55	1.36	2.46		0.25	7.62
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e.	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Incidental Pest Trt \$15	acre	15.00					0.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker	6R-38(355)		10.83	12.52	7.12		0.21	30.68
Boll Buggy	6R-38(355)		9.15	3.23	5.56		0.12	18.06
Module Builder	6R-38(355)			9.15	3.41	7.12	0.14	19.82
Gin & Haul	lb	110.00					0.76	110.76
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		647.48	64.49	39.15	43.99	0.00	30.11	825.22
								181.43
								1006.65

Note: Cost of production estimates are based on 2023 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, 2024

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	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	3.80	0.00	0.00	0.00	0.43	2.85	5.88	5.74	0.86	0.43	0.65	23.35
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	6.26	0.00	0.00	0.00	0.51	4.12	8.15	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	3.71	0.00	0.00	0.00	0.21	2.40	4.22	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	10.07	0.00	0.00	0.00	0.93	3.23	9.26	4.22	0.67	0.15	0.25	1.33
TOTAL DIRECT EXPENSES	132.26	0.00	0.00	0.00	17.89	70.47	233.61	126.82	25.28	7.49	18.05	193.35
NET INCOME	-132.26	0.00	0.00	0.00	-17.89	-70.47	-233.61	-126.82	-25.28	-7.49	-18.05	757.95
NET INCOME TO DATE	-132.26	-132.26	-132.26	-132.26	-150.15	-220.62	-454.23	-581.05	-606.33	-613.82	-631.87	126.08

Note: Cost of production estimates are based on 2023 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 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-320 -501	-300 -481	-280 -461	-260 -441	-240 -421	-219 -401	-199 -381	-179 -361	-159 -341	-139 -321	-119 -301
60	600.00	lb	-271 -452	-247 -428	-222 -404	-198 -380	-174 -356	-150 -332	-126 -308	-102 -283	-78 -259	-54 -235	-30 -211
70	700.00	lb	-222 -403	-193 -375	-165 -347	-137 -319	-109 -291	-81 -262	-53 -234	-25 -206	2 -178	30 -150	58 -122
80	800.00	lb	-172 -354	-140 -322	-108 -290	-76 -257	-44 -225	-12 -193	19 -161	51 -129	84 -97	116 -65	148 -33
90	900.00	lb	-123 -305	-87 -269	-51 -232	-15 -196	20 -160	56 -124	93 -88	129 -52	165 -16	201 19	237 56
100	1000.00	lb	-74 -256	-34 -215	5 -175	45 -135	85 -95	126 -55	166 -15	206 24	246 65	286 105	326 145
110	1100.00	lb	-25 -206	18 -162	62 -118	106 -74	151 -30	195 13	239 58	283 102	327 146	371 190	416 234
120	1200.00	lb	23 -157	71 -109	119 -61	168 -13	216 34	264 83	312 131	360 179	408 227	457 275	505 323
130	1300.00	lb	72 -108	124 -56	177 -4	229 47	281 100	333 152	385 204	438 256	490 308	542 360	594 413
140	1400.00	lb	121 -59	178 -3	234 52	290 109	346 165	402 221	459 277	515 333	571 390	627 446	683 502
150	1500.00	lb	171 -10	231 49	291 110	351 170	411 230	472 290	532 350	592 411	652 471	712 531	773 591

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 2023 input prices.

Table 7.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.7365	13.20	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.8069	14.47	_____	
DIESEL FUEL					
Tractors	gal	3.44	11.3731	39.10	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				745.68	_____
FIXED EXPENSES					
Implements	acre	20.11	1.0000	20.11	_____
Tractors	acre	63.55	1.0000	63.55	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				157.72	_____
TOTAL SPECIFIED EXPENSES				903.40	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	900.0000	722.52	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				856.17	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	127.90	1.0000	127.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5444	4.90	_____
OPERATOR LABOR	hour	17.94	1.0087	18.08	_____
UNALLOCATED LABOR	hour	17.93	0.8069	14.47	_____
DIESEL FUEL	gal	3.44	15.7941	54.27	_____
REPAIR & MAINTENANCE	acre	33.39	1.0000	33.39	_____
INTEREST ON OP. CAP.	acre	26.23	1.0000	26.23	_____

TOTAL DIRECT EXPENSES				745.68	_____
RETURNS ABOVE DIRECT EXPENSES				110.49	_____
TOTAL FIXED EXPENSES				157.72	_____

TOTAL SPECIFIED EXPENSES				903.40	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-47.23	_____

Note: Cost of production estimates are based on 2023 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, 2024

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				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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)	8R-38	MFWD 300	0.077	1.00	Jun			0.07	0.07	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun			0.06	0.06	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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 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	0.13
Module Builder	6R-38(355)	MFWD 300	0.172	1.00	Oct			0.17	0.17	0.34
Gin & Haul	lb			1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct			0.11	0.11	0.08
TOTALS								1.00	0.73	1.55
										0.80

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Row Cond Rigid	26'			3.17	1.02	1.93	0.25	6.37
NT Plant-Folding	8R-38			4.12	3.13	3.20	0.43	10.88
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e.	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	8R-38			4.12	2.40	2.85	0.32	9.69
UAN (32%)	gal	73.60					2.53	76.13
Spray (Direct/Layby)	8R-38			3.55	1.36	2.46	0.25	7.62
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e.	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker	6R-38(355)		10.83	12.52	7.12		0.21	30.68
Boll Buggy	6R-38(355)		9.15	3.23	5.56		0.12	18.06
Module Builder	6R-38(355)		9.15	3.41	7.12		0.14	19.82
Gin & Haul	lb	99.00					0.68	99.68
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		594.34	54.27	33.39	37.45	0.00	26.23	745.68
								157.72
								903.40

Note: Cost of production estimates are based on 2023 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, 2024

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	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	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	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	0.43	0.00	5.99	5.74	0.86	0.43	0.65	23.35
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	0.51	0.00	8.31	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	4.57	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.28	4.76	0.67	0.15	0.25	1.25
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	234.25	143.09	25.28	7.49	18.05	182.27
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-234.25	-143.09	-25.28	-7.49	-18.05	673.90
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-369.50	-512.59	-537.87	-545.36	-563.41	110.49

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		75	80	85	90	95	PERCENT						
							PRODUCT	PRICE					
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT	YIELD	UNIT											
							dollars						
50	450.00	lb	-291 -448	-273 -430	-255 -412	-237 -394	-218 -376	-200 -358	-182 -340	-164 -322	-146 -304	-128 -286	-110 -268
60	540.00	lb	-247 -404	-225 -383	-203 -361	-181 -339	-160 -318	-138 -296	-116 -274	-95 -253	-73 -231	-51 -209	-30 -187
70	630.00	lb	-202 -360	-177 -335	-152 -309	-126 -284	-101 -259	-76 -234	-51 -208	-25 -183	-0 -158	24 -132	50 -107
80	720.00	lb	-158 -316	-129 -287	-100 -258	-71 -229	-42 -200	-14 -171	14 -142	43 -113	72 -85	101 -56	130 -27
90	810.00	lb	-114 -272	-81 -239	-49 -207	-16 -174	15 -142	48 -109	80 -77	113 -44	145 -11	178 20	210 53
100	900.00	lb	-70 -227	-34 -191	2 -155	38 -119	74 -83	110 -47	146 -11	182 25	218 61	254 97	291 133
110	990.00	lb	-25 -183	13 -143	53 -104	93 -64	133 -24	172 15	212 54	252 94	291 134	331 174	371 213
120	1080.00	lb	18 -139	61 -96	105 -52	148 -9	191 33	235 77	278 120	321 164	365 207	408 250	451 294
130	1170.00	lb	62 -95	109 -48	156 -1	203 45	250 92	297 139	344 186	391 233	438 280	485 327	532 374
140	1260.00	lb	106 -50	157 -0	207 50	258 100	309 151	359 201	410 252	460 303	511 353	561 404	612 454
150	1350.00	lb	150 -6	205 47	259 101	313 155	367 210	421 264	476 318	530 372	584 426	638 480	692 535

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 2023 input prices.

Table 8.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.5592	10.03	_____	
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.					
	acre	29.17	1.0000	29.17	_____
TOTAL DIRECT EXPENSES				787.41	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				191.83	_____
TOTAL SPECIFIED EXPENSES				979.24	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1000.0000	802.80	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				951.30	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3458	3.10	_____
OPERATOR LABOR	hour	17.94	0.6990	12.53	_____
UNALLOCATED LABOR	hour	17.93	0.5592	10.03	_____
DIESEL FUEL	gal	3.44	12.2980	42.28	_____
REPAIR & MAINTENANCE	acre	42.82	1.0000	42.82	_____
INTEREST ON OP. CAP.	acre	29.17	1.0000	29.17	_____

TOTAL DIRECT EXPENSES				787.41	_____
RETURNS ABOVE DIRECT EXPENSES				163.89	_____
TOTAL FIXED EXPENSES				191.83	_____

TOTAL SPECIFIED EXPENSES				979.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-27.94	_____

Note: Cost of production estimates are based on 2023 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, 2024

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 Potash (60% K2O)	acre			1.00	Nov	1.0000				
	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 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Apr	14.4666	0.05	0.05	0.07	0.04
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 Eradication	acre			1.00	May	1.0000				
	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) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Jun	14.4666	0.05	0.05	0.07	0.04
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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
Incidental Pest Trt \$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	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	0.08
TOTALS						0.69	0.42	1.04	0.55	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	DIRECT COST	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	43.29						3.57	46.86		46.86
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Potash (60% K2O)	cwt	54.30						4.48	58.78		58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73			0.59	7.73	8.98	16.71
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79		0.25	3.33	4.45	7.78
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.06	1.21	1.66	2.87
Clarity	pt	7.15						0.39	7.54		7.54
Glyphosate 3lbs a.e	oz	8.00						0.44	8.44		8.44
Surfactant	pt	0.66						0.04	0.70		0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90			0.30	6.60	5.96	12.56
UAN (32%)	gal	57.87						2.78	60.65		60.65
Row Cond Folding	38'		2.17	0.87	1.32			0.18	4.54	5.70	10.24
Plant - Folding	12R-38			2.64	2.35	2.05		0.29	7.33	8.61	15.94
Cotton Seed B3XF	thous	117.00						4.83	121.83		121.83
Cotton Seed Trt.	acre	20.00						0.83	20.83		20.83
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.05	1.20	1.66	2.86
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Cotoran	pt	10.48						0.43	10.91		10.91
Surfactant	pt	0.66						0.03	0.69		0.69
Cotton Consultant	acre	8.00						0.33	8.33		8.33
Eradication	acre	1.00						0.04	1.04		1.04
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.05	1.20	1.66	2.86
Engenia	oz	10.24						0.42	10.66		10.66
Glyphosate 3lbs a.e	oz	8.00						0.33	8.33		8.33
Dual Magnum	pt	10.75						0.44	11.19		11.19
Acephate 90%	lb	4.13						0.17	4.30		4.30
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.04	1.19	1.66	2.85
Bidrin 8EC	oz	4.83						0.17	5.00		5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90			0.22	6.52	5.96	12.48
UAN (32%)	gal	57.87						1.99	59.86		59.86
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64			0.18	5.31	4.76	10.07
Engenia	oz	10.24						0.35	10.59		10.59
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Dual Magnum	pt	10.75						0.37	11.12		11.12
Centric 40WG	oz	11.90						0.41	12.31		12.31
Mepiquat Chloride	oz	1.12						0.04	1.16		1.16
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.03	1.18	1.66	2.84
Mepiquat Chloride	oz	1.12						0.03	1.15		1.15
Acephate 90%	lb	6.19						0.17	6.36		6.36
Incidental Pest											
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43			0.03	1.18	1.66	2.84
Incidental Pest Trt \$15	acre	15.00						0.41	15.41		15.41
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.02	1.17	1.66	2.83
Acephate 90%	lb	6.19						0.13	6.32		6.32
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43		0.02	1.17	1.66	2.83
Thidiazuron 4lb	oz	2.62						0.04	2.66		2.66
Ethepron 6E	pt	6.76						0.09	6.85		6.85
Sprayer 600-825gal	90' 250hp			0.26	0.10	0.22		0.01	0.59	0.83	1.42
Tribufos 6lb	pt	5.63						0.08	5.71		5.71
Ethepron 6E	pt	1.06						0.01	1.07		1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12			0.33	48.03	121.31	169.34
Gin & Haul	lb	110.00						0.76	110.76		110.76
Stalk Shredder-Flail	15'		5.84	4.54	3.55			0.10	14.03	11.99	26.02
TOTALS		647.48	42.28	42.82	25.66	0.00	29.17	787.41	191.83	979.24	

Note: Cost of production estimates are based on 2023 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, 2024

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	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	2.52	0.00	0.00	0.00	0.43	1.90	4.23	3.97	0.86	0.43	0.65	10.67
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	4.17	0.00	0.00	0.00	0.51	2.75	5.83	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	9.07	4.05	0.67	0.15	0.25	1.19
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	228.87	121.34	25.28	7.49	18.05	172.82
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-228.87	-121.34	-25.28	-7.49	-18.05	778.48
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-442.43	-563.77	-589.05	-596.54	-614.59	163.89

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
		PRODUCT PRICE											
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-282 -474	-262 -454	-242 -434	-222 -414	-202 -394	-182 -373	-162 -353	-141 -333	-121 -313	-101 -293	-81 -273
60	600.00	lb	-233 -425	-209 -401	-185 -377	-161 -352	-137 -328	-112 -304	-88 -280	-64 -256	-40 -232	-16 -208	7 -184
70	700.00	lb	-184 -376	-156 -347	-128 -319	-99 -291	-71 -263	-43 -235	-15 -207	12 -179	40 -151	68 -123	96 -95
80	800.00	lb	-135 -326	-102 -294	-70 -262	-38 -230	-6 -198	25 -166	57 -134	89 -102	121 -70	153 -37	186 -5
90	900.00	lb	-85 -277	-49 -241	-13 -205	22 -169	58 -133	94 -97	130 -61	166 -24	203 11	239 47	275 83
100	1000.00	lb	-36 -228	3 -188	43 -148	83 -108	123 -68	163 -27	204 12	244 52	284 92	324 132	364 172
110	1100.00	lb	12 -179	56 -135	100 -91	144 -47	188 -2	233 41	277 85	321 129	365 173	409 217	453 262
120	1200.00	lb	61 -130	109 -82	157 -34	205 14	254 62	302 110	350 158	398 206	446 254	494 303	543 351
130	1300.00	lb	110 -81	162 -29	214 23	267 75	319 127	371 179	423 231	475 284	528 336	580 388	632 440
140	1400.00	lb	159 -32	215 24	272 80	328 136	384 192	440 248	496 305	553 361	609 417	665 473	721 529
150	1500.00	lb	208 17	269 77	329 137	389 197	449 257	509 318	570 378	630 438	690 498	750 558	810 619

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 2023 input prices.

Table 9.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.2987	5.36	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.95	0.4567	8.20	_____	
DIESEL FUEL					
Tractors	gal	3.44	4.6137	15.88	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	7.52	1.0000	7.52	_____
Tractors	acre	3.35	1.0000	3.35	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.	acre	25.73	1.0000	25.73	_____
TOTAL DIRECT EXPENSES				714.85	_____
FIXED EXPENSES					
Implements	acre	12.19	1.0000	12.19	_____
Tractors	acre	25.78	1.0000	25.78	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				173.39	_____
TOTAL SPECIFIED EXPENSES				888.24	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	900.0000	722.52	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				856.17	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	127.90	1.0000	127.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3220	2.89	_____
OPERATOR LABOR	hour	17.94	0.5709	10.24	_____
UNALLOCATED LABOR	hour	17.95	0.4567	8.20	_____
DIESEL FUEL	gal	3.44	10.3205	35.47	_____
REPAIR & MAINTENANCE	acre	37.98	1.0000	37.98	_____
INTEREST ON OP. CAP.	acre	25.73	1.0000	25.73	_____

TOTAL DIRECT EXPENSES				714.85	_____
RETURNS ABOVE DIRECT EXPENSES				141.32	_____
TOTAL FIXED EXPENSES				173.39	_____

TOTAL SPECIFIED EXPENSES				888.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-32.07	_____

Note: Cost of production estimates are based on 2023 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, 2024

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				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
Incidental Pest Trt \$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 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						0.57	0.29	0.89	0.45	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e.	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	73.60					2.53	76.13
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e.	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Incidental Pest Trt \$15	acre	15.00					0.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	99.00					0.68	99.68
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		594.34	35.47	37.98	21.33	0.00	25.73	714.85
								173.39
								888.24

Note: Cost of production estimates are based on 2023 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, 2024

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	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	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	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	0.43	0.00	4.32	3.97	0.86	0.43	0.65	10.67
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	0.51	0.00	5.94	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	3.98	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.09	4.59	0.67	0.15	0.25	1.11
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	229.43	137.61	25.28	7.49	18.05	161.74
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-229.43	-137.61	-25.28	-7.49	-18.05	694.43
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-364.68	-502.29	-527.57	-535.06	-553.11	141.32

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-260 -433	-242 -415	-224 -397	-206 -379	-188 -361	-170 -343	-152 -325	-133 -307	-115 -289	-97 -271	-79 -253
60	540.00	lb	-216 -389	-194 -367	-172 -346	-151 -324	-129 -302	-107 -281	-86 -259	-64 -237	-42 -216	-21 -194	0 -172
70	630.00	lb	-171 -345	-146 -320	-121 -294	-96 -269	-70 -244	-45 -218	-20 -193	5 -168	30 -143	55 -117	80 -92
80	720.00	lb	-127 -301	-98 -272	-69 -243	-41 -214	-12 -185	16 -156	45 -127	74 -98	103 -69	132 -41	161 -12
90	810.00	lb	-83 -256	-51 -224	-18 -191	14 -159	46 -126	79 -94	111 -61	144 -29	176 3	209 35	241 68
100	900.00	lb	-39 -212	-3 -176	32 -140	69 -104	105 -68	141 -32	177 4	213 40	249 76	285 112	321 148
110	990.00	lb	4 -168	44 -128	84 -89	124 -49	163 -9	203 30	243 69	283 109	322 149	362 189	402 228
120	1080.00	lb	49 -124	92 -80	135 -37	179 5	222 49	265 92	309 135	352 179	395 222	439 265	482 309
130	1170.00	lb	93 -80	140 -33	187 13	234 60	281 107	328 154	375 201	422 248	469 295	516 342	562 389
140	1260.00	lb	137 -35	188 14	238 65	289 115	339 166	390 217	441 267	491 318	542 368	592 419	643 469
150	1350.00	lb	181 8	235 62	290 116	344 170	398 225	452 279	506 333	561 387	615 441	669 496	723 550

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 2023 input prices.

Table 10.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2780	4.99	_____
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	0.2251	2.02	_____
UNALLOCATED LABOR					
hour	17.92	0.5639	10.11	_____	
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7817	19.85	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.21	1.0000	27.21	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	31.40	1.0000	31.40	_____
TOTAL DIRECT EXPENSES				882.04	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	136.25	1.0000	136.25	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				292.16	_____
TOTAL SPECIFIED EXPENSES				1174.20	_____

Note: Cost of production estimates are based on 2023 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 variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	55.74	1.0000	55.74	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3487	3.13	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.7049	12.64	_____
UNALLOCATED LABOR	hour	17.92	0.5639	10.11	_____
DIESEL FUEL	gal	3.44	23.5740	81.07	_____
REPAIR & MAINTENANCE	acre	64.87	1.0000	64.87	_____
INTEREST ON OP. CAP.	acre	31.40	1.0000	31.40	_____

TOTAL DIRECT EXPENSES				882.04	_____
RETURNS ABOVE DIRECT EXPENSES				259.52	_____
TOTAL FIXED EXPENSES				292.16	_____

TOTAL SPECIFIED EXPENSES				1174.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-32.64	_____

Note: Cost of production estimates are based on 2023 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 variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	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 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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					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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.50	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.02	0.01
Incidental Pest Trt \$15	acre					1.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	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							0.70	0.42	1.25	0.56

Note: Cost of production estimates are based on 2023 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 variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60
UAN (32%)	gal	57.87					2.78	60.65
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33
Cotton Seed B3XF	thous	117.00					4.83	121.83
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Engenia	oz	10.24					0.42	10.66
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	57.87					1.99	59.86
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Engenia	oz	10.24					0.35	10.59
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.77	0.31	0.65		0.05	1.78
Incidental Pest Trt \$15	acre	22.50					0.62	23.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	132.00					0.91	132.91
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17
TOTALS		676.98	81.07	64.87	27.72	0.00	31.40	882.04
								292.16
								1174.20

Note: Cost of production estimates are based on 2023 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 variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

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	1141.56
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	28.69	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	2.52	0.00	0.00	0.00	0.43	1.90	5.57	4.12	1.28	0.58	0.65	10.67
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	4.17	0.00	0.00	0.00	0.51	2.75	5.83	17.19	16.69	12.07	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	21.45	2.51	1.70	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	9.12	5.09	1.39	0.42	0.25	1.34
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	230.26	152.56	51.68	20.96	18.05	194.97
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-230.26	-152.56	-51.68	-20.96	-18.05	946.59
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-443.82	-596.38	-648.06	-669.02	-687.07	259.52

Note: Cost of production estimates are based on 2023 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 variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-276 -568	-252 -544	-227 -520	-203 -496	-179 -471	-155 -447	-131 -423	-107 -399	-83 -375	-59 -351	-35 -327
60	720.00	lb	-217 -509	-188 -480	-159 -451	-130 -422	-101 -393	-72 -364	-43 -335	-14 -307	14 -278	42 -249	71 -220
70	840.00	lb	-158 -450	-124 -416	-90 -382	-57 -349	-23 -315	10 -281	44 -248	77 -214	111 -180	145 -146	178 -113
80	960.00	lb	-99 -391	-60 -352	-22 -314	16 -275	54 -237	93 -198	131 -160	170 -121	209 -83	247 -44	286 -6
90	1080.00	lb	-40 -332	3 -289	46 -245	89 -202	133 -159	176 -115	219 -72	263 -28	306 14	349 57	393 101
100	1200.00	lb	18 -273	66 -225	115 -177	163 -128	211 -80	259 -32	307 15	355 63	404 111	452 160	500 208
110	1320.00	lb	77 -214	130 -161	183 -108	236 -55	289 -2	342 50	395 103	448 156	501 209	554 262	607 315
120	1440.00	lb	136 -155	194 -97	252 -39	310 17	367 75	425 133	483 191	541 249	599 306	656 364	714 422
130	1560.00	lb	195 -96	258 -33	320 28	383 91	446 153	508 216	571 279	633 341	696 404	759 466	821 529
140	1680.00	lb	254 -37	321 29	389 97	456 164	524 232	591 299	659 366	726 434	794 501	861 569	928 636
150	1800.00	lb	313 21	385 93	457 165	530 238	602 310	674 382	746 454	819 527	891 599	963 671	1036 743

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 2023 input prices.

Table 11.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	34.3582	137.43	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Enlist Duo	pt	5.92	7.0000	41.44	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	
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	65.00	0.6660	43.29	
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	17.94	0.3993	7.16	
Self-Propelled	hour	17.94	0.2075	3.72	
HAND LABOR					
implements	hour	9.06	0.1235	1.11	
Self-Propelled	hour	9.06	0.1899	1.71	
UNALLOCATED LABOR					
hour	17.91	0.4855	8.70		
DIESEL FUEL					
Tractors	gal	3.44	6.1665	21.23	
Self-Propelled	gal	3.44	4.8836	16.78	
REPAIR & MAINTENANCE					
implements	acre	10.79	1.0000	10.79	
Tractors	acre	4.47	1.0000	4.47	
Self-Propelled	acre	25.96	1.0000	25.96	
INTEREST ON OP. CAP.	acre	33.07	1.0000	33.07	
TOTAL DIRECT EXPENSES				929.39	
FIXED EXPENSES					
implements	acre	19.47	1.0000	19.47	
Tractors	acre	34.46	1.0000	34.46	
Self-Propelled	acre	126.29	1.0000	126.29	
TOTAL FIXED EXPENSES				180.22	
TOTAL SPECIFIED EXPENSES				1109.61	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	11.0501	38.01	_____
REPAIR & MAINTENANCE	acre	41.22	1.0000	41.22	_____
INTEREST ON OP. CAP.	acre	33.07	1.0000	33.07	_____

TOTAL DIRECT EXPENSES				929.39	_____
RETURNS ABOVE DIRECT EXPENSES				212.17	_____
TOTAL FIXED EXPENSES				180.22	_____

TOTAL SPECIFIED EXPENSES				1109.61	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				31.95	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALLOC 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) UAN (32%)	12R-38	MFWD	300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
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						1.0000				
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) UAN (32%)	12R-38	MFWD	300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60
UAN (32%)	gal	68.72					3.31	72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33
Cotton Seed W3FE	thous	109.35					4.51	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	68.72					2.36	71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethephon 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	132.00					0.91	132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
TOTALS		794.69	38.01	41.22	22.40	0.00	33.07	929.39
								180.22
								1109.61

Note: Cost of production estimates are based on 2023 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, 2024

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	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	4.23	3.97	0.00	0.00	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	8.85	4.50	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	223.48	135.12	63.59	38.29	28.63	192.15
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-223.48	-135.12	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-471.61	-606.73	-670.32	-708.61	-737.24	212.17

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT YIELD UNIT dollars													
50	600.00	lb	-323 -503	-299 -479	-275 -455	-251 -431	-227 -407	-203 -383	-178 -359	-154 -335	-130 -311	-106 -286	-82 -262
60	720.00	lb	-264 -444	-235 -415	-206 -386	-177 -358	-148 -329	-120 -300	-91 -271	-62 -242	-33 -213	-4 -184	24 -155
70	840.00	lb	-205 -385	-171 -352	-138 -318	-104 -284	-70 -250	-36 -217	-3 -183	30 -149	64 -116	97 -82	131 -48
80	960.00	lb	-146 -326	-108 -288	-69 -249	-30 -211	7 -172	46 -134	84 -95	123 -57	161 -18	200 19	238 58
90	1080.00	lb	-87 -267	-44 -224	-0 -181	42 -137	85 -94	129 -51	172 -7	215 35	259 78	302 122	345 165
100	1200.00	lb	-28 -208	19 -160	67 -112	115 -64	164 -16	212 31	260 80	308 128	356 176	404 224	453 272
110	1320.00	lb	30 -149	83 -96	136 -43	189 9	242 62	295 114	348 167	401 220	454 273	507 326	560 379
120	1440.00	lb	89 -90	147 -33	204 24	262 82	320 140	378 198	436 255	493 313	551 371	609 429	667 487
130	1560.00	lb	148 -32	210 30	273 93	336 155	398 218	461 281	523 343	586 406	649 468	711 531	774 594
140	1680.00	lb	207 26	274 94	342 161	409 229	476 296	544 364	611 431	679 499	746 566	814 633	881 701
150	1800.00	lb	266 85	338 158	410 230	482 302	555 374	627 447	699 519	771 591	844 663	916 736	988 808

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

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

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

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM				
		dollars		dollars					
DIRECT EXPENSES									
CUSTOM SPRAY									
App by Air (5 gal)	appl	8.11	2.5000	20.27					
App by Air (3 gal)	appl	6.87	5.7500	39.50					
HARVEST AIDS									
Thidiazuron 4lb	oz	1.14	2.3000	2.62					
Ethephon 6E	pt	3.38	2.3125	7.82					
Tribufos 6lb	pt	11.25	0.5000	5.63					
GINNING									
Gin & Haul	lb	0.11	1500.0000	165.00					
FERTILIZERS									
Potash (60% K2O)	cwt	36.20	1.5000	54.30					
UAN (32%)	gal	4.00	34.3582	137.43					
FUNGICIDES									
Cotton Seed Trt.	acre	20.00	1.0000	20.00					
HERBICIDES									
Clarity	pt	14.29	0.5000	7.15					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00					
Select Max	pt	15.01	1.0000	15.01					
Gramoxone SL 2.0	oz	0.33	48.0000	15.84					
Cotoran	pt	5.24	2.0000	10.48					
Enlist Duo	pt	5.92	7.0000	41.44					
Dual Magnum	pt	10.75	2.0000	21.50					
INSECTICIDES									
Acephate 90%	lb	8.25	2.0000	16.50					
Bidrin 8EC	oz	1.51	5.2000	7.85					
Diamond .83EC	oz	1.26	6.0000	7.56					
Imidacloprid 4F	oz	0.79	2.0000	1.58					
Centric 40WG	oz	5.95	2.0000	11.90					
Bifenthrin	oz	0.56	12.8000	7.17					
Lambda	oz	0.39	1.0000	0.39					
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50					
Transform WG	oz	9.34	1.5000	14.01					
IRRIGATION SUPPLIES									
Roll-Out Pipe	ft	0.24	33.0000	7.92					
SEED/PLANTS									
Cotton Seed W3FE	thous	2.43	45.0000	109.35					
GROWTH REGULATORS									
Mepiquat Chloride	oz	0.07	51.0000	3.57					
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	65.00	0.6660	43.29					
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	17.94	0.5025	9.02					
Self-Propelled	hour	17.94	0.2075	3.72					
IRRIGATE LABOR									
Special Labor	hour	9.06	0.3000	2.73					
Implement	hour	9.06	0.0625	0.57					
HAND LABOR									
Implement	hour	9.06	0.1235	1.11					
Self-Propelled	hour	9.06	0.1899	1.71					
UNALLOCATED LABOR									
hour	17.93	0.5052	9.06						
DIESEL FUEL									
Tractors	gal	3.44	7.2737	25.04					
Self-Propelled	gal	3.44	4.8836	16.78					
Roll-Out Pipe Irr.	gal	3.44	8.5535	29.43					
REPAIR & MAINTENANCE									
Implement	acre	11.75	1.0000	11.75					
Tractors	acre	5.29	1.0000	5.29					
Self-Propelled	acre	25.96	1.0000	25.96					
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16					
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00					

TOTAL DIRECT EXPENSES					1031.09				
FIXED EXPENSES									
Implement	acre	23.82	1.0000	23.82					
Tractors	acre	40.82	1.0000	40.82					
Self-Propelled	acre	126.29	1.0000	126.29					
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47					

TOTAL FIXED EXPENSES					265.40				
TOTAL SPECIFIED EXPENSES					1296.49				

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____
TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.57	1.0000	3.57	_____
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	43.29	1.0000	43.29	_____
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	17.94	0.7101	12.74	_____
UNALLOCATED LABOR	hour	17.93	0.5052	9.06	_____
DIESEL FUEL	gal	3.44	20.7109	71.25	_____
REPAIR & MAINTENANCE	acre	50.16	1.0000	50.16	_____
INTEREST ON OP. CAP.	acre	35.00	1.0000	35.00	_____
TOTAL DIRECT EXPENSES				1031.09	_____
RETURNS ABOVE DIRECT EXPENSES				395.86	_____
TOTAL FIXED EXPENSES				265.40	_____
TOTAL SPECIFIED EXPENSES				1296.49	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				130.46	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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) UAN (32%)	12R-38 gal	MFWD	300	0.051	1.00	Apr	17.1791	0.05	0.05	0.07	0.04
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 Eradication	acre				1.00	May	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) UAN (32%)	12R-38 gal	MFWD	300	0.051	1.00	Jun	17.1791	0.05	0.05	0.07	0.04
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE		
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	43.29				3.57	46.86	46.86
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Potash (60% K2O)	cwt	54.30				4.48	58.78	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73	0.59	7.73	8.98
Bed/Disk (Hipper)	12R-38			2.62	1.96	1.60	0.51	6.69
App by Air (5 gal)	appl	8.11				0.45	8.56	8.56
Clarity	pt	7.15				0.39	7.54	7.54
Glyphosate 3lbs a.e	oz	8.00				0.44	8.44	8.44
Select Max	pt	15.01				0.83	15.84	15.84
Surfactant	pt	0.66				0.04	0.70	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90	0.30	6.60	5.96
UAN (32%)	gal	68.72				3.31	72.03	72.03
Row Cond Folding	38'		2.17	0.87	1.32	0.18	4.54	5.70
Plant - Folding	12R-38			2.64	2.35	2.05	0.29	7.33
Cotton Seed W3FE	thous	109.35				4.51	113.86	113.86
Cotton Seed Trt.	acre	20.00				0.83	20.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.05	1.20	1.66
Gramoxone SL 2.0	oz	15.84				0.65	16.49	16.49
Cotoran	pt	10.48				0.43	10.91	10.91
Surfactant	pt	0.66				0.03	0.69	0.69
Cotton Consultant	acre	8.00				0.33	8.33	8.33
Eradication	acre	1.00				0.04	1.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.05	1.20	1.66
Enlist Duo	pt	20.72				0.85	21.57	21.57
Dual Magnum	pt	10.75				0.44	11.19	11.19
Acephate 90%	lb	4.13				0.17	4.30	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.04	1.19	1.66
Bidrin 8EC	oz	4.83				0.17	5.00	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90	0.22	6.52	5.96
UAN (32%)	gal	68.72				2.36	71.08	71.08
App by Air (3 gal)	appl	6.87				0.19	7.06	7.06
Diamond .83EC	oz	7.56				0.21	7.77	7.77
Imidacloprid 4F	oz	1.58				0.04	1.62	1.62
Mepiquat Chloride	oz	1.12				0.03	1.15	1.15
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64	0.14	5.27	4.76
Enlist Duo	pt	20.72				0.57	21.29	21.29
Dual Magnum	pt	10.75				0.30	11.05	11.05
Centric 40WG	oz	11.90				0.33	12.23	12.23
Mepiquat Chloride	oz	1.33				0.04	1.37	1.37
App by Air (3 gal)	appl	6.87				0.19	7.06	7.06
Acephate 90%	lb	6.19				0.17	6.36	6.36
Mepiquat Chloride	oz	1.12				0.03	1.15	1.15
Bifenthrin	oz	3.58				0.10	3.68	3.68
App by Air (3 gal)	appl	1.72				0.05	1.77	1.77
Lambda	oz	0.39				0.01	0.40	0.40
Bidrin 8EC	oz	3.02				0.08	3.10	3.10
Incidental Pest								
App by Air (3 gal)	appl	10.31				0.28	10.59	10.59
IncidentalPestTrt\$15	acre	22.50				0.62	23.12	23.12
App by Air (3 gal)	appl	6.87				0.14	7.01	7.01
Acephate 90%	lb	6.19				0.13	6.32	6.32
Bifenthrin	oz	3.58				0.07	3.65	3.65
App by Air (3 gal)	appl	6.87				0.14	7.01	7.01
Transform WG	oz	14.01				0.29	14.30	14.30
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
Thidiazuron 4lb	oz	2.62				0.04	2.66	2.66
Ethephon 6E	pt	6.76				0.09	6.85	6.85
App by Air (5 gal)	appl	4.06				0.06	4.12	4.12
Tribufos 6lb	pt	5.63				0.08	5.71	5.71
Ethephon 6E	pt	1.06				0.01	1.07	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12	0.33	48.03	121.31
Gin & Haul	lb	165.00				1.13	166.13	166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66	0.08	11.21	9.51
Roll-Out Pipe Irr.	acre	7.92	31.93	7.96	4.71	1.48	54.00	80.72
TOTALS		846.76	71.25	50.16	27.92	0.00	35.00	1031.09
							265.40	1296.49

Note: Cost of production estimates are based on 2023 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, 2024

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	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	0.00	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	4.83	56.72	23.78	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	109.35	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	3.57	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	43.29	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	3.33	0.00	0.00	0.00	0.00	1.90	4.46	4.99	1.87	0.23	0.68	10.46
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	5.48	0.00	0.00	0.00	0.00	2.75	5.83	13.73	12.18	9.81	0.56	20.91
REPAIR & MAINTENANCE	4.51	0.00	0.00	0.00	0.00	1.65	3.64	6.44	2.52	1.40	0.19	29.81
INTEREST ON OP. CAP.	10.04	0.00	0.00	0.00	2.15	3.61	8.86	3.67	3.70	1.00	0.41	1.56
TOTAL DIRECT EXPENSES	131.78	0.00	0.00	0.00	41.08	78.63	223.72	110.30	137.80	49.96	30.08	227.74
NET INCOME	-131.78	0.00	0.00	0.00	-41.08	-78.63	-223.72	-110.30	-137.80	-49.96	-30.08	1199.21
NET INCOME TO DATE	-131.78	-131.78	-131.78	-131.78	-172.86	-251.49	-475.21	-585.51	-723.31	-773.27	-803.35	395.86

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT YIELD UNIT dollars													
50	750.00	lb	-273 -539	-243 -508	-213 -478	-183 -448	-153 -418	-123 -388	-93 -358	-62 -328	-32 -298	-2 -268	27 -238
60	900.00	lb	-199 -465	-163 -429	-127 -393	-91 -357	-55 -320	-19 -284	16 -248	52 -212	89 -176	125 -140	161 -104
70	1050.00	lb	-126 -391	-84 -349	-42 -307	0 -265	42 -223	84 -180	126 -138	168 -96	210 -54	253 -12	295 29
80	1200.00	lb	-52 -317	-4 -269	43 -221	91 -173	140 -125	188 -77	236 -28	284 19	332 67	380 115	429 163
90	1350.00	lb	21 -244	75 -190	129 -135	183 -81	237 -27	292 26	346 80	400 135	454 189	508 243	562 297
100	1500.00	lb	94 -170	155 -110	215 -50	275 10	335 70	395 130	456 190	516 250	576 311	636 371	696 431
110	1650.00	lb	168 -96	234 -30	300 35	367 101	433 168	499 234	565 300	632 366	698 432	764 499	830 565
120	1800.00	lb	242 -23	314 49	386 121	458 193	531 265	603 338	675 410	747 482	820 554	892 627	964 699
130	1950.00	lb	315 50	394 128	472 207	550 285	629 363	707 441	785 520	863 598	942 676	1020 754	1098 833
140	2100.00	lb	389 124	473 208	558 292	642 377	726 461	811 545	895 629	979 714	1063 798	1148 882	1232 967
150	2250.00	lb	463 197	553 288	643 378	734 468	824 559	914 649	1005 739	1095 830	1185 920	1276 1010	1366 1101

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 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.7500	39.50	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	34.3582	137.43	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e.	oz	0.25	32.0000	8.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Enlist Duo	pt	5.92	7.0000	41.44	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	
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	65.00	0.6660	43.29	
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	17.94	0.3993	7.16	
Self-Propelled	hour	17.94	0.2075	3.72	
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					
DIESEL FUEL	hour	17.91	0.4855	8.70	
Tractors	gal	3.44	6.1665	21.23	
Self-Propelled	gal	3.44	4.8836	16.78	
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	
REPAIR & MAINTENANCE					
implements	acre	10.79	1.0000	10.79	
Tractors	acre	4.47	1.0000	4.47	
Self-Propelled	acre	25.96	1.0000	25.96	
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	
INTEREST ON OP. CAP.	acre	35.44	1.0000	35.44	
TOTAL DIRECT EXPENSES				1038.02	
FIXED EXPENSES					
implements	acre	19.47	1.0000	19.47	
Tractors	acre	34.46	1.0000	34.46	
Self-Propelled	acre	126.29	1.0000	126.29	
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	
TOTAL FIXED EXPENSES				279.72	
TOTAL SPECIFIED EXPENSES				1317.74	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1500.0000	1204.20	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1426.95	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	59.79	1.0000	59.79	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	191.74	1.0000	191.74	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	89.46	1.0000	89.46	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.6069	10.88	_____
UNALLOCATED LABOR	hour	17.91	0.4855	8.70	_____
DIESEL FUEL	gal	3.44	22.2512	76.54	_____
REPAIR & MAINTENANCE	acre	63.17	1.0000	63.17	_____
INTEREST ON OP. CAP.	acre	35.44	1.0000	35.44	_____

TOTAL DIRECT EXPENSES				1038.02	_____
RETURNS ABOVE DIRECT EXPENSES				388.93	_____
TOTAL FIXED EXPENSES				279.72	_____

TOTAL SPECIFIED EXPENSES				1317.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				109.21	_____

Note: Cost of production estimates are based on 2023 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.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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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					1.50	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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60
UAN (32%)	gal	68.72					3.31	72.03
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
Plant - Folding	12R-38			2.64	2.35	2.05	0.29	7.33
Cotton Seed W3FE	thous	109.35					4.51	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	68.72					2.36	71.08
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	10.31					0.28	10.59
IncidentalPestTrt\$15	acre	22.50					0.62	23.12
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethephon 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	165.00					1.13	166.13
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17
TOTALS		838.63	76.54	63.17	24.24	0.00	35.44	1038.02
								279.72
								1317.74

Note: Cost of production estimates are based on 2023 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, 2024

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	1426.95
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	25.77	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	68.72	0.00	68.72	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	44.82	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	5.57	4.12	0.20	0.15	0.00	9.78
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	17.19	15.41	11.56	0.00	19.63
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.65	3.64	21.45	1.99	1.49	0.00	29.42
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.61	8.90	5.54	2.49	1.04	0.39	1.54
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	78.63	224.87	166.34	92.92	51.76	28.63	225.37
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-78.63	-224.87	-166.34	-92.92	-51.76	-28.63	1201.58
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-248.13	-473.00	-639.34	-732.26	-784.02	-812.65	388.93

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-280 -560	-250 -530	-220 -500	-190 -470	-160 -439	-130 -409	-100 -379	-69 -349	-39 -319	-9 -289	20 -259
60	900.00	lb	-206 -486	-170 -450	-134 -414	-98 -378	-62 -342	-26 -306	9 -269	45 -233	82 -197	118 -161	154 -125
70	1050.00	lb	-133 -412	-91 -370	-48 -328	-6 -286	35 -244	77 -202	119 -160	161 -117	203 -75	246 -33	288 8
80	1200.00	lb	-59 -339	-11 -291	36 -242	84 -194	133 -146	181 -98	229 -50	277 -2	325 46	373 94	422 142
90	1350.00	lb	14 -265	68 -211	122 -157	176 -102	230 -48	285 5	339 59	393 113	447 167	501 222	556 276
100	1500.00	lb	87 -191	148 -131	208 -71	268 -11	328 49	388 109	449 169	509 229	569 289	629 350	689 410
110	1650.00	lb	161 -118	227 -51	294 14	360 80	426 146	492 213	558 279	625 345	691 411	757 477	823 544
120	1800.00	lb	235 -44	307 27	379 100	452 172	524 244	596 316	668 389	741 461	813 533	885 605	957 678
130	1950.00	lb	308 29	387 107	465 185	543 264	622 342	700 420	778 498	856 577	935 655	1013 733	1091 811
140	2100.00	lb	382 102	466 187	551 271	635 355	719 440	804 524	888 608	972 693	1057 777	1141 861	1225 945
150	2250.00	lb	456 176	546 266	637 357	727 447	817 537	907 628	998 718	1088 808	1178 899	1269 989	1359 1079

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 2023 input prices.

Table 14.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	25.4000	101.60	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Enlist Duo	pt	5.92	7.0000	41.44	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	48.0000	3.36	
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	65.00	0.6660	43.29	
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	17.94	0.2712	4.87	
Self-Propelled	hour	17.94	0.2075	3.72	
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	
Self-Propelled	hour	9.06	0.1899	1.71	
UNALLOCATED LABOR					
hour	17.93	0.3830	6.87		
DIESEL FUEL					
Tractors	gal	3.44	4.1890	14.42	
Self-Propelled	gal	3.44	4.8836	16.78	
REPAIR & MAINTENANCE					
Implements	acre	7.38	1.0000	7.38	
Tractors	acre	3.04	1.0000	3.04	
Self-Propelled	acre	25.96	1.0000	25.96	
INTEREST ON OP. CAP.					
acre	29.77	1.0000	29.77		
TOTAL DIRECT EXPENSES				874.27	
FIXED EXPENSES					
Implements	acre	12.08	1.0000	12.08	
Tractors	acre	23.41	1.0000	23.41	
Self-Propelled	acre	126.29	1.0000	126.29	
TOTAL FIXED EXPENSES				161.78	
TOTAL SPECIFIED EXPENSES				1036.05	

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	155.90	1.0000	155.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	81.96	1.0000	81.96	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	3.36	1.0000	3.36	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.4788	8.59	_____
UNALLOCATED LABOR	hour	17.93	0.3830	6.87	_____
DIESEL FUEL	gal	3.44	9.0726	31.20	_____
REPAIR & MAINTENANCE	acre	36.38	1.0000	36.38	_____
INTEREST ON OP. CAP.	acre	29.77	1.0000	29.77	_____

TOTAL DIRECT EXPENSES				874.27	_____
RETURNS ABOVE DIRECT EXPENSES				267.29	_____
TOTAL FIXED EXPENSES				161.78	_____

TOTAL SPECIFIED EXPENSES				1036.05	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				105.51	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
App by Air (5 gal)	appl			1.00	Mar		1.0000				
Clarity	pt						0.5000				
Glyphosate 3lbs a.e	oz						32.0000				
Select Max	pt						1.0000				
Surfactant	pt						0.2000				
Row Cond Folding	38'	MFWD	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						1.0000				
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
UAN (32%)	gal						25.4000				0.04
Spray (Direct/Layby)	12R-38	MFWD	300	0.044	1.00	Jun			0.04	0.04	0.06
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						1.0000				
Diamond .83EC	oz						6.0000				
Imidacloprid 4F	oz						2.0000				
Mepiquat Chloride	oz						16.0000				
App by Air (3 gal)	appl						1.0000				
Acephate 90%	lb						0.7500				
Mepiquat Chloride	oz						16.0000				
Bifenthrin	oz						6.4000				
App by Air (3 gal)	appl						0.25				
Lambda	oz						0.2500				
Bidrin 8EC	oz						1.0000				
Incidental Pest							2.0000				
App by Air (3 gal)	appl						1.0000				
IncidentalPestTrt\$15	acre						1.0000				
App by Air (3 gal)	appl						1.0000				
Acephate 90%	lb						0.7500				
Bifenthrin	oz						6.4000				
App by Air (3 gal)	appl						1.0000				
Transform WG	oz						1.5000				
App by Air (5 gal)	appl						1.0000				
Thidiazuron 4lb	oz						2.3000				
Ethephon 6E	pt						2.0000				
App by Air (5 gal)	appl						0.50				
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	0.06
TOTALS							0.47	0.27	0.76	0.38	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89
Cotton Seed W3FE	thous	109.35					4.51	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	101.60					3.49	105.09
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Tribufos 6lb	pt	5.63					0.08	5.71
Ethephon 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	132.00					0.91	132.91
Stalk Shredder-Flail	20'		4.38	4.09	2.66		0.08	11.21
TOTALS		758.85	31.20	36.38	18.07	0.00	29.77	874.27
								161.78
								1036.05

Note: Cost of production estimates are based on 2023 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, 2024

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	1141.56
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	101.60	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	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	2.24	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	43.29	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	4.32	3.97	0.00	0.00	0.00	9.78
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	5.94	5.63	0.00	0.00	0.00	19.63
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.98	2.98	0.00	0.00	0.00	29.42
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	2.15	0.00	8.87	5.63	1.70	0.77	0.39	1.32
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	41.08	0.00	224.04	169.13	63.59	38.29	28.63	192.15
NET INCOME	-117.36	0.00	0.00	0.00	-41.08	0.00	-224.04	-169.13	-63.59	-38.29	-28.63	949.41
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-158.44	-158.44	-382.48	-551.61	-615.20	-653.49	-682.12	267.29

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT YIELD UNIT dollars													
50	600.00	lb	-268 -430	-244 -406	-220 -381	-196 -357	-172 -333	-147 -309	-123 -285	-99 -261	-75 -237	-51 -213	-27 -189
60	720.00	lb	-209 -371	-180 -342	-151 -313	-122 -284	-93 -255	-64 -226	-35 -197	-7 -168	21 -139	50 -111	79 -82
70	840.00	lb	-150 -312	-116 -278	-82 -244	-49 -211	-15 -177	18 -143	51 -109	85 -76	119 -42	153 -8	186 24
80	960.00	lb	-91 -253	-52 -214	-14 -176	24 -137	62 -99	101 -60	139 -22	178 16	216 55	255 93	293 132
90	1080.00	lb	-32 -194	10 -150	54 -107	97 -64	140 -20	184 22	227 65	270 109	314 152	357 195	401 239
100	1200.00	lb	26 -135	74 -87	122 -38	170 9	219 57	267 105	315 153	363 201	411 250	459 298	508 346
110	1320.00	lb	85 -76	138 -23	191 29	244 82	297 135	350 188	403 241	456 294	509 347	562 400	615 453
120	1440.00	lb	144 -17	202 40	259 98	317 155	375 213	433 271	491 329	548 387	606 445	664 502	722 560
130	1560.00	lb	203 41	265 104	328 166	391 229	453 292	516 354	579 417	641 479	704 542	766 605	829 667
140	1680.00	lb	262 100	329 167	397 235	464 302	532 370	599 437	666 505	734 572	801 639	869 707	936 774
150	1800.00	lb	321 159	393 231	465 303	538 376	610 448	682 520	754 592	827 665	899 737	971 809	1043 881

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 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.5000	20.27	
App by Air (3 gal)	appl	6.87	5.2500	36.07	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	
Ethephon 6E	pt	3.38	2.3125	7.82	
Tribufos 6lb	pt	11.25	0.5000	5.63	
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	
UAN (32%)	gal	4.00	32.5498	130.20	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	
Select Max	pt	15.01	1.0000	15.01	
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	
Cotoran	pt	5.24	2.0000	10.48	
Enlist Duo	pt	5.92	7.0000	41.44	
Dual Magnum	pt	10.75	2.0000	21.50	
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	
Bidrin 8EC	oz	1.51	5.2000	7.85	
Centric 40WG	oz	5.95	1.3400	7.97	
Diamond .83EC	oz	1.26	6.0000	7.56	
Imidacloprid 4F	oz	0.79	2.0000	1.58	
Bifenthrin	oz	0.56	12.8000	7.17	
Lambda	oz	0.39	1.0000	0.39	
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	
Transform WG	oz	9.34	1.5000	14.01	
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	30.0000	72.90	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	42.7200	2.99	
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	65.00	0.6660	43.29	
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	17.94	0.8159	14.63	
Self-Propelled	hour	17.94	0.1958	3.51	
HAND LABOR					
Implement	hour	9.06	0.3181	2.87	
Self-Propelled	hour	9.06	0.1840	1.66	
UNALLOCATED LABOR					
hour	17.92	0.8094	14.51		
DIESEL FUEL					
Tractors	gal	3.44	12.6003	43.36	
Self-Propelled	gal	3.44	3.4035	11.70	
REPAIR & MAINTENANCE					
Implement	acre	14.47	1.0000	14.47	
Tractors	acre	9.12	1.0000	9.12	
Self-Propelled	acre	10.03	1.0000	10.03	
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				854.00	
FIXED EXPENSES					
Implement	acre	27.91	1.0000	27.91	
Tractors	acre	70.41	1.0000	70.41	
Self-Propelled	acre	49.34	1.0000	49.34	
TOTAL FIXED EXPENSES				147.66	
TOTAL SPECIFIED EXPENSES				1001.66	

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	811.0000	651.07	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				771.52	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	56.35	1.0000	56.35	_____
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	184.50	1.0000	184.50	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	119.42	1.0000	119.42	_____
INSECTICIDES	acre	78.03	1.0000	78.03	_____
SEED/PLANTS	acre	72.90	1.0000	72.90	_____
GROWTH REGULATORS	acre	2.99	1.0000	2.99	_____
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	43.29	1.0000	43.29	_____
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	17.94	1.0118	18.14	_____
UNALLOCATED LABOR	hour	17.92	0.8094	14.51	_____
DIESEL FUEL	gal	3.44	16.0039	55.06	_____
REPAIR & MAINTENANCE	acre	33.62	1.0000	33.62	_____
INTEREST ON OP. CAP.	acre	30.83	1.0000	30.83	_____

TOTAL DIRECT EXPENSES				854.00	_____
RETURNS ABOVE DIRECT EXPENSES				-82.48	_____
TOTAL FIXED EXPENSES				147.66	_____

TOTAL SPECIFIED EXPENSES				1001.66	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-230.14	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	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		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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	8R-38 2x1		2.86	2.55	1.73		0.59	7.73
Bed/Disk (Hipper)	8R-38 2x1			1.31	0.98	0.79	0.25	3.33
App by Air (5 gal)	appl	8.11					0.45	8.56
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Select Max	pt	15.01					0.83	15.84
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	8R-38 2x1		2.75	1.71	1.90		0.31	6.67
UAN (32%)	gal	65.10					3.13	68.23
Row Cond Folding	38'			2.17	0.87	1.32	0.18	4.54
Plant - Folding	8R-38 2x1			2.64	2.35	2.05	0.29	7.33
Cotton Seed W3FE	thous	72.90					3.01	75.91
Cotton Seed Trt.	acre	13.40					0.55	13.95
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Spray (Direct/Layby)	8R-38 2x1			2.37	1.12	1.64	0.18	5.31
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	8R-38 2x1			2.75	1.71	1.90	0.22	6.58
UAN (32%)	gal	65.10					2.24	67.34
Spray (Direct/Layby)	8R-38 2x1			2.37	1.12	1.64	0.18	5.31
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	7.97					0.27	8.24
Mepiquat Chloride	oz	0.75					0.03	0.78
App by Air (3 gal)	appl	6.87					0.19	7.06
Diamond .83EC	oz	7.56					0.21	7.77
Imidacloprid 4F	oz	1.58					0.04	1.62
Mepiquat Chloride	oz	1.12					0.03	1.15
App by Air (3 gal)	appl	6.87					0.19	7.06
Acephate 90%	lb	6.19					0.17	6.36
Mepiquat Chloride	oz	1.12					0.03	1.15
Bifenthrin	oz	3.58					0.10	3.68
App by Air (3 gal)	appl	1.72					0.05	1.77
Lambda	oz	0.39					0.01	0.40
Bidrin 8EC	oz	3.02					0.08	3.10
Incidental Pest								
App by Air (3 gal)	appl	6.87					0.19	7.06
IncidentalPestTrt\$15	acre	15.00					0.41	15.41
App by Air (3 gal)	appl	6.87					0.14	7.01
Acephate 90%	lb	6.19					0.13	6.32
Bifenthrin	oz	3.58					0.07	3.65
App by Air (3 gal)	appl	6.87					0.14	7.01
Transform WG	oz	14.01					0.29	14.30
App by Air (5 gal)	appl	8.11					0.11	8.22
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
App by Air (5 gal)	appl	4.06					0.06	4.12
Ethephon 6E	pt	1.06					0.01	1.07
Tribufos 6lb	pt	5.63					0.08	5.71
Cotton Picker	4R2x1(350)		10.68	9.61	7.12		0.19	27.60
Boll Buggy	4R2x1(350)		9.15	3.23	5.56		0.12	18.06
Module Builder	4R2x1(350)		9.15	3.41	7.12		0.14	19.82
Gin & Haul	lb	89.21					0.61	89.82
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		697.31	55.06	33.62	37.18	0.00	30.83	854.00
								147.66
								1001.66

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

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	771.52
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	22.33	13.74	12.17	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	65.10	0.00	65.10	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	30.16	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	12.80	37.32	23.78	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	72.90	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	2.24	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	43.29	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	2.52	0.00	0.00	0.00	0.00	1.90	4.23	5.18	0.00	0.00	0.00	23.35
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	4.17	0.00	0.00	0.00	0.00	2.75	5.83	7.49	0.00	0.00	0.00	34.82
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.00	1.71	3.64	3.95	0.00	0.00	0.00	20.79
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	2.15	3.44	7.07	4.37	1.70	0.77	0.39	1.16
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	41.08	74.90	178.65	131.11	63.59	38.29	28.63	169.33
NET INCOME	-128.42	0.00	0.00	0.00	-41.08	-74.90	-178.65	-131.11	-63.59	-38.29	-28.63	602.19
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-169.50	-244.40	-423.05	-554.16	-617.75	-656.04	-684.67	-82.48

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

PRODUCT		PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
		PRODUCT PRICE											
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-444 -592	-428 -575	-411 -559	-395 -543	-379 -527	-363 -510	-346 -494	-330 -478	-314 -461	-297 -445	-281 -429
60	486.60	lb	-404 -552	-385 -532	-365 -513	-346 -493	-326 -474	-306 -454	-287 -435	-267 -415	-248 -396	-228 -376	-209 -356
70	567.70	lb	-364 -512	-342 -489	-319 -466	-296 -444	-273 -421	-250 -398	-228 -375	-205 -352	-182 -330	-159 -307	-136 -284
80	648.80	lb	-324 -472	-298 -446	-272 -420	-246 -394	-220 -368	-194 -342	-168 -316	-142 -290	-116 -264	-90 -238	-64 -212
90	729.90	lb	-285 -432	-255 -403	-226 -374	-197 -344	-167 -315	-138 -286	-109 -256	-80 -227	-50 -198	-21 -169	7 -139
100	811.00	lb	-245 -392	-212 -360	-180 -327	-147 -295	-115 -262	-82 -230	-49 -197	-17 -165	15 -132	47 -99	80 -67
110	892.10	lb	-205 -353	-169 -317	-133 -281	-97 -245	-62 -209	-26 -174	9 -138	45 -102	81 -66	116 -30	152 5
120	973.20	lb	-165 -313	-126 -274	-87 -235	-48 -196	-9 -156	29 -117	68 -78	107 -39	146 -0	186 38	225 77
130	1054.30	lb	-125 -273	-83 -231	-41 -188	1 -146	43 -104	85 -61	128 -19	170 22	212 65	255 107	297 149
140	1135.40	lb	-85 -233	-40 -187	5 -142	50 -96	96 -51	142 -5	187 39	233 85	278 131	324 176	369 222
150	1216.50	lb	-46 -193	2 -144	51 -96	100 -47	149 1	198 50	246 99	295 148	344 196	393 245	442 294

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 2023 input prices.

Table 16.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM		
dollars				dollars			
DIRECT EXPENSES							
HARVEST AIDS							
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____		
Ethepron 6E	pt	3.38	2.3125	7.82	_____		
Tribufos 6lb	pt	11.25	0.5000	5.63	_____		
GINNING							
Gin & Haul	lb	0.11	1000.0000	110.00	_____		
FERTILIZERS							
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____		
UAN (32%)	gal	4.00	28.9332	115.73	_____		
FUNGICIDES							
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____		
HERBICIDES							
Clarity	pt	14.29	0.5000	7.15	_____		
Glyphosate 3lbs a.e.	oz	0.25	32.0000	8.00	_____		
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____		
Cotoran	pt	5.24	2.0000	10.48	_____		
Enlist Duo	pt	5.92	7.0000	41.44	_____		
Dual Magnum	pt	10.75	2.0000	21.50	_____		
INSECTICIDES							
Acephate 90%	lb	8.25	2.0000	16.50	_____		
Bidrin 8EC	oz	1.51	3.2000	4.83	_____		
Centric 40WG	oz	5.95	2.0000	11.90	_____		
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____		
SEED/PLANTS							
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____		
GROWTH REGULATORS							
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____		
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	65.00	0.6660	43.29	_____		
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	17.94	0.9288	16.65	_____		
Self-Propelled	hour	17.94	0.2721	4.88	_____		
HAND LABOR							
Implements	hour	9.06	0.3579	3.24	_____		
Self-Propelled	hour	9.06	0.2222	1.99	_____		
UNALLOCATED LABOR	hour	17.93	0.9608	17.23	_____		
DIESEL FUEL							
Tractors	gal	3.44	14.3433	49.32	_____		
Self-Propelled	gal	3.44	4.4209	15.17	_____		
REPAIR & MAINTENANCE							
Implements	acre	14.48	1.0000	14.48	_____		
Tractors	acre	10.37	1.0000	10.37	_____		
Self-Propelled	acre	14.30	1.0000	14.30	_____		
INTEREST ON OP. CAP.	acre	29.97	1.0000	29.97	_____		

TOTAL DIRECT EXPENSES				822.39	_____		
FIXED EXPENSES							
Implements	acre	27.22	1.0000	27.22	_____		
Tractors	acre	80.15	1.0000	80.15	_____		
Self-Propelled	acre	74.06	1.0000	74.06	_____		

TOTAL FIXED EXPENSES				181.43	_____		
TOTAL SPECIFIED EXPENSES				1003.82	_____		

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1000.0000	802.80	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				951.30	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	104.41	1.0000	104.41	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5801	5.23	_____
OPERATOR LABOR	hour	17.94	1.2010	21.53	_____
UNALLOCATED LABOR	hour	17.93	0.9608	17.23	_____
DIESEL FUEL	gal	3.44	18.7642	64.49	_____
REPAIR & MAINTENANCE	acre	39.15	1.0000	39.15	_____
INTEREST ON OP. CAP.	acre	29.97	1.0000	29.97	_____

TOTAL DIRECT EXPENSES				822.39	_____
RETURNS ABOVE DIRECT EXPENSES				128.91	_____
TOTAL FIXED EXPENSES				181.43	_____

TOTAL SPECIFIED EXPENSES				1003.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-52.52	_____

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	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 600-825gal	90' 250hp			0.011	1.00	Mar		0.01	0.01	0.01	0.00	
Clarity	pt						0.5000					
Glyphosate 3lbs a.e	oz						32.0000					
Surfactant	pt						0.2000					
Fert Appl (Liquid) UAN (32%)	8R-38	MFWD	300	0.077	1.00	Apr	14.4666	0.07	0.07	0.11	0.06	
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 600-825gal	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						1.0000					
Eradication	acre						1.0000					
Sprayer 600-825gal	90' 250hp			0.011	1.00	May		0.01	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	0.01	0.00	
Bidrin 8EC	oz						3.2000					
Fert Appl (Liquid) UAN (32%)	8R-38	MFWD	300	0.077	1.00	Jun	14.4666	0.07	0.07	0.11	0.06	
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 600-825gal	90' 250hp			0.011	1.00	Jul		0.01	0.01	0.01	0.00	
Mepiquat Chloride	oz						16.0000					
Acephate 90%	lb						0.7500					
Incidental Pest							1.00	Jul				
Sprayer 600-825gal	90' 250hp			0.011					0.01	0.01	0.00	
IncidentalPestTrt\$15	acre						1.0000					
Sprayer 600-825gal	90' 250hp			0.011	1.00	Aug			0.01	0.01	0.00	
Acephate 90%	lb						0.7500					
Sprayer 600-825gal	90' 250hp			0.011	1.00	Sep			0.01	0.01	0.00	
Thidiazuron 4lb	oz						2.3000					
Ethephon 6E	pt						2.0000					
Sprayer 600-825gal	90' 250hp			0.011	0.50	Sep			0.00	0.00	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'			0.110	1.00	Oct		0.11	0.11	0.11	0.08	
TOTALS									1.20	0.92	1.78	0.96

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Bed-Subsoil Fold	8R-38		4.29	2.97	2.61		0.81	10.68
Bed/Disk (Hipper) Rd	8R-38			1.97	0.74	1.19	0.32	4.22
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Fert Appl (Liquid)	8R-38		4.12	2.40	2.85		0.45	9.82
UAN (32%)	gal	57.87					2.78	60.65
Row Cond Rigid	26'			3.17	1.02	1.93	0.25	6.37
Plant - Folding	8R-38			3.96	2.78	3.09	0.41	10.24
Cotton Seed W3FE	thous	109.35					4.51	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	8R-38		4.12	2.40	2.85		0.32	9.69
UAN (32%)	gal	57.87					1.99	59.86
Spray (Direct/Layby)	8R-38		3.55	1.36	2.46		0.25	7.62
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Incidental Pest Trt \$15	acre	15.00					0.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethepron 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethepron 6E	pt	1.06					0.01	1.07
Cotton Picker	6R-38(355)		10.83	12.52	7.12		0.21	30.68
Boll Buggy	6R-38(355)			9.15	3.23	5.56	0.12	18.06
Module Builder	6R-38(355)			9.15	3.41	7.12	0.14	19.82
Gin & Haul	lb	110.00					0.76	110.76
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		644.79	64.49	39.15	43.99	0.00	29.97	822.39
								181.43
								1003.82

Note: Cost of production estimates are based on 2023 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, 2024

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	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	3.80	0.00	0.00	0.00	0.43	2.85	5.88	5.74	0.86	0.43	0.65	23.35
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	6.26	0.00	0.00	0.00	0.51	4.12	8.15	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	3.71	0.00	0.00	0.00	0.21	2.40	4.22	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	10.07	0.00	0.00	0.00	0.93	3.23	9.04	4.30	0.67	0.15	0.25	1.33
TOTAL DIRECT EXPENSES	132.26	0.00	0.00	0.00	17.89	70.47	228.22	129.38	25.28	7.49	18.05	193.35
NET INCOME	-132.26	0.00	0.00	0.00	-17.89	-70.47	-228.22	-129.38	-25.28	-7.49	-18.05	757.95
NET INCOME TO DATE	-132.26	-132.26	-132.26	-132.26	-150.15	-220.62	-448.84	-578.22	-603.50	-610.99	-629.04	128.91

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	500.00	lb	-317 -498	-297 -478	-277 -458	-257 -438	-237 -418	-217 -398	-197 -378	-176 -358	-156 -338	-136 -318	-116 -298
60	600.00	lb	-268 -449	-244 -425	-220 -401	-196 -377	-171 -353	-147 -329	-123 -305	-99 -281	-75 -257	-51 -233	-27 -208
70	700.00	lb	-219 -400	-191 -372	-162 -344	-134 -316	-106 -288	-78 -260	-50 -232	-22 -203	5 -175	33 -147	61 -119
80	800.00	lb	-170 -351	-137 -319	-105 -287	-73 -255	-41 -223	-9 -190	22 -158	54 -126	86 -94	118 -62	151 -30
90	900.00	lb	-120 -302	-84 -266	-48 -230	-12 -193	23 -157	59 -121	95 -85	131 -49	168 -13	204 22	240 58
100	1000.00	lb	-71 -253	-31 -213	8 -172	48 -132	88 -92	128 -52	169 -12	209 27	249 67	289 108	329 148
110	1100.00	lb	-22 -204	21 -159	65 -115	109 -71	153 -27	198 16	242 60	286 104	330 149	374 193	418 237
120	1200.00	lb	26 -154	74 -106	122 -58	170 -10	219 37	267 85	315 134	363 182	411 230	459 278	508 326
130	1300.00	lb	75 -105	127 -53	179 -1	232 50	284 102	336 155	388 207	440 259	493 311	545 363	597 416
140	1400.00	lb	124 -56	180 -0	237 55	293 111	349 168	405 224	461 280	518 336	574 392	630 449	686 505
150	1500.00	lb	173 -7	234 52	294 112	354 173	414 233	474 293	535 353	595 413	655 474	715 534	775 594

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

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

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

Note: Cost of production estimates are based on 2023 input prices.

Table 17.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.7365	13.20	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.8069	14.47	_____	
DIESEL FUEL					
Tractors	gal	3.44	11.3731	39.10	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				742.85	_____
FIXED EXPENSES					
Implements	acre	20.11	1.0000	20.11	_____
Tractors	acre	63.55	1.0000	63.55	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				157.72	_____
TOTAL SPECIFIED EXPENSES				900.57	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	900.0000	722.52	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				856.17	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	127.90	1.0000	127.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	104.41	1.0000	104.41	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.5444	4.90	_____
OPERATOR LABOR	hour	17.94	1.0087	18.08	_____
UNALLOCATED LABOR	hour	17.93	0.8069	14.47	_____
DIESEL FUEL	gal	3.44	15.7941	54.27	_____
REPAIR & MAINTENANCE	acre	33.39	1.0000	33.39	_____
INTEREST ON OP. CAP.	acre	26.09	1.0000	26.09	_____

TOTAL DIRECT EXPENSES				742.85	_____
RETURNS ABOVE DIRECT EXPENSES				113.32	_____
TOTAL FIXED EXPENSES				157.72	_____

TOTAL SPECIFIED EXPENSES				900.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-44.40	_____

Note: Cost of production estimates are based on 2023 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, 2024

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				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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)	8R-38	MFWD 300	0.077	1.00	Jun			0.07	0.07	0.11
UAN (32%)	gal					18.4000				0.06
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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 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					900.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS						1.00	0.73	1.55	0.80	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.27	3.60	3.60
Lime (Spread)	ton	43.29					3.57	46.86	46.86
Custom Apply Fert	acre	7.50					0.62	8.12	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78	58.78
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21	1.66
Clarity	pt	7.15					0.39	7.54	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44	8.44
Surfactant	pt	0.66					0.04	0.70	0.70
Row Cond Rigid	26'			3.17	1.02	1.93	0.25	6.37	7.01
NT Plant-Folding	8R-38			4.12	3.13	3.20	0.43	10.88	12.16
Cotton Seed W3FE	thous	109.35					4.51	113.86	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Gramoxone SL 2.0	oz	15.84					0.65	16.49	16.49
Cotoran	pt	10.48					0.43	10.91	10.91
Surfactant	pt	0.66					0.03	0.69	0.69
Cotton Consultant	acre	8.00					0.33	8.33	8.33
Eradication	acre	1.00					0.04	1.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Enlist Duo	pt	20.72					0.85	21.57	21.57
Dual Magnum	pt	10.75					0.44	11.19	11.19
Acephate 90%	lb	4.13					0.17	4.30	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Bidrin 8EC	oz	4.83					0.17	5.00	5.00
Fert Appl (Liquid)	8R-38		4.12	2.40	2.85		0.32	9.69	8.84
UAN (32%)	gal	73.60					2.53	76.13	76.13
Spray (Direct/Layby)	8R-38		3.55	1.36	2.46		0.25	7.62	6.69
Enlist Duo	pt	20.72					0.71	21.43	21.43
Dual Magnum	pt	10.75					0.37	11.12	11.12
Centric 40WG	oz	11.90					0.41	12.31	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Mepiquat Chloride	oz	1.12					0.03	1.15	1.15
Acephate 90%	lb	6.19					0.17	6.36	6.36
Incidental Pest									
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
IncidentalPestTrt\$15	acre	15.00					0.41	15.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Acephate 90%	lb	6.19					0.13	6.32	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Thidiazuron 4lb	oz	2.62					0.04	2.66	2.66
Ethepron 6E	pt	6.76					0.09	6.85	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59	0.83
Tribufos 6lb	pt	5.63					0.08	5.71	5.71
Ethepron 6E	pt	1.06					0.01	1.07	1.07
Cotton Picker	6R-38 (355)		10.83	12.52	7.12		0.21	30.68	59.95
Boll Buggy	6R-38(355)		9.15	3.23	5.56		0.12	18.06	18.25
Module Builder	6R-38(355)		9.15	3.41	7.12		0.14	19.82	18.72
Gin & Haul	lb	99.00					0.68	99.68	99.68
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03	11.99
TOTALS		591.65	54.27	33.39	37.45	0.00	26.09	742.85	157.72
									900.57

Note: Cost of production estimates are based on 2023 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, 2024

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	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	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	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	0.43	0.00	5.99	5.74	0.86	0.43	0.65	23.35
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	0.51	0.00	8.31	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	4.57	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.06	4.84	0.67	0.15	0.25	1.25
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	228.86	145.65	25.28	7.49	18.05	182.27
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-228.86	-145.65	-25.28	-7.49	-18.05	673.90
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-364.11	-509.76	-535.04	-542.53	-560.58	113.32

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		75	80	85	90	95	PERCENT						
							PRODUCT	PRICE					
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT YIELD UNIT													
							dollars						
50	450.00	lb	-288 -446	-270 -428	-252 -410	-234 -391	-216 -373	-198 -355	-180 -337	-161 -319	-143 -301	-125 -283	-107 -265
60	540.00	lb	-244 -401	-222 -380	-200 -358	-179 -336	-157 -315	-135 -293	-114 -271	-92 -250	-70 -228	-49 -206	-27 -185
70	630.00	lb	-199 -357	-174 -332	-149 -307	-124 -281	-98 -256	-73 -231	-48 -205	-22 -180	2 -155	27 -130	52 -104
80	720.00	lb	-155 -313	-126 -284	-97 -255	-69 -226	-40 -197	-11 -168	17 -140	46 -111	75 -82	104 -53	133 -24
90	810.00	lb	-111 -269	-79 -236	-46 -204	-13 -171	18 -139	51 -106	83 -74	116 -41	148 -9	181 23	213 55
100	900.00	lb	-67 -225	-31 -188	4 -152	41 -116	77 -80	113 -44	149 -8	185 27	221 63	257 100	293 136
110	990.00	lb	-23 -180	16 -141	56 -101	96 -61	135 -21	175 17	215 57	255 97	294 137	334 176	374 216
120	1080.00	lb	21 -136	64 -93	107 -49	151 -6	194 36	237 80	281 123	324 166	367 210	411 253	454 296
130	1170.00	lb	65 -92	112 -45	159 1	206 48	253 95	300 142	347 189	394 236	441 283	488 330	534 377
140	1260.00	lb	109 -48	160 2	210 53	261 103	311 154	362 204	413 255	463 305	514 356	564 407	615 457
150	1350.00	lb	153 -3	207 50	262 104	316 158	370 212	424 267	478 321	533 375	587 429	641 483	695 537

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 2023 input prices.

Table 18.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethepron 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.5592	10.03		
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.	acre	29.03	1.0000	29.03	_____
TOTAL DIRECT EXPENSES				784.58	_____
FIXED EXPENSES					
implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				191.83	_____
TOTAL SPECIFIED EXPENSES				976.41	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1000.0000	802.80	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				951.30	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	104.41	1.0000	104.41	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3458	3.10	_____
OPERATOR LABOR	hour	17.94	0.6990	12.53	_____
UNALLOCATED LABOR	hour	17.93	0.5592	10.03	_____
DIESEL FUEL	gal	3.44	12.2980	42.28	_____
REPAIR & MAINTENANCE	acre	42.82	1.0000	42.82	_____
INTEREST ON OP. CAP.	acre	29.03	1.0000	29.03	_____

TOTAL DIRECT EXPENSES				784.58	_____
RETURNS ABOVE DIRECT EXPENSES				166.72	_____
TOTAL FIXED EXPENSES				191.83	_____

TOTAL SPECIFIED EXPENSES				976.41	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-25.11	_____

Note: Cost of production estimates are based on 2023 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, 2024

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 Potash (60% K2O)	cwt			1.00	Nov	1.0000				
						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 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Apr	14.4666	0.05	0.05	0.07	0.04
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 Eradication	acre			1.00	May	1.0000				
	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) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Jun	14.4666	0.05	0.05	0.07	0.04
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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
Incidental Pest Trt \$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	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	0.08
TOTALS						0.69	0.42	1.04	0.55	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.27	3.60	3.60
Lime (Spread)	ton	43.29					3.57	46.86	46.86
Custom Apply Fert	acre	7.50					0.62	8.12	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98
Bed/Disk (Hipper)	12R-38			1.31	0.98	0.79	0.25	3.33	4.45
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.06	1.21	1.66
Clarity	pt	7.15					0.39	7.54	7.54
Glyphosate 3lbs a.e	oz	8.00					0.44	8.44	8.44
Surfactant	pt	0.66					0.04	0.70	0.70
Fert Appl (Liquid)	12R-38			2.75	1.65	1.90	0.30	6.60	5.96
UAN (32%)	gal	57.87					2.78	60.65	60.65
Row Cond Folding	38'			2.17	0.87	1.32	0.18	4.54	5.70
Plant - Folding	12R-38			2.64	2.35	2.05	0.29	7.33	8.61
Cotton Seed W3FE	thous	109.35					4.51	113.86	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83	20.83
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20	1.66
Gramoxone SL 2.0	oz	15.84					0.65	16.49	16.49
Cotoran	pt	10.48					0.43	10.91	10.91
Surfactant	pt	0.66					0.03	0.69	0.69
Cotton Consultant	acre	8.00					0.33	8.33	8.33
Eradication	acre	1.00					0.04	1.04	1.04
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.05	1.20	1.66
Enlist Duo	pt	20.72					0.85	21.57	21.57
Dual Magnum	pt	10.75					0.44	11.19	11.19
Acephate 90%	lb	4.13					0.17	4.30	4.30
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.04	1.19	1.66
Bidrin 8EC	oz	4.83					0.17	5.00	5.00
Fert Appl (Liquid)	12R-38			2.75	1.65	1.90	0.22	6.52	5.96
UAN (32%)	gal	57.87					1.99	59.86	59.86
Spray (Direct/Layby)	12R-38			2.37	1.12	1.64	0.18	5.31	4.76
Enlist Duo	pt	20.72					0.71	21.43	21.43
Dual Magnum	pt	10.75					0.37	11.12	11.12
Centric 40WG	oz	11.90					0.41	12.31	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16	1.16
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.03	1.18	1.66
Mepiquat Chloride	oz	1.12					0.03	1.15	1.15
Acephate 90%	lb	6.19					0.17	6.36	6.36
Incidental Pest									
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.03	1.18	1.66
Incidental Pest Trt \$15	acre	15.00					0.41	15.41	15.41
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.02	1.17	1.66
Acephate 90%	lb	6.19					0.13	6.32	6.32
Sprayer 600-825gal	90' 250hp			0.51	0.21	0.43	0.02	1.17	1.66
Thidiazuron 4lb	oz	2.62					0.04	2.66	2.66
Ethephon 6E	pt	6.76					0.09	6.85	6.85
Sprayer 600-825gal	90' 250hp			0.26	0.10	0.22	0.01	0.59	0.83
Tribufos 6lb	pt	5.63					0.08	5.71	5.71
Ethephon 6E	pt	1.06					0.01	1.07	1.07
Cotton Picker/Module	6R-38(500)			15.25	25.33	7.12	0.33	48.03	121.31
Gin & Haul	lb	110.00					0.76	110.76	110.76
Stalk Shredder-Flail	15'			5.84	4.54	3.55	0.10	14.03	11.99
TOTALS		644.79	42.28	42.82	25.66	0.00	29.03	784.58	191.83
									976.41

Note: Cost of production estimates are based on 2023 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, 2024

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	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	2.52	0.00	0.00	0.00	0.43	1.90	4.23	3.97	0.86	0.43	0.65	10.67
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	4.17	0.00	0.00	0.00	0.51	2.75	5.83	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	8.85	4.13	0.67	0.15	0.25	1.19
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	223.48	123.90	25.28	7.49	18.05	172.82
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-223.48	-123.90	-25.28	-7.49	-18.05	778.48
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-437.04	-560.94	-586.22	-593.71	-611.76	166.72

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT		PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
		PRODUCT PRICE											
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT YIELD UNIT dollars													
50	500.00	lb	-279 -471	-259 -451	-239 -431	-219 -411	-199 -391	-179 -371	-159 -351	-139 -330	-119 -310	-99 -290	-78 -270
60	600.00	lb	-230 -422	-206 -398	-182 -374	-158 -350	-134 -326	-110 -301	-86 -277	-61 -253	-37 -229	-13 -205	10 -181
70	700.00	lb	-181 -373	-153 -345	-125 -317	-97 -288	-68 -260	-40 -232	-12 -204	15 -176	43 -148	71 -120	99 -92
80	800.00	lb	-132 -324	-100 -291	-68 -259	-35 -227	-3 -195	28 -163	60 -131	92 -99	124 -67	156 -35	188 -2
90	900.00	lb	-83 -274	-46 -238	-10 -202	25 -166	61 -130	97 -94	133 -58	169 -22	205 14	242 50	278 86
100	1000.00	lb	-33 -225	6 -185	46 -145	86 -105	126 -65	166 -25	206 15	247 55	287 95	327 135	367 175
110	1100.00	lb	15 -176	59 -132	103 -88	147 -44	191 -0	235 44	280 88	324 132	368 176	412 220	456 264
120	1200.00	lb	64 -127	112 -79	160 -31	208 16	256 65	305 113	353 161	401 209	449 257	497 305	545 354
130	1300.00	lb	113 -78	165 -26	217 25	269 78	322 130	374 182	426 234	478 286	530 339	583 391	635 443
140	1400.00	lb	162 -29	218 26	274 83	331 139	387 195	443 251	499 307	555 364	612 420	668 476	724 532
150	1500.00	lb	211 19	271 80	332 140	392 200	452 260	512 320	572 381	633 441	693 501	753 561	813 621

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

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

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

Note: Cost of production estimates are based on 2023 input prices.

Table 19.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.2987	5.36	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.95	0.4567	8.20	_____	
DIESEL FUEL					
Tractors	gal	3.44	4.6137	15.88	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	7.52	1.0000	7.52	_____
Tractors	acre	3.35	1.0000	3.35	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.	acre	25.59	1.0000	25.59	_____
TOTAL DIRECT EXPENSES				712.02	_____
FIXED EXPENSES					
Implements	acre	12.19	1.0000	12.19	_____
Tractors	acre	25.78	1.0000	25.78	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				173.39	_____
TOTAL SPECIFIED EXPENSES				885.41	_____

Note: Cost of production estimates are based on 2023 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	900.0000	722.52	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____
TOTAL INCOME				856.17	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	127.90	1.0000	127.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	104.41	1.0000	104.41	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3220	2.89	_____
OPERATOR LABOR	hour	17.94	0.5709	10.24	_____
UNALLOCATED LABOR	hour	17.95	0.4567	8.20	_____
DIESEL FUEL	gal	3.44	10.3205	35.47	_____
REPAIR & MAINTENANCE	acre	37.98	1.0000	37.98	_____
INTEREST ON OP. CAP.	acre	25.59	1.0000	25.59	_____
TOTAL DIRECT EXPENSES				712.02	_____
RETURNS ABOVE DIRECT EXPENSES				144.15	_____
TOTAL FIXED EXPENSES				173.39	_____
TOTAL SPECIFIED EXPENSES				885.41	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-29.24	_____

Note: Cost of production estimates are based on 2023 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, 2024

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				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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					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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 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						0.57	0.29	0.89	0.45	

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.27	3.60
Lime (Spread)	ton	43.29					3.57	46.86
Custom Apply Fert	acre	7.50					0.62	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21
Clarity	pt	7.15					0.39	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44
Surfactant	pt	0.66					0.04	0.70
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54
NT Plant-Folding	12R-38		2.75	2.69	2.14		0.31	7.89
Cotton Seed W3FE	thous	109.35					4.51	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Cotoran	pt	10.48					0.43	10.91
Surfactant	pt	0.66					0.03	0.69
Cotton Consultant	acre	8.00					0.33	8.33
Eradication	acre	1.00					0.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Acephate 90%	lb	4.13					0.17	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19
Bidrin 8EC	oz	4.83					0.17	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52
UAN (32%)	gal	73.60					2.53	76.13
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31
Enlist Duo	pt	20.72					0.71	21.43
Dual Magnum	pt	10.75					0.37	11.12
Centric 40WG	oz	11.90					0.41	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Mepiquat Chloride	oz	1.12					0.03	1.15
Acephate 90%	lb	6.19					0.17	6.36
Incidental Pest								
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18
Incidental Pest Trt \$15	acre	15.00					0.41	15.41
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Acephate 90%	lb	6.19					0.13	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17
Thidiazuron 4lb	oz	2.62					0.04	2.66
Ethephon 6E	pt	6.76					0.09	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59
Tribufos 6lb	pt	5.63					0.08	5.71
Ethephon 6E	pt	1.06					0.01	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03
Gin & Haul	lb	99.00					0.68	99.68
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03
TOTALS		591.65	35.47	37.98	21.33	0.00	25.59	712.02
								173.39
								885.41

Note: Cost of production estimates are based on 2023 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, 2024

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	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	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	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	0.43	0.00	4.32	3.97	0.86	0.43	0.65	10.67
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	0.51	0.00	5.94	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	3.98	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	8.87	4.67	0.67	0.15	0.25	1.11
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	224.04	140.17	25.28	7.49	18.05	161.74
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-224.04	-140.17	-25.28	-7.49	-18.05	694.43
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-359.29	-499.46	-524.74	-532.23	-550.28	144.15

Note: Cost of production estimates are based on 2023 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-257 -430	-239 -412	-221 -394	-203 -376	-185 -358	-167 -340	-149 -322	-131 -304	-113 -286	-95 -268	-76 -250
60	540.00	lb	-213 -386	-191 -365	-170 -343	-148 -321	-126 -300	-104 -278	-83 -256	-61 -235	-39 -213	-18 -191	3 -169
70	630.00	lb	-169 -342	-143 -317	-118 -291	-93 -266	-67 -241	-42 -216	-17 -190	7 -165	33 -140	58 -114	83 -89
80	720.00	lb	-124 -298	-96 -269	-67 -240	-38 -211	-9 -182	19 -153	48 -124	77 -96	106 -67	135 -38	164 -9
90	810.00	lb	-80 -254	-48 -221	-15 -189	16 -156	49 -124	81 -91	114 -59	146 -26	179 6	211 38	244 71
100	900.00	lb	-36 -209	-0 -173	35 -137	71 -101	108 -65	144 -29	180 6	216 43	252 79	288 115	324 151
110	990.00	lb	7 -165	47 -125	87 -86	126 -46	166 -6	206 33	246 72	285 112	325 152	365 191	405 231
120	1080.00	lb	51 -121	95 -78	138 -34	182 8	225 51	268 95	312 138	355 182	398 225	442 268	485 312
130	1170.00	lb	96 -77	143 -30	190 16	237 63	284 110	331 157	377 204	424 251	471 298	518 345	565 392
140	1260.00	lb	140 -32	190 17	241 68	292 118	342 169	393 219	443 270	494 321	545 371	595 422	646 472
150	1350.00	lb	184 11	238 65	293 119	347 173	401 227	455 282	509 336	563 390	618 444	672 498	726 553

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 2023 input prices.

Table 20.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2780	4.99	_____
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	0.2251	2.02	_____
UNALLOCATED LABOR					
hour	17.92	0.5639	10.11	_____	
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7817	19.85	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.21	1.0000	27.21	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	31.26	1.0000	31.26	_____
TOTAL DIRECT EXPENSES				879.21	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	136.25	1.0000	136.25	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				292.16	_____
TOTAL SPECIFIED EXPENSES				1171.37	_____

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	1200.0000	963.36	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1141.56	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	104.41	1.0000	104.41	_____
INSECTICIDES	acre	55.74	1.0000	55.74	_____
SEED/PLANTS	acre	109.35	1.0000	109.35	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3487	3.13	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	17.94	0.7049	12.64	_____
UNALLOCATED LABOR	hour	17.92	0.5639	10.11	_____
DIESEL FUEL	gal	3.44	23.5740	81.07	_____
REPAIR & MAINTENANCE	acre	64.87	1.0000	64.87	_____
INTEREST ON OP. CAP.	acre	31.26	1.0000	31.26	_____

TOTAL DIRECT EXPENSES				879.21	_____
RETURNS ABOVE DIRECT EXPENSES				262.35	_____
TOTAL FIXED EXPENSES				292.16	_____

TOTAL SPECIFIED EXPENSES				1171.37	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-29.81	_____

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	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 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
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 600-825gal	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					1.0000				
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					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 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.50	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.02	0.01
IncidentalPestTrt\$15	acre					1.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	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						0.70	0.42	1.25	0.56	

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	DIRECT COST	LABOR	LEASE	INTER	FIXED TOTAL COST	TOTAL COST
-----dollars-----										
Soil Test	acre	3.33			0.27	3.60			3.60	
Lime (Spread)	ton	43.29			3.57	46.86			46.86	
Custom Apply Fert Potash (60% K2O)	cwt	54.30			0.62	8.12			8.12	
					4.48	58.78			58.78	
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73	0.59	7.73	8.98	16.71	
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79	0.25	3.33	4.45	7.78	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.06	1.21	1.66	2.87	
Clarity	pt	7.15			0.39	7.54			7.54	
Glyphosate 3lbs a.e	oz	8.00			0.44	8.44			8.44	
Surfactant	pt	0.66			0.04	0.70			0.70	
Fert Appl (Liquid) UAN (32%)	12R-38 gal	57.87	2.75	1.65	1.90	0.30	6.60	5.96	12.56	
Row Cond Folding	38'		2.17	0.87	1.32	0.18	4.54	5.70	10.24	
Plant - Folding	12R-38		2.64	2.35	2.05	0.29	7.33	8.61	15.94	
Cotton Seed W3FE	thous	109.35			4.51	113.86			113.86	
Cotton Seed Trt.	acre	20.00			0.83	20.83			20.83	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.05	1.20	1.66	2.86	
Gramoxone SL 2.0	oz	15.84			0.65	16.49			16.49	
Cotoran	pt	10.48			0.43	10.91			10.91	
Surfactant	pt	0.66			0.03	0.69			0.69	
Cotton Consultant	acre	8.00			0.33	8.33			8.33	
Eradication	acre	1.00			0.04	1.04			1.04	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.05	1.20	1.66	2.86	
Enlist Duo	pt	20.72			0.85	21.57			21.57	
Dual Magnum	pt	10.75			0.44	11.19			11.19	
Acephate 90%	lb	4.13			0.17	4.30			4.30	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.04	1.19	1.66	2.85	
Bidrin 8EC	oz	4.83			0.17	5.00			5.00	
Fert Appl (Liquid) UAN (32%)	12R-38 gal	57.87	2.75	1.65	1.90	0.22	6.52	5.96	12.48	
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64	0.18	5.31	4.76	10.07	
Enlist Duo	pt	20.72			0.71	21.43			21.43	
Dual Magnum	pt	10.75			0.37	11.12			11.12	
Centric 40WG	oz	11.90			0.41	12.31			12.31	
Mepiquat Chloride	oz	1.12			0.04	1.16			1.16	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.03	1.18	1.66	2.84	
Mepiquat Chloride	oz	1.12			0.03	1.15			1.15	
Acephate 90%	lb	6.19			0.17	6.36			6.36	
Incidental Pest										
Sprayer 600-825gal	90' 250hp		0.77	0.31	0.65	0.05	1.78	2.49	4.27	
Incidental Pest Trt \$15	acre	22.50			0.62	23.12			23.12	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Acephate 90%	lb	6.19			0.13	6.32			6.32	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Thidiazuron 4lb	oz	2.62			0.04	2.66			2.66	
Ethephon 6E	pt	6.76			0.09	6.85			6.85	
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22	0.01	0.59	0.83	1.42	
Tribufos 6lb	pt	5.63			0.08	5.71			5.71	
Ethephon 6E	pt	1.06			0.01	1.07			1.07	
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12	0.33	48.03	121.31	169.34	
Gin & Haul	lb	132.00			0.91	132.91			132.91	
Stalk Shredder-Flail	15'		5.84	4.54	3.55	0.10	14.03	11.99	26.02	
1/4-mi. Pivot Irr.	acre	38.53	21.95	1.84	1.85	64.17	99.50	163.67		
TOTALS		674.29	81.07	64.87	27.72	0.00	31.26	879.21	292.16	1171.37

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

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	1141.56
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	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	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	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	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	28.69	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	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	2.52	0.00	0.00	0.00	0.43	1.90	5.57	4.12	1.28	0.58	0.65	10.67
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	4.17	0.00	0.00	0.00	0.51	2.75	5.83	17.19	16.69	12.07	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	21.45	2.51	1.70	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	8.90	5.17	1.39	0.42	0.25	1.34
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	224.87	155.12	51.68	20.96	18.05	194.97
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-224.87	-155.12	-51.68	-20.96	-18.05	946.59
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-438.43	-593.55	-645.23	-666.19	-684.24	262.35

Note: Cost of production estimates are based on 2023 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, Mississippi, 2024

PRODUCT		75	80	85	90	95	100	105	110	115	120	125	PERCENT-----		
													PRODUCT	PRICE	dollars-----
Cotton Lint		0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00			
PERCENT YIELD UNIT -----															
50	600.00	lb	-273 -565	-249 -541	-225 -517	-201 -493	-176 -469	-152 -445	-128 -420	-104 -396	-80 -372	-56 -348	-32 -324		
60	720.00	lb	-214 -506	-185 -477	-156 -448	-127 -419	-98 -390	-69 -361	-40 -333	-12 -304	16 -275	45 -246	74 -217		
70	840.00	lb	-155 -447	-121 -413	-87 -380	-54 -346	-20 -312	13 -278	46 -245	80 -211	114 -177	148 -144	181 -110		
80	960.00	lb	-96 -388	-57 -350	-19 -311	19 -272	57 -234	96 -195	134 -157	173 -118	211 -80	250 -41	288 -3		
90	1080.00	lb	-37 -329	5 -286	49 -242	92 -199	135 -156	179 -112	222 -69	266 -26	309 17	352 60	396 103		
100	1200.00	lb	21 -270	69 -222	117 -174	166 -126	214 -77	262 -29	310 18	358 66	406 114	455 162	503 211		
110	1320.00	lb	80 -211	133 -158	186 -105	239 -52	292 0	345 53	398 106	451 159	504 212	557 265	610 318		
120	1440.00	lb	139 -152	197 -94	255 -37	312 20	370 78	428 136	486 194	544 251	601 309	659 367	717 425		
130	1560.00	lb	198 -93	261 -31	323 31	386 94	448 156	511 219	574 281	636 344	699 407	761 469	824 532		
140	1680.00	lb	257 -34	324 32	392 100	459 167	527 234	594 302	661 369	729 437	796 504	864 572	931 639		
150	1800.00	lb	316 24	388 96	460 168	533 240	605 313	677 385	749 457	822 529	894 602	966 674	1038 746		

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 2023 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, 2024

Item Name	Size	Purchase	Annual	Useful	Fuel	Labor	Fuel	R&M	Total	Fixed	Total
		Price	Use	Life	Use				Direct		Cost
		dollars	hours	years	gal/hr				\$/hour		
Combine (250-299 hp)	265 hp	463,000	300	8	13.64	17.94	46.92	48.22	113.09	230.93	344.02
Combine (300-349 hp)	325 hp	530,000	300	8	16.73	17.94	57.55	55.20	130.69	264.34	395.04
Combine (350-399 hp)	355 hp	549,000	300	8	18.27	17.94	62.84	57.18	137.97	273.82	411.80
Combine (400-449 hp)	425 hp	560,000	300	8	21.87	17.94	75.25	58.33	151.52	279.31	430.83
Combine (450-499hp)	475 hp	586,000	300	8	24.44	17.94	84.10	61.04	163.08	292.28	455.36
Tractor(20-39hp)CB	MFWD 30	37,100	600	8	1.54	17.94	5.31	1.15	24.41	8.68	33.09
Tractor(20-39hp)RB	MFWD 30	27,200	600	8	1.54	17.94	5.31	0.85	24.10	6.36	30.46
Tractor(40-59hp)CB	2WD 50	39,900	600	8	2.57	17.94	8.85	1.24	28.04	9.33	37.37
Tractor(40-59hp)CB	MFWD 50	50,300	600	8	2.57	17.94	8.85	1.57	28.36	11.77	40.13
Tractor(40-59hp)RB	2WD 50	28,100	600	8	2.57	17.94	8.85	0.87	27.67	6.57	34.24
Tractor(40-59hp)RB	MFWD 50	33,900	600	8	2.57	17.94	8.85	1.05	27.85	7.93	35.78
Tractor(60-89hp)CB	2WD 75	64,000	600	8	3.86	17.94	13.27	2.00	33.21	14.97	48.19
Tractor(60-89hp)CB	MFWD 75	74,900	600	8	3.86	17.94	13.27	2.34	33.56	17.52	51.08
Tractor(60-89hp)RB	2WD 75	59,800	600	8	3.86	17.94	13.27	1.86	33.08	13.99	47.08
Tractor(60-89hp)RB	MFWD 75	53,500	600	8	3.86	17.94	13.27	1.67	32.89	12.51	45.41
Tractor(90-119hp)CB	2WD 105	94,400	600	8	5.40	17.94	18.59	2.95	39.48	22.08	61.57
Tractor(90-119hp)CB	MFWD 105	102,500	600	8	5.40	17.94	18.59	3.20	39.73	23.98	63.71
Tractor(90-119hp)RB	2WD 105	84,000	600	8	5.40	17.94	18.59	2.62	39.15	19.65	58.81
Tractor(90-119hp)RB	MFWD 105	90,700	600	8	5.40	17.94	18.59	2.83	39.36	21.22	60.58
Tractor(120-139hp)CB	2WD 130	135,400	600	8	6.69	17.94	23.01	4.23	45.18	31.68	76.87
Tractor(120-139hp)CB	MFWD 130	170,900	600	8	6.69	17.94	23.01	5.34	46.29	39.99	86.28
Tractor(140-159hp)	2WD 150	137,500	600	8	7.72	17.94	26.55	4.29	48.79	32.17	80.97
Tractor(140-159hp)CB	MFWD 150	171,000	600	8	7.72	17.94	26.55	5.34	49.84	40.01	89.85
Tractor(160-179hp)CB	MFWD 170	201,000	600	8	8.75	17.94	30.10	6.28	54.32	48.58	102.90
Tractor(180-199hp)CB	MFWD 190	246,000	600	8	9.77	17.94	33.64	7.68	59.27	59.45	118.72
Tractor(200-249hp)CB	MFWD 225	309,000	600	8	11.58	17.94	39.83	9.65	67.43	74.68	142.11
Tractor(250-349hp)CB	4WD 300	432,000	600	8	15.44	17.94	53.11	13.50	84.55	104.41	188.97
Tractor(250-349hp)CB	MFWD 300	357,000	600	8	15.44	17.94	53.11	11.15	82.21	86.28	168.49
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	17.94	53.11	10.28	81.34	79.51	160.85
Tractor(350-449hp)	Track 400	625,000	600	8	20.58	17.94	70.82	19.53	108.29	151.05	259.35
Tractor(350-449hp)CB	4WD 400	480,000	600	8	20.58	17.94	70.82	15.00	103.76	116.01	219.77
Tractor(450-550hp)CB	4WD 500	426,000	600	8	25.73	17.94	88.53	13.31	119.78	102.96	222.74
Tractor(450-550hp)CB	Track 500	653,000	600	8	25.73	17.94	88.53	20.40	126.87	157.82	284.70
Utility Vehicle	800 CC	12,200	200	8	0.70	17.94	2.24	1.90	22.09	9.12	31.22
Utility Vehicle	900 CC	18,700	200	8	1.00	17.94	3.21	2.92	24.07	13.99	38.06

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, 2024

Item Name	Size	Purchase	Annual	Useful	Fuel	Perf	Labor	Fuel	R&M	Total	Fixed	Total
		Price	Use	Life	Use	Rate				Direct		Cost
		dollars	hours	years	gal/hr	hr/ac				\$/acre		
Cotton Picker	4R-38 (250)	268,000	200	8	12.86	0.257	6.96	11.41	10.79	29.16	51.68	80.85
Cotton Picker	4R-38 (350)	351,000	200	8	18.01	0.257	6.96	15.97	14.13	37.07	67.69	104.76
Cotton Picker	4R2x1 (350)	357,000	200	8	18.01	0.172	4.65	10.67	9.61	24.94	46.02	70.96
Cotton Picker	6R-30 (355)	465,000	200	8	18.27	0.218	5.89	13.71	15.85	35.46	75.92	111.39
Cotton Picker	6R-38 (355)	465,000	200	8	18.27	0.172	4.65	10.83	12.51	28.00	59.94	87.94
Cotton Picker/Modu	4R-38 (365)	536,000	200	8	20.58	0.257	6.96	18.25	21.58	46.80	103.37	150.17
Cotton Picker/Module	6R-30 (500)	936,000	200	8	25.73	0.218	5.89	19.32	31.91	57.13	152.83	209.96
Cotton Picker/Module	6R-38 (500)	941,000	200	8	25.73	0.172	4.65	15.25	25.33	45.24	121.30	166.55
Dry Applicator SP	70'300cuft	469,000	350	8	16.98	0.015	0.33	0.88	0.37	1.60	3.02	4.63
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.39	0.54	0.20	1.14	1.62	2.77
Sprayer 600-825gal	80' 175hp	268,000	350	8	11.81	0.013	0.29	0.53	0.18	1.02	1.51	2.53
Sprayer 600-825gal	90' 250hp	331,000	350	8	12.73	0.011	0.26	0.51	0.20	0.98	1.66	2.65
Sprayer 800gal	100' 250hp	364,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 800gal	80' 250hp	294,000	350	8	12.86	0.013	0.29	0.58	0.20	1.09	1.66	2.75
Sprayer 1000-1400gal	90' 275hp	363,000	350	8	14.15	0.010	0.23	0.51	0.20	0.95	1.64	2.60
Sprayer 1000gal	100' 300hp	492,000	350	8	15.44	0.010	0.23	0.56	0.27	1.07	2.22	3.30
Sprayer 1200+gal	120' 300hp	472,000	350	8	15.44	0.008	0.19	0.46	0.22	0.88	1.77	2.66

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, 2024

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Imp.	--Fixed---		Total Cost
									Imp.	P.U.	Direct	Imp.	P.U.	
			dollars	hours	years	hr/ac			-----\$/acre-----					
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.66	8.14	2.05	1.97	15.83	4.57	15.25	35.66
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.92	4.28	1.47	1.03	8.72	3.29	8.03	20.05
Bed-Rip/Disk Fold.	8R-38	MFWD 190	71,000	300	20	0.073	1.31	2.45	0.25	0.56	4.59	1.72	4.34	10.65
Bed-Rip/Disk Fold.	12R-30	MFWD 225	100,200	300	20	0.061	1.10	2.45	0.30	0.59	4.46	2.04	4.60	11.11
Bed-Rip/Disk Fold.	12R-38	MFWD 225	100,200	300	20	0.046	0.82	1.84	0.23	0.44	3.34	1.53	3.45	8.33
Bed-Rip/Disk Rigid	4R-30	MFWD 190	31,500	300	20	0.184	3.31	6.21	0.29	1.42	11.24	1.93	10.99	24.17
Bed-Rip/Disk Rigid	4R-38	MFWD 190	31,500	300	20	0.146	2.63	4.93	0.23	1.12	8.92	1.53	8.72	19.18
Bed-Rip/Disk Rigid	6R-30	MFWD 190	43,600	300	20	0.123	2.21	4.14	0.26	0.94	7.57	1.78	7.32	16.68
Bed-Rip/Disk Rigid	6R-38	MFWD 190	43,600	300	20	0.097	1.74	3.27	0.21	0.74	5.97	1.40	5.78	13.17
Bed-Rip/Disk Rigid	8R-30	MFWD 190	57,800	300	20	0.139	2.49	4.67	0.40	1.06	8.64	2.66	8.26	19.56
Bed-Rip/Disk Rigid	8R-38	MFWD 190	57,800	300	20	0.073	1.31	2.45	0.21	0.56	4.54	1.40	4.34	10.28
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	43,600	150	12	0.107	1.92	4.28	1.69	1.03	8.94	3.77	8.03	20.75
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.44	3.21	1.43	0.77	6.88	3.20	6.03	16.12
Bed-Subsoil Fold	8R-38	MFWD 225	71,000	150	12	0.080	1.44	3.21	2.07	0.77	7.51	4.61	6.03	18.16
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Fold	12R-38	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.66	8.14	1.92	1.97	15.70	4.29	15.25	35.26
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.44	5.42	1.78	1.31	10.97	3.98	10.17	25.12
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.92	4.28	1.46	1.03	8.71	3.26	8.03	20.01
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.83	4.07	1.78	0.98	8.67	3.99	7.63	20.30
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.44	3.21	1.46	0.77	6.90	3.25	6.03	16.19
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.64	3.92	0.57	0.78	7.93	1.91	5.90	15.76
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.77	2.97	0.58	0.61	5.95	1.94	4.79	12.69
Bed/Disk (Hipper)	8R-30	MFWD 190	33,100	160	10	0.093	1.68	3.15	0.77	0.72	6.33	2.56	5.57	14.47
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	114,000	160	10	0.049	0.88	1.65	1.40	0.37	4.33	4.64	2.93	11.91
Bed/Disk (Hipper)	12R-30	MFWD 225	87,500	160	10	0.062	1.12	2.48	1.36	0.60	5.58	4.51	4.66	14.76
Bed/Disk (Hipper)	12R-38	MFWD 225	114,000	160	10	0.049	0.88	1.96	1.40	0.47	4.73	4.64	3.68	13.06
Bed/Disk (Hipper)	16R40	MFWD 300	135,000	160	10	0.035	0.63	1.87	1.19	0.39	4.10	3.94	3.05	11.10
Bed/Disk (Hipper) F1	8R-38	MFWD 190	45,800	160	10	0.074	1.32	2.49	0.84	0.56	5.24	2.80	4.40	12.45
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	36,100	160	10	0.074	1.32	2.49	0.66	0.56	5.06	2.21	4.40	11.67
Bed/Disk w/roller	8R-30	MFWD 190	59,900	160	10	0.093	1.68	3.15	1.40	0.72	6.96	4.63	5.57	17.17
Bed/Disk w/roller	8R-38	MFWD 190	68,500	160	10	0.074	1.32	2.49	1.26	0.56	5.66	4.19	4.40	14.26
Bed/Disk w/roller	12R-30/40	MFWD 225	113,000	160	10	0.062	1.12	2.48	1.76	0.60	5.98	5.83	4.66	16.48
Bed/Lister	4R-38	MFWD 150	31,900	160	8	0.228	4.09	6.06	1.70	1.22	13.09	6.60	9.13	28.83
Bed/Lister	6R-38	MFWD 150	36,000	160	8	0.120	2.15	3.19	1.01	0.64	7.00	3.92	4.80	15.73
Bed/Lister	8R-30	MFWD 190	48,300	160	8	0.114	2.04	3.84	1.29	0.87	8.06	4.99	6.78	19.84
Bed/Lister	8R-38	MFWD 190	48,700	160	8	0.090	1.61	3.03	1.03	0.69	6.38	3.98	5.36	15.73
Bed/Lister	8R-38 2x1	MFWD 190	81,500	160	8	0.060	1.07	2.02	1.14	0.46	4.71	4.43	3.57	12.72
Bed/Lister	12R-38	MFWD 225	81,500	160	8	0.060	1.07	2.39	1.14	0.58	5.20	4.43	4.48	14.12
Bed/Lister	16R-30	MFWD 225	94,300	160	8	0.035	0.63	1.39	0.77	0.33	3.14	3.00	2.62	8.77
Bed/Lister	16R40	MFWD 300	99,200	160	8	0.043	0.77	2.28	1.00	0.48	4.54	3.87	3.71	12.13
Bed/Lister-Roll-Fo	8R-38	MFWD 190	30,100	160	10	0.095	1.72	3.22	0.72	0.73	6.40	2.38	5.70	14.49
Bed/Lister-Roll-Fo	12R-30	MFWD 225	65,100	160	10	0.080	1.45	3.22	1.31	0.78	6.77	4.34	6.04	17.16
Bed/Lister-Roll-Fo	12R-38	MFWD 225	48,400	160	10	0.063	1.14	2.54	0.77	0.61	5.07	2.55	4.76	12.39
Bed/Lister-Roll-Fo	16R-30	MFWD 225	56,800	160	10	0.060	1.08	2.41	0.86	0.58	4.95	2.84	4.53	12.32
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.72	3.22	0.59	0.73	6.28	1.98	5.70	13.96
Blade-Box 6'-7'	MFWD 105	2,080	200	20	0.020	0.35	0.37	0.01	0.05	0.80	0.02	0.42	1.25	
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R-38 (350)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R2x1 (350)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Boll Buggy	6R-30 (355)	MFWD 190	30,500	200	10	0.218	3.91	7.34	1.66	1.67	14.59	4.28	12.97	31.86
Boll Buggy	6R-38 (355)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Chisel Plow-Folding	24'	MFWD 190	57,300	150	12	0.076	1.37	2.57	1.58	0.58	6.11	3.52	4.54	14.18
Chisel Plow-Folding	32'	MFWD 225	72,800	150	12	0.057	1.03	2.30	1.51	0.55	5.41	3.38	4.31	13.11
Chisel Plow-Folding	42'	MFWD 225	86,400	150	12	0.044	0.78	1.75	1.37	0.42	4.34	3.06	3.28	10.69
Chisel Plow-Folding	50'	MFWD 225	108,100	150	12	0.036	0.66	1.47	1.44	0.35	3.93	3.21	2.76	9.91
Chisel Plow-Folding	61'	MFWD 225	135,400	150	12	0.030	0.54	1.20	1.48	0.29	3.52	3.30	2.26	9.09
Chisel Plow-Rigid	10'	MFWD 170	15,300	150	12	0.184	3.31	5.56	1.02	1.16	11.06	2.27	8.98	22.32
Chisel Plow-Rigid	15'	2WD 130	20,300	150	12	0.123	2.21	2.83	0.90	0.52	6.47	2.01	3.90	12.39
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.84	4.09	0.49	0.99	7.42	1.10	7.67	16.20
Cultivate	4R-30	2WD 105	21,500	150	10	0.206	3.70	3.83	1.18	0.60	9.32	3.90	4.55	17.78
Cultivate	4R-38	2WD 105	21,500	150	10	0.162	2.91	3.01	0.93	0.42	7.29	3.07	3.19	13.55
Cultivate	6R-30	MFWD 150	28,100	150	10	0.137	2.46	3.65	1.03	0.73	7.88	3.40	5.50	16.79
Cultivate	6R-38	MFWD 150	28,000	150	10	0.108	1.94	2.88	0.81	0.58	6.22	2.67	4.34	13.24
Cultivate	8R-30	MFWD 190	38,400	150	10	0.103	1.85	3.46	1.05	0.79	7.16	3.48	6.13	16.79
Cultivate	8R-38	MFWD 190	38,300	150	10	0.073	1.32	2.47	0.75	0.56	5.11	2.48	4.37	11.98
Cultivate	8R-38 2x1	MFWD 190	59,100	150	10	0.054	0.97	1.82	0.85	0.41	4.07	2.82	3.22	10.12
Cultivate	12R-30	MFWD 225	62,000	150	10	0.068	1.23	2.73	1.13	0.66	5.77	3.75	5.13	14.66
Cultivate	12R-38	MFWD 225	59,100	150	10	0.054	0.97	2.16	0.85	0.52	4.51	2.82	4.05	11.39
Cultivate	16R-30	MFWD 225	83,400	150	10	0.051	0.92	2.05	1.14	0.49	4.62	3.78	3.85	12.26</td

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed--		Total Cost
									Imp.	P.U.	Direct		Imp.	P.U.	
			dollars	hours	years	hr/ac			\$/acre-----						
Cultivate & Post	12R-30	MFWD 225	67,800	150	10	0.073	1.64	2.92	1.32	0.70	6.60	4.38	5.47	16.46	
Cultivate & Post	12R-38	MFWD 225	64,900	150	10	0.057	1.30	2.30	1.00	0.55	5.16	3.31	4.32	12.80	
Cultivate & Post	16R-30	MFWD 225	89,200	150	10	0.055	1.23	2.19	1.30	0.53	5.26	4.32	4.10	13.69	
Disk & Incorporate	14'	2WD 130	45,300	200	10	0.149	3.36	3.44	2.03	0.63	9.47	4.48	4.74	18.69	
Disk & Incorporate	20'	MFWD 190	96,900	200	10	0.092	2.07	3.10	2.68	0.71	8.58	5.92	5.49	20.00	
Disk & Incorporate	24'	MFWD 190	77,700	200	10	0.087	1.96	2.93	2.03	0.67	7.60	4.48	5.19	17.27	
Disk & Incorporate	28'	MFWD 225	80,500	200	10	0.074	1.68	2.98	1.80	0.72	7.19	3.98	5.58	16.76	
Disk & Incorporate	32'	MFWD 225	95,100	200	10	0.065	1.47	2.60	1.86	0.63	6.58	4.11	4.89	15.58	
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.51	3.22	1.53	0.59	7.87	4.05	4.44	16.38	
Disk Harrow	20'	MFWD 190	91,100	180	10	0.098	1.76	3.30	2.48	0.75	8.30	6.57	5.83	20.71	
Disk Harrow	24'	MFWD 190	71,900	180	10	0.081	1.46	2.75	1.63	0.62	6.48	4.32	4.86	15.67	
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.25	2.79	1.45	0.67	6.18	3.84	5.23	15.27	
Disk Harrow	32'	MFWD 225	89,300	180	10	0.061	1.10	2.44	1.52	0.59	5.66	4.02	4.58	14.27	
Disk Harrow	42'	MFWD 225	145,000	180	10	0.046	0.83	1.86	1.88	0.45	5.03	4.98	3.49	13.51	
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.51	1.86	0.90	0.26	5.54	2.38	1.96	9.88	
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.61	3.87	1.59	0.77	8.87	4.22	5.83	18.93	
Disk Heavy	20'	MFWD 190	91,100	180	10	0.097	1.74	3.27	2.46	0.74	8.22	6.50	5.78	20.52	
Disk Heavy	28'	MFWD 225	74,700	180	10	0.075	1.35	3.01	1.57	0.73	6.67	4.15	5.65	16.47	
Disk Ripper	15'	MFWD 225	60,400	180	10	0.136	2.44	5.42	2.28	1.31	11.47	6.04	10.17	27.68	
Ditcher		2WD 130	8,760	200	10	0.020	0.35	0.46	0.07	0.08	0.97	0.11	0.63	1.72	
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.16	0.21	0.03	0.03	0.45	0.05	0.29	0.80	
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.47	4.10	2.61	0.82	11.02	3.67	6.18	20.89	
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.94	3.94	2.20	0.82	9.91	3.10	6.36	19.37	
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.32	3.11	1.74	0.64	7.82	2.44	5.02	15.29	
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.20	3.30	1.72	0.75	7.98	2.41	5.83	16.24	
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.74	2.61	1.52	0.59	6.48	2.14	4.61	13.24	
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.16	1.73	1.13	0.39	4.43	1.59	3.07	9.09	
Fert Appl (Liquid)	12R-30	MFWD 225	28,800	150	8	0.078	1.76	3.13	1.50	0.75	7.16	2.11	5.86	15.14	
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.16	2.05	1.07	0.49	4.79	1.50	3.86	10.15	
Field Cult & Inc	42'	MFWD 225	91,300	100	10	0.037	0.84	1.50	0.86	0.36	3.58	4.55	2.82	10.95	
Field Cult & Inc	50'	MFWD 225	92,600	100	10	0.031	0.71	1.26	0.73	0.30	3.01	3.88	2.36	9.27	
Field Cult & Inc Fld	24'	MFWD 170	44,400	100	10	0.066	1.48	1.98	0.73	0.41	4.62	3.88	3.21	11.71	
Field Cult & Inc Fld	32'	MFWD 190	67,200	100	10	0.049	1.11	1.66	0.83	0.38	3.99	4.40	2.94	11.34	
Field Cult & Inc Rdg	12'	2WD 150	23,000	100	10	0.132	2.97	3.51	0.76	0.56	7.81	4.01	4.25	16.08	
Field Cultivate Fld	24'	MFWD 170	38,600	100	10	0.062	1.11	1.87	0.60	0.39	3.98	3.17	3.02	10.17	
Field Cultivate Fld	32'	MFWD 190	61,400	100	10	0.046	0.83	1.56	0.71	0.35	3.48	3.78	2.77	10.04	
Field Cultivate Fld	42'	MFWD 225	80,900	100	10	0.035	0.63	1.41	0.71	0.34	3.11	3.80	2.65	9.57	
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.53	1.18	0.61	0.28	2.63	3.27	2.23	8.13	
Field Cultivate Rdg	12'	2WD 150	17,200	100	10	0.124	2.23	3.30	0.53	0.53	6.60	2.82	4.00	13.43	
Grain Cart Corn	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.74	0.53	1.50	3.78	
Grain Cart Corn	700 bu	MFWD 190	54,400	200	12	0.025	0.45	0.85	0.37	0.19	1.87	0.83	1.50	4.20	
Grain Cart Corn	1000 bu	MFWD 225	74,000	200	12	0.025	0.45	1.00	0.50	0.24	2.21	1.13	1.88	5.23	
Grain Cart Rice	500 bu	MFWD 190	35,100	200	12	0.062	1.12	2.10	0.59	0.48	4.29	1.32	3.71	9.33	
Grain Cart Rice	700 bu	MFWD 190	54,400	200	12	0.055	0.98	1.85	0.81	0.42	4.07	1.80	3.27	9.14	
Grain Cart Rice	1000 bu	MFWD 190	74,000	200	12	0.045	0.82	1.54	0.91	0.35	3.63	2.04	2.72	8.40	
Grain Cart Soybean	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81	
Grain Cart Soybean	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53	
Grain Cart Soybean	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89	
Grain Cart Wht/Sor	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81	
Grain Cart Wht/Sor	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53	
Grain Cart Wht/Sor	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89	
Grain Drill	10'	2WD 130	42,700	150	8	0.188	5.09	4.34	3.01	0.79	13.24	7.28	5.97	26.51	
Grain Drill	12'	2WD 130	51,400	150	8	0.157	4.24	3.61	3.02	0.66	11.55	7.31	4.97	23.84	
Grain Drill	15'	MFWD 150	46,800	150	8	0.125	3.39	3.33	2.20	0.67	9.61	5.32	5.03	19.96	
Grain Drill	20'	MFWD 170	53,500	150	8	0.094	2.54	2.83	1.89	0.59	7.86	4.56	4.58	17.01	
Grain Drill	24'	MFWD 190	80,300	150	8	0.078	2.12	2.64	2.36	0.60	7.73	5.71	4.67	18.11	
Grain Drill	30'	MFWD 225	96,600	150	8	0.062	1.69	2.50	2.27	0.60	7.08	5.49	4.69	17.27	
Grain Drill	35'	MFWD 225	114,000	150	8	0.053	1.45	2.14	2.30	0.52	6.42	5.56	4.02	16.00	
Grain Drill & Pre	10'	2WD 130	48,500	150	8	0.203	5.48	4.67	3.69	0.85	14.71	8.91	6.43	30.06	
Grain Drill & Pre	12'	2WD 130	57,200	150	8	0.169	4.56	3.89	3.62	0.71	12.81	8.76	5.36	26.93	
Grain Drill & Pre	15'	MFWD 150	52,600	150	8	0.135	3.65	3.59	2.67	0.72	10.64	6.44	5.41	22.50	
Grain Drill & Pre	20'	MFWD 170	59,300	150	8	0.101	2.74	3.05	2.25	0.63	8.69	5.45	4.93	19.07	
Grain Drill & Pre	24'	MFWD 190	86,100	150	8	0.084	2.28	2.84	2.73	0.65	8.51	6.59	5.03	20.14	
Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.067	1.82	2.69	2.58	0.65	7.76	6.24	5.05	19.07	
Grain Drill & Pre	35'	MFWD 225	120,000	150	8	0.058	1.56	2.31	2.61	0.56	7.04	6.30	4.33	17.68	
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.69	2.50	1.34	0.60	6.15	3.24	4.69	14.09	
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.16	2.17	0.31	0.49	4.14	0.59	3.84	8.58	
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.92	1.74	0.27	0.39	3.34	0.52	3.07	6.94	
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.69	1.30	0.28	0.29	2.59	0.54	2.30	5.44	
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.58	1.28	0.29	0.31	2.47	0.55	2.41	5.44	
Header - Corn	6R-30	265 hp	72,300	300	8	0.170	3.05	7.98	3.07	8.21	22.33	5.76	39.32	67.41	
Header - Corn	6R-38	265 hp	73,500	300	8	0.134	2.41	6.30	2.47	6.48	17.67	4.62	31.04	53.34	
Header - Corn	8R-30	265 hp	99,100	300	8	0.127	2.29	5.99	3.16	6.15	17.60	5.92	29.49	53.02	
Header - Corn	8R-38	325 hp	87,300	300	8	0.100	1.81	5.81	2.20</td						

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed--		Total Cost	
									Imp.	P.U.	Direct		Imp.	P.U.		
			dollars	hours	years	hr/ac			\$/acre-----							
Header - Draper (CL)	36'	Rigid	355 hp	89,900	300	8	0.141	2.53	8.86	2.90	8.06	22.36	5.73	38.61	66.72	
Header - Draper (CL)	40'	Rigid	425 hp	95,200	300	8	0.126	2.27	9.55	2.76	7.40	22.00	5.46	35.45	62.91	
Header - Draper (SL)	25'	Rigid	325 hp	83,200	300	8	0.176	3.15	10.12	3.35	9.71	26.35	6.62	46.52	79.51	
Header - Draper (SL)	30'	Rigid	325 hp	85,600	300	8	0.146	2.63	8.44	2.87	8.09	22.04	5.68	38.77	66.50	
Header - Draper (SL)	36'	Rigid	355 hp	89,900	300	8	0.122	2.19	7.68	2.51	6.98	19.38	4.97	33.46	57.82	
Header - Draper (SL)	40'	Rigid	425 hp	95,200	300	8	0.110	1.97	8.27	2.39	6.41	19.06	4.73	30.72	54.53	
Header - RiceStrp(CL)	20'		265 hp	50,600	300	8	0.253	4.55	11.91	3.21	12.24	31.91	6.01	58.62	96.55	
Header - RiceStrp(CL)	24'		325 hp	54,000	300	8	0.211	3.79	12.17	2.85	11.67	30.50	5.34	55.92	91.77	
Header - RiceStrp(CL)	32'		325 hp	70,800	300	8	0.158	2.84	9.13	2.80	8.75	23.54	5.25	41.93	70.73	
Header - RiceStrp(SL)	20'		265 hp	50,600	300	8	0.220	3.94	10.32	2.78	10.61	27.66	5.20	50.80	83.67	
Header - RiceStrp(SL)	24'		325 hp	54,000	300	8	0.183	3.28	10.55	2.47	10.12	26.43	4.63	48.46	79.53	
Header - RiceStrp(SL)	32'		325 hp	70,800	300	8	0.137	2.46	7.91	2.43	7.59	20.40	4.55	36.34	61.30	
Header - Soybean	22'	Flex	265 hp	42,600	300	8	0.116	2.08	5.44	1.23	5.59	14.36	2.31	26.81	43.49	
Header - Soybean	25'	Flex	325 hp	42,000	300	8	0.102	1.83	5.88	1.07	5.64	14.42	2.00	27.00	43.44	
Header - Soybean	30'	Flex	325 hp	48,600	300	8	0.085	1.52	4.89	1.03	4.70	12.16	1.93	22.50	36.60	
Header - Soybean	35'	Flex	355 hp	58,300	300	8	0.072	1.30	4.58	1.06	4.17	11.13	1.99	19.98	33.10	
Header Wheat/Sorghum	22'	Rigid	265 hp	19,800	300	8	0.116	2.08	5.44	0.57	5.59	13.70	1.07	26.81	41.59	
Header Wheat/Sorghum	25'	Rigid	325 hp	41,800	300	8	0.102	1.83	5.88	1.06	5.64	14.42	1.99	27.00	43.42	
Header Wheat/Sorghum	30'	Rigid	325 hp	55,100	300	8	0.085	1.52	4.89	1.17	4.70	12.30	2.19	22.50	37.00	
Land Plane	50'x16'	MFWD	190	13,500	200	10	0.151	2.72	5.10	0.40	1.16	9.39	1.35	9.01	19.76	
Levee Pull & Seed	8	Blade	MFWD	170	17,600	100	10	0.003	0.06	0.10	0.01	0.02	0.20	0.08	0.17	0.46
Levee Pull (1m/80a)	8	blade	MFWD	170	8,370	100	10	0.003	0.06	0.10	0.00	0.02	0.19	0.03	0.17	0.41
Levee Splitter (1/80)	32"	MFWD	150	9,220	100	10	0.004	0.07	0.11	0.00	0.02	0.21	0.05	0.16	0.43	
Module Builder	4R-38 (250)	MFWD	190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93	
Module Builder	4R-38 (350)	MFWD	190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93	
Module Builder	4R2x1 (350)	MFWD	190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36	
Module Builder	6R-30 (355)	MFWD	190	34,700	200	10	0.218	5.89	7.34	1.89	1.67	16.80	4.87	12.97	34.66	
Module Builder	6R-38 (355)	MFWD	190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36	
NT Grain Drill	10'	2WD	130	42,400	150	8	0.235	6.36	5.42	3.74	0.99	16.53	9.04	7.46	33.04	
NT Grain Drill	12'	2WD	130	57,200	150	8	0.163	4.41	3.76	3.51	0.69	12.39	8.47	5.18	26.05	
NT Grain Drill	15'	MFWD	150	73,300	150	8	0.130	3.53	3.47	3.59	0.69	11.31	8.68	5.23	25.24	
NT Grain Drill	20'	MFWD	170	98,900	150	8	0.098	2.65	2.95	3.64	0.61	9.86	8.79	4.77	23.43	
NT Grain Drill	24'	MFWD	190	111,300	150	8	0.081	2.20	2.75	3.41	0.62	9.00	8.24	4.86	22.12	
NT Grain Drill	30'	MFWD	225	110,200	150	8	0.065	1.76	2.60	2.70	0.63	7.71	6.53	4.89	19.13	
NT Grain Drill & Pre	10'	2WD	130	48,200	150	8	0.211	5.71	4.86	3.82	0.89	15.29	9.22	6.70	31.23	
NT Grain Drill & Pre	12'	2WD	130	63,000	150	8	0.176	4.75	4.05	4.16	0.74	13.72	10.05	5.58	29.36	
NT Grain Drill & Pre	15'	MFWD	150	79,100	150	8	0.141	3.80	3.74	4.18	0.75	12.49	10.09	5.64	28.23	
NT Grain Drill & Pre	20'	MFWD	170	105,000	150	8	0.105	2.85	3.18	4.16	0.66	10.86	10.05	5.13	26.06	
NT Grain Drill & Pre	24'	MFWD	190	117,000	150	8	0.088	2.37	2.96	3.86	0.67	9.88	9.33	5.24	24.46	
NT Grain Drill & Pre	30'	MFWD	225	116,000	150	8	0.070	1.90	2.80	3.06	0.68	8.46	7.40	5.26	21.13	
NT Plant&Pre-Folding	8R-38	MFWD	170	83,600	150	8	0.083	2.25	2.51	2.62	0.52	7.92	6.32	4.06	18.30	
NT Plant&Pre-Folding	8R-38 2x1	MFWD	170	119,000	150	8	0.055	1.50	1.67	2.48	0.34	6.01	5.99	2.70	14.71	
NT Plant&Pre-Folding	12R-20	MFWD	190	82,800	150	8	0.105	2.85	3.55	3.28	0.81	10.51	7.92	6.28	24.72	
NT Plant&Pre-Folding	12R-30	MFWD	190	108,000	150	8	0.070	1.90	2.37	2.85	0.54	7.67	6.89	4.19	18.75	
NT Plant&Pre-Folding	12R-38	MFWD	190	119,000	150	8	0.055	1.50	1.87	2.48	0.42	6.28	5.99	3.30	15.59	
NT Plant&Pre-Folding	16R-30	MFWD	190	193,000	150	8	0.052	1.42	1.77	3.82	0.40	7.44	9.23	3.14	19.82	
NT Plant&Pre-Folding	23R-15	MFWD	190	218,000	150	8	0.073	1.98	2.47	6.00	0.56	11.02	14.49	4.36	29.88	
NT Plant&Pre-Folding	24R-20	MFWD	190	254,000	150	8	0.052	1.42	1.77	5.03	0.40	8.65	12.15	3.14	23.95	
NT Plant&Pre-Folding	24R-30	MFWD	190	227,000	150	8	0.035	0.95	1.18	3.00	0.27	5.41	7.24	2.09	14.75	
NT Plant&Pre-Folding	31R-15	MFWD	225	267,000	150	8	0.054	1.47	2.17	5.47	0.52	9.65	13.21	4.08	26.94	
NT Plant&Pre-Folding	32R-15	MFWD	225	272,000	150	8	0.052	1.42	2.10	5.39	0.51	9.43	13.02	3.94	26.40	
NT Plant&Pre-Rigid	4R-30	2WD	130	41,900	150	8	0.211	5.71	4.86	3.32	0.89	14.79	8.02	6.70	29.52	
NT Plant&Pre-Rigid	4R-38	2WD	130	37,500	150	8	0.166	4.49	3.83	2.34	0.70	11.37	5.65	5.27	22.31	
NT Plant&Pre-Rigid	6R-30	MFWD	150	50,800	150	8	0.141	3.80	3.74	2.68	0.75	10.99	6.48	5.64	23.12	
NT Plant&Pre-Rigid	6R-38	MFWD	150	49,500	150	8	0.111	3.00	2.95	2.06	0.59	8.62	4.98	4.45	18.06	
NT Plant&Pre-Rigid	8R-30	MFWD	170	65,200	150	8	0.105	2.85	3.18	2.58	0.66	9.29	6.24	5.13	20.67	
NT Plant&Pre-Rigid	8R-38	MFWD	170	62,300	150	8	0.083	2.25	2.51	1.95	0.52	7.25	4.71	4.06	16.02	
NT Plant&Pre-Rigid	11R-15	MFWD	170	70,000	150	8	0.051	1.39	1.73	2.11	0.39	12.89	9.11	6.99	29.00	
NT Plant&Pre-Rigid	11R-20	MFWD	170	73,800	150	8	0.115	3.12	3.47	3.19	0.72	10.52	7.72	5.61	23.86	
NT Plant&Pre-Rigid	12R-20	MFWD	190	78,700	150	8	0.105	2.85	3.55	3.12	0.81	10.34	7.53	6.28	24.17	
NT Plant&Pre-Rigid	12R-30	MFWD	190	100,400	150	8	0.070	1.90	2.37	2.65	0.54	7.47	6.40	4.19	18.07	
NT Plant&Pre-Rigid	15R-15	MFWD	190	96,800	150	8	0.113	3.05	3.80	4.10	0.86	11.83	9.91	6.72	28.47	
NT Plant&Pre-TwinRow	12R-30/40	MFWD	225	173,000	150	8	0.055	1.50	2.21	3.61	0.53	7.87	8.71	4.15	20.74	
NT Plant&Pre-TwinRow	8R-30/40	MFWD	225	135,300	150	8	0.083	2.25	3.33	4.24	0.80	10.63	10.24	6.24	27.12	
NT Plant-Folding	8R-38	MFWD	170	77,700	150	8	0.077	2.09	2.33	2.26	0.48	7.18	5.46	3.77	16.41	
NT Plant-Folding	8R-38 2x1	MFWD	170	109,000	150	8	0.051	1.39	1.55	2.11	0.32	5.38	5.10	2.51	13.00	
NT Plant-Folding	12R-20	MFWD	190	77,500	150	8	0.098	2.65	3.30	2.85	0.75	9.56	6.88	5.83	22.29	
NT Plant-Folding	12R-30	MFWD	190	97,600	150	8	0.065	1.76	2.20	2.39	0.50	6.87	5.78	3.89	16.54	
NT Plant-Folding	12R-38	MFWD	190	109,000	150	8	0.051	1.39	1.73	2.11	0.39	5.64	5.10	3.07	13.81	
NT Plant-Folding	16R-30	MFWD	190	182,000	150	8	0.049	1.32	1.65	3.35	0.37	6.70	8.09	2.91	17.71	
NT Plant-Folding																

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (continued)

Item Name	Size	Power Unit	Purchase	Annual	Useful	Perf	Labor	Fuel	---R&M---			Total	--Fixed--		Total
			Price	Use	Life	Rate			Imp.	P.U.	Direct	Imp.	P.U.	Cost	
			dollars	hours	years	hr/ac			\$/acre						
NT Plant-Rigid	8R-30	MFWD 170	59,400	150	8	0.098	2.65	2.95	2.18	0.61	8.41	5.28	4.77	18.46	
NT Plant-Rigid	8R-38	MFWD 170	56,500	150	8	0.077	2.09	2.33	1.64	0.48	6.56	3.97	3.77	14.30	
NT Plant-Rigid	11R-15	MFWD 170	64,200	150	8	0.133	3.60	4.02	3.21	0.83	11.68	7.76	6.49	25.94	
NT Plant-Rigid	11R-20	MFWD 170	68,000	150	8	0.107	2.89	3.23	2.73	0.67	9.54	6.60	5.21	21.36	
NT Plant-Rigid	12R-20	MFWD 190	72,900	150	8	0.098	2.65	3.30	2.68	0.75	9.39	6.48	5.83	21.71	
NT Plant-Rigid	12R-30	MFWD 190	90,000	150	8	0.065	1.76	2.20	2.20	0.50	6.68	5.33	3.89	15.91	
NT Plant-Rigid	15R-15	MFWD 190	86,500	150	8	0.105	2.83	3.53	3.40	0.80	10.58	8.22	6.24	25.05	
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.39	2.05	3.15	0.49	7.11	7.62	3.86	18.60	
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	2.09	3.09	3.78	0.74	9.72	9.13	5.79	24.65	
Peanut Cond. & Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.79	3.36	0.25	0.76	6.18	0.51	5.94	12.64	
Peanut Conditioner	6-Row	MFWD 190	24,800	300	20	0.100	1.79	3.36	0.49	0.76	6.42	0.78	5.94	13.15	
Peanut Dig/Invertor	4R-30	MFWD 190	45,300	300	15	0.235	4.23	7.93	2.65	1.81	16.63	4.09	14.02	34.75	
Peanut Dig/Invertor	4R-38	MFWD 190	45,300	300	15	0.186	3.34	6.26	2.09	1.43	13.13	3.23	11.07	27.44	
Peanut Dig/Invertor	6R-38	MFWD 190	64,100	300	15	0.124	2.22	4.17	1.39	0.95	8.74	3.05	7.37	19.17	
Peanut Dump Cart	6-Row	MFWD 190	70,000	300	20	0.310	5.56	10.42	1.26	2.38	19.63	7.19	18.43	45.26	
Peanut Harvester	4R-30	MFWD 225	175,000	300	20	0.849	15.24	33.86	8.42	8.20	65.74	47.27	63.48	176.50	
Peanut Harvester	4R-38	MFWD 225	175,000	300	20	0.934	16.76	37.23	9.26	9.02	72.29	53.10	69.79	195.18	
Peanut Harvester	6R-38	MFWD 225	194,000	300	20	0.625	11.21	24.89	5.86	6.03	48.00	39.36	46.67	134.05	
Peanut Lifter	6-Row	MFWD 225	9,960	300	20	0.100	1.79	3.98	0.20	0.96	6.94	0.31	7.46	14.73	
Peanut Plt&Pre Fld.	12R-38	MFWD 190	107,000	150	8	0.080	2.17	2.70	3.22	0.61	8.72	7.78	4.78	21.29	
Peanut Plt&Pre Rigid	8R-30	MFWD 190	57,100	150	8	0.152	4.12	5.13	3.27	1.17	13.71	7.89	9.08	30.69	
Peanut Plt&Pre Rigid	8R-38	MFWD 190	54,200	150	8	0.120	3.26	4.06	2.45	0.92	10.70	5.92	7.18	23.81	
Peanut Ptlt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	3.26	4.06	5.75	0.92	14.00	13.88	7.18	35.06	
Pipe Spool 160ac	1/4m roll	2WD 130	6,480	15	12	0.003	0.11	0.07	0.01	0.01	0.20	0.16	0.09	0.47	
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.20	0.08	0.00	0.01	0.30	0.01	0.11	0.43	
Plant & Pre-Folding	8R-38	MFWD 170	75,400	150	8	0.080	2.16	2.41	2.26	0.50	7.35	5.47	3.89	16.73	
Plant & Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.053	1.44	1.60	2.14	0.33	5.53	5.17	2.59	13.30	
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.74	3.41	2.68	0.78	9.62	6.48	6.03	22.15	
Plant & Pre-Folding	12R-30	MFWD 190	95,700	150	8	0.067	1.82	2.27	2.42	0.52	7.05	5.86	4.02	16.94	
Plant & Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.053	1.44	1.79	2.14	0.41	5.79	5.17	3.17	14.14	
Plant & Pre-Folding	16R-30	MFWD 190	177,000	150	8	0.050	1.37	1.70	3.36	0.39	6.83	8.13	3.01	17.99	
Plant & Pre-Folding	23R-15	MFWD 190	194,000	150	8	0.070	1.90	2.37	5.12	0.54	9.94	12.38	4.19	26.52	
Plant & Pre-Folding	24R-20	MFWD 190	229,000	150	8	0.050	1.37	1.70	4.35	0.39	7.82	10.52	3.01	21.37	
Plant & Pre-Folding	24R-30	MFWD 190	202,000	150	8	0.033	0.91	1.13	2.56	0.26	4.87	6.18	2.01	13.07	
Plant & Pre-Folding	31R-15	MFWD 225	235,000	150	8	0.052	1.41	2.09	4.62	0.50	8.63	11.16	3.91	23.71	
Plant & Pre-Folding	32R-15	MFWD 225	239,000	150	8	0.050	1.37	2.02	4.55	0.49	8.43	10.98	3.79	23.20	
Plant & Pre-Rigid	4R-30	2WD 130	37,800	150	8	0.203	5.48	4.67	2.87	0.85	13.89	6.94	6.43	27.27	
Plant & Pre-Rigid	4R-38	2WD 130	33,400	150	8	0.159	4.31	3.68	2.00	0.67	10.67	4.83	5.06	20.57	
Plant & Pre-Rigid	6R-30	MFWD 150	44,700	150	8	0.135	3.65	3.59	2.26	0.72	10.24	5.47	5.41	21.13	
Plant & Pre-Rigid	6R-38	MFWD 150	43,300	150	8	0.106	2.88	2.83	1.73	0.57	8.03	4.18	4.27	16.49	
Plant & Pre-Rigid	8R-30	MFWD 170	57,100	150	8	0.101	2.74	3.05	2.17	0.63	8.61	5.24	4.93	18.79	
Plant & Pre-Rigid	8R-38	MFWD 170	54,200	150	8	0.080	2.16	2.41	1.63	0.50	6.71	3.93	3.89	14.55	
Plant & Pre-Rigid	11R-15	MFWD 170	58,800	150	8	0.148	4.00	4.46	3.26	0.93	12.66	7.88	7.20	27.75	
Plant & Pre-Rigid	11R-20	MFWD 170	62,600	150	8	0.110	2.99	3.34	2.60	0.69	9.63	6.28	5.39	21.31	
Plant & Pre-Rigid	12R-20	MFWD 190	66,500	150	8	0.101	2.74	3.41	2.53	0.78	9.47	6.11	6.03	21.61	
Plant & Pre-Rigid	12R-30	MFWD 190	88,100	150	8	0.067	1.82	2.27	2.23	0.52	6.86	5.39	4.02	16.28	
Plant & Pre-Rigid	15R-15	MFWD 190	81,500	150	8	0.108	2.93	3.65	3.31	0.83	10.73	8.01	6.45	25.20	
Plant & Pre-TwinRow	12R-30/40	MFWD 225	161,000	150	8	0.053	1.44	2.12	3.22	0.51	7.31	7.78	3.99	19.09	
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	2.16	3.19	3.82	0.77	9.96	9.22	5.99	25.18	
Plant - Folding	8R-38	MFWD 170	69,600	150	8	0.074	2.01	2.24	1.94	0.46	6.66	4.69	3.62	14.98	
Plant - Folding	8R-38 2x1	MFWD 170	96,500	150	8	0.049	1.33	1.49	1.79	0.31	4.94	4.33	2.41	11.68	
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.54	3.17	2.30	0.72	8.74	5.56	5.60	19.91	
Plant - Folding	12R-30	MFWD 190	85,400	150	8	0.062	1.69	2.11	2.01	0.48	6.30	4.85	3.73	14.90	
Plant - Folding	12R-38	MFWD 190	96,500	150	8	0.049	1.33	1.66	1.79	0.38	5.18	4.33	2.95	12.47	
Plant - Folding	16R-30	MFWD 190	166,000	150	8	0.047	1.27	1.58	2.93	0.36	6.15	7.08	2.80	16.04	
Plant - Folding	23R-15	MFWD 190	184,000	150	8	0.065	1.76	2.20	4.51	0.50	8.99	10.90	3.89	23.79	
Plant - Folding	24R-20	MFWD 190	219,000	150	8	0.047	1.27	1.58	3.87	0.36	7.09	9.34	2.80	19.24	
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.84	1.05	2.16	0.24	4.31	5.23	1.86	11.41	
Plant - Folding	31R-15	MFWD 225	225,000	150	8	0.048	1.31	1.94	4.11	0.47	7.83	9.92	3.63	21.40	
Plant - Folding	32R-15	MFWD 225	229,000	150	8	0.047	1.27	1.87	4.04	0.45	7.65	9.77	3.52	20.94	
Plant - Rigid	4R-30	2WD 130	32,000	150	8	0.188	5.09	4.34	2.26	0.79	12.49	5.46	5.97	23.92	
Plant - Rigid	4R-38	2WD 130	27,600	150	8	0.148	4.00	3.41	1.53	0.62	9.59	3.70	4.70	18.00	
Plant - Rigid	6R-30	MFWD 150	38,900	150	8	0.125	3.39	3.33	1.83	0.67	9.23	4.42	5.03	18.69	
Plant - Rigid	6R-38	MFWD 150	37,500	150	8	0.099	2.67	2.63	1.39	0.53	7.24	3.36	3.97	14.58	
Plant - Rigid	8R-30	MFWD 170	51,300	150	8	0.094	2.54	2.83	1.81	0.59	7.79	4.37	4.58	16.74	
Plant - Rigid	8R-38	MFWD 170	48,400	150	8	0.074	2.01	2.24	1.35	0.46	6.07	3.26	3.62	12.96	
Plant - Rigid	11R-15	MFWD 170	53,000	150	8	0.137	3.71	4.14	2.73	0.86	11.45	6.60	6.68	24.74	
Plant - Rigid	11R-20	MFWD 170	56,800	150	8	0.103	2.78	3.10	2.19	0.64	8.72	5.29	5.00	19.02	
Plant - Rigid	12R-20	MFWD 190	60,700	150	8	0.094	2.54	3.17	2.14	0.72	8.58	5.18	5.60	19.37	
Plant - Rigid	12R-30	MFWD 190	77,800	150	8	0.062	1.69	2.11	1.83	0.48	6.12	4.42	3.73	14.29	
Plant - Rigid	15R-15	2WD 150	71,200	150	8	0.094	2.54	2.50	2.51	0.40	7.97	6.07	3.03	17.08	
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.33	1.97	2.79	0.47	6.58	6.73	3.70	17.03</td	

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2024 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed--		Total Cost
									Imp.	P.U.	Direct		Imp.	P.U.	
			dollars	hours	years	hr/ac			\$/acre						
Rotary Cutter	7'	MFWD 130	6580	185	10	0.168	3.02	3.87	0.89	0.89	8.69	0.79	6.73	16.21	
Rotary Cutter	12'	2WD 150	20,200	185	10	0.098	1.76	2.60	1.60	0.42	6.40	1.41	3.15	10.97	
Rotary Cutter-Flex	15'	MFWD 150	27,300	185	10	0.078	1.40	2.08	1.73	0.41	5.65	1.53	3.14	10.33	
Rotary Cutter-Flex	20'	MFWD 150	40,500	185	10	0.058	1.05	1.56	1.93	0.31	4.87	1.70	2.35	8.93	
Row Cond & Inc-Fold.	26'	MFWD 190	37,600	100	10	0.063	1.42	2.13	0.59	0.48	4.64	3.15	3.77	11.57	
Row Cond & Inc-Fold.	38'	MFWD 225	49,800	100	10	0.043	0.97	1.72	0.54	0.41	3.66	2.85	3.24	9.76	
Row Cond & Inc-Rigid	13'	2WD 130	18,700	100	10	0.126	2.85	2.92	0.59	0.53	6.90	3.13	4.02	14.06	
Row Cond & Inc-Rigid	21'	2WD 170	26,900	100	10	0.078	1.76	2.36	0.52	0.29	4.95	2.79	2.25	10.00	
Row Cond & Inc-Rigid	26'	MFWD 190	29,300	100	10	0.026	0.59	0.89	0.19	0.20	1.89	1.03	1.58	4.50	
Row Cond Folding	26'	MFWD 225	31,900	100	10	0.059	1.07	2.37	0.47	0.57	4.50	2.51	4.46	11.48	
Row Cond Folding	38'	MFWD 225	40,100	100	10	0.040	0.73	1.62	0.40	0.39	3.16	2.16	3.05	8.38	
Row Cond Rigid	13'	2WD 130	12,900	100	10	0.119	2.14	2.74	0.38	0.50	5.78	2.03	3.78	11.60	
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.32	2.22	0.39	0.27	4.21	2.07	2.12	8.41	
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	1.07	2.00	0.35	0.45	3.89	1.86	3.55	9.30	
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.12	2.10	1.07	0.48	4.78	3.56	3.71	12.06	
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.29	2.42	0.68	0.55	4.95	2.26	4.28	11.51	
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.84	1.86	0.66	0.45	3.83	2.21	3.50	9.54	
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.60	3.00	0.85	0.68	6.14	2.83	5.30	14.29	
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.29	2.42	0.76	0.55	5.03	2.52	4.28	11.84	
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.13	1.41	0.34	0.32	3.21	0.85	2.50	6.57	
Spray (ATV Ropewick)	75"	800 CC	730	200	8	0.260	5.85	0.58	0.08	0.49	7.02	0.13	2.37	9.53	
Spray (ATV)	20'	800 CC	1,440	200	8	0.084	1.90	0.19	0.05	0.16	2.30	0.08	0.77	3.16	
Spray (Band)	27' Fold	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16	
Spray (Band)	40' Fold	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05	
Spray (Band)	50' Fold	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01	
Spray (Band)	60' Fold	MFWD 170	18,600	200	8	0.028	0.63	0.84	0.24	0.17	1.90	0.36	1.37	3.64	
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,890	200	8	0.130	2.92	3.45	0.54	0.69	7.62	0.81	5.20	13.64	
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,400	200	8	0.084	1.90	2.24	0.41	0.45	5.01	0.61	3.38	9.01	
Spray (Bcast/HB)	27' Fold	MFWD 170	13,000	200	8	0.062	1.40	1.88	0.38	0.39	4.07	0.57	3.04	7.68	
Spray (Bcast/HB)	27' Rigid	MFWD 170	12,200	200	8	0.062	1.40	1.88	0.35	0.39	4.04	0.53	3.04	7.62	
Spray (Bcast/HB)	30' Fold	MFWD 170	18,700	200	8	0.056	1.26	1.69	0.49	0.35	3.81	0.74	2.74	7.29	
Spray (Bcast/HB)	40' Fold	MFWD 170	22,600	200	8	0.042	0.95	1.27	0.44	0.26	2.93	0.67	2.05	5.66	
Spray (Broadcast)	27'	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16	
Spray (Broadcast)	40'	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05	
Spray (Broadcast)	50'	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01	
Spray (Broadcast)	60'	MFWD 170	18,600	200	8	0.028	0.63	0.84	0.24	0.17	1.90	0.36	1.37	3.64	
Spray (Direct/Hood)	8R-30	MFWD 170	19,000	200	8	0.084	1.90	2.54	0.75	0.53	5.73	1.12	4.11	10.97	
Spray (Direct/Hood)	8R-38	MFWD 170	19,800	200	8	0.066	1.50	2.01	0.62	0.42	4.55	0.92	3.24	8.73	
Spray (Direct/Hood)	12R-30	MFWD 170	26,100	200	8	0.056	1.26	1.69	0.69	0.35	4.01	1.03	2.74	7.78	
Spray (Direct/Hood)	12R-38	MFWD 170	27,200	200	8	0.044	1.00	1.34	0.56	0.27	3.18	0.85	2.16	6.20	
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.90	2.54	0.77	0.53	5.75	1.15	4.11	11.02	
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.50	2.01	0.61	0.42	4.54	0.91	3.24	8.71	
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	1.00	1.34	0.61	0.27	3.23	0.92	2.16	6.32	
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.26	1.69	0.78	0.35	4.09	1.16	2.74	8.00	
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	1.00	1.34	0.61	0.27	3.23	0.92	2.16	6.32	
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.40	2.49	1.01	0.60	5.52	1.52	4.68	11.73	
Spray (Levee Leaper)	50'	MFWD 225	21,200	200	8	0.033	0.76	1.34	0.33	0.32	2.77	0.50	2.52	5.80	
Spray (Pull Type)	60'	MFWD 225	75,100	200	8	0.028	0.63	1.12	0.99	0.27	3.02	1.48	2.10	6.61	
Spray (Pull Type)	80'	MFWD 225	69,400	200	8	0.021	0.47	0.84	0.68	0.20	2.21	1.03	1.57	4.82	
Spray (Pull Type)	90'	MFWD 225	70,400	200	8	0.018	0.42	0.74	0.62	0.18	1.97	0.92	1.40	4.30	
Spray (Pull Type)	120'	MFWD 225	101,700	200	8	0.014	0.31	0.56	0.67	0.13	1.68	1.00	1.05	3.74	
Spray (Ropewick)	20'	MFWD 190	3,630	200	8	0.084	1.90	2.84	0.14	0.65	5.54	0.21	5.03	10.78	
Spray (Spot)	27'	MFWD 170	5,810	200	8	0.062	1.40	1.88	0.17	0.39	3.85	0.25	3.04	7.16	
Spray (Spot)	40'	MFWD 170	10,350	200	8	0.042	0.95	1.27	0.20	0.26	2.69	0.30	2.05	5.05	
Spray (Spot)	50'	MFWD 170	9,670	200	8	0.033	0.76	1.01	0.15	0.21	2.14	0.22	1.64	4.01	
Spray (Spot)	60'	MFWD 225	18,600	200	8	0.028	0.63	1.12	0.24	0.27	2.27	0.36	2.10	4.75	
Stalk Shredder	14'	MFWD 150	36,300	200	10	0.117	2.11	3.13	3.74	0.62	9.61	2.82	4.71	17.16	
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.48	2.19	2.38	0.44	6.50	1.80	3.30	11.60	
Stalk Shredder-Flail	12'	MFWD 150	30,000	200	10	0.137	2.46	3.65	3.60	0.73	10.46	2.72	5.50	18.69	
Stalk Shredder-Flail	15'	MFWD 150	34,400	200	10	0.110	1.97	2.92	3.31	0.58	8.79	2.50	4.40	15.69	
Stalk Shredder-Flail	18'	MFWD 150	53,400	200	10	0.091	1.64	2.43	4.28	0.48	8.85	3.23	3.66	15.75	
Stalk Shredder-Flail	20'	MFWD 150	43,900	200	10	0.082	1.48	2.19	3.16	0.44	7.28	2.39	3.30	12.97	
Stalk Shredder-Flail	25'	MFWD 150	69,600	200	10	0.066	1.18	1.75	4.01	0.35	7.30	3.03	2.64	12.98	
Strip Till	8R-38	MFWD 225	66,000	150	10	0.061	1.10	2.45	1.76	0.59	5.91	3.58	4.60	14.10	
Strip Till	12R-30	MFWD 225	112,000	150	10	0.061	1.10	2.45	2.99	0.59	7.14	6.08	4.60	17.82	
Strip Till	12R-40	MFWD 225	113,000	150	10	0.046	0.82	1.84	2.26	0.44	5.38	4.60	3.45	13.43	
Subsoiler	3 shank	MFWD 190	5,690	100	15	0.204	3.66	6.87	0.38	1.57	12.49	1.27	12.14	25.92	
Subsoiler	4 shank	MFWD 225	14,800	100	15	0.153	2.75	6.12	0.75	1.48	11.11	2.49	11.47	25.08	
Subsoiler	5 shank	MFWD 225	18,300	100	15	0.122	2.19	4.87	0.74	1.18	8.99	2.45	9.13	20.59	
Subsoiler low-till	6 shank	MFWD 225	26,600	100	15	0.102	1.83	4.07	0.90	0.98	7.79	2.98	7.63	18.41	
Subsoiler low-till	8 shank	MFWD 225	25,700	100	15	0.076	1.37	3.04	0.65	0.73	5.81	2.15	5.71	13.69	

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, 2024

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
dollars					dollars
ADJUVANTS			Avaris	oz	1.41
Agri-Dex	pt	3.00	Avicta 500 Soybean	oz	2.14
AMS SuperMax	pt	3.81	Bravo Weather Stick	pt	5.62
Class Act NG	pt	5.00	Captan 4L	pt	4.50
Crop Oil Conc.(Pet.)	pt	2.86	Convoy	oz	1.44
Crop Oil Conc.(Veg.)	pt	2.90	Cotton Seed Trt.	acre	20.00
Dyne-A-Pak	pt	6.88	CruiserMaxx Vibrance	oz	7.63
Fire-Zone	pt	3.94	Elatus	oz	3.81
Herbimax	pt	2.75	Flint Extra	oz	10.11
Induce	pt	5.00	Headline EC	oz	5.98
MSO	pt	1.34	Miravis Ace	oz	1.78
Penetrator Plus	pt	2.32	Miravis Top	oz	6.09
Surfactant	pt	3.30	Priaxor Xemium	oz	4.06
CLEANING			Propimax EC	pt	12.50
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.89
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.52
Cotton Consultant	acre	8.00	Quadris	oz	6.25
Peanut Consultant	acre	9.25	Quadris Top	oz	3.00
Rice Consultant	acre	8.00	Quadris Top SBX	oz	3.13
Sorghum Consultant	acre	6.00	Quilt	pt	4.00
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	21.75
Wheat Consultant	acre	5.50	Stratego	pt	22.50
CUSTOM FERTILIZE			Stratego YLD	oz	2.65
App Fert by Air	cwt	8.00	Tilt 3.6 EC	oz	1.02
App Fert by Air(Mi	appl	8.00	Tilt/ Bravo SE	oz	0.81
Custom Apply Fert	acre	7.50	Trivapro	oz	1.48
CUSTOM LIME			GINNING		
Lime (Spread)	ton	65.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	8.43	Mepichlor 4.2%	oz	0.17
CUSTOM SPRAY			Mepiquat	oz	0.07
App by Air (3 gal)	appl	6.87	Mepstar 6	oz	0.09
App by Air (5 gal)	appl	8.11	Palisade	oz	1.47
App by Air (10 gal)	appl	10.57	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSG	oz	1.36
DRYING			Stance	oz	1.40
Dry Corn	bu	0.19	Veto	oz	0.07
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.99
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.25
Eradication	acre	1.00	Defol 5	gal	8.61
FERTILIZERS			Display	oz	10.59
Agrotain Ultra	pt	12.50	Ethepron 6E	pt	3.38
Amm Sulfate (21% N)	cwt	26.00	Finish 6	pt	10.93
Boron Plus	pt	5.10	Folex 6EC	pt	11.25
DAP	cwt	47.21	Freefall SC	oz	0.89
Fert 10-34-0	cwt	40.00	Ginstar EC	pt	29.72
Fert 10-34-0	gal	4.66	Gramoxone SL	oz	0.33
Fert 11-37-0	cwt	41.25	Sharpen	oz	7.91
Fert 41-0-0-4	cwt	38.00	Sodium Chlorate 5L	gal	8.61
Lime	ton	55.00	SuperBoll	oz	0.18
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.14
Phosphorus(46% P205)	cwt	39.25	Tribusfos 6lb	pt	11.25
Potash (60% K2O)	cwt	36.20	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	36.15	Haul Corn	bu	0.23
UAN (32%)	gal	4.00	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	31.10	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	3.46	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	31.69	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.50	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.87	2,4-D Amine 4	pt	2.72
Alfa Guard	lb	1.62	2,4-D Ester	pt	4.87
Allegiance Flowabl	oz	6.33	AAtrex 4L	pt	3.00
Ameristar Top	oz	2.52	Accent Q	oz	23.39
Approach Prima	pt	34.50	Acuron	oz	0.56
Apron Maxx RTA	oz	1.02	Aim	oz	8.13
Artisan	oz	0.70			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim 2EC	oz	8.13	Halomax	oz	21.11
Anthem Flex	oz	5.57	Harmony Extra SG	oz	11.00
Anthem Maxx	oz	4.50	Helmet	oz	0.48
Armezon Pro	oz	1.12	Huskie	oz	0.94
Atrazine 4L	pt	2.71	Impact	oz	19.64
Atrazine 90DF	lb	5.09	Intimidator	oz	0.64
Authority First	lb	37.75	Leadoff	oz	7.96
Authority Elite	pt	14.50	League	oz	8.06
Authority Maxx	lb	68.82	Lexar	pt	7.00
Authority MTZ	lb	19.75	Liberty 280	oz	0.64
Avatar	pt	8.04	Loyant	oz	2.29
Avenger	pt	10.01	Makaze	oz	0.16
Axial XL	oz	1.71	Metolachlor	pt	8.23
Axiom	oz	2.25	Metribuzin 4L	pt	21.13
Banvel	pt	10.94	Metribuzin 75	lb	10.90
Barrage	pt	4.13	MSMA	pt	6.18
Basagran	pt	5.43	Newpath	oz	4.28
Boundary	pt	12.00	Obey	oz	1.08
Brake	oz	1.48	Osprey	oz	3.58
Broadaxe	pt	14.50	Outlook	pt	15.75
Broadhead	lb	58.21	Panther Pro	oz	6.61
Bucaneer Plus	pt	3.13	Parallel	pt	7.76
Buctril	pt	4.28	Paraquat	oz	0.23
Butyrac 200 (2,4-DB)	pt	3.52	Parazone 3SL	oz	0.61
Cadre	oz	1.87	Permit	oz	19.50
Callisto	oz	2.99	Permit Plus	oz	22.89
Canopy	oz	3.25	PowerFlex	oz	7.21
Caparol	pt	4.97	Preface	oz	4.99
Capreno	oz	4.00	Prefix	pt	7.81
Cinch	pt	14.18	Provisia	oz	0.88
Cinch ATZ	pt	6.26	Prowl 3.3 EC	pt	6.63
Clarity	pt	14.29	Quelex	oz	11.30
Classic	oz	16.67	RealmQ	oz	4.63
Clearpath	oz	4.24	RebelEx	oz	2.00
Clethodim 2E	oz	0.33	Reflex	pt	7.34
Clincher SF	oz	2.54	Regiment	oz	45.96
Cobra	oz	1.50	Resicore	oz	0.60
Command 3ME	pt	17.50	Resource	oz	2.07
Corvus	oz	5.53	RiceBeaux	pt	6.91
Cotoran	pt	5.24	Riceshot	pt	4.68
Cotton Pro	pt	3.45	Ricestar HT	pt	26.01
Dicamba	pt	5.32	Ringside	pt	5.63
Direx	pt	5.46	Roundup Power Max	oz	0.28
Diuron	pt	4.25	Roundup PowerMax	pt	4.50
Dual II Magnum	pt	13.25	Roundup PowerMax ii	oz	0.31
Dual Magnum	pt	10.75	Roundup Pro	pt	0.20
Duet	pt	6.09	Scepter 70 DG	oz	4.64
Engenia	oz	0.80	Select Max	pt	15.01
Enlist Duo	pt	5.92	Sencor/Tricor.Metrib	lb	23.95
Enlist One	pt	7.66	Sequence	pt	7.14
Envive	oz	3.90	Sharpen	oz	7.91
Envoke	oz	115.00	Sinister	pt	13.77
Facet L	pt	17.50	Sonic	oz	4.58
Fierce	oz	7.75	Stalwart	pt	6.39
Fierce XLT	oz	4.47	Stam 80 EDF	lb	9.45
Finesse	oz	15.75	Stam M4	qt	8.00
Firestorm	pt	3.44	Staple LX	oz	3.95
First Rate	oz	34.50	Storm	pt	17.07
Flexstar	pt	9.75	Strada	oz	7.34
Flexstar GT	pt	7.25	Strada Pro	oz	8.20
Fusilade DX	oz	1.33	Strada XT2	oz	3.26
Gambit	oz	16.50	Superwham	qt	9.82
Glyphosate 3lbs a.e	pt	4.03	Suprend	lb	13.52
Glyphosate 3lbs a.e	oz	0.25	SureStart II	oz	0.39
Goal 2XL	pt	10.75	Surveil	oz	6.70
Gramoxone SL 2.0	oz	0.33	Synchrony XP	oz	13.00
Grandstand R	pt	18.68	Tavium	gal	57.02
Grasp	oz	3.17	Tempest	pt	19.50
Grasp Xtra	oz	1.61	Touchdown Total	qt	10.21
Halex GT	pt	9.63	Treflan	pt	4.36

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2024 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	4.36	Mustang Max	oz	1.18
Triflurex	pt	3.47	Nuprid 4F	oz	1.04
Ultra Blazer	pt	7.50	Oberon	oz	3.28
Valor EZ	oz	5.23	Orthene 97	lb	29.33
Valor SX	oz	3.06	Permethrin	oz	0.79
Valor XLT	oz	3.59	Portal XL0	oz	0.74
Vamos	pt	6.49	Pounce 25WP	lb	19.96
Verdict	oz	1.61	Prevathon	oz	1.05
Veritas	pt	7.49	Python WDG	oz	19.25
Villain	pt	5.24	Radiant	oz	9.60
Volunteer	pt	10.63	Sevin SL	pt	12.25
Warrant	pt	4.00	Sevin XLR Plus	qt	21.50
XtendiMax	oz	0.48	Sivanto Prime	oz	3.01
Zidua SC	oz	5.58	Tempest	oz	1.70
Zidua WG	oz	8.76	Tenchi SG	oz	1.13
INOCULANT			Transform WG	oz	9.34
Inoculant -Soybean	acre	1.55	Up-Cyde	oz	0.49
Optimize LIFT	oz	0.15	Warrior ZT	oz	3.02
INSECTICIDES			Zeal	oz	8.42
Abamectin .15EC	oz	0.30	IRRIGATION SUPPLIES		
Acephate 90%	lb	8.25	Roll-Out Pipe	ft	0.24
Acephate 90SP	lb	8.25	SEED/PLANTS		
Admire Pro	oz	2.56	Corn Seed BtRR	thous	3.61
Agri-Mek	oz	3.44	Corn Seed Conv.	thous	3.80
Asana .66 XL	oz	0.62	Corn Seed Op Leptra	thous	4.95
Avenger	oz	0.28	Corn Seed RR2	thous	4.26
Baythroid XL	oz	1.32	Corn Seed VT2P	thous	4.80
Belt	oz	6.41	Cot. Seed B3XF/W3FE	thous	2.52
Besiege	oz	2.75	Cotton Seed B3XF	thous	2.60
Bidrin 8EC	oz	1.51	Cotton Seed GLB2	thous	1.89
Bifenthrin	oz	0.56	Cotton Seed W3FE	thous	2.43
Bifenture 2EC	oz	0.58	Cotton Seed W3RF	thous	1.50
Brigade EC	pt	20.27	Peanut Seed	lb	0.87
Capture LFR	oz	1.37	Rice Conv Hyb Trt	lb	6.31
Centric 40WG	oz	5.95	Rice Fullpage Hyb Tr	lb	6.34
Cypermethrin	oz	0.57	Rice Seed CF(Levees)	lb	1.30
Declare	oz	2.03	Rice Seed Clearfield	lb	1.30
Diamond .83EC	oz	1.26	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	13.50	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	1.63	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	1.76	Rice Seed FPH(Levee)	lb	6.34
Force 3G	lb	7.28	Rice Seed Provisia	lb	1.40
Hero	oz	1.35	Rice Seed Trt/Insect	lbseed	0.29
Imidacloprid 4F	oz	0.79	Sorghum Concept	lb	2.84
Imidan 70 WSB	oz	1.13	Sorghum Concept+ Po	lb	4.16
IncidentalPestTrt \$8 acre	acre	8.00	Soybean Enlist E3	lb	1.07
IncidentalPestTrt\$15 acre	acre	15.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$22 acre	acre	22.00	Soybean Seed RR2	lb	1.12
IncidentalPestTrt\$30 acre	acre	30.00	Soybean Seed RR2X	lb	1.15
Intrepid 2F	oz	1.99	Wheat Seed Private	lb	0.34
Intruder 70WSP	oz	1.13	SOIL TEST		
Lambda	oz	0.39	Soil Test	acre	10.00
Lannate LV	pt	8.33	SURVEY & MARK LEVEES		
Macho	oz	0.62	Survey & Mark Levees	acre	4.50
Malathion 8E	pt	9.84	Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2024

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	3.44
Gasoline	gal	3.21
INTEREST RATES		
Short-term	%	8.25
Intermediate-term	%	8.50

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2024

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	17.94
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, 2024

Crop	unit	Futures Contract Month	Futures Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '24	5.17	-0.06	5.11	2.35	5.11
Cotton Lint	lb	Dec '24	0.8151	-0.0123	0.8028	0.52	0.8028
Cottonseed	lb						0.11f
Grain Sorghum	bu				4.85	4.09	4.85
Peanuts	ton				550.00	354.895	550.00
Soybeans	bu	Nov '24	12.61	0.06	12.67	6.41	12.67
Rice	bu	Nov '24	5.83	-0.17	5.66	3.21	5.66
Wheat	bu	Jul '24	6.32	-0.15	6.17	3.60	6.17

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2023 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 2023 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 2023 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2023 Farm-stored Loan Rate for long grain rough rice. National 2023 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, 2024

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'		1.28	0.39	0.68		0.02	2.37	2.59	4.96
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17		0.02	0.56	0.51	1.07
Roll-Out Pipe	ft	7.92					0.27	8.19		8.19
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81		0.06	1.87		1.87
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.56	0.19	0.68		0.02	1.45	1.89	3.34
Land Forming (\$450)	each								43.97	43.97
Well & Pump, Furrow	each			2.96			0.10	3.06	12.03	15.09
Main Line Pipe	each								6.65	6.65
Engine, RPF, 75	each								11.82	11.82
June Irrigation	ac-in		9.81	1.40			0.39	11.60		11.60
July Irrigation	ac-in		9.81	1.40			0.31	11.52		11.52
August Irrigation	ac-in		9.81	1.40			0.23	11.44		11.44
TOTALS		7.92	31.93	7.96	4.71	0.00	1.48	54.00	80.72	134.72

Note: Cost of production estimates are based on 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Maintenance										
IRRIGATE LABOR	hour				1.07		0.04	1.11		1.11
Apply Water										
IRRIGATE LABOR	hour				0.15		0.01	0.16		0.16
Apply Water										
IRRIGATE LABOR	hour				0.20		0.01	0.21		0.21
Apply Water										
IRRIGATE LABOR	hour				0.15			0.15		0.15
Pivot, 1/4 CP	each			13.48			0.46	13.94	71.23	85.17
Well & Pump, 1/4 CP	each			3.50			0.12	3.62	14.26	17.88
Engine, 1/4 CP, 65	each								14.01	14.01
June Irr. 3app@.75"	ac-in	11.56	1.49			0.45		13.50		13.50
July Irr. 4app@.75"	ac-in	15.41	1.99			0.48		17.88		17.88
Aug Irr. 3app@.75"	ac-in	11.56	1.49			0.27		13.32		13.32
TOTALS		0.00	38.53	21.95	1.84	0.00	1.85	64.17	99.50	163.67

Note: Cost of production estimates are based on 2023 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 2023 Planning Budgets." Budget Report No. 2022-03, Department of Agricultural Economics, Mississippi State University, November 2022.
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 2023 Planning Budgets." Budget Report No. 2022-01, Department of Agricultural Economics, Mississippi State University, November 2022.
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 2024 Planning Budgets." Budget Report No. 2023-08, Department of Agricultural Economics, Mississippi State University, April 2023.
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 2023 Planning Budgets." Budget Report No. 2022-07, Department of Agricultural Economics, Mississippi State University, November 2022.
16. "Rice 2023 Planning Budgets." Budget Report No. 2022-04, Department of Agricultural Economics, Mississippi State University, November 2022.
17. "Soybeans 2023 Planning Budgets." Budget Report No. 2022-02, Department of Agricultural Economics, Mississippi State University, November 2022.
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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