

**COTTON
2023
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2022-01**

November 2022

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 2023 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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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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2023 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 2022. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	34.3582	147.74	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.3993	6.60	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	16.55	0.4855	8.04	_____
DIESEL FUEL					
Tractors	gal	4.48	6.1665	27.64	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
REPAIR & MAINTENANCE					
Implements	acre	10.13	1.0000	10.13	_____
Tractors	acre	3.78	1.0000	3.78	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
INTEREST ON OP. CAP.	acre	27.47	1.0000	27.47	_____
TOTAL DIRECT EXPENSES				980.43	_____
FIXED EXPENSES					
Implements	acre	16.44	1.0000	16.44	_____
Tractors	acre	26.82	1.0000	26.82	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
TOTAL FIXED EXPENSES				158.62	_____
TOTAL SPECIFIED EXPENSES				1139.05	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	128.29	1.0000	128.29	_____
INSECTICIDES	acre	98.22	1.0000	98.22	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6069	10.02	_____
UNALLOCATED LABOR	hour	16.55	0.4855	8.04	_____
DIESEL FUEL	gal	4.48	11.0501	49.52	_____
REPAIR & MAINTENANCE	acre	39.74	1.0000	39.74	_____
INTEREST ON OP. CAP.	acre	27.47	1.0000	27.47	_____

TOTAL DIRECT EXPENSES				980.43	_____
RETURNS ABOVE DIRECT EXPENSES				84.45	_____

TOTAL FIXED EXPENSES				158.62	_____

TOTAL SPECIFIED EXPENSES				1139.05	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-74.17	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	73.87						2.76	76.63	76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	73.87						1.97	75.84	75.84
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	132.00						0.70	132.70	132.70
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53 19.43
TOTALS		842.82	49.52	39.74	20.88	0.00	27.47	980.43	158.62	1139.05

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	3.95	3.69	0.00	0.00	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.43	0.00	0.00	0.00	0.00	3.58	7.60	7.33	0.00	0.00	0.00	25.58
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.56	3.34	2.80	0.00	0.00	0.00	28.91
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	3.02	7.00	3.74	1.67	0.64	0.32	1.04
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	83.79	225.40	144.38	79.16	40.88	29.70	196.67
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-83.79	-225.40	-144.38	-79.16	-40.88	-29.70	868.21
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-264.24	-489.64	-634.02	-713.18	-754.06	-783.76	84.45

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-403 -561	-381 -539	-359 -517	-336 -495	-314 -473	-292 -451	-270 -428	-248 -406	-226 -384	-203 -362	-181 -340
60	720.00	lb	-350 -508	-323 -482	-296 -455	-270 -428	-243 -402	-217 -375	-190 -349	-163 -322	-137 -295	-110 -269	-84 -242
70	840.00	lb	-296 -455	-265 -424	-234 -393	-203 -362	-172 -331	-141 -300	-110 -269	-79 -238	-48 -207	-17 -176	13 -145
80	960.00	lb	-243 -402	-208 -366	-172 -331	-137 -295	-101 -260	-66 -224	-30 -189	4 -154	40 -118	75 -83	110 -47
90	1080.00	lb	-190 -349	-150 -309	-110 -269	-70 -229	-30 -189	9 -149	48 -109	88 -69	128 -29	168 10	208 49
100	1200.00	lb	-137 -295	-92 -251	-48 -207	-4 -162	40 -118	84 -74	128 -29	173 14	217 58	261 103	306 147
110	1320.00	lb	-83 -242	-35 -193	13 -145	62 -96	111 -47	159 1	208 49	257 98	306 147	354 196	403 245
120	1440.00	lb	-30 -189	22 -136	75 -82	128 -29	182 23	235 76	288 129	341 183	394 236	448 289	501 342
130	1560.00	lb	22 -136	80 -78	137 -20	195 36	253 94	310 152	368 209	425 267	483 324	541 382	598 440
140	1680.00	lb	75 -82	137 -20	199 41	261 103	323 165	386 227	448 289	510 351	572 413	634 475	696 537
150	1800.00	lb	128 -29	195 36	261 103	328 169	394 236	461 302	527 369	594 435	660 502	727 568	793 635

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.7500	36.80	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	34.3582	147.74	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.5000	3.31	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Acephate 90%	lb	9.30	1.5000	13.95	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	8.82	1.5000	13.23	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	51.0000	11.22	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
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	16.54	0.5025	8.32	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
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	16.54	0.5052	8.36	_____
DIESEL FUEL					
Tractors	gal	4.48	7.2737	32.60	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
Roll-Out Pipe Irr.	gal	4.48	8.5535	38.31	_____
REPAIR & MAINTENANCE					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	4.51	1.0000	4.51	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	29.10	1.0000	29.10	_____
TOTAL DIRECT EXPENSES				1090.23	_____
FIXED EXPENSES					
Implements	acre	19.68	1.0000	19.68	_____
Tractors	acre	31.95	1.0000	31.95	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
Roll-Out Pipe Irr.	acre	65.01	1.0000	65.01	_____
TOTAL FIXED EXPENSES				232.00	_____
TOTAL SPECIFIED EXPENSES				1322.23	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1500.0000	1108.35	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____
TOTAL INCOME				1331.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.80	1.0000	55.80	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	128.29	1.0000	128.29	_____
INSECTICIDES	acre	104.38	1.0000	104.38	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	11.22	1.0000	11.22	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.7101	11.74	_____
UNALLOCATED LABOR	hour	16.54	0.5052	8.36	_____
DIESEL FUEL	gal	4.48	20.7109	92.79	_____
REPAIR & MAINTENANCE	acre	48.36	1.0000	48.36	_____
INTEREST ON OP. CAP.	acre	29.10	1.0000	29.10	_____
TOTAL DIRECT EXPENSES				1090.23	_____
RETURNS ABOVE DIRECT EXPENSES				240.87	_____
TOTAL FIXED EXPENSES				232.00	_____
TOTAL SPECIFIED EXPENSES				1322.23	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				8.87	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90SP	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Mepiquat Chloride	oz					19.0000				
Centric 40WG	oz					2.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt\$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44	15.69
Bed/Disk (Hipper)	12R-38		3.41	1.42	1.47			0.40	6.70	6.15	12.85
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Select Max	pt	13.86						0.59	14.45		14.45
Surfactant	pt	0.66						0.03	0.69		0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84	12.00
UAN (32%)	gal	73.87						2.76	76.63		76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98	14.72
Cotton Seed B3XF	thous	105.75						3.38	109.13		109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Engenia	oz	10.62						0.34	10.96		10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23		11.23
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90SP	lb	3.31						0.11	3.42		3.42
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	73.87						1.97	75.84		75.84
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Diamond .83EC	oz	13.38						0.29	13.67		13.67
Imidacloprid 4F	oz	2.12						0.05	2.17		2.17
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.12	5.77	3.83	9.60
Engenia	oz	10.62						0.23	10.85		10.85
Glyphosate 3lbs a.e	oz	10.88						0.23	11.11		11.11
Dual Magnum	pt	11.45						0.24	11.69		11.69
Mepiquat Chloride	oz	4.18						0.09	4.27		4.27
Centric 40WG	oz	11.90						0.25	12.15		12.15
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Acephate 90%	lb	6.98						0.15	7.13		7.13
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Bifenthrin	oz	7.23						0.15	7.38		7.38
App by Air (3 gal)	appl	1.60						0.03	1.63		1.63
Lambda	oz	2.08						0.04	2.12		2.12
Bidrin 8EC	oz	2.86						0.06	2.92		2.92
Incidental Pest											
App by Air (3 gal)	appl	9.60						0.20	9.80		9.80
IncidentalPestTrt\$15	acre	22.50						0.48	22.98		22.98
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Acephate 90%	lb	6.98						0.11	7.09		7.09
Bifenthrin	oz	7.23						0.12	7.35		7.35
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Transform WG	oz	13.23						0.21	13.44		13.44
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
App by Air (5 gal)	appl	3.80						0.04	3.84		3.84
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	165.00						0.88	165.88		165.88
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53	19.43
Roll-Out Pipe Irr.	acre	7.92	41.57	7.90	4.61			1.35	63.35	70.31	133.66
TOTALS		893.76	92.79	48.36	26.22	0.00	29.10	1090.23	232.00	1322.23	

Note: Cost of production estimates are based on 2022 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, 2023

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	1331.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	24.00	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	63.45	0.00	32.95	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	3.31	4.58	69.05	27.44	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	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.22	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	38.63	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	3.07	0.00	0.00	0.00	0.00	1.76	4.18	4.80	1.76	0.23	0.65	9.77
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	7.13	0.00	0.00	0.00	0.00	3.58	7.60	17.88	15.85	12.77	0.74	27.24
REPAIR & MAINTENANCE	3.85	0.00	0.00	0.00	0.00	1.56	3.34	6.32	2.44	1.40	0.18	29.27
INTEREST ON OP. CAP.	8.53	0.00	0.00	0.00	1.71	3.02	6.97	3.08	3.35	0.87	0.34	1.23
TOTAL DIRECT EXPENSES	141.94	0.00	0.00	0.00	41.86	83.79	224.26	118.45	160.62	55.51	31.29	232.51
NET INCOME	-141.94	0.00	0.00	0.00	-41.86	-83.79	-224.26	-118.45	-160.62	-55.51	-31.29	1098.59
NET INCOME TO DATE	-141.94	-141.94	-141.94	-141.94	-183.80	-267.59	-491.85	-610.30	-770.92	-826.43	-857.72	240.87

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-368 -600	-341 -573	-313 -545	-285 -517	-258 -490	-230 -462	-202 -434	-174 -406	-147 -379	-119 -351	-91 -323
60	900.00	lb	-302 -534	-269 -501	-235 -467	-202 -434	-169 -401	-136 -368	-102 -334	-69 -301	-36 -268	-3 -235	30 -201
70	1050.00	lb	-235 -467	-197 -429	-158 -390	-119 -351	-80 -312	-41 -273	-3 -235	35 -196	74 -157	113 -118	152 -79
80	1200.00	lb	-169 -401	-124 -356	-80 -312	-36 -268	8 -223	52 -179	96 -135	141 -90	185 -46	229 -2	274 42
90	1350.00	lb	-102 -334	-52 -284	-3 -235	46 -185	96 -135	146 -85	196 -35	246 14	296 64	346 114	396 164
100	1500.00	lb	-36 -268	19 -212	74 -157	130 -101	185 -46	240 8	296 64	351 119	407 175	462 230	517 285
110	1650.00	lb	30 -201	91 -140	152 -79	213 -18	274 42	335 103	396 164	457 225	517 285	578 346	639 407
120	1800.00	lb	96 -135	163 -68	229 -2	296 64	362 130	429 197	495 263	562 330	628 396	695 463	761 529
130	1950.00	lb	163 -68	235 3	307 75	379 147	451 219	523 291	595 363	667 435	739 507	811 579	883 651
140	2100.00	lb	229 -2	307 75	385 153	462 230	540 308	617 385	695 463	773 541	850 618	928 696	1005 773
150	2250.00	lb	296 64	379 147	462 230	545 313	628 396	712 480	795 563	878 646	961 729	1044 812	1127 895

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.7500	36.80	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	34.3582	147.74	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.3993	6.60	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
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	16.55	0.4855	8.04	_____
DIESEL FUEL					
Tractors	gal	4.48	6.1665	27.64	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.13	1.0000	10.13	_____
Tractors	acre	3.78	1.0000	3.78	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	29.53	1.0000	29.53	_____
TOTAL DIRECT EXPENSES				1100.15	_____
FIXED EXPENSES					
Implements	acre	16.44	1.0000	16.44	_____
Tractors	acre	26.82	1.0000	26.82	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	_____
TOTAL FIXED EXPENSES				246.58	_____
TOTAL SPECIFIED EXPENSES				1346.73	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1500.0000	1108.35	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1331.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.80	1.0000	55.80	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	128.29	1.0000	128.29	_____
INSECTICIDES	acre	105.72	1.0000	105.72	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6069	10.02	_____
UNALLOCATED LABOR	hour	16.55	0.4855	8.04	_____
DIESEL FUEL	gal	4.48	22.2512	99.69	_____
REPAIR & MAINTENANCE	acre	61.69	1.0000	61.69	_____
INTEREST ON OP. CAP.	acre	29.53	1.0000	29.53	_____

TOTAL DIRECT EXPENSES				1100.15	_____
RETURNS ABOVE DIRECT EXPENSES				230.95	_____

TOTAL FIXED EXPENSES				246.58	_____

TOTAL SPECIFIED EXPENSES				1346.73	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-15.63	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K20)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt\$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
1/4-mi. Pivot Irr.	acre				Jan	1.0000			0.20	
TOTALS							0.60	0.39	1.12	0.48

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	73.87						2.76	76.63	76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	73.87						1.97	75.84	75.84
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	9.60						0.20	9.80	9.80
IncidentalPestTrt\$15	acre	22.50						0.48	22.98	22.98
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	165.00						0.88	165.88	165.88
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53 19.43
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96 163.58
TOTALS			886.52	99.69	61.69	22.72	0.00	29.53	1100.15	246.58 1346.73

Note: Cost of production estimates are based on 2022 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, 2023

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	1331.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	24.00	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	57.15	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	5.29	3.84	0.20	0.15	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.43	0.00	0.00	0.00	0.00	3.58	7.60	22.38	20.07	15.05	0.00	25.58
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.56	3.34	21.27	1.99	1.49	0.00	28.91
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	3.02	7.04	4.63	2.36	0.90	0.32	1.22
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	83.79	226.78	178.94	112.81	57.83	29.70	229.85
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-83.79	-226.78	-178.94	-112.81	-57.83	-29.70	1101.25
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-264.24	-491.02	-669.96	-782.77	-840.60	-870.30	230.95

Note: Cost of production estimates are based on 2022 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, cons. tillage, pivot irr.,
 B3XF variety, 7.5 ac.-in., Delta Area, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-378	-351	-323	-295	-267	-240	-212	-184	-157	-129	-101
			-625	-597	-569	-542	-514	-486	-459	-431	-403	-376	-348
60	900.00	lb	-312	-279	-245	-212	-179	-146	-112	-79	-46	-13	20
			-558	-525	-492	-459	-425	-392	-359	-326	-292	-259	-226
70	1050.00	lb	-245	-206	-168	-129	-90	-51	-12	25	64	103	142
			-492	-453	-414	-375	-337	-298	-259	-220	-181	-143	-104
80	1200.00	lb	-179	-134	-90	-46	-1	42	86	131	175	219	264
			-425	-381	-337	-292	-248	-204	-159	-115	-71	-26	17
90	1350.00	lb	-112	-62	-12	36	86	136	186	236	286	336	386
			-359	-309	-259	-209	-159	-109	-60	-10	39	89	139
100	1500.00	lb	-46	9	64	120	175	230	286	341	397	452	508
			-292	-237	-181	-126	-71	-15	39	95	150	206	261
110	1650.00	lb	20	81	142	203	264	325	386	447	508	569	629
			-226	-165	-104	-43	17	78	139	200	261	322	383
120	1800.00	lb	86	153	219	286	352	419	485	552	618	685	751
			-159	-93	-26	39	106	172	239	305	372	438	505
130	1950.00	lb	153	225	297	369	441	513	585	657	729	801	873
			-93	-21	50	123	195	267	339	411	483	555	627
140	2100.00	lb	220	297	375	452	530	607	685	763	840	918	995
			-26	51	128	206	283	361	438	516	594	671	749
150	2250.00	lb	286	369	452	535	619	702	785	868	951	1034	1117
			39	123	206	289	372	455	538	621	704	788	871

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 2022 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	25.4000	109.22	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.2712	4.48	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	16.55	0.3830	6.34	_____
DIESEL FUEL					
Tractors	gal	4.48	4.1890	18.78	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
REPAIR & MAINTENANCE					
Implements	acre	6.98	1.0000	6.98	_____
Tractors	acre	2.57	1.0000	2.57	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
INTEREST ON OP. CAP.	acre	24.71	1.0000	24.71	_____
TOTAL DIRECT EXPENSES				921.90	_____
FIXED EXPENSES					
Implements	acre	10.49	1.0000	10.49	_____
Tractors	acre	18.22	1.0000	18.22	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
TOTAL FIXED EXPENSES				144.07	_____
TOTAL SPECIFIED EXPENSES				1065.97	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	179.12	1.0000	179.12	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	128.29	1.0000	128.29	_____
INSECTICIDES	acre	98.22	1.0000	98.22	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.4788	7.90	_____
UNALLOCATED LABOR	hour	16.55	0.3830	6.34	_____
DIESEL FUEL	gal	4.48	9.0726	40.66	_____
REPAIR & MAINTENANCE	acre	35.38	1.0000	35.38	_____
INTEREST ON OP. CAP.	acre	24.71	1.0000	24.71	_____

TOTAL DIRECT EXPENSES				921.90	_____
RETURNS ABOVE DIRECT EXPENSES				142.98	_____

TOTAL FIXED EXPENSES				144.07	_____

TOTAL SPECIFIED EXPENSES				1065.97	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-1.09	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	ALLOC UNIT	UNALL LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May		0.01	0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May		0.01	0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun		0.01	0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38 (500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
NT Plant-Folding	12R-38		3.58	2.47	2.00			0.26	8.31	7.79 16.10
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	109.22						2.91	112.13	112.13
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	132.00						0.70	132.70	132.70
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53 19.43
TOTALS		804.30	40.66	35.38	16.85	0.00	24.71	921.90	144.07	1065.97

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	109.22	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	31.89	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	4.02	3.69	0.00	0.00	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	7.75	7.33	0.00	0.00	0.00	25.58
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.67	2.80	0.00	0.00	0.00	28.91
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	1.71	0.00	7.02	4.68	1.67	0.64	0.32	1.04
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	41.86	0.00	225.97	180.67	79.16	40.88	29.70	196.67
NET INCOME	-126.99	0.00	0.00	0.00	-41.86	0.00	-225.97	-180.67	-79.16	-40.88	-29.70	868.21
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-168.85	-168.85	-394.82	-575.49	-654.65	-695.53	-725.23	142.98

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-344 -488	-322 -466	-300 -444	-278 -422	-256 -400	-234 -378	-211 -355	-189 -333	-167 -311	-145 -289	-123 -267
60	720.00	lb	-291 -435	-265 -409	-238 -382	-211 -355	-185 -329	-158 -302	-132 -276	-105 -249	-78 -222	-52 -196	-25 -169
70	840.00	lb	-238 -382	-207 -351	-176 -320	-145 -289	-114 -258	-83 -227	-52 -196	-21 -165	9 -134	40 -103	71 -72
80	960.00	lb	-185 -329	-149 -293	-114 -258	-78 -222	-43 -187	-7 -151	27 -116	63 -80	98 -45	134 -10	169 25
90	1080.00	lb	-131 -275	-92 -236	-52 -196	-12 -156	27 -116	67 -76	107 -36	147 3	187 43	227 83	267 123
100	1200.00	lb	-78 -222	-34 -178	9 -134	54 -89	98 -45	142 -1	187 43	231 87	275 131	320 176	364 220
110	1320.00	lb	-25 -169	23 -120	72 -71	120 -23	169 25	218 74	267 123	315 171	364 220	413 269	462 318
120	1440.00	lb	27 -116	80 -63	134 -9	187 43	240 96	293 149	346 202	400 256	453 309	506 362	559 415
130	1560.00	lb	81 -63	138 -5	196 52	253 109	311 167	369 225	426 282	484 340	542 398	599 455	657 513
140	1680.00	lb	134 -9	196 52	258 114	320 176	382 238	444 300	506 362	568 424	630 486	692 548	754 610
150	1800.00	lb	187 43	253 109	320 176	386 242	453 309	519 375	586 442	652 508	719 575	785 641	852 708

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 2022 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., B3XF variety, Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	32.5498	139.96	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	1.3400	7.97	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	30.0000	70.50	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	42.7200	9.40	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
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	16.54	0.8159	13.50	_____
Self-Propelled	hour	16.54	0.1958	3.23	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR					
	hour	16.55	0.8094	13.40	_____
DIESEL FUEL					
Tractors	gal	4.48	12.6003	56.46	_____
Self-Propelled	gal	4.48	3.4035	15.25	_____
REPAIR & MAINTENANCE					
Implements	acre	13.75	1.0000	13.75	_____
Tractors	acre	7.75	1.0000	7.75	_____
Self-Propelled	acre	10.01	1.0000	10.01	_____
INTEREST ON OP. CAP.	acre	25.79	1.0000	25.79	_____
TOTAL DIRECT EXPENSES				908.98	_____
FIXED EXPENSES					
Implements	acre	24.03	1.0000	24.03	_____
Tractors	acre	54.80	1.0000	54.80	_____
Self-Propelled	acre	45.20	1.0000	45.20	_____
TOTAL FIXED EXPENSES				124.03	_____
TOTAL SPECIFIED EXPENSES				1033.01	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	811.0000	599.25	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				719.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	209.86	1.0000	209.86	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	128.29	1.0000	128.29	_____
INSECTICIDES	acre	94.29	1.0000	94.29	_____
SEED/PLANTS	acre	70.50	1.0000	70.50	_____
GROWTH REGULATORS	acre	9.40	1.0000	9.40	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.0118	16.73	_____
UNALLOCATED LABOR	hour	16.55	0.8094	13.40	_____
DIESEL FUEL	gal	4.48	16.0039	71.71	_____
REPAIR & MAINTENANCE	acre	31.51	1.0000	31.51	_____
INTEREST ON OP. CAP.	acre	25.79	1.0000	25.79	_____

TOTAL DIRECT EXPENSES				908.98	_____
RETURNS ABOVE DIRECT EXPENSES				-189.28	_____
TOTAL FIXED EXPENSES					
				124.03	_____

TOTAL SPECIFIED EXPENSES				1033.01	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-313.31	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed B3XF	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1 (350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1 (350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	8R-38 2x1		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	8R-38 2x1		1.71	0.70	0.74			0.20	3.35	3.08 6.43
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	8R-38 2x1		3.58	1.62	1.76			0.26	7.22	4.92 12.14
UAN (32%)	gal	69.98						2.61	72.59	72.59
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	8R-38 2x1		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed B3XF	thous	70.50						2.26	72.76	72.76
Cotton Seed Trt.	acre	13.40						0.43	13.83	13.83
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Spray (Direct/Layby)	8R-38 2x1		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	8R-38 2x1		3.58	1.62	1.76			0.19	7.15	4.92 12.07
UAN (32%)	gal	69.98						1.87	71.85	71.85
Spray (Direct/Layby)	8R-38 2x1		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	7.97						0.21	8.18	8.18
Mepiquat Chloride	oz	2.36						0.06	2.42	2.42
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Cotton Picker	4R2x1 (350)		13.91	9.61	6.69			0.16	30.37	42.28 72.65
Boll Buggy	4R2x1 (350)		11.92	2.95	5.13			0.11	20.11	14.63 34.74
Module Builder	4R2x1 (350)		11.92	3.13	6.69			0.12	21.86	15.05 36.91
Gin & Haul	lb	89.21						0.48	89.69	89.69
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
TOTALS			745.31	71.71	31.51	34.66	0.00	25.79	908.98	124.03 1033.01

Note: Cost of production estimates are based on 2022 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, 2023

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	719.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	69.98	0.00	69.98	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	31.89	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	12.55	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	70.50	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	3.95	4.82	0.00	0.00	0.00	21.79
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	5.43	0.00	0.00	0.00	0.00	3.58	7.60	9.74	0.00	0.00	0.00	45.36
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.62	3.34	3.70	0.00	0.00	0.00	19.72
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	2.87	5.67	3.63	1.67	0.64	0.32	0.95
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	79.81	182.22	139.73	79.16	40.88	29.70	177.03
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-79.81	-182.22	-139.73	-79.16	-40.88	-29.70	542.67
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-260.26	-442.48	-582.21	-661.37	-702.25	-731.95	-189.28

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT YIELD UNIT			dollars										
50	405.50	lb	-518 -642	-503 -628	-489 -613	-474 -598	-459 -583	-444 -568	-429 -553	-414 -538	-399 -523	-384 -508	-369 -493
60	486.60	lb	-482 -607	-465 -589	-447 -571	-429 -553	-411 -535	-393 -517	-375 -499	-357 -481	-339 -463	-321 -445	-303 -427
70	567.70	lb	-447 -571	-426 -550	-405 -529	-384 -508	-363 -487	-342 -466	-321 -445	-300 -424	-279 -403	-258 -382	-237 -361
80	648.80	lb	-411 -535	-387 -511	-363 -487	-339 -463	-315 -439	-291 -415	-267 -391	-243 -367	-219 -343	-195 -319	-171 -295
90	729.90	lb	-375 -499	-348 -472	-321 -445	-294 -418	-267 -391	-240 -364	-213 -337	-186 -310	-159 -283	-132 -256	-105 -229
100	811.00	lb	-339 -463	-309 -433	-279 -403	-249 -373	-219 -343	-189 -313	-159 -283	-129 -253	-99 -223	-69 -193	-39 -163
110	892.10	lb	-303 -427	-270 -394	-237 -361	-204 -328	-171 -295	-138 -262	-105 -229	-72 -196	-39 -163	-6 -130	26 -97
120	973.20	lb	-267 -391	-231 -355	-195 -319	-159 -283	-123 -247	-87 -211	-51 -175	-15 -139	20 -103	56 -67	92 -31
130	1054.30	lb	-231 -355	-192 -316	-153 -277	-114 -238	-75 -199	-36 -160	2 -121	41 -82	80 -43	119 -4	158 34
140	1135.40	lb	-195 -319	-153 -277	-111 -235	-69 -193	-27 -151	14 -109	56 -67	98 -25	140 16	182 58	224 100
150	1216.50	lb	-159 -283	-114 -238	-69 -193	-24 -148	20 -103	65 -58	110 -13	155 31	200 76	245 121	290 166

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 2022 input prices.

Table 6.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.9288	15.36	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
	hour	16.60	0.9608	15.95	_____
DIESEL FUEL					
Tractors	gal	4.48	14.3433	64.26	_____
Self-Propelled	gal	4.48	4.4209	19.81	_____
REPAIR & MAINTENANCE					
Implements	acre	13.93	1.0000	13.93	_____
Tractors	acre	8.85	1.0000	8.85	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	24.94	1.0000	24.94	_____
TOTAL DIRECT EXPENSES				866.41	_____
FIXED EXPENSES					
Implements	acre	23.87	1.0000	23.87	_____
Tractors	acre	62.40	1.0000	62.40	_____
Self-Propelled	acre	67.48	1.0000	67.48	_____
TOTAL FIXED EXPENSES				153.75	_____
TOTAL SPECIFIED EXPENSES				1020.16	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1000.0000	738.90	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				887.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.43	1.0000	114.43	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.2010	19.83	_____
UNALLOCATED LABOR	hour	16.60	0.9608	15.95	_____
DIESEL FUEL	gal	4.48	18.7642	84.07	_____
REPAIR & MAINTENANCE	acre	37.00	1.0000	37.00	_____
INTEREST ON OP. CAP.	acre	24.94	1.0000	24.94	_____

TOTAL DIRECT EXPENSES				866.41	_____
RETURNS ABOVE DIRECT EXPENSES				20.99	_____

TOTAL FIXED EXPENSES				153.75	_____

TOTAL SPECIFIED EXPENSES				1020.16	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-132.76	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38	MFWD 300	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 300	0.074	0.50	Nov		0.03	0.03	0.03	0.02
Sprayer 600-825gal	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)	8R-38	MFWD 300	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 300	0.074	1.00	May		0.07	0.07	0.14	0.05
Cotton Seed B3XF	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	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					
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	0.11	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	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				
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'	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	8R-38		5.59	2.80	2.41			0.69	11.49	9.49
Bed/Disk (Hipper)Rd	8R-38		2.56	0.64	1.10			0.28	4.58	3.35
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.38	10.68	7.17
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Rigid	26'		4.13	0.92	1.78			0.22	7.05	5.70
Plant - Folding	8R-38		5.16	2.52	2.90			0.34	10.92	8.96
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.27	10.57	7.17
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	8R-38		4.63	1.25	2.30			0.22	8.40	5.32
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker	6R-38(355)		14.11	12.52	6.69			0.18	33.50	55.07
Boll Buggy	6R-38(355)		11.92	2.95	5.13			0.11	20.11	14.63
Module Builder	6R-38(355)		11.92	3.13	6.69			0.12	21.86	15.05
Gin & Haul	lb	110.00						0.59	110.59	110.59
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43
TOTALS			679.39	84.07	37.00	41.01	0.00	24.94	866.41	153.75
										1020.16

Note: Cost of production estimates are based on 2022 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, 2023

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	887.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	62.21	0.00	62.21	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	18.03	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	3.51	0.00	0.00	0.00	0.40	2.66	5.48	5.36	0.80	0.40	0.61	21.79
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	8.15	0.00	0.00	0.00	0.67	5.37	10.63	10.67	1.34	0.67	1.01	45.56
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.20	2.27	3.84	3.72	0.40	0.20	0.30	22.63
INTEREST ON OP. CAP.	8.60	0.00	0.00	0.00	0.85	2.70	7.16	3.59	0.61	0.13	0.22	1.08
TOTAL DIRECT EXPENSES	143.06	0.00	0.00	0.00	20.81	75.21	230.62	138.50	28.65	8.38	20.12	201.06
NET INCOME	-143.06	0.00	0.00	0.00	-20.81	-75.21	-230.62	-138.50	-28.65	-8.38	-20.12	686.34
NET INCOME TO DATE	-143.06	-143.06	-143.06	-143.06	-163.87	-239.08	-469.70	-608.20	-636.85	-645.23	-665.35	20.99

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
			dollars										
PERCENT	YIELD	UNIT											
50	500.00	lb	-385	-367	-348	-330	-311	-293	-274	-256	-237	-219	-200
			-539	-520	-502	-483	-465	-446	-428	-409	-391	-373	-354
60	600.00	lb	-341	-319	-296	-274	-252	-230	-208	-186	-163	-141	-119
			-494	-472	-450	-428	-406	-384	-361	-339	-317	-295	-273
70	700.00	lb	-296	-270	-245	-219	-193	-167	-141	-115	-89	-64	-38
			-450	-424	-398	-372	-347	-321	-295	-269	-243	-217	-191
80	800.00	lb	-252	-222	-193	-163	-134	-104	-75	-45	-16	13	43
			-406	-376	-347	-317	-287	-258	-228	-199	-169	-140	-110
90	900.00	lb	-208	-174	-141	-108	-75	-41	-8	24	57	91	124
			-361	-328	-295	-262	-228	-195	-162	-129	-95	-62	-29
100	1000.00	lb	-163	-126	-89	-52	-15	20	57	94	131	168	205
			-317	-280	-243	-206	-169	-132	-95	-58	-21	15	51
110	1100.00	lb	-119	-78	-38	2	43	83	124	165	205	246	287
			-273	-232	-191	-151	-110	-69	-29	11	51	92	133
120	1200.00	lb	-75	-30	13	57	102	146	190	235	279	323	368
			-228	-184	-140	-95	-51	-7	37	81	125	170	214
130	1300.00	lb	-30	17	65	113	161	209	257	305	353	401	449
			-184	-136	-88	-40	7	55	103	151	199	247	295
140	1400.00	lb	13	65	117	168	220	272	324	375	427	479	530
			-140	-88	-36	15	66	118	170	222	273	325	377
150	1500.00	lb	58	113	168	224	279	335	390	445	501	556	612
			-95	-40	15	70	125	181	236	292	347	403	458

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 2022 input prices.

Table 7.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	18.4000	79.12	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.7365	12.18	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
	hour	16.60	0.8069	13.40	_____
DIESEL FUEL					
Tractors	gal	4.48	11.3731	50.95	_____
Self-Propelled	gal	4.48	4.4209	19.81	_____
REPAIR & MAINTENANCE					
Implements	acre	10.39	1.0000	10.39	_____
Tractors	acre	7.02	1.0000	7.02	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	21.68	1.0000	21.68	_____
TOTAL DIRECT EXPENSES				782.11	_____
FIXED EXPENSES					
Implements	acre	17.68	1.0000	17.68	_____
Tractors	acre	49.47	1.0000	49.47	_____
Self-Propelled	acre	67.48	1.0000	67.48	_____
TOTAL FIXED EXPENSES				134.63	_____
TOTAL SPECIFIED EXPENSES				916.74	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	900.0000	665.01	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				798.66	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	149.02	1.0000	149.02	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.43	1.0000	114.43	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.0087	16.65	_____
UNALLOCATED LABOR	hour	16.60	0.8069	13.40	_____
DIESEL FUEL	gal	4.48	15.7941	70.76	_____
REPAIR & MAINTENANCE	acre	31.63	1.0000	31.63	_____
INTEREST ON OP. CAP.	acre	21.68	1.0000	21.68	_____

TOTAL DIRECT EXPENSES				782.11	_____
RETURNS ABOVE DIRECT EXPENSES				16.55	_____
TOTAL FIXED EXPENSES				134.63	_____

TOTAL SPECIFIED EXPENSES				916.74	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-118.08	_____

Note: Cost of production estimates are based on 2022 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, 2023

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	0.11	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	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				
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	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46	2.78
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Surfactant	pt	0.66						0.03	0.69		0.69
Row Cond Rigid	26'		4.13	0.92	1.78			0.22	7.05	5.70	12.75
NT Plant-Folding	8R-38		5.37	2.86	3.01			0.36	11.60	9.85	21.45
Cotton Seed B3XF	thous	105.75						3.38	109.13		109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Engenia	oz	10.62						0.34	10.96		10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23		11.23
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.27	10.57	7.17	17.74
UAN (32%)	gal	79.12						2.11	81.23		81.23
Spray (Direct/Layby)	8R-38		4.63	1.25	2.30			0.22	8.40	5.32	13.72
Engenia	oz	10.62						0.28	10.90		10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17		11.17
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	6.98						0.15	7.13		7.13
Incidental Pest											
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Acephate 90%	lb	6.98						0.11	7.09		7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73	1.39
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker	6R-38(355)		14.11	12.52	6.69			0.18	33.50	55.07	88.57
Boll Buggy	6R-38(355)		11.92	2.95	5.13			0.11	20.11	14.63	34.74
Module Builder	6R-38(355)		11.92	3.13	6.69			0.12	21.86	15.05	36.91
Gin & Haul	lb	99.00						0.53	99.53		99.53
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43	24.43
TOTALS		623.09	70.76	31.63	34.95	0.00	21.68	782.11	134.63	916.74	

Note: Cost of production estimates are based on 2022 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, 2023

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	798.66
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	79.12	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	18.03	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	0.40	0.00	5.59	5.36	0.80	0.40	0.61	21.79
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	0.67	0.00	10.84	10.67	1.34	0.67	1.01	45.56
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	4.18	3.72	0.40	0.20	0.30	22.63
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	0.85	0.00	7.18	4.04	0.61	0.13	0.22	1.02
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	20.81	0.00	231.30	155.86	28.65	8.38	20.12	190.00
NET INCOME	-126.99	0.00	0.00	0.00	-20.81	0.00	-231.30	-155.86	-28.65	-8.38	-20.12	608.66
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-147.80	-147.80	-379.10	-534.96	-563.61	-571.99	-592.11	16.55

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-349	-332	-316	-299	-282	-266	-249	-232	-216	-199	-183
			-483	-467	-450	-434	-417	-400	-384	-367	-350	-334	-317
60	540.00	lb	-309	-289	-269	-249	-229	-209	-189	-169	-149	-129	-109
			-444	-424	-404	-384	-364	-344	-324	-304	-284	-264	-244
70	630.00	lb	-269	-246	-222	-199	-176	-153	-129	-106	-83	-59	-36
			-404	-380	-357	-334	-310	-287	-264	-241	-217	-194	-171
80	720.00	lb	-229	-202	-176	-149	-123	-96	-69	-43	-16	9	36
			-364	-337	-310	-284	-257	-231	-204	-177	-151	-124	-98
90	810.00	lb	-189	-159	-129	-99	-69	-39	-10	19	49	79	109
			-324	-294	-264	-234	-204	-174	-144	-114	-84	-54	-25
100	900.00	lb	-149	-116	-83	-49	-16	16	49	83	116	149	182
			-284	-251	-217	-184	-151	-118	-84	-51	-18	14	48
110	990.00	lb	-109	-73	-36	-0	36	73	109	146	182	219	255
			-244	-207	-171	-134	-98	-61	-24	11	48	84	121
120	1080.00	lb	-69	-29	9	49	89	129	169	209	249	289	329
			-204	-164	-124	-84	-44	-4	34	74	114	154	194
130	1170.00	lb	-29	13	56	99	142	186	229	272	315	359	402
			-164	-121	-78	-34	8	51	94	138	181	224	267
140	1260.00	lb	9	56	103	149	196	242	289	335	382	428	475
			-124	-78	-31	15	61	108	154	201	247	294	340
150	1350.00	lb	49	99	149	199	249	299	349	399	448	498	548
			-84	-34	15	64	114	164	214	264	314	364	414

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 2022 input prices.

Table 8.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.4268	7.06	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour		16.61	0.5592	9.29	_____
DIESEL FUEL					
Tractors	gal	4.48	6.5911	29.54	_____
Self-Propelled	gal	4.48	5.7068	25.57	_____
REPAIR & MAINTENANCE					
Implements	acre	10.21	1.0000	10.21	_____
Tractors	acre	4.05	1.0000	4.05	_____
Self-Propelled	acre	26.93	1.0000	26.93	_____
INTEREST ON OP. CAP.	acre	24.10	1.0000	24.10	_____
TOTAL DIRECT EXPENSES				823.71	_____
FIXED EXPENSES					
Implements	acre	16.49	1.0000	16.49	_____
Tractors	acre	28.67	1.0000	28.67	_____
Self-Propelled	acre	123.39	1.0000	123.39	_____
TOTAL FIXED EXPENSES				168.55	_____
TOTAL SPECIFIED EXPENSES				992.26	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1000.0000	738.90	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				887.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.43	1.0000	114.43	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6990	11.53	_____
UNALLOCATED LABOR	hour	16.61	0.5592	9.29	_____
DIESEL FUEL	gal	4.48	12.2980	55.11	_____
REPAIR & MAINTENANCE	acre	41.19	1.0000	41.19	_____
INTEREST ON OP. CAP.	acre	24.10	1.0000	24.10	_____

TOTAL DIRECT EXPENSES				823.71	_____
RETURNS ABOVE DIRECT EXPENSES				63.69	_____

TOTAL FIXED EXPENSES				168.55	_____

TOTAL SPECIFIED EXPENSES				992.26	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-104.86	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-825gal	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				1.00	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/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.69	0.42	1.04	0.55

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46 2.78
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46 2.75
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46 2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73 1.39
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	110.00						0.59	110.59	110.59
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
TOTALS		679.39	55.11	41.19	23.92	0.00	24.10	823.71	168.55	992.26

Note: Cost of production estimates are based on 2022 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, 2023

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	887.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	62.21	0.00	62.21	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	18.03	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	2.34	0.00	0.00	0.00	0.40	1.76	3.95	3.69	0.80	0.40	0.61	9.97
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	5.43	0.00	0.00	0.00	0.67	3.58	7.60	7.33	1.34	0.67	1.01	27.48
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.20	1.56	3.34	2.80	0.40	0.20	0.30	29.26
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	0.85	2.58	7.00	3.43	0.61	0.13	0.22	0.95
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	20.81	71.69	225.40	132.41	28.65	8.38	20.12	177.66
NET INCOME	-138.59	0.00	0.00	0.00	-20.81	-71.69	-225.40	-132.41	-28.65	-8.38	-20.12	709.74
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-159.40	-231.09	-456.49	-588.90	-617.55	-625.93	-646.05	63.69

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT YIELD UNIT			dollars										
50	500.00	lb	-342 -511	-324 -492	-305 -474	-287 -455	-268 -437	-250 -419	-231 -400	-213 -382	-195 -363	-176 -345	-158 -326
60	600.00	lb	-298 -467	-276 -444	-254 -422	-231 -400	-209 -378	-187 -356	-165 -334	-143 -311	-121 -289	-98 -267	-76 -245
70	700.00	lb	-254 -422	-228 -396	-202 -370	-176 -345	-150 -319	-124 -293	-98 -267	-73 -241	-47 -215	-21 -189	4 -164
80	800.00	lb	-209 -378	-180 -348	-150 -319	-121 -289	-91 -260	-61 -230	-32 -200	-2 -171	26 -141	56 -112	85 -82
90	900.00	lb	-165 -333	-132 -300	-98 -267	-65 -234	-32 -200	0 -167	34 -134	67 -101	100 -67	133 -34	167 -1
100	1000.00	lb	-121 -289	-84 -252	-47 -215	-10 -178	26 -141	63 -104	100 -67	137 -30	174 5	211 42	248 79
110	1100.00	lb	-76 -245	-36 -204	4 -163	45 -123	85 -82	126 -42	167 -1	207 39	248 79	289 120	329 161
120	1200.00	lb	-32 -200	12 -156	56 -112	100 -67	145 -23	189 20	233 65	278 109	322 153	366 198	411 242
130	1300.00	lb	12 -156	60 -108	108 -60	156 -12	204 35	252 83	300 131	348 179	396 227	444 275	492 323
140	1400.00	lb	56 -112	108 -60	159 -8	211 43	263 94	315 146	366 198	418 249	470 301	521 353	573 405
150	1500.00	lb	100 -67	156 -12	211 43	267 98	322 153	377 209	433 264	488 320	544 375	599 430	654 486

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 2022 input prices.

Table 9.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	18.4000	79.12	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.2987	4.94	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	hour	16.61	0.4567	7.59	_____
DIESEL FUEL					
Tractors	gal	4.48	4.6137	20.68	_____
Self-Propelled	gal	4.48	5.7068	25.57	_____
REPAIR & MAINTENANCE					
Implements	acre	7.06	1.0000	7.06	_____
Tractors	acre	2.84	1.0000	2.84	_____
Self-Propelled	acre	26.93	1.0000	26.93	_____
INTEREST ON OP. CAP.	acre	21.23	1.0000	21.23	_____
TOTAL DIRECT EXPENSES				747.29	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	20.07	1.0000	20.07	_____
Self-Propelled	acre	123.39	1.0000	123.39	_____
TOTAL FIXED EXPENSES				154.00	_____
TOTAL SPECIFIED EXPENSES				901.29	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	900.0000	665.01	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				798.66	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	149.02	1.0000	149.02	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.43	1.0000	114.43	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.5709	9.41	_____
UNALLOCATED LABOR	hour	16.61	0.4567	7.59	_____
DIESEL FUEL	gal	4.48	10.3205	46.25	_____
REPAIR & MAINTENANCE	acre	36.83	1.0000	36.83	_____
INTEREST ON OP. CAP.	acre	21.23	1.0000	21.23	_____

TOTAL DIRECT EXPENSES				747.29	_____
RETURNS ABOVE DIRECT EXPENSES				51.37	_____
TOTAL FIXED EXPENSES				154.00	_____

TOTAL SPECIFIED EXPENSES				901.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-102.63	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-825gal	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)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	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				
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	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46	2.78
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Surfactant	pt	0.66						0.03	0.69		0.69
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
NT Plant-Folding	12R-38		3.58	2.47	2.00			0.26	8.31	7.79	16.10
Cotton Seed B3XF	thous	105.75						3.38	109.13		109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Engenia	oz	10.62						0.34	10.96		10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23		11.23
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	79.12						2.11	81.23		81.23
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83	9.63
Engenia	oz	10.62						0.28	10.90		10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17		11.17
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	6.98						0.15	7.13		7.13
Incidental Pest											
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Acephate 90%	lb	6.98						0.11	7.09		7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73	1.39
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	99.00						0.53	99.53		99.53
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43	24.43
TOTALS			623.09	46.25	36.83	19.89	0.00	21.23	747.29	154.00	901.29

Note: Cost of production estimates are based on 2022 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, 2023

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	798.66
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	79.12	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	18.03	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	0.40	0.00	4.02	3.69	0.80	0.40	0.61	9.97
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	0.67	0.00	7.75	7.33	1.34	0.67	1.01	27.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.67	2.80	0.40	0.20	0.30	29.26
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	0.85	0.00	7.02	3.88	0.61	0.13	0.22	0.89
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	20.81	0.00	225.97	149.77	28.65	8.38	20.12	166.60
NET INCOME	-126.99	0.00	0.00	0.00	-20.81	0.00	-225.97	-149.77	-28.65	-8.38	-20.12	632.06
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-147.80	-147.80	-373.77	-523.54	-552.19	-560.57	-580.69	51.37

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-314	-297	-281	-264	-247	-231	-214	-198	-181	-164	-148
			-468	-451	-435	-418	-401	-385	-368	-352	-335	-318	-302
60	540.00	lb	-274	-254	-234	-214	-194	-174	-154	-134	-114	-95	-75
			-428	-408	-388	-368	-348	-328	-308	-288	-268	-249	-229
70	630.00	lb	-234	-211	-188	-164	-141	-118	-94	-71	-48	-25	-1
			-388	-365	-342	-318	-295	-272	-248	-225	-202	-179	-155
80	720.00	lb	-194	-168	-141	-114	-88	-61	-35	-8	18	44	71
			-348	-322	-295	-268	-242	-215	-189	-162	-135	-109	-82
90	810.00	lb	-154	-124	-94	-65	-35	-5	24	54	84	114	144
			-308	-278	-248	-219	-189	-159	-129	-99	-69	-39	-9
100	900.00	lb	-114	-81	-48	-15	18	51	84	117	151	184	217
			-268	-235	-202	-169	-135	-102	-69	-36	-2	30	63
110	990.00	lb	-74	-38	-1	34	71	107	144	181	217	254	290
			-228	-192	-155	-119	-82	-46	-9	27	63	100	136
120	1080.00	lb	-35	4	44	84	124	164	204	244	284	324	363
			-189	-149	-109	-69	-29	10	50	90	130	170	209
130	1170.00	lb	4	48	91	134	177	221	264	307	350	393	437
			-149	-105	-62	-19	23	67	110	153	196	239	283
140	1260.00	lb	44	91	137	184	231	277	324	370	417	463	510
			-109	-62	-16	30	77	123	170	216	263	309	356
150	1350.00	lb	84	134	184	234	284	334	383	433	483	533	583
			-69	-19	30	80	130	180	229	279	329	379	429

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Engenia	oz	0.83	25.6000	21.25	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.35	45.0000	105.75	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.4268	7.06	_____
Self-Propelled	hour	16.54	0.2780	4.57	_____
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	16.59	0.5639	9.36	_____
DIESEL FUEL					
Tractors	gal	4.48	6.5911	29.54	_____
Self-Propelled	gal	4.48	5.7817	25.91	_____
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.21	1.0000	10.21	_____
Tractors	acre	4.05	1.0000	4.05	_____
Self-Propelled	acre	27.03	1.0000	27.03	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	26.04	1.0000	26.04	_____
TOTAL DIRECT EXPENSES				929.75	_____
FIXED EXPENSES					
Implements	acre	16.49	1.0000	16.49	_____
Tractors	acre	28.67	1.0000	28.67	_____
Self-Propelled	acre	124.12	1.0000	124.12	_____
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	_____
TOTAL FIXED EXPENSES				257.24	_____
TOTAL SPECIFIED EXPENSES				1186.99	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	114.43	1.0000	114.43	_____
INSECTICIDES	acre	57.59	1.0000	57.59	_____
SEED/PLANTS	acre	105.75	1.0000	105.75	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.7049	11.63	_____
UNALLOCATED LABOR	hour	16.59	0.5639	9.36	_____
DIESEL FUEL	gal	4.48	23.5740	105.62	_____
REPAIR & MAINTENANCE	acre	63.24	1.0000	63.24	_____
INTEREST ON OP. CAP.	acre	26.04	1.0000	26.04	_____

TOTAL DIRECT EXPENSES				929.75	_____
RETURNS ABOVE DIRECT EXPENSES				135.13	_____

TOTAL FIXED EXPENSES				257.24	_____

TOTAL SPECIFIED EXPENSES				1186.99	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-122.11	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-825gal	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					
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
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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K20)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46 2.78
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed B3XF	thous	105.75						3.38	109.13	109.13
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Engenia	oz	10.62						0.34	10.96	10.96
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23	11.23
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Engenia	oz	10.62						0.28	10.90	10.90
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		1.01	0.30	0.60			0.04	1.95	2.19 4.14
IncidentalPestTrt\$15	acre	22.50						0.48	22.98	22.98
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46 2.75
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46 2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73 1.39
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	132.00						0.70	132.70	132.70
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96 163.58
TOTALS			708.89	105.62	63.24	25.96	0.00	26.04	929.75	257.24 1186.99

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	62.21	0.00	62.21	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	18.03	0.00	63.45	32.95	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	29.48	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	105.75	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	2.34	0.00	0.00	0.00	0.40	1.76	5.29	3.84	1.20	0.55	0.61	9.97
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	5.43	0.00	0.00	0.00	0.67	3.58	7.60	22.38	21.75	15.72	1.01	27.48
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.20	1.56	3.34	21.27	2.49	1.69	0.30	29.26
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	0.85	2.58	7.04	4.32	1.25	0.39	0.22	1.06
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	20.81	71.69	226.78	166.97	59.69	25.33	20.12	199.77
NET INCOME	-138.59	0.00	0.00	0.00	-20.81	-71.69	-226.78	-166.97	-59.69	-25.33	-20.12	865.11
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-159.40	-231.09	-457.87	-624.84	-684.53	-709.86	-729.98	135.13

Note: Cost of production estimates are based on 2022 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, 2023

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	600.00	lb	-352 -609	-330 -587	-308 -565	-286 -543	-264 -521	-241 -499	-219 -476	-197 -454	-175 -432	-153 -410	-131 -388
60	720.00	lb	-299 -556	-272 -530	-246 -503	-219 -476	-193 -450	-166 -423	-139 -397	-113 -370	-86 -343	-60 -317	-33 -290
70	840.00	lb	-246 -503	-215 -472	-184 -441	-153 -410	-122 -379	-91 -348	-60 -317	-28 -286	2 -255	33 -224	64 -193
80	960.00	lb	-193 -450	-157 -414	-122 -379	-86 -343	-51 -308	-15 -272	19 -237	55 -201	90 -166	126 -131	161 -95
90	1080.00	lb	-139 -397	-99 -357	-59 -317	-20 -277	19 -237	59 -197	99 -157	139 -117	179 -77	219 -37	259 1
100	1200.00	lb	-86 -343	-42 -299	2 -255	46 -210	90 -166	135 -122	179 -77	223 -33	268 10	312 55	356 99
110	1320.00	lb	-33 -290	15 -241	64 -193	112 -144	161 -95	210 -46	259 2	308 50	356 99	405 148	454 197
120	1440.00	lb	19 -237	73 -184	126 -130	179 -77	232 -24	285 28	339 81	392 135	445 188	498 241	551 294
130	1560.00	lb	73 -184	130 -126	188 -68	246 -11	303 46	361 104	418 161	476 219	534 276	591 334	649 392
140	1680.00	lb	126 -130	188 -68	250 -6	312 55	374 117	436 179	498 241	560 303	622 365	684 427	747 489
150	1800.00	lb	179 -77	246 -11	312 55	379 121	445 188	512 254	578 321	645 387	711 454	778 520	844 587

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2022 input prices.

Table 11.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	34.3582	147.74	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.3993	6.60	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR					
	hour	16.55	0.4855	8.04	_____
DIESEL FUEL					
Tractors	gal	4.48	6.1665	27.64	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
REPAIR & MAINTENANCE					
Implements	acre	10.13	1.0000	10.13	_____
Tractors	acre	3.78	1.0000	3.78	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
INTEREST ON OP. CAP.	acre	27.93	1.0000	27.93	_____
TOTAL DIRECT EXPENSES				996.74	_____
FIXED EXPENSES					
Implements	acre	16.44	1.0000	16.44	_____
Tractors	acre	26.82	1.0000	26.82	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
TOTAL FIXED EXPENSES				158.62	_____
TOTAL SPECIFIED EXPENSES				1155.36	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	145.49	1.0000	145.49	_____
INSECTICIDES	acre	98.22	1.0000	98.22	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6069	10.02	_____
UNALLOCATED LABOR	hour	16.55	0.4855	8.04	_____
DIESEL FUEL	gal	4.48	11.0501	49.52	_____
REPAIR & MAINTENANCE	acre	39.74	1.0000	39.74	_____
INTEREST ON OP. CAP.	acre	27.93	1.0000	27.93	_____

TOTAL DIRECT EXPENSES				996.74	_____
RETURNS ABOVE DIRECT EXPENSES				68.14	_____

TOTAL FIXED EXPENSES				158.62	_____

TOTAL SPECIFIED EXPENSES				1155.36	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-90.48	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.60	0.39	0.92	0.48

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44	15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08	6.43
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Select Max	pt	13.86						0.59	14.45		14.45
Surfactant	pt	0.66						0.03	0.69		0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84	12.00
UAN (32%)	gal	73.87						2.76	76.63		76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98	14.72
Cotton Seed W3FE	thous	104.40						3.34	107.74		107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	73.87						1.97	75.84		75.84
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83	9.63
Enlist Duo	pt	30.10						0.80	30.90		30.90
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Diamond .83EC	oz	13.38						0.29	13.67		13.67
Imidacloprid 4F	oz	2.12						0.05	2.17		2.17
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Acephate 90%	lb	6.98						0.15	7.13		7.13
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Bifenthrin	oz	7.23						0.15	7.38		7.38
App by Air (3 gal)	appl	1.60						0.03	1.63		1.63
Lambda	oz	2.08						0.04	2.12		2.12
Bidrin 8EC	oz	2.86						0.06	2.92		2.92
Incidental Pest											
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Acephate 90%	lb	6.98						0.11	7.09		7.09
Bifenthrin	oz	7.23						0.12	7.35		7.35
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Transform WG	oz	13.23						0.21	13.44		13.44
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
App by Air (5 gal)	appl	3.80						0.04	3.84		3.84
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	132.00						0.70	132.70		132.70
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53	19.43
TOTALS		858.67	49.52	39.74	20.88	0.00	27.93	996.74	158.62	1155.36	

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	3.95	3.69	0.00	0.00	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.43	0.00	0.00	0.00	0.00	3.58	7.60	7.33	0.00	0.00	0.00	25.58
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.56	3.34	2.80	0.00	0.00	0.00	28.91
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	3.02	7.23	3.97	1.67	0.64	0.32	1.04
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	83.79	232.88	153.21	79.16	40.88	29.70	196.67
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-83.79	-232.88	-153.21	-79.16	-40.88	-29.70	868.21
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-264.24	-497.12	-650.33	-729.49	-770.37	-800.07	68.14

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-419 -578	-397 -556	-375 -533	-353 -511	-331 -489	-308 -467	-286 -445	-264 -423	-242 -400	-220 -378	-198 -356
60	720.00	lb	-366 -525	-339 -498	-313 -471	-286 -445	-260 -418	-233 -392	-206 -365	-180 -338	-153 -312	-127 -285	-100 -259
70	840.00	lb	-313 -471	-282 -440	-251 -409	-220 -378	-189 -347	-158 -316	-127 -285	-95 -254	-64 -223	-33 -192	-2 -161
80	960.00	lb	-259 -418	-224 -383	-189 -347	-153 -312	-118 -276	-82 -241	-47 -205	-11 -170	23 -134	59 -99	94 -63
90	1080.00	lb	-206 -365	-166 -325	-126 -285	-87 -245	-47 -205	-7 -165	32 -125	72 -86	112 -46	152 -6	192 33
100	1200.00	lb	-153 -312	-109 -267	-64 -223	-20 -179	23 -134	68 -90	112 -46	156 -1	201 42	245 86	289 131
110	1320.00	lb	-100 -258	-51 -210	-2 -161	46 -112	94 -63	143 -15	192 33	241 82	289 131	338 179	387 228
120	1440.00	lb	-47 -205	6 -152	59 -99	112 -46	165 7	218 60	272 113	325 166	378 219	431 273	484 326
130	1560.00	lb	6 -152	63 -94	121 -37	179 20	236 78	294 135	351 193	409 250	467 308	524 366	582 423
140	1680.00	lb	59 -99	121 -37	183 24	245 86	307 149	369 211	431 273	493 335	555 397	618 459	680 521
150	1800.00	lb	112 -45	179 20	245 87	312 153	378 220	445 286	511 353	578 419	644 486	711 552	777 619

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.7500	36.80	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	34.3582	147.74	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
Transform WG	oz	8.82	1.5000	13.23	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	51.0000	11.22	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.5025	8.32	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
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	hour	16.54	0.5052	8.36	_____
DIESEL FUEL					
Tractors	gal	4.48	7.2737	32.60	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
Roll-Out Pipe Irr.	gal	4.48	8.5535	38.31	_____
REPAIR & MAINTENANCE					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	4.51	1.0000	4.51	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	29.55	1.0000	29.55	_____
TOTAL DIRECT EXPENSES				1107.87	_____
FIXED EXPENSES					
Implements	acre	19.68	1.0000	19.68	_____
Tractors	acre	31.95	1.0000	31.95	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
Roll-Out Pipe Irr.	acre	65.01	1.0000	65.01	_____
TOTAL FIXED EXPENSES				232.00	_____
TOTAL SPECIFIED EXPENSES				1339.87	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1500.0000	1108.35	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1331.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.80	1.0000	55.80	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	145.49	1.0000	145.49	_____
INSECTICIDES	acre	105.72	1.0000	105.72	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	11.22	1.0000	11.22	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.7101	11.74	_____
UNALLOCATED LABOR	hour	16.54	0.5052	8.36	_____
DIESEL FUEL	gal	4.48	20.7109	92.79	_____
REPAIR & MAINTENANCE	acre	48.36	1.0000	48.36	_____
INTEREST ON OP. CAP.	acre	29.55	1.0000	29.55	_____

TOTAL DIRECT EXPENSES				1107.87	_____
RETURNS ABOVE DIRECT EXPENSES				223.23	_____

TOTAL FIXED EXPENSES				232.00	_____

TOTAL SPECIFIED EXPENSES				1339.87	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-8.77	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	1.00	Nov		0.04	0.04	0.04	0.03
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					17.1791				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jul		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					19.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.50	Jul					
App by Air (3 gal)	appl					1.5000				
IncidentalPestTrt\$15	acre					1.5000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1500.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
Roll-Out Pipe Irr.	acre				Jan	1.0000	0.07	0.07	0.44	
TOTALS							0.71	0.50	1.38	0.50

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44	15.69
Bed/Disk (Hipper)	12R-38		3.41	1.42	1.47			0.40	6.70	6.15	12.85
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Select Max	pt	13.86						0.59	14.45		14.45
Surfactant	pt	0.66						0.03	0.69		0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84	12.00
UAN (32%)	gal	73.87						2.76	76.63		76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98	14.72
Cotton Seed W3FE	thous	104.40						3.34	107.74		107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	73.87						1.97	75.84		75.84
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Diamond .83EC	oz	13.38						0.29	13.67		13.67
Imidacloprid 4F	oz	2.12						0.05	2.17		2.17
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.12	5.77	3.83	9.60
Enlist Duo	pt	30.10						0.64	30.74		30.74
Dual Magnum	pt	11.45						0.24	11.69		11.69
Centric 40WG	oz	11.90						0.25	12.15		12.15
Mepiquat Chloride	oz	4.18						0.09	4.27		4.27
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Acephate 90%	lb	6.98						0.11	7.09		7.09
Bifenthrin	oz	7.23						0.12	7.35		7.35
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Transform WG	oz	13.23						0.21	13.44		13.44
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
App by Air (5 gal)	appl	3.80						0.04	3.84		3.84
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	165.00						0.88	165.88		165.88
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53	19.43
Roll-Out Pipe Irr.	acre	7.92	41.57	7.90	4.61			1.35	63.35	70.31	133.66
TOTALS		910.95	92.79	48.36	26.22	0.00	29.55	1107.87	232.00	1339.87	

Note: Cost of production estimates are based on 2022 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, 2023

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	1331.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	24.00	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	72.05	0.00	41.55	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	4.58	69.05	27.44	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	104.40	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	11.22	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	38.63	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	3.07	0.00	0.00	0.00	0.00	1.76	4.18	4.80	1.76	0.23	0.65	9.77
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	7.13	0.00	0.00	0.00	0.00	3.58	7.60	17.88	15.85	12.77	0.74	27.24
REPAIR & MAINTENANCE	3.85	0.00	0.00	0.00	0.00	1.56	3.34	6.32	2.44	1.40	0.18	29.27
INTEREST ON OP. CAP.	8.53	0.00	0.00	0.00	1.71	3.02	7.24	3.08	3.53	0.87	0.34	1.23
TOTAL DIRECT EXPENSES	141.94	0.00	0.00	0.00	41.86	83.79	233.12	118.45	169.40	55.51	31.29	232.51
NET INCOME	-141.94	0.00	0.00	0.00	-41.86	-83.79	-233.12	-118.45	-169.40	-55.51	-31.29	1098.59
NET INCOME TO DATE	-141.94	-141.94	-141.94	-141.94	-183.80	-267.59	-500.71	-619.16	-788.56	-844.07	-875.36	223.23

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-386 -618	-358 -590	-331 -563	-303 -535	-275 -507	-248 -480	-220 -452	-192 -424	-164 -396	-137 -369	-109 -341
60	900.00	lb	-320 -552	-286 -518	-253 -485	-220 -452	-187 -419	-153 -385	-120 -352	-87 -319	-54 -286	-20 -252	12 -219
70	1050.00	lb	-253 -485	-214 -446	-175 -407	-137 -369	-98 -330	-59 -291	-20 -252	18 -213	56 -175	95 -136	134 -97
80	1200.00	lb	-186 -418	-142 -374	-98 -330	-53 -285	-9 -241	34 -197	79 -152	123 -108	167 -64	212 -19	256 24
90	1350.00	lb	-120 -352	-70 -302	-20 -252	29 -202	79 -152	128 -103	178 -53	228 -3	278 46	328 96	378 146
100	1500.00	lb	-53 -285	1 -230	56 -175	112 -119	167 -64	223 -8	278 46	334 102	389 157	444 212	500 268
110	1650.00	lb	12 -219	73 -158	134 -97	195 -36	256 24	317 85	378 146	439 207	500 268	561 329	622 390
120	1800.00	lb	79 -152	145 -86	212 -19	278 46	345 113	411 179	478 246	544 312	611 379	677 445	744 512
130	1950.00	lb	145 -86	217 -14	289 57	361 129	433 201	505 273	578 346	650 418	722 490	794 562	866 634
140	2100.00	lb	212 -19	289 57	367 135	445 213	522 290	600 368	677 445	755 523	832 600	910 678	988 756
150	2250.00	lb	278 46	361 129	445 213	528 296	611 379	694 462	777 545	860 628	943 711	1026 794	1110 878

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	
App by Air (3 gal)	appl	6.40	5.7500	36.80	
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	
Ethephon 6E	pt	3.56	2.3125	8.23	
Tribufos 6lb	pt	12.50	0.5000	6.25	
GINNING					
Gin & Haul	lb	0.11	1500.0000	165.00	
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	
UAN (32%)	gal	4.30	34.3582	147.74	
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	
Select Max	pt	13.86	1.0000	13.86	
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	
Cotoran	pt	6.37	2.0000	12.74	
Enlist Duo	pt	8.60	7.0000	60.20	
Dual Magnum	pt	11.45	2.0000	22.90	
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	
Bidrin 8EC	oz	1.43	5.2000	7.44	
Centric 40WG	oz	5.95	2.0000	11.90	
Diamond .83EC	oz	2.23	6.0000	13.38	
Imidacloprid 4F	oz	1.06	2.0000	2.12	
Bifenthrin	oz	1.13	12.8000	14.46	
Lambda	oz	2.08	1.0000	2.08	
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	
Transform WG	oz	8.82	1.5000	13.23	
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	
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	58.00	0.6660	38.63	
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	16.54	0.3993	6.60	
Self-Propelled	hour	16.54	0.2075	3.42	
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	16.55	0.4855	8.04	
DIESEL FUEL					
Tractors	gal	4.48	6.1665	27.64	
Self-Propelled	gal	4.48	4.8836	21.88	
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	
REPAIR & MAINTENANCE					
Implements	acre	10.13	1.0000	10.13	
Tractors	acre	3.78	1.0000	3.78	
Self-Propelled	acre	25.83	1.0000	25.83	
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	
INTEREST ON OP. CAP.	acre	29.99	1.0000	29.99	
TOTAL DIRECT EXPENSES				1116.46	
FIXED EXPENSES					
Implements	acre	16.44	1.0000	16.44	
Tractors	acre	26.82	1.0000	26.82	
Self-Propelled	acre	115.36	1.0000	115.36	
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	
TOTAL FIXED EXPENSES				246.58	
TOTAL SPECIFIED EXPENSES				1363.04	

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1500.0000	1108.35	_____
Cotton Seed	lb	0.11	2025.0000	222.75	_____

TOTAL INCOME				1331.10	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	55.80	1.0000	55.80	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	165.00	1.0000	165.00	_____
FERTILIZERS	acre	217.64	1.0000	217.64	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	145.49	1.0000	145.49	_____
INSECTICIDES	acre	105.72	1.0000	105.72	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6069	10.02	_____
UNALLOCATED LABOR	hour	16.55	0.4855	8.04	_____
DIESEL FUEL	gal	4.48	22.2512	99.69	_____
REPAIR & MAINTENANCE	acre	61.69	1.0000	61.69	_____
INTEREST ON OP. CAP.	acre	29.99	1.0000	29.99	_____

TOTAL DIRECT EXPENSES				1116.46	_____
RETURNS ABOVE DIRECT EXPENSES				214.64	_____

TOTAL FIXED EXPENSES				246.58	_____

TOTAL SPECIFIED EXPENSES				1363.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-31.94	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
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 2022 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, 2023

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						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	73.87						2.76	76.63	76.63
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed W3FE	thous	104.40						3.34	107.74	107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Enlist Duo	pt	30.10						0.96	31.06	31.06
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	73.87						1.97	75.84	75.84
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	9.60						0.20	9.80	9.80
IncidentalPestTrt\$15	acre	22.50						0.48	22.98	22.98
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	165.00						0.88	165.88	165.88
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53 19.43
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96 163.58
TOTALS			902.37	99.69	61.69	22.72	0.00	29.99	1116.46	246.58 1363.04

Note: Cost of production estimates are based on 2022 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, 2023

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	1331.10
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	24.00	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	73.87	0.00	73.87	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	31.89	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	57.15	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	5.29	3.84	0.20	0.15	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.43	0.00	0.00	0.00	0.00	3.58	7.60	22.38	20.07	15.05	0.00	25.58
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.56	3.34	21.27	1.99	1.49	0.00	28.91
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	3.02	7.27	4.86	2.36	0.90	0.32	1.22
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	83.79	234.26	187.77	112.81	57.83	29.70	229.85
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-83.79	-234.26	-187.77	-112.81	-57.83	-29.70	1101.25
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-264.24	-498.50	-686.27	-799.08	-856.91	-886.61	214.64

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	750.00	lb	-395	-367	-339	-312	-284	-256	-228	-201	-173	-145	-118
			-641	-614	-586	-558	-530	-503	-475	-447	-420	-392	-364
60	900.00	lb	-328	-295	-262	-228	-195	-162	-129	-95	-62	-29	3
			-575	-541	-508	-475	-442	-408	-375	-342	-309	-275	-242
70	1050.00	lb	-262	-223	-184	-145	-106	-68	-29	9	48	87	125
			-508	-469	-431	-392	-353	-314	-275	-237	-198	-159	-120
80	1200.00	lb	-195	-151	-106	-62	-18	26	70	114	159	203	247
			-442	-397	-353	-309	-264	-220	-176	-131	-87	-43	1
90	1350.00	lb	-128	-79	-29	20	70	120	170	220	270	319	369
			-375	-325	-275	-225	-176	-126	-76	-26	23	73	123
100	1500.00	lb	-62	-7	48	103	159	214	270	325	380	436	491
			-309	-253	-198	-142	-87	-31	23	78	134	189	245
110	1650.00	lb	4	65	126	186	247	308	369	430	491	552	613
			-242	-181	-120	-59	1	62	123	184	245	306	367
120	1800.00	lb	70	137	203	270	336	403	469	536	602	669	735
			-175	-109	-42	23	90	156	223	289	356	422	489
130	1950.00	lb	137	209	281	353	425	497	569	641	713	785	857
			-109	-37	34	106	178	250	322	394	466	538	611
140	2100.00	lb	203	281	358	436	514	591	669	746	824	901	979
			-42	34	112	189	267	345	422	500	577	655	732
150	2250.00	lb	270	353	436	519	602	685	769	852	935	1018	1101
			23	106	189	273	356	439	522	605	688	771	854

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 2022 input prices.

Table 14.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	25.4000	109.22	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	48.0000	10.56	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.2712	4.48	_____
Self-Propelled	hour	16.54	0.2075	3.42	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.1899	1.71	_____
UNALLOCATED LABOR	hour	16.55	0.3830	6.34	_____
DIESEL FUEL					
Tractors	gal	4.48	4.1890	18.78	_____
Self-Propelled	gal	4.48	4.8836	21.88	_____
REPAIR & MAINTENANCE					
Implements	acre	6.98	1.0000	6.98	_____
Tractors	acre	2.57	1.0000	2.57	_____
Self-Propelled	acre	25.83	1.0000	25.83	_____
INTEREST ON OP. CAP.	acre	25.17	1.0000	25.17	_____
TOTAL DIRECT EXPENSES				938.21	_____
FIXED EXPENSES					
Implements	acre	10.49	1.0000	10.49	_____
Tractors	acre	18.22	1.0000	18.22	_____
Self-Propelled	acre	115.36	1.0000	115.36	_____
TOTAL FIXED EXPENSES				144.07	_____
TOTAL SPECIFIED EXPENSES				1082.28	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	179.12	1.0000	179.12	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	145.49	1.0000	145.49	_____
INSECTICIDES	acre	98.22	1.0000	98.22	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	10.56	1.0000	10.56	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.4788	7.90	_____
UNALLOCATED LABOR	hour	16.55	0.3830	6.34	_____
DIESEL FUEL	gal	4.48	9.0726	40.66	_____
REPAIR & MAINTENANCE	acre	35.38	1.0000	35.38	_____
INTEREST ON OP. CAP.	acre	25.17	1.0000	25.17	_____

TOTAL DIRECT EXPENSES				938.21	_____
RETURNS ABOVE DIRECT EXPENSES				126.67	_____

TOTAL FIXED EXPENSES				144.07	_____

TOTAL SPECIFIED EXPENSES				1082.28	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-17.40	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					25.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Tribufos 6lb	pt					0.5000				
Ethephon 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1200.0000				
Stalk Shredder-Flail	20'	MFWD 300	0.082	1.00	Oct		0.08	0.08	0.08	0.06
TOTALS							0.47	0.27	0.76	0.38

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Select Max	pt	13.86						0.59	14.45		14.45
Surfactant	pt	0.66						0.03	0.69		0.69
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
NT Plant-Folding	12R-38		3.58	2.47	2.00			0.26	8.31	7.79	16.10
Cotton Seed W3FE	thous	104.40						3.34	107.74		107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	109.22						2.91	112.13		112.13
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83	9.63
Enlist Duo	pt	30.10						0.80	30.90		30.90
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Diamond .83EC	oz	13.38						0.29	13.67		13.67
Imidacloprid 4F	oz	2.12						0.05	2.17		2.17
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Acephate 90%	lb	6.98						0.15	7.13		7.13
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Bifenthrin	oz	7.23						0.15	7.38		7.38
App by Air (3 gal)	appl	1.60						0.03	1.63		1.63
Lambda	oz	2.08						0.04	2.12		2.12
Bidrin 8EC	oz	2.86						0.06	2.92		2.92
Incidental Pest											
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Acephate 90%	lb	6.98						0.11	7.09		7.09
Bifenthrin	oz	7.23						0.12	7.35		7.35
App by Air (3 gal)	appl	6.40						0.10	6.50		6.50
Transform WG	oz	13.23						0.21	13.44		13.44
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
App by Air (5 gal)	appl	3.80						0.04	3.84		3.84
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	132.00						0.70	132.70		132.70
Stalk Shredder-Flail	20'		5.71	3.68	2.45			0.06	11.90	7.53	19.43
TOTALS			820.15	40.66	35.38	16.85	0.00	25.17	938.21	144.07	1082.28

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	109.22	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	31.89	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	7.04	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	38.63	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	4.02	3.69	0.00	0.00	0.00	9.14
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	7.75	7.33	0.00	0.00	0.00	25.58
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	3.67	2.80	0.00	0.00	0.00	28.91
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	1.71	0.00	7.25	4.91	1.67	0.64	0.32	1.04
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	41.86	0.00	233.45	189.50	79.16	40.88	29.70	196.67
NET INCOME	-126.99	0.00	0.00	0.00	-41.86	0.00	-233.45	-189.50	-79.16	-40.88	-29.70	868.21
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-168.85	-168.85	-402.30	-591.80	-670.96	-711.84	-741.54	126.67

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-361 -505	-338 -483	-316 -460	-294 -438	-272 -416	-250 -394	-228 -372	-205 -350	-183 -327	-161 -305	-139 -283
60	720.00	lb	-307 -451	-281 -425	-254 -398	-228 -372	-201 -345	-174 -318	-148 -292	-121 -265	-95 -239	-68 -212	-41 -185
70	840.00	lb	-254 -398	-223 -367	-192 -336	-161 -305	-130 -274	-99 -243	-68 -212	-37 -181	-6 -150	24 -119	55 -88
80	960.00	lb	-201 -345	-165 -310	-130 -274	-95 -239	-59 -203	-24 -168	11 -132	46 -97	82 -61	117 -26	153 9
90	1080.00	lb	-148 -292	-108 -252	-68 -212	-28 -172	11 -132	51 -92	91 -52	131 -12	170 26	210 66	250 106
100	1200.00	lb	-95 -239	-50 -194	-6 -150	38 -106	82 -61	126 -17	171 26	215 71	259 115	304 159	348 204
110	1320.00	lb	-41 -185	6 -137	55 -88	104 -39	153 9	202 57	250 106	299 155	348 204	397 253	445 301
120	1440.00	lb	11 -132	64 -79	117 -26	171 26	224 80	277 133	330 186	383 239	437 292	490 346	543 399
130	1560.00	lb	64 -79	122 -21	179 35	237 93	295 151	352 208	410 266	468 324	525 381	583 439	641 496
140	1680.00	lb	117 -26	179 35	242 97	304 160	366 222	428 284	490 346	552 408	614 470	676 532	738 594
150	1800.00	lb	171 27	237 93	304 160	370 226	437 293	503 359	570 426	636 492	703 559	769 625	836 692

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 2022 input prices.

Table 15.A Estimated costs per acre
 Cotton, 12R-38" 2X1 full-skip (8 rows planted)
 Cons. till., W3FE variety, Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.5000	19.00	_____
App by Air (3 gal)	appl	6.40	5.2500	33.60	_____
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	811.0000	89.21	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	32.5498	139.96	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	0.6700	13.40	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Select Max	pt	13.86	1.0000	13.86	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	5.2000	7.44	_____
Centric 40WG	oz	5.95	1.3400	7.97	_____
Diamond .83EC	oz	2.23	6.0000	13.38	_____
Imidacloprid 4F	oz	1.06	2.0000	2.12	_____
Bifenthrin	oz	1.13	12.8000	14.46	_____
Lambda	oz	2.08	1.0000	2.08	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
Transform WG	oz	8.82	1.5000	13.23	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	30.0000	69.60	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	42.7200	9.40	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradiation	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
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	16.54	0.8159	13.50	_____
Self-Propelled	hour	16.54	0.1958	3.23	_____
HAND LABOR					
Implements	hour	9.06	0.3181	2.87	_____
Self-Propelled	hour	9.06	0.1840	1.66	_____
UNALLOCATED LABOR					
	hour	16.55	0.8094	13.40	_____
DIESEL FUEL					
Tractors	gal	4.48	12.6003	56.46	_____
Self-Propelled	gal	4.48	3.4035	15.25	_____
REPAIR & MAINTENANCE					
Implements	acre	13.75	1.0000	13.75	_____
Tractors	acre	7.75	1.0000	7.75	_____
Self-Propelled	acre	10.01	1.0000	10.01	_____
INTEREST ON OP. CAP.	acre	26.26	1.0000	26.26	_____
TOTAL DIRECT EXPENSES				925.75	_____
FIXED EXPENSES					
Implements	acre	24.03	1.0000	24.03	_____
Tractors	acre	54.80	1.0000	54.80	_____
Self-Propelled	acre	45.20	1.0000	45.20	_____
TOTAL FIXED EXPENSES				124.03	_____
TOTAL SPECIFIED EXPENSES				1049.78	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	811.0000	599.25	_____
Cotton Seed	lb	0.11	1095.0000	120.45	_____

TOTAL INCOME				719.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	52.60	1.0000	52.60	_____
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	89.21	1.0000	89.21	_____
FERTILIZERS	acre	209.86	1.0000	209.86	_____
FUNGICIDES	acre	13.40	1.0000	13.40	_____
HERBICIDES	acre	145.49	1.0000	145.49	_____
INSECTICIDES	acre	94.29	1.0000	94.29	_____
SEED/PLANTS	acre	69.60	1.0000	69.60	_____
GROWTH REGULATORS	acre	9.40	1.0000	9.40	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.0118	16.73	_____
UNALLOCATED LABOR	hour	16.55	0.8094	13.40	_____
DIESEL FUEL	gal	4.48	16.0039	71.71	_____
REPAIR & MAINTENANCE	acre	31.51	1.0000	31.51	_____
INTEREST ON OP. CAP.	acre	26.26	1.0000	26.26	_____

TOTAL DIRECT EXPENSES				925.75	_____
RETURNS ABOVE DIRECT EXPENSES				-206.05	_____
TOTAL FIXED EXPENSES				124.03	_____

TOTAL SPECIFIED EXPENSES				1049.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-330.08	_____

Note: Cost of production estimates are based on 2022 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, Mississippi, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38 2x1	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	8R-38 2x1	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Apr		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
Plant - Folding	8R-38 2x1	MFWD 300	0.049	1.00	May		0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous					30.0000				
Cotton Seed Trt.	acre					0.6700				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38 2x1	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					16.2749				
Spray (Direct/Layby)	8R-38 2x1	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					1.3400				
Mepiquat Chloride	oz					10.7200				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Diamond .83EC	oz					6.0000				
Imidacloprid 4F	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
App by Air (3 gal)	appl			1.00	Jul	1.0000				
Acephate 90%	lb					0.7500				
Mepiquat Chloride	oz					16.0000				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			0.25	Jul	0.2500				
Lambda	oz					1.0000				
Bidrin 8EC	oz					2.0000				
Incidental Pest				1.00	Jul					
App by Air (3 gal)	appl					1.0000				
IncidentalPestTrt\$15	acre					1.0000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Acephate 90%	lb					0.7500				
Bifenthrin	oz					6.4000				
App by Air (3 gal)	appl			1.00	Aug	1.0000				
Transform WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Thidiazuron 4lb	oz					2.3000				
Ethephon 6E	pt					2.0000				
App by Air (5 gal)	appl			0.50	Sep	0.5000				
Ethephon 6E	pt					0.3125				
Tribufos 6lb	pt					0.5000				
Cotton Picker	4R2x1 (350)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	4R2x1 (350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.17	0.13
Module Builder	4R2x1 (350)	MFWD 300	0.172	1.00	Oct		0.17	0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	811.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							1.01	0.81	1.51	0.80

Note: Cost of production estimates are based on 2022 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, Mississippi, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	8R-38 2x1		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	8R-38 2x1		1.71	0.70	0.74			0.20	3.35	3.08 6.43
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Select Max	pt	13.86						0.59	14.45	14.45
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	8R-38 2x1		3.58	1.62	1.76			0.26	7.22	4.92 12.14
UAN (32%)	gal	69.98						2.61	72.59	72.59
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	8R-38 2x1		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed W3FE	thous	69.60						2.23	71.83	71.83
Cotton Seed Trt.	acre	13.40						0.43	13.83	13.83
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Enlist Duo	pt	30.10						0.96	31.06	31.06
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Spray (Direct/Layby)	8R-38 2x1		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	8R-38 2x1		3.58	1.62	1.76			0.19	7.15	4.92 12.07
UAN (32%)	gal	69.98						1.87	71.85	71.85
Spray (Direct/Layby)	8R-38 2x1		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	7.97						0.21	8.18	8.18
Mepiquat Chloride	oz	2.36						0.06	2.42	2.42
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Diamond .83EC	oz	13.38						0.29	13.67	13.67
Imidacloprid 4F	oz	2.12						0.05	2.17	2.17
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
Acephate 90%	lb	6.98						0.15	7.13	7.13
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Bifenthrin	oz	7.23						0.15	7.38	7.38
App by Air (3 gal)	appl	1.60						0.03	1.63	1.63
Lambda	oz	2.08						0.04	2.12	2.12
Bidrin 8EC	oz	2.86						0.06	2.92	2.92
Incidental Pest										
App by Air (3 gal)	appl	6.40						0.14	6.54	6.54
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Acephate 90%	lb	6.98						0.11	7.09	7.09
Bifenthrin	oz	7.23						0.12	7.35	7.35
App by Air (3 gal)	appl	6.40						0.10	6.50	6.50
Transform WG	oz	13.23						0.21	13.44	13.44
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
App by Air (5 gal)	appl	3.80						0.04	3.84	3.84
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Cotton Picker	4R2x1 (350)		13.91	9.61	6.69			0.16	30.37	42.28 72.65
Boll Buggy	4R2x1 (350)		11.92	2.95	5.13			0.11	20.11	14.63 34.74
Module Builder	4R2x1 (350)		11.92	3.13	6.69			0.12	21.86	15.05 36.91
Gin & Haul	lb	89.21						0.48	89.69	89.69
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
TOTALS			761.61	71.71	31.51	34.66	0.00	26.26	925.75	124.03 1049.78

Note: Cost of production estimates are based on 2022 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, 2023

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	719.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	20.80	12.80	11.40	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	69.98	0.00	69.98	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	31.89	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	12.55	49.65	27.44	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	69.60	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	7.04	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	38.63	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	2.34	0.00	0.00	0.00	0.00	1.76	3.95	4.82	0.00	0.00	0.00	21.79
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	5.43	0.00	0.00	0.00	0.00	3.58	7.60	9.74	0.00	0.00	0.00	45.36
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.00	1.62	3.34	3.70	0.00	0.00	0.00	19.72
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	1.71	2.87	5.91	3.86	1.67	0.64	0.32	0.95
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	41.86	79.81	190.16	148.56	79.16	40.88	29.70	177.03
NET INCOME	-138.59	0.00	0.00	0.00	-41.86	-79.81	-190.16	-148.56	-79.16	-40.88	-29.70	542.67
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-180.45	-260.26	-450.42	-598.98	-678.14	-719.02	-748.72	-206.05

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	405.50	lb	-535 -659	-520 -644	-505 -629	-490 -614	-475 -599	-460 -584	-445 -569	-430 -554	-415 -539	-400 -524	-385 -509
60	486.60	lb	-499 -623	-481 -605	-463 -587	-445 -569	-427 -551	-409 -533	-391 -515	-373 -497	-355 -479	-337 -461	-319 -444
70	567.70	lb	-463 -587	-442 -566	-421 -545	-400 -524	-379 -503	-358 -482	-337 -461	-316 -441	-295 -420	-275 -399	-254 -378
80	648.80	lb	-427 -551	-403 -527	-379 -503	-355 -479	-331 -455	-307 -431	-283 -408	-260 -384	-236 -360	-212 -336	-188 -312
90	729.90	lb	-391 -515	-364 -488	-337 -461	-310 -434	-283 -408	-257 -381	-230 -354	-203 -327	-176 -300	-149 -273	-122 -246
100	811.00	lb	-355 -479	-325 -449	-295 -419	-265 -390	-236 -360	-206 -330	-176 -300	-146 -270	-116 -240	-86 -210	-56 -180
110	892.10	lb	-319 -443	-286 -410	-253 -378	-221 -345	-188 -312	-155 -279	-122 -246	-89 -213	-56 -180	-23 -147	9 -114
120	973.20	lb	-283 -407	-247 -371	-212 -336	-176 -300	-140 -264	-104 -228	-68 -192	-32 -156	3 -120	39 -84	75 -48
130	1054.30	lb	-247 -371	-208 -333	-170 -294	-131 -255	-92 -216	-53 -177	-14 -138	24 -99	63 -60	102 -21	141 17
140	1135.40	lb	-211 -335	-170 -294	-128 -252	-86 -210	-44 -168	-2 -126	39 -84	81 -42	123 -0	165 41	207 83
150	1216.50	lb	-175 -300	-131 -255	-86 -210	-41 -165	3 -120	48 -75	93 -30	138 14	183 59	228 104	273 149

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 2022 input prices.

Table 16.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.9288	15.36	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
	hour	16.60	0.9608	15.95	_____
DIESEL FUEL					
Tractors	gal	4.48	14.3433	64.26	_____
Self-Propelled	gal	4.48	4.4209	19.81	_____
REPAIR & MAINTENANCE					
Implements	acre	13.93	1.0000	13.93	_____
Tractors	acre	8.85	1.0000	8.85	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	25.40	1.0000	25.40	_____
TOTAL DIRECT EXPENSES				882.72	_____
FIXED EXPENSES					
Implements	acre	23.87	1.0000	23.87	_____
Tractors	acre	62.40	1.0000	62.40	_____
Self-Propelled	acre	67.48	1.0000	67.48	_____
TOTAL FIXED EXPENSES				153.75	_____
TOTAL SPECIFIED EXPENSES				1036.47	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1000.0000	738.90	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				887.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	131.63	1.0000	131.63	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.2010	19.83	_____
UNALLOCATED LABOR	hour	16.60	0.9608	15.95	_____
DIESEL FUEL	gal	4.48	18.7642	84.07	_____
REPAIR & MAINTENANCE	acre	37.00	1.0000	37.00	_____
INTEREST ON OP. CAP.	acre	25.40	1.0000	25.40	_____

TOTAL DIRECT EXPENSES				882.72	_____
RETURNS ABOVE DIRECT EXPENSES				4.68	_____

TOTAL FIXED EXPENSES				153.75	_____

TOTAL SPECIFIED EXPENSES				1036.47	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-149.07	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	8R-38	MFWD 300	0.080	1.00	Nov		0.08	0.08	0.08	0.06
Bed/Disk (Hipper)Rd	8R-38	MFWD 300	0.074	0.50	Nov		0.03	0.03	0.03	0.02
Sprayer 600-825gal	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)	8R-38	MFWD 300	0.077	1.00	Apr		0.07	0.07	0.11	0.06
UAN (32%)	gal					14.4666				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May		0.05	0.05	0.05	0.04
Plant - Folding	8R-38	MFWD 300	0.074	1.00	May		0.07	0.07	0.14	0.05
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	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					
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	0.06
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	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				
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'	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	8R-38		5.59	2.80	2.41			0.69	11.49	9.49
Bed/Disk (Hipper)Rd	8R-38		2.56	0.64	1.10			0.28	4.58	3.35
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.38	10.68	7.17
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Rigid	26'		4.13	0.92	1.78			0.22	7.05	5.70
Plant - Folding	8R-38		5.16	2.52	2.90			0.34	10.92	8.96
Cotton Seed W3FE	thous	104.40						3.34	107.74	107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46
Enlist Duo	pt	30.10						0.96	31.06	31.06
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.27	10.57	7.17
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	8R-38		4.63	1.25	2.30			0.22	8.40	5.32
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker	6R-38(355)		14.11	12.52	6.69			0.18	33.50	55.07
Boll Buggy	6R-38(355)		11.92	2.95	5.13			0.11	20.11	14.63
Module Builder	6R-38(355)		11.92	3.13	6.69			0.12	21.86	15.05
Gin & Haul	lb	110.00						0.59	110.59	110.59
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43
TOTALS		695.24	84.07	37.00	41.01	0.00	25.40	882.72	153.75	1036.47

Note: Cost of production estimates are based on 2022 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, 2023

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	887.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	62.21	0.00	62.21	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	18.03	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	3.51	0.00	0.00	0.00	0.40	2.66	5.48	5.36	0.80	0.40	0.61	21.79
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	8.15	0.00	0.00	0.00	0.67	5.37	10.63	10.67	1.34	0.67	1.01	45.56
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.20	2.27	3.84	3.72	0.40	0.20	0.30	22.63
INTEREST ON OP. CAP.	8.60	0.00	0.00	0.00	0.85	2.70	7.39	3.82	0.61	0.13	0.22	1.08
TOTAL DIRECT EXPENSES	143.06	0.00	0.00	0.00	20.81	75.21	238.10	147.33	28.65	8.38	20.12	201.06
NET INCOME	-143.06	0.00	0.00	0.00	-20.81	-75.21	-238.10	-147.33	-28.65	-8.38	-20.12	686.34
NET INCOME TO DATE	-143.06	-143.06	-143.06	-143.06	-163.87	-239.08	-477.18	-624.51	-653.16	-661.54	-681.66	4.68

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE										
-----			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	-----dollars-----										
50	500.00	lb	-401	-383	-364	-346	-327	-309	-291	-272	-254	-235	-217
			-555	-537	-518	-500	-481	-463	-444	-426	-407	-389	-370
60	600.00	lb	-357	-335	-313	-290	-268	-246	-224	-202	-180	-157	-135
			-511	-489	-466	-444	-422	-400	-378	-356	-333	-311	-289
70	700.00	lb	-313	-287	-261	-235	-209	-183	-157	-132	-106	-80	-54
			-466	-441	-415	-389	-363	-337	-311	-285	-259	-234	-208
80	800.00	lb	-268	-239	-209	-180	-150	-120	-91	-61	-32	-2	26
			-422	-392	-363	-333	-304	-274	-245	-215	-186	-156	-126
90	900.00	lb	-224	-191	-157	-124	-91	-58	-24	8	41	74	108
			-378	-344	-311	-278	-245	-211	-178	-145	-112	-78	-45
100	1000.00	lb	-180	-143	-106	-69	-32	4	41	78	115	152	189
			-333	-296	-259	-222	-186	-149	-112	-75	-38	-1	35
110	1100.00	lb	-135	-95	-54	-13	26	67	108	148	189	230	270
			-289	-248	-208	-167	-126	-86	-45	-4	35	76	116
120	1200.00	lb	-91	-46	-2	41	86	130	174	219	263	307	352
			-245	-200	-156	-112	-67	-23	20	65	109	153	198
130	1300.00	lb	-46	1	49	97	145	193	241	289	337	385	433
			-200	-152	-104	-56	-8	39	87	135	183	231	279
140	1400.00	lb	-2	49	100	152	204	256	307	359	411	462	514
			-156	-104	-52	-1	50	102	153	205	257	309	360
150	1500.00	lb	41	97	152	208	263	318	374	429	485	540	595
			-112	-56	-1	54	109	165	220	275	331	386	442

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 2022 input prices.

Table 17.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	18.4000	79.12	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.7365	12.18	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
	hour	16.60	0.8069	13.40	_____
DIESEL FUEL					
Tractors	gal	4.48	11.3731	50.95	_____
Self-Propelled	gal	4.48	4.4209	19.81	_____
REPAIR & MAINTENANCE					
Implements	acre	10.39	1.0000	10.39	_____
Tractors	acre	7.02	1.0000	7.02	_____
Self-Propelled	acre	14.22	1.0000	14.22	_____
INTEREST ON OP. CAP.	acre	22.14	1.0000	22.14	_____
TOTAL DIRECT EXPENSES				798.42	_____
FIXED EXPENSES					
Implements	acre	17.68	1.0000	17.68	_____
Tractors	acre	49.47	1.0000	49.47	_____
Self-Propelled	acre	67.48	1.0000	67.48	_____
TOTAL FIXED EXPENSES				134.63	_____
TOTAL SPECIFIED EXPENSES				933.05	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	900.0000	665.01	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				798.66	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	149.02	1.0000	149.02	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	131.63	1.0000	131.63	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	1.0087	16.65	_____
UNALLOCATED LABOR	hour	16.60	0.8069	13.40	_____
DIESEL FUEL	gal	4.48	15.7941	70.76	_____
REPAIR & MAINTENANCE	acre	31.63	1.0000	31.63	_____
INTEREST ON OP. CAP.	acre	22.14	1.0000	22.14	_____

TOTAL DIRECT EXPENSES				798.42	_____
RETURNS ABOVE DIRECT EXPENSES				0.24	_____

TOTAL FIXED EXPENSES				134.63	_____

TOTAL SPECIFIED EXPENSES				933.05	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-134.39	_____

Note: Cost of production estimates are based on 2022 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, 2023

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	0.06
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun		0.06	0.06	0.10	0.05
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	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				
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	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46	2.78
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Surfactant	pt	0.66						0.03	0.69		0.69
Row Cond Rigid	26'		4.13	0.92	1.78			0.22	7.05	5.70	12.75
NT Plant-Folding	8R-38		5.37	2.86	3.01			0.36	11.60	9.85	21.45
Cotton Seed W3FE	thous	104.40						3.34	107.74		107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	8R-38		5.37	2.27	2.66			0.27	10.57	7.17	17.74
UAN (32%)	gal	79.12						2.11	81.23		81.23
Spray (Direct/Layby)	8R-38		4.63	1.25	2.30			0.22	8.40	5.32	13.72
Enlist Duo	pt	30.10						0.80	30.90		30.90
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	6.98						0.15	7.13		7.13
Incidental Pest											
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Acephate 90%	lb	6.98						0.11	7.09		7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73	1.39
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker	6R-38(355)		14.11	12.52	6.69			0.18	33.50	55.07	88.57
Boll Buggy	6R-38(355)		11.92	2.95	5.13			0.11	20.11	14.63	34.74
Module Builder	6R-38(355)		11.92	3.13	6.69			0.12	21.86	15.05	36.91
Gin & Haul	lb	99.00						0.53	99.53		99.53
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43	24.43
TOTALS			638.94	70.76	31.63	34.95	0.00	22.14	798.42	134.63	933.05

Note: Cost of production estimates are based on 2022 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, 2023

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	798.66
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	79.12	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	18.03	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	0.40	0.00	5.59	5.36	0.80	0.40	0.61	21.79
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	0.67	0.00	10.84	10.67	1.34	0.67	1.01	45.56
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	4.18	3.72	0.40	0.20	0.30	22.63
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	0.85	0.00	7.41	4.27	0.61	0.13	0.22	1.02
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	20.81	0.00	238.78	164.69	28.65	8.38	20.12	190.00
NET INCOME	-126.99	0.00	0.00	0.00	-20.81	0.00	-238.78	-164.69	-28.65	-8.38	-20.12	608.66
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-147.80	-147.80	-386.58	-551.27	-579.92	-588.30	-608.42	0.24

Note: Cost of production estimates are based on 2022 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, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
	PRODUCT PRICE												
Cotton Lint	0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92		
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-365	-349	-332	-315	-299	-282	-265	-249	-232	-215	-199
			-500	-483	-467	-450	-433	-417	-400	-383	-367	-350	-334
60	540.00	lb	-325	-305	-285	-265	-245	-225	-206	-186	-166	-146	-126
			-460	-440	-420	-400	-380	-360	-340	-320	-300	-280	-260
70	630.00	lb	-285	-262	-239	-215	-192	-169	-146	-122	-99	-76	-53
			-420	-397	-373	-350	-327	-304	-280	-257	-234	-210	-187
80	720.00	lb	-245	-219	-192	-166	-139	-112	-86	-59	-33	-6	20
			-380	-353	-327	-300	-274	-247	-220	-194	-167	-141	-114
90	810.00	lb	-205	-176	-146	-116	-86	-56	-26	3	33	63	93
			-340	-310	-280	-250	-220	-190	-161	-131	-101	-71	-41
100	900.00	lb	-166	-132	-99	-66	-33	0	33	66	99	133	166
			-300	-267	-234	-200	-167	-134	-101	-67	-34	-1	31
110	990.00	lb	-126	-89	-52	-16	20	56	93	129	166	203	239
			-260	-224	-187	-150	-114	-77	-41	-4	31	68	105
120	1080.00	lb	-86	-46	-6	33	73	113	153	193	233	272	312
			-220	-180	-140	-101	-61	-21	18	58	98	138	178
130	1170.00	lb	-46	-3	40	83	126	169	213	256	299	342	386
			-180	-137	-94	-51	-7	35	78	121	164	208	251
140	1260.00	lb	-6	40	86	133	179	226	272	319	366	412	459
			-140	-94	-47	-1	45	91	138	184	231	278	324
150	1350.00	lb	33	83	133	183	233	282	332	382	432	482	532
			-101	-51	-1	48	98	148	198	248	297	347	397

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 2022 input prices.

Table 18.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.4268	7.06	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	hour	16.61	0.5592	9.29	_____
DIESEL FUEL					
Tractors	gal	4.48	6.5911	29.54	_____
Self-Propelled	gal	4.48	5.7068	25.57	_____
REPAIR & MAINTENANCE					
Implements	acre	10.21	1.0000	10.21	_____
Tractors	acre	4.05	1.0000	4.05	_____
Self-Propelled	acre	26.93	1.0000	26.93	_____
INTEREST ON OP. CAP.	acre	24.56	1.0000	24.56	_____
TOTAL DIRECT EXPENSES				840.02	_____
FIXED EXPENSES					
Implements	acre	16.49	1.0000	16.49	_____
Tractors	acre	28.67	1.0000	28.67	_____
Self-Propelled	acre	123.39	1.0000	123.39	_____
TOTAL FIXED EXPENSES				168.55	_____
TOTAL SPECIFIED EXPENSES				1008.57	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1000.0000	738.90	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____

TOTAL INCOME				887.40	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	131.63	1.0000	131.63	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.6990	11.53	_____
UNALLOCATED LABOR	hour	16.61	0.5592	9.29	_____
DIESEL FUEL	gal	4.48	12.2980	55.11	_____
REPAIR & MAINTENANCE	acre	41.19	1.0000	41.19	_____
INTEREST ON OP. CAP.	acre	24.56	1.0000	24.56	_____

TOTAL DIRECT EXPENSES				840.02	_____
RETURNS ABOVE DIRECT EXPENSES				47.38	_____

TOTAL FIXED EXPENSES				168.55	_____

TOTAL SPECIFIED EXPENSES				1008.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-121.17	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-825gal	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			1.00	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					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				1.00	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/Module	6R-38(500)		0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb			1.00	Oct	1000.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct		0.11	0.11	0.11	0.08
TOTALS							0.69	0.42	1.04	0.55

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46 2.78
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed W3FE	thous	104.40						3.34	107.74	107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Enlist Duo	pt	30.10						0.96	31.06	31.06
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32	15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46 2.75
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46 2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73 1.39
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	110.00						0.59	110.59	110.59
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
TOTALS		695.24	55.11	41.19	23.92	0.00	24.56	840.02	168.55	1008.57

Note: Cost of production estimates are based on 2022 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, 2023

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	887.40
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	62.21	0.00	62.21	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	18.03	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	2.34	0.00	0.00	0.00	0.40	1.76	3.95	3.69	0.80	0.40	0.61	9.97
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	5.43	0.00	0.00	0.00	0.67	3.58	7.60	7.33	1.34	0.67	1.01	27.48
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.20	1.56	3.34	2.80	0.40	0.20	0.30	29.26
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	0.85	2.58	7.23	3.66	0.61	0.13	0.22	0.95
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	20.81	71.69	232.88	141.24	28.65	8.38	20.12	177.66
NET INCOME	-138.59	0.00	0.00	0.00	-20.81	-71.69	-232.88	-141.24	-28.65	-8.38	-20.12	709.74
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-159.40	-231.09	-463.97	-605.21	-633.86	-642.24	-662.36	47.38

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT YIELD UNIT			dollars										
50	500.00	lb	-359 -527	-340 -509	-322 -490	-303 -472	-285 -453	-266 -435	-248 -416	-229 -398	-211 -379	-192 -361	-174 -342
60	600.00	lb	-314 -483	-292 -461	-270 -438	-248 -416	-226 -394	-203 -372	-181 -350	-159 -328	-137 -305	-115 -283	-93 -261
70	700.00	lb	-270 -438	-244 -413	-218 -387	-192 -361	-166 -335	-141 -309	-115 -283	-89 -257	-63 -232	-37 -206	-11 -180
80	800.00	lb	-226 -394	-196 -365	-166 -335	-137 -305	-107 -276	-78 -246	-48 -217	-19 -187	10 -158	39 -128	69 -99
90	900.00	lb	-181 -350	-148 -317	-115 -283	-81 -250	-48 -217	-15 -184	17 -150	51 -117	84 -84	117 -50	150 -17
100	1000.00	lb	-137 -305	-100 -268	-63 -232	-26 -195	10 -158	47 -121	84 -84	121 -47	158 -10	195 26	232 63
110	1100.00	lb	-92 -261	-52 -220	-11 -180	28 -139	69 -98	110 -58	150 -17	191 22	232 63	272 104	313 144
120	1200.00	lb	-48 -217	-4 -172	40 -128	84 -84	128 -39	173 4	217 48	261 93	306 137	350 181	394 226
130	1300.00	lb	-4 -172	43 -124	91 -76	139 -28	187 19	235 67	283 115	331 163	379 211	427 259	476 307
140	1400.00	lb	40 -128	91 -76	143 -25	195 26	246 78	298 130	350 181	402 233	453 285	505 337	557 388
150	1500.00	lb	84 -84	139 -28	195 26	250 82	306 137	361 192	416 248	472 303	527 359	583 414	638 470

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 2022 input prices.

Table 19.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	18.4000	79.12	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.2987	4.94	_____
Self-Propelled	hour	16.54	0.2721	4.47	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	hour	16.61	0.4567	7.59	_____
DIESEL FUEL					
Tractors	gal	4.48	4.6137	20.68	_____
Self-Propelled	gal	4.48	5.7068	25.57	_____
REPAIR & MAINTENANCE					
Implements	acre	7.06	1.0000	7.06	_____
Tractors	acre	2.84	1.0000	2.84	_____
Self-Propelled	acre	26.93	1.0000	26.93	_____
INTEREST ON OP. CAP.	acre	21.69	1.0000	21.69	_____
TOTAL DIRECT EXPENSES				763.60	_____
FIXED EXPENSES					
Implements	acre	10.54	1.0000	10.54	_____
Tractors	acre	20.07	1.0000	20.07	_____
Self-Propelled	acre	123.39	1.0000	123.39	_____
TOTAL FIXED EXPENSES				154.00	_____
TOTAL SPECIFIED EXPENSES				917.60	_____

Note: Cost of production estimates are based on 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	900.0000	665.01	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____

TOTAL INCOME				798.66	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	149.02	1.0000	149.02	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	131.63	1.0000	131.63	_____
INSECTICIDES	acre	50.09	1.0000	50.09	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.5709	9.41	_____
UNALLOCATED LABOR	hour	16.61	0.4567	7.59	_____
DIESEL FUEL	gal	4.48	10.3205	46.25	_____
REPAIR & MAINTENANCE	acre	36.83	1.0000	36.83	_____
INTEREST ON OP. CAP.	acre	21.69	1.0000	21.69	_____

TOTAL DIRECT EXPENSES				763.60	_____
RETURNS ABOVE DIRECT EXPENSES				35.06	_____
TOTAL FIXED EXPENSES				154.00	_____

TOTAL SPECIFIED EXPENSES				917.60	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-118.94	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	ALLOC UNIT	UNALL LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-825gal	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				
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	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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.21	3.54		3.54
Lime (Spread)	ton	38.63						2.47	41.10		41.10
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Potash (60% K2O)	cwt	69.90						4.47	74.37		74.37
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46	2.78
Clarity	pt	7.15						0.31	7.46		7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Surfactant	pt	0.66						0.03	0.69		0.69
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72	9.73
NT Plant-Folding	12R-38		3.58	2.47	2.00			0.26	8.31	7.79	16.10
Cotton Seed W3FE	thous	104.40						3.34	107.74		107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64		20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Cotoran	pt	12.74						0.41	13.15		13.15
Surfactant	pt	0.66						0.02	0.68		0.68
Cotton Consultant	acre	8.00						0.26	8.26		8.26
Eradication	acre	1.00						0.03	1.03		1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Acephate 90%	lb	4.65						0.15	4.80		4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bidrin 8EC	oz	4.58						0.12	4.70		4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84	11.92
UAN (32%)	gal	79.12						2.11	81.23		81.23
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83	9.63
Enlist Duo	pt	30.10						0.80	30.90		30.90
Dual Magnum	pt	11.45						0.31	11.76		11.76
Centric 40WG	oz	11.90						0.32	12.22		12.22
Mepiquat Chloride	oz	3.52						0.09	3.61		3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Mepiquat Chloride	oz	3.52						0.08	3.60		3.60
Acephate 90%	lb	6.98						0.15	7.13		7.13
Incidental Pest											
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
IncidentalPestTrt\$15	acre	15.00						0.32	15.32		15.32
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Acephate 90%	lb	6.98						0.11	7.09		7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54		3.54
Ethephon 6E	pt	7.12						0.08	7.20		7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73	1.39
Tribufos 6lb	pt	6.25						0.07	6.32		6.32
Ethephon 6E	pt	1.11						0.01	1.12		1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98	163.05
Gin & Haul	lb	99.00						0.53	99.53		99.53
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43	24.43
TOTALS		638.94	46.25	36.83	19.89	0.00	21.69	763.60	154.00	917.60	

Note: Cost of production estimates are based on 2022 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, 2023

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	798.66
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	0.00	79.12	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	18.03	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	21.98	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	0.40	0.00	4.02	3.69	0.80	0.40	0.61	9.97
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	0.67	0.00	7.75	7.33	1.34	0.67	1.01	27.48
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.20	0.00	3.67	2.80	0.40	0.20	0.30	29.26
INTEREST ON OP. CAP.	7.63	0.00	0.00	0.00	0.85	0.00	7.25	4.11	0.61	0.13	0.22	0.89
TOTAL DIRECT EXPENSES	126.99	0.00	0.00	0.00	20.81	0.00	233.45	158.60	28.65	8.38	20.12	166.60
NET INCOME	-126.99	0.00	0.00	0.00	-20.81	0.00	-233.45	-158.60	-28.65	-8.38	-20.12	632.06
NET INCOME TO DATE	-126.99	-126.99	-126.99	-126.99	-147.80	-147.80	-381.25	-539.85	-568.50	-576.88	-597.00	35.06

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT YIELD UNIT			dollars										
50	450.00	lb	-330 -484	-314 -468	-297 -451	-280 -434	-264 -418	-247 -401	-231 -385	-214 -368	-197 -351	-181 -335	-164 -318
60	540.00	lb	-290 -444	-270 -424	-250 -404	-231 -385	-211 -365	-191 -345	-171 -325	-151 -305	-131 -285	-111 -265	-91 -245
70	630.00	lb	-250 -404	-227 -381	-204 -358	-181 -335	-157 -311	-134 -288	-111 -265	-88 -242	-64 -218	-41 -195	-18 -172
80	720.00	lb	-211 -365	-184 -338	-157 -311	-131 -285	-104 -258	-78 -232	-51 -205	-24 -178	1 -152	28 -125	54 -99
90	810.00	lb	-171 -325	-141 -295	-111 -265	-81 -235	-51 -205	-21 -175	8 -145	38 -115	68 -85	98 -55	128 -25
100	900.00	lb	-131 -285	-97 -251	-64 -218	-31 -185	1 -152	35 -118	68 -85	101 -52	134 -19	168 14	201 47
110	990.00	lb	-91 -245	-54 -208	-18 -172	18 -135	55 -98	91 -62	128 -25	164 10	201 47	237 83	274 120
120	1080.00	lb	-51 -205	-11 -165	28 -125	68 -85	108 -45	148 -5	188 34	227 73	267 113	307 153	347 193
130	1170.00	lb	-11 -165	31 -122	75 -78	118 -35	161 7	204 50	247 93	291 137	334 180	377 223	420 266
140	1260.00	lb	28 -125	75 -78	121 -32	168 14	214 60	261 107	307 153	354 200	400 246	447 293	494 340
150	1350.00	lb	68 -85	118 -35	168 14	218 64	267 113	317 163	367 213	417 263	467 313	517 363	567 413

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 2022 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, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.52	2.3000	3.50	_____
Ethephon 6E	pt	3.56	2.3125	8.23	_____
Tribufos 6lb	pt	12.50	0.5000	6.25	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	46.60	1.5000	69.90	_____
UAN (32%)	gal	4.30	28.9332	124.41	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.30	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Cotoran	pt	6.37	2.0000	12.74	_____
Enlist Duo	pt	8.60	7.0000	60.20	_____
Dual Magnum	pt	11.45	2.0000	22.90	_____
INSECTICIDES					
Acephate 90%	lb	9.30	2.0000	18.60	_____
Bidrin 8EC	oz	1.43	3.2000	4.58	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
IncidentalPestTrt\$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.32	45.0000	104.40	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.22	32.0000	7.04	_____
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	58.00	0.6660	38.63	_____
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	16.54	0.4268	7.06	_____
Self-Propelled	hour	16.54	0.2780	4.57	_____
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	16.59	0.5639	9.36	_____
DIESEL FUEL					
Tractors	gal	4.48	6.5911	29.54	_____
Self-Propelled	gal	4.48	5.7817	25.91	_____
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.21	1.0000	10.21	_____
Tractors	acre	4.05	1.0000	4.05	_____
Self-Propelled	acre	27.03	1.0000	27.03	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	26.50	1.0000	26.50	_____
TOTAL DIRECT EXPENSES				946.06	_____
FIXED EXPENSES					
Implements	acre	16.49	1.0000	16.49	_____
Tractors	acre	28.67	1.0000	28.67	_____
Self-Propelled	acre	124.12	1.0000	124.12	_____
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	_____
TOTAL FIXED EXPENSES				257.24	_____
TOTAL SPECIFIED EXPENSES				1203.30	_____

Note: Cost of production estimates are based on 2022 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,

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Cotton Lint	lb	0.73	1200.0000	886.68	_____
Cotton Seed	lb	0.11	1620.0000	178.20	_____

TOTAL INCOME				1064.88	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	17.98	1.0000	17.98	_____
GINNING	acre	132.00	1.0000	132.00	_____
FERTILIZERS	acre	194.32	1.0000	194.32	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	131.63	1.0000	131.63	_____
INSECTICIDES	acre	57.59	1.0000	57.59	_____
SEED/PLANTS	acre	104.40	1.0000	104.40	_____
GROWTH REGULATORS	acre	7.04	1.0000	7.04	_____
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	38.63	1.0000	38.63	_____
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	16.54	0.7049	11.63	_____
UNALLOCATED LABOR	hour	16.59	0.5639	9.36	_____
DIESEL FUEL	gal	4.48	23.5740	105.62	_____
REPAIR & MAINTENANCE	acre	63.24	1.0000	63.24	_____
INTEREST ON OP. CAP.	acre	26.50	1.0000	26.50	_____

TOTAL DIRECT EXPENSES				946.06	_____
RETURNS ABOVE DIRECT EXPENSES				118.82	_____

TOTAL FIXED EXPENSES				257.24	_____

TOTAL SPECIFIED EXPENSES				1203.30	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-138.42	_____

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
Sprayer 600-825gal	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			1.00	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					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				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 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
-----dollars-----										
Soil Test	acre	3.33						0.21	3.54	3.54
Lime (Spread)	ton	38.63						2.47	41.10	41.10
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Potash (60% K20)	cwt	69.90						4.47	74.37	74.37
Bed-Subsoil Fold	12R-38		3.72	2.43	1.60			0.50	8.25	7.44 15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	3.08 6.43
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	1.46 2.78
Clarity	pt	7.15						0.31	7.46	7.46
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Surfactant	pt	0.66						0.03	0.69	0.69
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.26	7.16	4.84 12.00
UAN (32%)	gal	62.21						2.32	64.53	64.53
Row Cond Folding	38'		2.83	0.80	1.22			0.16	5.01	4.72 9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	6.98 14.72
Cotton Seed W3FE	thous	104.40						3.34	107.74	107.74
Cotton Seed Trt.	acre	20.00						0.64	20.64	20.64
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Cotoran	pt	12.74						0.41	13.15	13.15
Surfactant	pt	0.66						0.02	0.68	0.68
Cotton Consultant	acre	8.00						0.26	8.26	8.26
Eradication	acre	1.00						0.03	1.03	1.03
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46 2.77
Enlist Duo	pt	30.10						0.96	31.06	31.06
Dual Magnum	pt	11.45						0.37	11.82	11.82
Acephate 90%	lb	4.65						0.15	4.80	4.80
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Bidrin 8EC	oz	4.58						0.12	4.70	4.70
Fert Appl (Liquid)	12R-38		3.58	1.56	1.76			0.18	7.08	4.84 11.92
UAN (32%)	gal	62.21						1.66	63.87	63.87
Spray (Direct/Layby)	12R-38		3.08	1.04	1.53			0.15	5.80	3.83 9.63
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Centric 40WG	oz	11.90						0.32	12.22	12.22
Mepiquat Chloride	oz	3.52						0.09	3.61	3.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46 2.76
Mepiquat Chloride	oz	3.52						0.08	3.60	3.60
Acephate 90%	lb	6.98						0.15	7.13	7.13
Incidental Pest										
Sprayer 600-825gal	90' 250hp		1.01	0.30	0.60			0.04	1.95	2.19 4.14
IncidentalPestTrt\$15	acre	22.50						0.48	22.98	22.98
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46 2.75
Acephate 90%	lb	6.98						0.11	7.09	7.09
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46 2.74
Thidiazuron 4lb	oz	3.50						0.04	3.54	3.54
Ethephon 6E	pt	7.12						0.08	7.20	7.20
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.21			0.01	0.66	0.73 1.39
Tribufos 6lb	pt	6.25						0.07	6.32	6.32
Ethephon 6E	pt	1.11						0.01	1.12	1.12
Cotton Picker/Module	6R-38(500)		19.87	25.23	6.69			0.28	52.07	110.98 163.05
Gin & Haul	lb	132.00						0.70	132.70	132.70
Stalk Shredder-Flail	15'		7.61	4.03	3.28			0.08	15.00	9.43 24.43
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96 163.58
TOTALS		724.74	105.62	63.24	25.96	0.00	26.50	946.06	257.24	1203.30

Note: Cost of production estimates are based on 2022 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, 2023

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	1064.88
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.98	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	69.90	0.00	0.00	0.00	0.00	0.00	62.21	0.00	62.21	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	18.03	0.00	72.05	41.55	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.65	16.48	29.48	6.98	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	104.40	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52	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	38.63	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	2.34	0.00	0.00	0.00	0.40	1.76	5.29	3.84	1.20	0.55	0.61	9.97
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	5.43	0.00	0.00	0.00	0.67	3.58	7.60	22.38	21.75	15.72	1.01	27.48
REPAIR & MAINTENANCE	3.13	0.00	0.00	0.00	0.20	1.56	3.34	21.27	2.49	1.69	0.30	29.26
INTEREST ON OP. CAP.	8.33	0.00	0.00	0.00	0.85	2.58	7.27	4.55	1.25	0.39	0.22	1.06
TOTAL DIRECT EXPENSES	138.59	0.00	0.00	0.00	20.81	71.69	234.26	175.80	59.69	25.33	20.12	199.77
NET INCOME	-138.59	0.00	0.00	0.00	-20.81	-71.69	-234.26	-175.80	-59.69	-25.33	-20.12	865.11
NET INCOME TO DATE	-138.59	-138.59	-138.59	-138.59	-159.40	-231.09	-465.35	-641.15	-700.84	-726.17	-746.29	118.82

Note: Cost of production estimates are based on 2022 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, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.55	0.59	0.62	0.66	0.70	0.73	0.77	0.81	0.84	0.88	0.92
PERCENT	YIELD	UNIT	dollars										
50	600.00	lb	-369 -626	-346 -604	-324 -581	-302 -559	-280 -537	-258 -515	-236 -493	-213 -471	-191 -448	-169 -426	-147 -404
60	720.00	lb	-315 -573	-289 -546	-262 -519	-235 -493	-209 -466	-182 -440	-156 -413	-129 -386	-102 -360	-76 -333	-49 -307
70	840.00	lb	-262 -519	-231 -488	-200 -457	-169 -426	-138 -395	-107 -364	-76 -333	-45 -302	-14 -271	16 -240	47 -209
80	960.00	lb	-209 -466	-173 -431	-138 -395	-102 -360	-67 -324	-31 -289	3 -253	38 -218	74 -182	109 -147	145 -111
90	1080.00	lb	-156 -413	-116 -373	-76 -333	-36 -293	3 -253	43 -213	83 -173	123 -134	163 -94	203 -54	242 -14
100	1200.00	lb	-102 -360	-58 -315	-14 -271	30 -227	74 -182	118 -138	163 -94	207 -49	251 -5	296 38	340 83
110	1320.00	lb	-49 -306	-0 -258	47 -209	96 -160	145 -111	194 -63	242 -14	291 34	340 83	389 132	438 180
120	1440.00	lb	3 -253	56 -200	110 -147	163 -94	216 -40	269 12	322 65	376 118	429 171	482 225	535 278
130	1560.00	lb	56 -200	114 -142	172 -85	229 -27	287 30	345 87	402 145	460 203	517 260	575 318	633 375
140	1680.00	lb	110 -147	172 -85	234 -23	296 39	358 101	420 163	482 225	544 287	606 349	668 411	730 473
150	1800.00	lb	163 -93	229 -27	296 39	362 105	429 172	495 238	562 305	628 371	695 438	761 504	828 571

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 2022 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, 2023

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	-----\$/hour-----					
Combine (250-299 hp)	265 hp	463,000	300	8	13.64	16.54	61.10	48.22	125.87	212.16	338.04
Combine (300-349 hp)	325 hp	468,000	300	8	16.73	16.54	74.95	48.75	140.24	214.45	354.69
Combine (350-399 hp)	355 hp	500,000	300	8	18.27	16.54	81.84	52.08	150.47	229.12	379.59
Combine (400-449 hp)	425 hp	519,000	300	8	21.87	16.54	98.00	54.06	168.60	237.82	406.43
Combine (450-499hp)	475 hp	539,000	300	8	24.44	16.54	109.53	56.14	182.21	246.99	429.21
Tractor (20-39hp)CB	MFWD 30	34,200	600	8	1.54	16.54	6.91	1.06	24.52	7.27	31.80
Tractor (20-39hp)RB	MFWD 30	27,100	600	8	1.54	16.54	6.91	0.84	24.30	5.76	30.07
Tractor (40-59hp)CB	2WD 50	34,600	600	8	2.57	16.54	11.52	1.08	29.15	7.36	36.51
Tractor (40-59hp)CB	MFWD 50	47,000	600	8	2.57	16.54	11.52	1.46	29.53	10.00	39.54
Tractor (40-59hp)RB	2WD 50	24,500	600	8	2.57	16.54	11.52	0.76	28.83	5.21	34.04
Tractor (40-59hp)RB	MFWD 50	31,400	600	8	2.57	16.54	11.52	0.98	29.05	6.68	35.73
Tractor (60-89hp)CB	2WD 75	64,300	600	8	3.86	16.54	17.29	2.00	35.84	13.68	49.52
Tractor (60-89hp)CB	MFWD 75	72,000	600	8	3.86	16.54	17.29	2.25	36.08	15.32	51.40
Tractor (60-89hp)RB	2WD 75	54,100	600	8	3.86	16.54	17.29	1.69	35.52	11.51	47.03
Tractor (60-89hp)RB	MFWD 75	48,100	600	8	3.86	16.54	17.29	1.50	35.33	10.23	45.57
Tractor (90-119hp)CB	2WD 105	83,900	600	8	5.40	16.54	24.21	2.62	43.37	17.85	61.23
Tractor (90-119hp)CB	MFWD 105	104,000	600	8	5.40	16.54	24.21	3.25	44.00	22.13	66.13
Tractor (90-119hp)RB	2WD 105	73,400	600	8	5.40	16.54	24.21	2.29	43.04	15.62	58.66
Tractor (90-119hp)RB	MFWD 105	81,100	600	8	5.40	16.54	24.21	2.53	43.28	17.25	60.54
Tractor (120-139hp)CB	2WD 130	117,600	600	8	6.69	16.54	29.97	3.67	50.19	25.02	75.22
Tractor (120-139hp)CB	MFWD 130	133,300	600	8	6.69	16.54	29.97	4.16	50.68	28.36	79.05
Tractor (140-159hp)	2WD 150	131,200	600	8	7.72	16.54	34.58	4.10	55.22	27.92	83.15
Tractor (140-159hp)CB	MFWD 150	158,000	600	8	7.72	16.54	34.58	4.93	56.06	33.62	89.69
Tractor (160-179hp)CB	MFWD 170	186,000	600	8	8.75	16.54	39.20	5.81	61.55	41.10	102.65
Tractor (180-199hp)CB	MFWD 190	216,000	600	8	9.77	16.54	43.81	6.75	67.10	47.72	114.83
Tractor (200-249hp)CB	MFWD 225	276,000	600	8	11.58	16.54	51.88	8.62	77.04	60.98	138.03
Tractor (250-349hp)CB	4WD 300	377,000	600	8	15.44	16.54	69.17	11.78	97.50	83.30	180.80
Tractor (250-349hp)CB	MFWD 300	304,000	600	8	15.44	16.54	69.17	9.50	95.21	67.17	162.39
Tractor (250-349hp)CB	Track 300	329,000	600	8	15.44	16.54	69.17	10.28	96.00	72.69	168.69
Tractor (350-449hp)	Track 400	547,000	600	8	20.58	16.54	92.23	17.09	125.87	120.87	246.74
Tractor (350-449hp)CB	4WD 400	428,000	600	8	20.58	16.54	92.23	13.37	122.15	94.57	216.72
Tractor (450-550hp)CB	4WD 500	426,000	600	8	25.73	16.54	115.29	13.31	145.14	94.13	239.28
Tractor (450-550hp)CB	Track 500	527,000	600	8	25.73	16.54	115.29	16.46	148.30	116.45	264.75
Utility Vehicle	800 CC	12,200	200	8	0.70	16.54	2.23	1.90	20.67	8.38	29.06
Utility Vehicle	900 CC	15,800	200	8	1.00	16.54	3.19	2.46	22.19	10.86	33.05

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, 2023

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	-----\$/acre-----					
Cotton Picker	4R-38(250)	268,000	200	8	12.86	0.257	6.59	14.86	10.79	32.25	47.48	79.74
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	6.59	20.80	14.13	41.54	62.19	103.73
Cotton Picker	4R2x1(350)	357,000	200	8	18.01	0.172	4.41	13.90	9.61	27.92	42.28	70.21
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	5.58	17.86	15.85	39.31	69.75	109.06
Cotton Picker	6R-38(355)	465,000	200	8	18.27	0.172	4.41	14.10	12.51	31.03	55.07	86.11
Cotton Picker/Modu	4R-38(365)	536,000	200	8	20.58	0.257	6.59	23.77	21.58	51.96	94.97	146.93
Cotton Picker/Module	6R-30(500)	936,000	200	8	25.73	0.218	5.58	25.16	31.91	62.66	140.41	203.08
Cotton Picker/Module	6R-38(500)	937,000	200	8	25.73	0.172	4.41	19.86	25.22	49.50	110.97	160.48
Dry Applicator SP	70' 300cuft	469,000	350	8	16.98	0.015	0.31	1.14	0.37	1.84	2.78	4.63
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.37	0.71	0.20	1.28	1.49	2.78
Sprayer 600-825gal	80' 175hp	269,000	350	8	11.81	0.013	0.27	0.69	0.19	1.16	1.39	2.56
Sprayer 600-825gal	90' 250hp	316,000	350	8	12.73	0.011	0.24	0.67	0.19	1.11	1.45	2.57
Sprayer 800gal	100' 250hp	353,000	350	8	14.15	0.010	0.22	0.67	0.20	1.09	1.46	2.56
Sprayer 800gal	80' 250hp	292,000	350	8	12.86	0.013	0.27	0.76	0.20	1.24	1.51	2.76
Sprayer 1000-1400gal	90' 275hp	330,000	350	8	14.15	0.010	0.22	0.67	0.18	1.08	1.37	2.45
Sprayer 1000gal	100' 300hp	479,000	350	8	15.44	0.010	0.22	0.73	0.27	1.22	1.99	3.21
Sprayer 1200+gal	120' 300hp	489,000	350	8	15.44	0.008	0.18	0.60	0.23	1.02	1.69	2.71

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, 2023

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
							dollars hours years hr/ac -----\$/acre-----							
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.37	10.60	2.05	1.76	17.79	4.10	12.46	34.35
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.66	8.34	1.61	1.38	14.01	3.23	9.81	27.05
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.77	5.57	1.47	0.92	9.76	2.95	6.55	19.27
Bed-Rip/Disk Fold.	8R-38	MFWD 190	69,600	300	20	0.073	1.20	3.20	0.25	0.49	5.15	1.46	3.48	10.10
Bed-Rip/Disk Fold.	12R-30	MFWD 225	98,700	300	20	0.061	1.01	3.19	0.30	0.53	5.05	1.74	3.75	10.55
Bed-Rip/Disk Fold.	12R-38	MFWD 225	98,700	300	20	0.046	0.76	2.39	0.22	0.39	3.78	1.31	2.81	7.91
Bed-Rip/Disk Rigid	4R-30	MFWD 190	30,900	300	20	0.184	3.05	8.09	0.28	1.24	12.69	1.64	8.82	23.15
Bed-Rip/Disk Rigid	4R-38	MFWD 190	30,900	300	20	0.146	2.42	6.42	0.22	0.99	10.07	1.30	7.00	18.37
Bed-Rip/Disk Rigid	6R-30	MFWD 190	42,800	300	20	0.123	2.03	5.40	0.26	0.83	8.53	1.51	5.88	15.93
Bed-Rip/Disk Rigid	6R-38	MFWD 190	42,800	300	20	0.097	1.60	4.26	0.20	0.65	6.73	1.19	4.64	12.57
Bed-Rip/Disk Rigid	8R-30	MFWD 190	56,700	300	20	0.139	2.29	6.09	0.39	0.93	9.72	2.26	6.63	18.62
Bed-Rip/Disk Rigid	8R-38	MFWD 190	56,700	300	20	0.073	1.20	3.20	0.20	0.49	5.11	1.19	3.48	9.78
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	37,000	150	12	0.107	1.77	5.57	1.43	0.92	9.72	2.87	6.55	19.15
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.33	4.19	1.43	0.69	7.66	2.87	4.92	15.46
Bed-Subsoil Fold	8R-38	MFWD 225	69,600	150	12	0.080	1.33	4.19	2.02	0.69	8.25	4.06	4.92	17.23
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	98,700	150	12	0.053	0.88	2.78	1.91	0.46	6.05	3.83	3.27	13.17
Bed-Subsoil Fold	12R-38	MFWD 225	98,700	150	12	0.053	0.88	2.78	1.91	0.46	6.05	3.83	3.27	13.17
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.37	10.60	1.92	1.76	17.66	3.85	12.46	33.98
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.66	8.34	1.61	1.38	14.01	3.23	9.81	27.05
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.25	7.06	1.78	1.17	12.28	3.57	8.30	24.16
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.77	5.57	1.46	0.92	9.74	2.92	6.55	19.23
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.68	5.30	1.78	0.88	9.66	3.57	6.23	19.47
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.33	4.19	1.46	0.69	7.68	2.92	4.92	15.53
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.44	5.10	0.57	0.72	8.85	1.73	4.96	15.55
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.63	3.86	0.58	0.57	6.66	1.76	4.05	12.48
Bed/Disk (Hipper)	8R-30	MFWD 190	30,700	160	10	0.093	1.55	4.10	0.71	0.63	7.01	2.15	4.47	13.64
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	76,700	160	10	0.049	0.81	2.16	0.94	0.33	4.25	2.83	2.35	9.44
Bed/Disk (Hipper)	12R-30	MFWD 225	59,900	160	10	0.062	1.03	3.24	0.93	0.53	5.75	2.80	3.81	12.36
Bed/Disk (Hipper)	12R-38	MFWD 225	76,700	160	10	0.049	0.81	2.55	0.94	0.42	4.74	2.83	3.00	10.59
Bed/Disk (Hipper)	16R40	MFWD 300	90,600	160	10	0.035	0.58	2.44	0.80	0.33	4.17	2.40	2.37	8.94
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	33,400	160	10	0.074	1.22	3.24	0.61	0.50	5.59	1.85	3.53	10.98
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	30,800	160	10	0.074	1.22	3.24	0.57	0.50	5.54	1.71	3.53	10.79
Bed/Disk w/roller	8R-30	MFWD 190	40,100	160	10	0.093	1.55	4.10	0.93	0.63	7.23	2.81	4.47	14.52
Bed/Disk w/roller	8R-38	MFWD 190	45,900	160	10	0.074	1.22	3.24	0.85	0.50	5.82	2.54	3.53	11.90
Bed/Disk w/roller	12R-30/40	MFWD 225	76,000	160	10	0.062	1.03	3.24	1.18	0.53	6.00	3.55	3.81	13.37
Bed/Lister	4R-38	MFWD 150	25,200	160	8	0.228	3.77	7.89	1.34	1.12	14.15	4.76	7.67	26.60
Bed/Lister	6R-38	MFWD 150	28,900	160	8	0.120	1.98	4.15	0.81	0.59	7.55	2.87	4.04	14.47
Bed/Lister	8R-30	MFWD 190	39,800	160	8	0.114	1.88	5.00	1.06	0.77	8.72	3.76	5.45	17.94
Bed/Lister	8R-38	MFWD 190	40,100	160	8	0.090	1.49	3.95	0.84	0.60	6.90	2.99	4.30	14.21
Bed/Lister	8R-38 2x1	MFWD 190	60,700	160	8	0.060	0.99	2.63	0.85	0.40	4.88	3.02	2.86	10.77
Bed/Lister	12R-38	MFWD 225	60,700	160	8	0.060	0.99	3.11	0.85	0.51	5.48	3.02	3.66	12.17
Bed/Lister	16R-30	MFWD 225	67,400	160	8	0.035	0.58	1.82	0.55	0.30	3.26	1.96	2.14	7.36
Bed/Lister	16R40	MFWD 300	80,800	160	8	0.043	0.71	2.98	0.81	0.40	4.91	2.88	2.89	10.69
Bed/Lister-Roll-Fo	8R-38	MFWD 190	29,200	160	10	0.095	1.58	4.20	0.70	0.64	7.13	2.09	4.57	13.81
Bed/Lister-Roll-Fo	12R-30	MFWD 225	56,400	160	10	0.080	1.33	4.19	1.14	0.69	7.37	3.41	4.93	15.72
Bed/Lister-Roll-Fo	12R-38	MFWD 225	37,600	160	10	0.063	1.05	3.31	0.60	0.55	5.51	1.79	3.89	11.21
Bed/Lister-Roll-Fo	16R-30	MFWD 225	39,500	160	10	0.060	1.00	3.14	0.59	0.52	5.27	1.79	3.69	10.76
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.58	4.20	0.59	0.64	7.03	1.79	4.57	13.40
Blade-Box	6'-7'	MFWD 105	2,070	200	20	0.020	0.33	0.48	0.01	0.05	0.88	0.01	0.34	1.24
Boll Buggy	4R-38(250)	MFWD 190	30,500	200	10	0.257	4.26	11.29	1.96	1.74	19.26	4.57	12.30	36.13
Boll Buggy	4R-38(350)	MFWD 190	30,500	200	10	0.257	4.26	11.29	1.96	1.74	19.26	4.57	12.30	36.13
Boll Buggy	4R2x1(350)	MFWD 190	30,500	200	10	0.172	2.85	7.54	1.31	1.16	12.87	3.05	8.22	24.15
Boll Buggy	6R-30(355)	MFWD 190	30,500	200	10	0.218	3.60	9.56	1.66	1.47	16.30	3.86	10.41	30.59
Boll Buggy	6R-38(355)	MFWD 190	30,500	200	10	0.172	2.85	7.54	1.31	1.16	12.87	3.05	8.22	24.15
Chisel Flow-Folding	24'	MFWD 190	48,500	150	12	0.076	1.26	3.34	1.33	0.51	6.46	2.67	3.64	12.79
Chisel Flow-Folding	32'	MFWD 225	65,000	150	12	0.057	0.95	2.99	1.35	0.49	5.80	2.71	3.52	12.04
Chisel Flow-Folding	42'	MFWD 225	71,900	150	12	0.044	0.72	2.28	1.14	0.37	4.53	2.28	2.68	9.50
Chisel Flow-Folding	50'	MFWD 225	99,100	150	12	0.036	0.61	1.91	1.32	0.31	4.17	2.64	2.25	9.07
Chisel Flow-Folding	61'	MFWD 225	114,800	150	12	0.030	0.50	1.57	1.25	0.26	3.59	2.51	1.84	7.95
Chisel Flow-Rigid	10'	MFWD 170	8,340	150	12	0.184	3.05	7.24	0.55	1.07	11.93	1.11	7.59	20.64
Chisel Flow-Rigid	15'	2WD 130	18,870	150	12	0.123	2.03	3.69	0.83	0.45	7.02	1.68	3.08	11.79
Chisel Flow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.69	5.32	0.49	0.88	8.41	0.99	6.26	15.66
Cultivate	4R-30	2WD 105	19,000	150	10	0.206	3.41	4.99	1.04	0.54	9.99	3.13	3.68	16.80
Cultivate	4R-38	2WD 105	19,000	150	10	0.162	2.68	3.93	0.82	0.37	7.81	2.46	2.53	12.81
Cultivate	6R-30	MFWD 150	25,200	150	10	0.137	2.27	4.75	0.92	0.67	8.63	2.76	4.62	16.02
Cultivate	6R-38	MFWD 150	26,300	150	10	0.108	1.79	3.75	0.76	0.53	6.84	2.28	3.65	12.77
Cultivate	8R-30	MFWD 190	32,600	150	10	0.103	1.70	4.51	0.89	0.69	7.81	2.68	4.92	15.42
Cultivate	8R-38	MFWD 190	35,800	150	10	0.073	1.21	3.22	0.70	0.49	5.64	2.10	3.51	11.26
Cultivate	8R-38 2x1	MFWD 190	50,700	150	10	0.054	0.89	2.37	0.73	0.36	4.37	2.19	2.59	9.16
Cultivate	12R-30	MFWD 225	50,800	150	10	0.068	1.13	3.56	0.93	0.59	6.22	2.79	4.19	13.21
Cultivate	12R-38	MFWD 225	50,700	150	10	0.054	0.89	2.81	0.73	0.46	4.91	2.19	3.31	10.42
Cultivate	16R-30	MFWD 225	78,900	150	10	0.051	0.85	2.67	1.08	0.44	5.05	3.25	3.14	11.45
Cultivate & Post	4R-30	2WD 105	24,700	150	10	0.220	4.63	5.32	1.44	0.50	11.91	4.34	3.43	19.69
Cultivate & Post	4R-38	2WD 105	24,700	150	10	0.173	3.64	4.19	1.14	0.39	9.38	3.42	2.70	15.50
Cultivate & Post	6R-30	MFWD 150	30,900	150	10	0.146	3.09	5.07	1.20	0.72	10.09	3.62	4.93	18.65
Cultivate & Post	6R-38	MFWD 150	32,000	150	10	0.115	2.43	4.00	0.98	0.57	8.00	2.96	3.89	14.85
Cultivate & Post	8R-30	MFWD 190	38,300	150	10	0.110	2.31	4.81	1.12	0.74	9.00	3.36	5.25	17.62
Cultivate & Post	8R-38	MFWD 190	41,500	150	10	0.086	1.83	3.81	0.96	0.58	7.19	2.88	4.15	14.22
Cultivate & Post	8R-38 2x1	MFWD 190	56,400	150	10	0.057	1.21	2.53	0.87	0.39	5.01	2.60	2.76	10.39

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Cultivate & Post	12R-30	MFWD 225	56,500	150	10	0.073	1.54	3.80	1.10	0.63	7.08	3.31	4.47	14.87
Cultivate & Post	12R-38	MFWD 225	56,400	150	10	0.057	1.21	3.00	0.87	0.49	5.59	2.60	3.53	11.73
Cultivate & Post	16R-30	MFWD 225	84,600	150	10	0.055	1.15	2.85	1.24	0.47	5.72	3.71	3.35	12.80
Disk & Incorporate	14'	2WD 130	45,200	200	10	0.149	3.15	4.48	2.02	0.55	10.21	4.05	3.74	18.02
Disk & Incorporate	20'	MFWD 190	89,300	200	10	0.092	1.94	4.05	2.47	0.62	9.09	4.94	4.41	18.45
Disk & Incorporate	24'	MFWD 190	71,300	200	10	0.087	1.83	3.82	1.86	0.58	8.12	3.73	4.16	16.01
Disk & Incorporate	28'	MFWD 225	80,400	200	10	0.074	1.57	3.88	1.80	0.64	7.90	3.60	4.56	16.08
Disk & Incorporate	32'	MFWD 225	87,300	200	10	0.065	1.37	3.39	1.71	0.56	7.05	3.42	3.99	14.47
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.32	4.20	1.53	0.51	8.57	3.68	3.51	15.77
Disk Harrow	20'	MFWD 190	83,600	180	10	0.098	1.62	4.30	2.28	0.66	8.87	5.46	4.68	19.02
Disk Harrow	24'	MFWD 190	65,600	180	10	0.081	1.35	3.58	1.49	0.55	6.98	3.57	3.90	14.46
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.16	3.63	1.45	0.60	6.86	3.49	4.27	14.62
Disk Harrow	32'	MFWD 225	81,500	180	10	0.061	1.01	3.18	1.38	0.52	6.11	3.33	3.74	13.19
Disk Harrow	42'	MFWD 225	134,800	180	10	0.046	0.77	2.42	1.75	0.40	5.35	4.19	2.85	12.40
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.32	2.42	0.90	0.23	5.88	2.15	1.61	9.65
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.41	5.04	1.59	0.72	9.78	3.83	4.90	18.51
Disk Heavy	20'	MFWD 190	83,600	180	10	0.097	1.60	4.26	2.25	0.65	8.78	5.41	4.64	18.85
Disk Heavy	28'	MFWD 225	74,700	180	10	0.075	1.25	3.92	1.57	0.65	7.40	3.76	4.61	15.78
Disk Ripper	15'	MFWD 225	50,800	180	10	0.136	2.25	7.06	1.92	1.17	12.41	4.60	8.30	25.33
Ditcher		2WD 130	8,760	200	10	0.020	0.33	0.59	0.07	0.07	1.07	0.10	0.50	1.67
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.15	0.28	0.03	0.03	0.50	0.04	0.23	0.78
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.25	5.34	2.61	0.76	11.99	3.34	5.20	20.53
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.75	5.13	2.20	0.76	10.86	2.82	5.38	19.06
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.17	4.05	1.74	0.60	8.57	2.22	4.24	15.05
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.06	4.30	1.72	0.66	8.75	2.19	4.68	15.64
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.63	3.40	1.52	0.52	7.08	1.94	3.70	12.74
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.08	2.26	1.13	0.34	4.83	1.44	2.46	8.75
Fert Appl (Liquid)	12R-30	MFWD 225	30,600	150	8	0.078	1.65	4.07	1.60	0.67	8.01	2.04	4.79	14.85
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.08	2.68	1.07	0.44	5.28	1.36	3.15	9.80
Field Cult & Inc	42'	MFWD 225	82,900	100	10	0.037	0.79	1.95	0.78	0.32	3.86	3.75	2.30	9.92
Field Cult & Inc	50'	MFWD 225	92,500	100	10	0.031	0.66	1.64	0.73	0.27	3.32	3.51	1.93	8.77
Field Cult & Inc Fld	24'	MFWD 170	43,700	100	10	0.066	1.39	2.59	0.72	0.38	5.09	3.46	2.71	11.27
Field Cult & Inc Rdg	32'	MFWD 190	64,800	100	10	0.049	1.04	2.17	0.80	0.33	4.35	3.85	2.36	10.57
Field Cult & Inc Rdg	12'	2WD 150	22,800	100	10	0.132	2.78	4.57	0.75	0.54	8.65	3.61	3.69	15.96
Field Cultivate Fld	24'	MFWD 170	38,000	100	10	0.062	1.02	2.43	0.59	0.36	4.42	2.83	2.55	9.81
Field Cultivate Fld	32'	MFWD 190	59,100	100	10	0.046	0.77	2.04	0.68	0.31	3.82	3.30	2.22	9.35
Field Cultivate Fld	42'	MFWD 225	73,200	100	10	0.035	0.58	1.84	0.65	0.30	3.38	3.12	2.16	8.67
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.49	1.54	0.61	0.25	2.91	2.96	1.82	7.70
Field Cultivate Rdg	12'	2WD 150	17,100	100	10	0.124	2.05	4.30	0.53	0.51	7.40	2.55	3.47	13.42
Grain Cart Corn	500 bu	MFWD 190	34,100	200	12	0.025	0.41	1.10	0.23	0.17	1.93	0.46	1.20	3.60
Grain Cart Corn	700 bu	MFWD 190	51,600	200	12	0.025	0.41	1.10	0.35	0.17	2.05	0.70	1.20	3.96
Grain Cart Corn	1000 bu	MFWD 225	63,600	200	12	0.025	0.41	1.31	0.43	0.21	2.38	0.87	1.54	4.79
Grain Cart Rice	500 bu	MFWD 190	34,100	200	12	0.062	1.03	2.73	0.57	0.42	4.77	1.15	2.98	8.90
Grain Cart Rice	700 bu	MFWD 190	51,600	200	12	0.055	0.90	2.40	0.76	0.37	4.45	1.53	2.62	8.62
Grain Cart Rice	1000 bu	MFWD 190	63,600	200	12	0.045	0.75	2.00	0.78	0.30	3.86	1.57	2.18	7.63
Grain Cart Soybean	500 bu	MFWD 190	34,100	200	12	0.025	0.42	1.11	0.23	0.17	1.94	0.47	1.21	3.63
Grain Cart Soybean	700 bu	MFWD 190	51,600	200	12	0.021	0.35	0.93	0.29	0.14	1.72	0.59	1.01	3.33
Grain Cart Soybean	1000 bu	MFWD 190	63,600	200	12	0.021	0.35	0.93	0.36	0.14	1.79	0.73	1.01	3.53
Grain Cart Wht/Sor	500 bu	MFWD 190	34,100	200	12	0.025	0.42	1.11	0.23	0.17	1.94	0.47	1.21	3.63
Grain Cart Wht/Sor	700 bu	MFWD 190	51,600	200	12	0.021	0.35	0.93	0.29	0.14	1.72	0.59	1.01	3.33
Grain Cart Wht/Sor	1000 bu	MFWD 190	63,600	200	12	0.021	0.35	0.93	0.36	0.14	1.79	0.73	1.01	3.53
Grain Drill	10'	2WD 130	33,800	150	8	0.188	4.82	5.65	2.39	0.69	13.56	5.21	4.71	23.50
Grain Drill	12'	2WD 130	40,700	150	8	0.157	4.02	4.71	2.39	0.57	11.70	5.23	3.93	20.87
Grain Drill	15'	MFWD 150	38,900	150	8	0.125	3.21	4.34	1.83	0.62	10.02	4.00	4.22	18.25
Grain Drill	20'	MFWD 170	45,400	150	8	0.094	2.41	3.69	1.60	0.54	8.26	3.50	3.87	15.64
Grain Drill	24'	MFWD 190	68,900	150	8	0.078	2.01	3.44	2.03	0.53	8.01	4.43	3.75	16.19
Grain Drill	30'	MFWD 225	82,500	150	8	0.062	1.60	3.26	1.94	0.54	7.35	4.24	3.83	15.43
Grain Drill	35'	MFWD 225	100,200	150	8	0.053	1.37	2.79	2.02	0.46	6.66	4.41	3.28	14.36
Grain Drill & Pre	10'	2WD 130	39,100	150	8	0.203	5.19	6.08	2.97	0.74	15.01	6.50	5.08	26.59
Grain Drill & Pre	12'	2WD 130	46,100	150	8	0.169	4.33	5.07	2.92	0.62	12.95	6.38	4.23	23.57
Grain Drill & Pre	15'	MFWD 150	44,200	150	8	0.135	3.46	4.68	2.24	0.66	11.06	4.89	4.55	20.51
Grain Drill & Pre	20'	MFWD 170	50,800	150	8	0.101	2.59	3.98	1.93	0.59	9.10	4.22	4.17	17.50
Grain Drill & Pre	24'	MFWD 190	74,200	150	8	0.084	2.16	3.70	2.35	0.57	8.79	5.14	4.03	17.97
Grain Drill & Pre	30'	MFWD 225	87,800	150	8	0.067	1.73	3.51	2.22	0.58	8.05	4.86	4.12	17.05
Grain Drill & Pre	35'	MFWD 225	110,400	150	8	0.058	1.48	3.01	2.40	0.50	7.39	5.24	3.53	16.18
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.60	3.26	1.34	0.54	6.75	2.93	3.83	13.52
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.07	2.83	0.31	0.43	4.65	0.53	3.08	8.27
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.85	2.26	0.27	0.34	3.75	0.47	2.47	6.69
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.64	1.70	0.28	0.26	2.89	0.49	1.85	5.24
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.53	1.67	0.29	0.27	2.78	0.50	1.97	5.26
Header - Corn	6R-30	265 hp	64,800	300	8	0.170	2.81	10.40	2.75	8.21	24.19	4.69	36.12	65.01
Header - Corn	6R-38	265 hp	64,900	300	8	0.134	2.22	8.21	2.18	6.48	19.10	3.71	28.52	51.33
Header - Corn	8R-30	265 hp	87,400	300	8	0.127	2.11	7.80	2.79	6.15	18.86	4.75	27.09	50.71
Header - Corn	8R-38	325 hp	80,000	300	8	0.100	1.66	7.56	2.01	4.92	16.17	3.43	21.65	41.26
Header - Corn	12R-20	325 hp	129,500	300	8	0.127	2.11	9.57	4.13	6.22	22.04	7.03	27.38	56.47
Header - Corn	12R-30	325 hp	125,000	300	8	0.085	1.40	6.38	2.66	4.15	14.60	4.52	18.25	37.38
Header - Draper (CL)	25' Rigid	265 hp	77,900	300	8	0.203	3.35	12.40	3.62	9.79	29.18	6.47	43.08	78.75
Header - Draper (CL)	30' Rigid	325 hp	81,600	300	8	0.169	2.79	12.68	3.16	8.24	26.89	5.65	36.29	68.84

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Header - Draper (CL)	36' Rigid	355 hp	85,500	300	8	0.141	2.33	11.54	2.76	7.34	23.98	4.93	32.31	61.23
Header - Draper (CL)	40' Rigid	425 hp	90,400	300	8	0.126	2.09	12.43	2.62	6.86	24.02	4.69	30.18	58.91
Header - Draper (SL)	25' Rigid	325 hp	77,900	300	8	0.176	2.91	13.19	3.14	8.58	27.82	5.61	37.74	71.18
Header - Draper (SL)	30' Rigid	325 hp	81,600	300	8	0.146	2.42	10.99	2.74	7.15	23.31	4.89	31.45	59.66
Header - Draper (SL)	36' Rigid	355 hp	85,500	300	8	0.122	2.02	10.00	2.39	6.36	20.78	4.27	28.00	53.06
Header - Draper (SL)	40' Rigid	425 hp	90,400	300	8	0.110	1.81	10.78	2.27	5.94	20.82	4.07	26.16	51.05
Header -RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	4.19	15.51	3.21	12.24	35.16	5.46	53.85	94.49
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.49	15.85	2.85	10.31	32.52	4.86	45.36	82.75
Header -RiceStrp(CL)	32'	325 hp	60,800	300	8	0.158	2.62	11.89	2.41	7.73	24.66	4.10	34.02	62.79
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.63	13.44	2.78	10.61	30.47	4.73	46.67	81.89
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	3.03	13.74	2.47	8.93	28.18	4.21	39.31	71.71
Header -RiceStrp(SL)	32'	325 hp	60,800	300	8	0.137	2.27	10.30	2.09	6.70	21.37	3.55	29.48	54.41
Header -Soybean	22' Flex	265 hp	38,700	300	8	0.116	1.92	7.09	1.12	5.59	15.73	1.91	24.63	42.28
Header -Soybean	25' Flex	325 hp	39,600	300	8	0.102	1.68	7.65	1.01	4.98	15.33	1.72	21.91	38.97
Header -Soybean	30' Flex	325 hp	47,100	300	8	0.085	1.40	6.38	1.00	4.15	12.94	1.70	18.25	32.90
Header -Soybean	35' Flex	355 hp	55,300	300	8	0.072	1.20	5.97	1.00	3.80	11.99	1.71	16.72	30.42
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	1.92	7.09	0.57	5.59	15.18	0.97	24.63	40.80
Header Wheat/Sorghum	25' Rigid	325 hp	41,800	300	8	0.102	1.68	7.65	1.06	4.98	15.39	1.81	21.91	39.12
Header Wheat/Sorghum	30' Rigid	325 hp	55,100	300	8	0.085	1.40	6.38	1.17	4.15	13.11	1.99	18.25	33.36
Land Plane	50'x16'	MFWD 190	13,000	200	10	0.151	2.50	6.64	0.39	1.02	10.57	1.18	7.23	18.99
Levee Pull & Seed	8 Blade	MFWD 170	12,000	100	10	0.003	0.05	0.13	0.00	0.02	0.22	0.05	0.14	0.42
Levee Pull (1m/80a)	8 blade	MFWD 170	7,560	100	10	0.003	0.05	0.13	0.00	0.02	0.22	0.03	0.14	0.40
Levee Splitter (1/80	32"	MFWD 150	9,220	100	10	0.004	0.06	0.14	0.00	0.02	0.24	0.04	0.14	0.42
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	6.59	11.29	2.23	1.74	21.86	5.20	12.30	39.37
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	6.59	11.29	2.23	1.74	21.86	5.20	12.30	39.37
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	4.41	7.54	1.49	1.16	14.61	3.47	8.22	26.31
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	5.58	9.56	1.89	1.47	18.51	4.40	10.41	33.33
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	4.41	7.54	1.49	1.16	14.61	3.47	8.22	26.31
NT Grain Drill	10'	2WD 130	37,700	150	8	0.235	6.03	7.06	3.33	0.86	17.29	7.27	5.89	30.47
NT Grain Drill	12'	2WD 130	50,200	150	8	0.163	4.19	4.90	3.08	0.60	12.78	6.72	4.09	23.60
NT Grain Drill	15'	MFWD 150	63,300	150	8	0.130	3.35	4.52	3.10	0.64	11.63	6.78	4.00	22.82
NT Grain Drill	20'	MFWD 170	81,200	150	8	0.098	2.51	3.84	2.99	0.57	9.92	6.52	4.03	20.49
NT Grain Drill	24'	MFWD 190	111,300	150	8	0.081	2.09	3.58	3.41	0.55	9.65	7.45	3.90	21.01
NT Grain Drill	30'	MFWD 225	110,200	150	8	0.065	1.67	3.39	2.70	0.56	8.34	5.90	3.99	18.24
NT Grain Drill & Pre	10'	2WD 130	43,000	150	8	0.211	5.41	6.34	3.41	0.77	15.94	7.44	5.29	28.68
NT Grain Drill & Pre	12'	2WD 130	55,600	150	8	0.176	4.51	5.28	3.67	0.64	14.12	8.02	4.41	26.55
NT Grain Drill & Pre	15'	MFWD 150	68,700	150	8	0.141	3.61	4.87	3.63	0.69	12.81	7.93	4.74	25.49
NT Grain Drill & Pre	20'	MFWD 170	86,500	150	8	0.105	2.70	4.14	3.43	0.61	10.89	7.49	4.34	22.73
NT Grain Drill & Pre	24'	MFWD 190	116,600	150	8	0.088	2.25	3.86	3.85	0.59	10.56	8.41	4.20	23.18
NT Grain Drill & Pre	30'	MFWD 225	115,500	150	8	0.070	1.80	3.65	3.05	0.60	9.12	6.66	4.30	20.09
NT Plant&Pre-Folding	8R-38	MFWD 170	67,800	150	8	0.083	2.14	3.27	2.12	0.48	8.02	4.64	3.43	16.10
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.055	1.42	2.18	2.23	0.32	6.16	4.87	2.28	13.32
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.70	4.63	3.28	0.71	11.33	7.16	5.04	23.55
NT Plant&Pre-Folding	12R-30	MFWD 190	101,000	150	8	0.070	1.80	3.08	2.67	0.47	8.04	5.83	3.36	17.23
NT Plant&Pre-Folding	12R-38	MFWD 190	111,800	150	8	0.055	1.42	2.43	2.33	0.37	6.57	5.09	2.65	14.32
NT Plant&Pre-Folding	16R-30	MFWD 190	149,400	150	8	0.052	1.35	2.31	2.96	0.35	6.99	6.46	2.52	15.98
NT Plant&Pre-Folding	23R-15	MFWD 190	202,900	150	8	0.073	1.88	3.21	5.58	0.49	11.18	12.20	3.50	26.88
NT Plant&Pre-Folding	24R-20	MFWD 190	238,100	150	8	0.052	1.35	2.31	4.72	0.35	8.74	10.30	2.52	21.58
NT Plant&Pre-Folding	24R-30	MFWD 190	224,900	150	8	0.035	0.90	1.54	2.97	0.23	5.65	6.49	1.68	13.83
NT Plant&Pre-Folding	31R-15	MFWD 225	244,300	150	8	0.054	1.39	2.83	5.00	0.47	9.71	10.93	3.33	23.97
NT Plant&Pre-Folding	32R-15	MFWD 225	248,700	150	8	0.052	1.35	2.74	4.93	0.45	9.48	10.76	3.22	23.47
NT Plant&Pre-Rigid	4R-30	2WD 130	37,700	150	8	0.211	5.41	6.34	2.99	0.77	15.52	6.52	5.29	27.34
NT Plant&Pre-Rigid	4R-38	2WD 130	34,500	150	8	0.166	4.26	4.99	2.15	0.61	12.02	4.70	4.16	20.89
NT Plant&Pre-Rigid	6R-30	MFWD 150	47,400	150	8	0.141	3.61	4.87	2.50	0.69	11.69	5.47	4.74	21.90
NT Plant&Pre-Rigid	6R-38	MFWD 150	47,500	150	8	0.111	2.85	3.85	1.98	0.54	9.23	4.32	3.74	17.30
NT Plant&Pre-Rigid	8R-30	MFWD 170	60,300	150	8	0.105	2.70	4.14	2.39	0.61	9.86	5.22	4.34	19.42
NT Plant&Pre-Rigid	8R-38	MFWD 170	56,200	150	8	0.083	2.14	3.27	1.76	0.48	7.66	3.84	3.43	14.94
NT Plant&Pre-Rigid	11R-15	MFWD 170	67,300	150	8	0.143	3.68	5.64	3.63	0.83	13.79	7.92	5.91	27.63
NT Plant&Pre-Rigid	11R-20	MFWD 170	68,500	150	8	0.115	2.95	4.53	2.96	0.67	11.13	6.48	4.75	22.36
NT Plant&Pre-Rigid	12R-20	MFWD 190	73,000	150	8	0.105	2.70	4.63	2.89	0.71	10.95	6.32	5.04	22.32
NT Plant&Pre-Rigid	12R-30	MFWD 190	86,600	150	8	0.070	1.80	3.08	2.28	0.47	7.66	4.99	3.36	16.02
NT Plant&Pre-Rigid	15R-15	MFWD 190	89,600	150	8	0.113	2.89	4.95	3.80	0.76	12.41	8.29	5.39	26.11
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	172,500	150	8	0.055	1.42	2.88	3.60	0.48	8.39	7.86	3.39	19.65
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	135,300	150	8	0.083	2.14	4.33	4.24	0.72	11.44	9.26	5.09	25.80
NT Plant-Folding	8R-38	MFWD 170	72,900	150	8	0.077	1.98	3.04	2.12	0.45	7.60	4.63	3.19	15.42
NT Plant-Folding	8R-38 2x1	MFWD 170	102,000	150	8	0.051	1.32	2.02	1.97	0.30	5.62	4.31	2.12	12.06
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.51	4.30	2.85	0.66	10.33	6.23	4.68	21.25
NT Plant-Folding	12R-30	MFWD 190	91,300	150	8	0.065	1.67	2.86	2.24	0.44	7.22	4.89	3.12	15.24
NT Plant-Folding	12R-38	MFWD 190	102,000	150	8	0.051	1.32	2.26	1.97	0.34	5.91	4.31	2.46	12.69
NT Plant-Folding	16R-30	MFWD 190	139,600	150	8	0.049	1.25	2.15	2.57	0.33	6.31	5.61	2.34	14.26
NT Plant-Folding	23R-15	MFWD 190	193,000	150	8	0.068	1.74	2.98	4.93	0.46	10.13	10.77	3.25	24.16
NT Plant-Folding	24R-20	MFWD 190	228,000	150	8	0.049	1.25	2.15	4.19	0.33	7.93	9.16	2.34	19.45
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.83	1.43	2.55	0.22	5.04	5.57	1.56	12.18
NT Plant-Folding	31R-15	MFWD 225	234,500	150	8	0.050	1.29	2.63	4.46	0.43	8.83	9.74	3.09	21.67
NT Plant-Folding	32R-15	MFWD 225	239,000	150	8	0.049	1.25	2.54	4.40	0.42	8.63	9.60	2.99	21.23
NT Plant-Rigid	4R-30	2WD 130	31,900	150	8	0.196	5.02	5.88	2.34	0.72	13.98	5.12	4.91	24.03
NT Plant-Rigid	4R-38	2WD 130	28,800	150	8	0.154	3.95	4.63	1.67	0.56	10.83	3.64	3.87	18.35
NT Plant-Rigid	6R-30	MFWD 150	41,600	150	8	0.130	3.35	4.52	2.04	0.64	10.57	4.45	4.40	19.43
NT Plant-Rigid	6R-38	MFWD 150	41,800	150	8	0.103	2.64	3.57	1.62	0.51	8.35	3.53	3.47	15.36

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/acre	-----\$/acre-----							
NT Plant-Rigid	8R-30	MFWD 170	54,600	150	8	0.098	2.51	3.84	2.01	0.57	8.94	4.38	4.03	17.37
NT Plant-Rigid	8R-38	MFWD 170	50,500	150	8	0.077	1.98	3.04	1.47	0.45	6.95	3.20	3.19	13.35
NT Plant-Rigid	11R-15	MFWD 170	61,600	150	8	0.133	3.42	5.23	3.08	0.77	12.52	6.73	5.49	24.75
NT Plant-Rigid	11R-20	MFWD 170	62,700	150	8	0.107	2.74	4.20	2.52	0.62	10.10	5.50	4.41	20.02
NT Plant-Rigid	12R-20	MFWD 190	67,300	150	8	0.098	2.51	4.30	2.47	0.66	9.95	5.41	4.68	20.05
NT Plant-Rigid	12R-30	MFWD 190	76,800	150	8	0.065	1.67	2.86	1.88	0.44	6.87	4.11	3.12	14.11
NT Plant-Rigid	15R-15	MFWD 190	79,900	150	8	0.105	2.68	4.60	3.14	0.70	11.14	6.87	5.01	23.03
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.32	2.68	3.15	0.44	7.61	6.89	3.15	17.66
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	1.98	4.02	3.78	0.66	10.47	8.26	4.73	23.46
Peanut Cond.& Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.65	4.38	0.25	0.67	6.96	0.44	4.77	12.18
Peanut Conditioner	6-Row	MFWD 190	21,600	300	20	0.100	1.65	4.38	0.43	0.67	7.14	0.58	4.77	12.50
Peanut Dig/Invertor	4R-30	MFWD 190	37,900	300	15	0.235	3.90	10.33	2.22	1.59	18.05	3.07	11.25	32.37
Peanut Dig/Invertor	4R-38	MFWD 190	37,900	300	15	0.186	3.08	8.15	1.75	1.25	14.25	2.42	8.88	25.56
Peanut Dig/Invertor	6R-38	MFWD 190	51,100	300	15	0.124	2.05	5.43	1.11	0.83	9.43	2.17	5.92	17.53
Peanut Dump Cart	6-Row	MFWD 190	67,400	300	20	0.310	5.12	13.58	1.21	2.09	22.02	6.00	14.79	42.82
Peanut Harvester	4R-30	MFWD 225	171,000	300	20	0.849	14.05	44.10	8.23	7.33	73.72	39.40	51.83	164.97
Peanut Harvester	4R-38	MFWD 225	171,000	300	20	0.934	15.45	48.48	9.05	8.06	81.06	44.63	56.99	182.70
Peanut Harvester	6R-38	MFWD 225	190,000	300	20	0.625	10.33	32.42	5.73	5.39	53.89	33.16	38.11	125.18
Peanut Lifter	6-Row	MFWD 225	9,220	300	20	0.100	1.65	5.18	0.19	0.86	7.89	0.24	6.09	14.24
Peanut Plt&Pre Fold.	12R-38	MFWD 190	99,500	150	8	0.080	2.05	3.52	3.00	0.54	9.12	6.55	3.83	19.51
Peanut Plt&Pre Rigid	8R-30	MFWD 190	52,200	150	8	0.152	3.91	6.69	2.99	1.03	14.62	6.52	7.29	28.44
Peanut Plt&Pre Rigid	8R-38	MFWD 190	48,000	150	8	0.120	3.09	5.29	2.17	0.81	11.37	4.74	5.76	21.88
Peanut Ptl&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	3.09	5.29	5.75	0.81	14.94	12.55	5.76	33.27
Pipe Spool 160ac	1/4m roll	2WD 130	6,480	15	12	0.003	0.10	0.09	0.01	0.01	0.22	0.14	0.07	0.44
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.19	0.11	0.00	0.01	0.32	0.01	0.09	0.43
Plant & Pre-Folding	8R-38	MFWD 170	70,400	150	8	0.080	2.05	3.14	2.11	0.46	7.78	4.62	3.29	15.71
Plant & Pre-Folding	8R-38 2x1	MFWD 170	99,500	150	8	0.053	1.36	2.09	1.99	0.31	5.76	4.35	2.19	12.31
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.59	4.44	2.68	0.68	10.42	5.86	4.84	21.13
Plant & Pre-Folding	12R-30	MFWD 190	88,800	150	8	0.067	1.73	2.96	2.25	0.45	7.40	4.92	3.23	15.56
Plant & Pre-Folding	12R-38	MFWD 190	99,500	150	8	0.053	1.36	2.34	1.99	0.36	6.06	4.35	2.55	12.96
Plant & Pre-Folding	16R-30	MFWD 190	133,000	150	8	0.050	1.29	2.22	2.53	0.34	6.39	5.52	2.42	14.35
Plant & Pre-Folding	23R-15	MFWD 190	179,000	150	8	0.070	1.80	3.08	4.73	0.47	10.10	10.33	3.36	23.80
Plant & Pre-Folding	24R-20	MFWD 190	214,000	150	8	0.050	1.29	2.22	4.07	0.34	7.94	8.89	2.42	19.25
Plant & Pre-Folding	24R-30	MFWD 190	200,000	150	8	0.033	0.86	1.48	2.53	0.22	5.11	5.54	1.61	12.27
Plant & Pre-Folding	31R-15	MFWD 225	213,000	150	8	0.052	1.34	2.72	4.19	0.45	8.70	9.14	3.20	21.05
Plant & Pre-Folding	32R-15	MFWD 225	216,000	150	8	0.050	1.29	2.63	4.11	0.43	8.48	8.97	3.09	20.55
Plant & Pre-Rigid	4R-30	2WD 130	33,700	150	8	0.203	5.19	6.08	2.56	0.74	14.59	5.60	5.08	25.28
Plant & Pre-Rigid	4R-38	2WD 130	30,400	150	8	0.159	4.09	4.79	1.82	0.58	11.29	3.97	4.00	19.27
Plant & Pre-Rigid	6R-30	MFWD 150	41,200	150	8	0.135	3.46	4.68	2.09	0.66	10.90	4.56	4.55	20.02
Plant & Pre-Rigid	6R-38	MFWD 150	41,400	150	8	0.106	2.73	3.69	1.65	0.52	8.62	3.62	3.59	15.83
Plant & Pre-Rigid	8R-30	MFWD 170	52,200	150	8	0.101	2.59	3.98	1.98	0.59	9.15	4.33	4.17	17.67
Plant & Pre-Rigid	8R-38	MFWD 170	48,000	150	8	0.080	2.05	3.14	1.44	0.46	7.11	3.15	3.29	13.56
Plant & Pre-Rigid	11R-15	MFWD 170	56,100	150	8	0.148	3.79	5.81	3.11	0.86	13.58	6.80	6.09	26.48
Plant & Pre-Rigid	11R-20	MFWD 170	57,200	150	8	0.110	2.84	4.35	2.38	0.64	10.21	5.19	4.56	19.97
Plant & Pre-Rigid	12R-20	MFWD 190	60,800	150	8	0.101	2.59	4.44	2.31	0.68	10.04	5.05	4.84	19.94
Plant & Pre-Rigid	12R-30	MFWD 190	74,400	150	8	0.067	1.73	2.96	1.88	0.45	7.04	4.12	3.23	14.39
Plant & Pre-Rigid	15R-15	MFWD 190	74,300	150	8	0.108	2.78	4.75	3.02	0.73	11.29	6.60	5.18	23.08
Plant & Pre-TwinRow	12R-30/40	MFWD 225	160,200	150	8	0.053	1.36	2.77	3.21	0.46	7.81	7.00	3.25	18.08
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	2.05	4.16	3.82	0.69	10.73	8.34	4.89	23.97
Plant - Folding	8R-38	MFWD 170	64,700	150	8	0.074	1.90	2.92	1.80	0.43	7.07	3.94	3.06	14.08
Plant - Folding	8R-38 2x1	MFWD 170	89,800	150	8	0.049	1.27	1.94	1.67	0.28	5.17	3.64	2.03	10.86
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.41	4.13	2.30	0.63	9.48	5.03	4.50	19.02
Plant - Folding	12R-30	MFWD 190	79,000	150	8	0.062	1.60	2.75	1.86	0.42	6.64	4.06	3.00	13.71
Plant - Folding	12R-38	MFWD 190	89,800	150	8	0.049	1.27	2.17	1.67	0.33	5.45	3.64	2.36	11.46
Plant - Folding	16R-30	MFWD 190	123,000	150	8	0.047	1.20	2.06	2.17	0.31	5.76	4.74	2.24	12.76
Plant - Folding	23R-15	MFWD 190	170,000	150	8	0.065	1.67	2.86	4.17	0.44	9.16	9.11	3.12	21.40
Plant - Folding	24R-20	MFWD 190	204,000	150	8	0.047	1.20	2.06	3.60	0.31	7.19	7.87	2.24	17.31
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.80	1.37	2.16	0.21	4.56	4.73	1.50	10.79
Plant - Folding	31R-15	MFWD 225	203,000	150	8	0.048	1.24	2.52	3.70	0.42	7.90	8.09	2.97	18.97
Plant - Folding	32R-15	MFWD 225	206,000	150	8	0.047	1.20	2.44	3.64	0.40	7.70	7.94	2.87	18.52
Plant - Rigid	4R-30	2WD 130	27,900	150	8	0.188	4.82	5.65	1.97	0.69	13.14	4.30	4.71	22.17
Plant - Rigid	4R-38	2WD 130	24,700	150	8	0.148	3.80	4.45	1.37	0.54	10.17	3.00	3.71	16.89
Plant - Rigid	6R-30	MFWD 150	35,500	150	8	0.125	3.21	4.34	1.67	0.62	9.86	3.65	4.22	17.74
Plant - Rigid	6R-38	MFWD 150	35,700	150	8	0.099	2.54	3.43	1.32	0.49	7.79	2.90	3.33	14.03
Plant - Rigid	8R-30	MFWD 170	46,500	150	8	0.094	2.41	3.69	1.64	0.54	8.30	3.58	3.87	15.76
Plant - Rigid	8R-38	MFWD 170	42,300	150	8	0.074	1.90	2.92	1.18	0.43	6.44	2.58	3.06	12.08
Plant - Rigid	11R-15	MFWD 170	50,400	150	8	0.137	3.52	5.39	2.60	0.80	12.32	5.67	5.65	23.65
Plant - Rigid	11R-20	MFWD 170	51,500	150	8	0.103	2.63	4.03	1.98	0.59	9.26	4.34	4.23	17.84
Plant - Rigid	12R-20	MFWD 190	55,000	150	8	0.094	2.41	4.13	1.94	0.63	9.12	4.24	4.50	17.87
Plant - Rigid	12R-30	MFWD 190	64,600	150	8	0.062	1.60	2.75	1.52	0.42	6.31	3.32	3.00	12.63
Plant - Rigid	15R-15	2WD 150	64,600	150	8	0.094	2.41	3.26	2.28	0.38	8.34	4.98	2.63	15.96
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.27	2.57	2.79	0.42	7.06	6.09	3.02	16.18
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	1.90	3.86	3.38	0.64	9.79	7.38	4.54	21.72
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	2.05	3.73	0.21	0.45	6.46	0.34	3.11	9.92
Roller/Cultipacker	20'	MFWD 150	13,400	300	12	0.074	1.23	2.58	0.23	0.36	4.42	0.37	2.51	7.30
Roller/Cultipacker	30'	MFWD 170	20,600	300	12	0.049	0.82	1.95	0.24	0.28	3.30	0.37	2.04	5.73
Roller/Cultipacker	38'	MFWD 225	26,300	300	12	0.039	0.65	2.03	0.24	0.33	3.27	0.38	2.39	6.05
Roller/Stubble	20'	2WD 50	15,600	300	12	0.074	1.23	0.86	0.27	0.05	2.42	0.43	0.38	3.24
Roller/Stubble	32'	MFWD 225	23,400	300	12	0.046	0.77	2.42	0.25	0.40	3.85	0.40	2.84	7.10

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2023 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Rotary Cutter	7'	MFWD 130	0	185	10	0.168	2.78	5.04	0.00	0.70	8.53	0.00	4.77	13.30
Rotary Cutter	12'	2WD 150	20,200	185	10	0.098	1.62	3.39	1.60	0.40	7.03	1.28	2.74	11.06
Rotary Cutter-Flex	15'	MFWD 150	28,700	185	10	0.078	1.29	2.71	1.82	0.38	6.23	1.46	2.64	10.33
Rotary Cutter-Flex	20'	MFWD 150	41,400	185	10	0.058	0.97	2.03	1.97	0.29	5.28	1.58	1.98	8.84
Row Cond & Inc-Fold.	26'	MFWD 190	37,600	100	10	0.063	1.33	2.78	0.59	0.42	5.14	2.86	3.02	11.03
Row Cond & Inc-Fold.	38'	MFWD 225	49,800	100	10	0.043	0.91	2.25	0.54	0.37	4.08	2.59	2.64	9.32
Row Cond & Inc-Rigid	13'	2WD 130	18,700	100	10	0.126	2.67	3.80	0.59	0.46	7.53	2.84	3.17	13.56
Row Cond & Inc-Rigid	21'	2WD 170	26,900	100	10	0.078	1.65	3.08	0.52	0.29	5.55	2.53	2.06	10.15
Row Cond & Inc-Rigid	26'	MFWD 190	29,300	100	10	0.026	0.56	1.16	0.19	0.17	2.10	0.93	1.27	4.30
Row Cond Folding	26'	MFWD 225	31,900	100	10	0.059	0.98	3.09	0.47	0.51	5.07	2.28	3.64	11.00
Row Cond Folding	38'	MFWD 225	40,100	100	10	0.040	0.67	2.12	0.40	0.35	3.55	1.96	2.49	8.01
Row Cond Rigid	13'	2WD 130	12,900	100	10	0.119	1.97	3.58	0.38	0.43	6.38	1.84	2.98	11.21
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.22	2.89	0.39	0.27	4.78	1.87	1.94	8.61
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	0.98	2.61	0.35	0.40	4.36	1.69	2.85	8.90
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.03	2.73	1.07	0.42	5.27	3.23	2.98	11.48
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.19	3.15	0.68	0.48	5.52	2.05	3.44	11.02
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.77	2.43	0.66	0.40	4.28	2.00	2.85	9.14
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.47	3.91	0.85	0.60	6.84	2.56	4.26	13.68
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.19	3.15	0.76	0.48	5.60	2.28	3.44	11.33
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.07	1.84	0.34	0.28	3.54	0.77	2.00	6.33
Spray (ATV Ropewick)	75"	800 CC	720	200	8	0.260	5.48	0.58	0.08	0.49	6.65	0.11	2.18	8.95
Spray (ATV)	20"	800 CC	1,440	200	8	0.084	1.78	0.18	0.05	0.16	2.19	0.07	0.70	2.97
Spray (Band)	27' Fold	MFWD 170	5,700	200	8	0.062	1.32	2.45	0.16	0.36	4.30	0.22	2.57	7.11
Spray (Band)	40' Fold	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Band)	50' Fold	MFWD 170	9,590	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Band)	60' Fold	MFWD 170	16,700	200	8	0.028	0.59	1.10	0.22	0.16	2.08	0.30	1.15	3.54
Spray (Bcast/HB)	13' Rigid	MFWD 150	8,700	200	8	0.130	2.74	4.50	0.53	0.64	8.41	0.72	4.37	13.51
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,200	200	8	0.084	1.78	2.92	0.40	0.41	5.53	0.55	2.84	8.92
Spray (Bcast/HB)	27' Fold	MFWD 170	14,700	200	8	0.062	1.32	2.45	0.43	0.36	4.57	0.58	2.57	7.73
Spray (Bcast/HB)	27' Rigid	MFWD 170	14,800	200	8	0.062	1.32	2.45	0.43	0.36	4.57	0.59	2.57	7.74
Spray (Bcast/HB)	30' Fold	MFWD 170	19,900	200	8	0.056	1.18	2.21	0.52	0.32	4.25	0.71	2.31	7.28
Spray (Bcast/HB)	40' Fold	MFWD 170	21,500	200	8	0.042	0.89	1.65	0.42	0.24	3.22	0.58	1.73	5.54
Spray (Broadcast)	27'	MFWD 170	5,720	200	8	0.062	1.32	2.45	0.16	0.36	4.31	0.22	2.57	7.11
Spray (Broadcast)	40'	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Broadcast)	50'	MFWD 170	9,600	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Broadcast)	60'	MFWD 170	16,700	200	8	0.028	0.59	1.10	0.22	0.16	2.08	0.30	1.15	3.54
Spray (Direct/Hood)	8R-30	MFWD 170	20,700	200	8	0.084	1.78	3.31	0.82	0.49	6.41	1.11	3.47	11.00
Spray (Direct/Hood)	8R-38	MFWD 170	21,500	200	8	0.066	1.40	2.62	0.67	0.38	5.09	0.91	2.74	8.76
Spray (Direct/Hood)	12R-30	MFWD 170	28,200	200	8	0.056	1.18	2.21	0.74	0.32	4.47	1.01	2.31	7.80
Spray (Direct/Hood)	12R-38	MFWD 170	28,600	200	8	0.044	0.93	1.74	0.59	0.25	3.53	0.81	1.83	6.18
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.78	3.31	0.77	0.49	6.36	1.05	3.47	10.89
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.40	2.62	0.61	0.38	5.03	0.83	2.74	8.61
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	0.93	1.74	0.61	0.25	3.55	0.83	1.83	6.22
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.18	2.21	0.78	0.32	4.50	1.06	2.31	7.88
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	0.93	1.74	0.61	0.25	3.55	0.83	1.83	6.22
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.32	3.25	1.01	0.54	6.12	1.38	3.82	11.33
Spray (Levee Leaper)	50'	MFWD 225	16,900	200	8	0.033	0.71	1.75	0.26	0.29	3.02	0.36	2.06	5.45
Spray (Pull Type)	60'	MFWD 225	62,600	200	8	0.028	0.59	1.46	0.82	0.24	3.12	1.12	1.72	5.97
Spray (Pull Type)	80'	MFWD 225	61,500	200	8	0.021	0.44	1.09	0.60	0.18	2.33	0.83	1.28	4.45
Spray (Pull Type)	90'	MFWD 225	62,400	200	8	0.018	0.39	0.97	0.54	0.16	2.08	0.74	1.14	3.97
Spray (Pull Type)	120'	MFWD 225	106,200	200	8	0.014	0.29	0.73	0.70	0.12	1.85	0.95	0.85	3.66
Spray (Ropewick)	20'	MFWD 190	4,110	200	8	0.084	1.78	3.70	0.16	0.57	6.22	0.22	4.03	10.48
Spray (Spot)	27'	MFWD 170	5,720	200	8	0.062	1.32	2.45	0.16	0.36	4.31	0.22	2.57	7.11
Spray (Spot)	40'	MFWD 170	9,740	200	8	0.042	0.89	1.65	0.19	0.24	2.98	0.26	1.73	4.99
Spray (Spot)	50'	MFWD 170	9,600	200	8	0.033	0.71	1.32	0.15	0.19	2.38	0.20	1.39	3.98
Spray (Spot)	60'	MFWD 225	16,700	200	8	0.028	0.59	1.46	0.22	0.24	2.52	0.30	1.72	4.54
Stalk Shredder	14'	MFWD 150	36,300	200	10	0.117	1.94	4.07	3.74	0.58	10.35	2.56	3.96	16.87
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.36	2.85	2.38	0.40	7.01	1.63	2.77	11.42
Stalk Shredder-Flail	12'	MFWD 150	26,200	200	10	0.137	2.27	4.75	3.15	0.67	10.86	2.15	4.62	17.64
Stalk Shredder-Flail	15'	MFWD 150	31,000	200	10	0.110	1.81	3.80	2.98	0.54	9.15	2.04	3.69	14.89
Stalk Shredder-Flail	18'	MFWD 150	47,300	200	10	0.091	1.51	3.17	3.79	0.45	8.93	2.59	3.08	14.61
Stalk Shredder-Flail	20'	MFWD 150	40,200	200	10	0.082	1.36	2.85	2.90	0.40	7.52	1.98	2.77	12.28
Stalk Shredder-Flail	25'	MFWD 150	66,400	200	10	0.066	1.09	2.28	3.83	0.32	7.53	2.62	2.21	12.38
Strip Till	8R-38	MFWD 225	58,200	150	10	0.061	1.01	3.19	1.55	0.53	6.30	2.86	3.75	12.92
Strip Till	12R-30	MFWD 225	98,900	150	10	0.061	1.01	3.19	2.64	0.53	7.38	4.87	3.75	16.01
Strip Till	12R-40	MFWD 225	99,800	150	10	0.046	0.76	2.39	1.99	0.39	5.56	3.68	2.81	12.06
Subsoiler	3 shank	MFWD 190	5,400	100	15	0.204	3.37	8.95	0.36	1.37	14.07	1.07	9.75	24.90
Subsoiler	4 shank	MFWD 225	12,200	100	15	0.153	2.54	7.97	0.62	1.32	12.46	1.81	9.36	23.65
Subsoiler	5 shank	MFWD 225	17,100	100	15	0.122	2.02	6.34	0.69	1.05	10.12	2.03	7.46	19.61
Subsoiler low-till	6 shank	MFWD 225	16,400	100	15	0.102	1.68	5.30	0.55	0.88	8.43	1.62	6.23	16.28
Subsoiler low-till	8 shank	MFWD 225	24,300	100	15	0.076	1.26	3.97	0.61	0.66	6.51	1.80	4.66	12.98

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, 2023

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Artisan	oz	0.23
Agri-Dex	pt	5.28	Avaris	oz	1.68
AMS SuperMax	pt	3.81	Avicta 500 Soybean	oz	2.14
Class Act NG	pt	4.75	Bravo Weather Stick	pt	6.32
Crop Oil Conc. (Pet.)	pt	2.86	Captan 50 WP	lb	6.13
Crop Oil Conc. (Veg.)	pt	2.90	Convoy	oz	1.13
Dyne-A-Pak	pt	6.01	Cotton Seed Trt.	acre	20.00
Fire-Zone	pt	2.42	CruiserMaxx Vibrance	oz	7.63
Herbimax	pt	2.75	Elatus	oz	3.81
Induce	pt	5.00	Flint Extra	oz	9.41
MSO	pt	1.34	Headline EC	oz	4.46
Penetrator Plus	pt	2.32	Miravis Top	oz	5.31
Surfactant	pt	3.30	Prior Xemium	oz	2.17
CLEANING			Propimax EC	pt	12.50
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.78
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.41
Cotton Consultant	acre	8.00	Quadris	oz	6.73
Peanut Consultant	acre	9.25	Quadris Top	oz	3.05
Rice Consultant	acre	8.00	Quadris Top SBX	oz	3.35
Sorghum Consultant	acre	6.00	Quilt	pt	18.23
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	25.08
Wheat Consultant	acre	5.50	Stratego	pt	23.93
CUSTOM FERTILIZE			Stratego YLD	oz	4.02
App Fert by Air	cwt	8.00	Tilt 3.6 EC	oz	1.00
App Fert by Air (Mi)	appl	8.00	Tilt/ Bravo SE	oz	0.72
Custom Apply Fert	acre	7.50	Trivapro	oz	1.43
CUSTOM LIME			GINNING		
Lime (Spread)	ton	58.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	8.00	Mepichlor 4.2%	oz	0.04
CUSTOM SPRAY			Mepiquat	oz	0.22
App by Air (3 gal)	appl	6.40	Mepstar 6	oz	0.09
App by Air (5 gal)	appl	7.60	Palisade	oz	1.41
App by Air (10 gal)	appl	9.70	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSB	oz	1.26
DRYING			Stance	oz	1.40
Dry Corn	bu	0.19	Veto	oz	0.06
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.96
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	12.50
Eradication	acre	1.00	Defol 5	gal	8.61
FERTILIZERS			Display	oz	10.59
Agrotain Ultra	pt	20.99	Ethephon 6E	pt	3.56
Amm Sulfate (21% N)	cwt	50.00	Finish 6	pt	10.93
Boron Plus	pt	4.31	Folex 6EC	pt	12.50
DAP	cwt	55.40	Freefall SC	oz	1.52
Fert 10-34-0	cwt	45.99	Ginstar EC	pt	29.72
Fert 10-34-0	gal	5.36	Gramoxone SL	oz	0.37
Fert 11-37-0	cwt	50.15	Sharpen	oz	6.72
Fert 41-0-0-4	cwt	37.06	Sodium Chlorate 5L	gal	8.61
Lime	ton	48.00	SuperBoll	oz	0.32
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.52
Phosphorus (46% P2O5)	cwt	50.00	Tribufos 6lb	pt	12.50
Potash (60% K2O)	cwt	46.60	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	38.90	Haul Corn	bu	0.23
UAN (32%)	gal	4.30	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	39.65	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	4.41	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	41.58	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.68	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.88	2,4-D Amine 4	pt	3.33
Alfa Guard	lb	1.41	2,4-D Ester	pt	5.03
Allegiance Flowable	oz	3.66	AAtrex 4L	pt	2.62
Ameristar Top	oz	2.41	Accent Q	oz	20.47
Approach Prima	pt	33.33	Acuron	oz	0.54
Apron Maxx RTA	oz	1.00			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2023 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	4.90	Harmony Extra SG	oz	10.34
Anthem Flex	oz	5.57	Helmet	oz	0.48
Anthem Maxx	oz	5.26	Huskie	oz	0.96
Armezon Pro	oz	1.03	Impact	oz	13.44
Atrazine 4L	pt	3.00	Intimidator	oz	0.64
Atrazine 90DF	lb	4.50	Leadoff	oz	6.79
Authority First	lb	40.00	League	oz	4.19
Authority Elite	pt	11.92	Lexar	pt	6.76
Authority Maxx	lb	68.82	Liberty 280	oz	0.76
Authority MTZ	lb	19.75	Loyant	oz	2.29
Avatar	pt	9.62	Makaze	oz	0.21
Avenger	pt	15.00	Metolachlor	pt	7.89
Axial XL	oz	1.71	Metribuzin 4L	pt	21.13
Axiom	oz	2.10	Metribuzin 75	lb	14.80
Banvel	pt	4.81	MSMA	pt	6.35
Barrage	pt	4.13	Newpath	oz	4.15
Basagran	pt	5.43	Obey	oz	1.08
Boundary	pt	11.75	Osprey	oz	3.58
Brake	oz	1.48	Outlook	pt	14.77
Broadaxe	pt	14.17	Panther Pro	oz	6.61
Broadhead	lb	58.21	Parallel	pt	8.32
Bucaneer Plus	pt	9.81	Paraquat	oz	0.23
Buctril	pt	4.28	Parazone 3SL	oz	0.18
Butyrac 200 (2,4-DB)	pt	4.06	Permit	oz	20.07
Cadre	oz	1.97	Permit Plus	oz	22.22
Canopy	oz	3.25	PowerFlex	oz	7.21
Caparol	pt	4.97	Preface	oz	4.99
Capreno	oz	4.49	Prefix	pt	5.26
Cinch	pt	14.18	Provisia	oz	0.82
Cinch ATZ	pt	6.26	Prowl 3.3 EC	pt	6.63
Clarity	pt	14.30	Quelex	oz	11.30
Classic	oz	18.50	RealmQ	oz	4.32
Clearpath	oz	4.24	RebelEx	oz	2.00
Clethodim 2E	oz	0.53	Reflex	pt	7.34
Clincher SF	oz	1.95	Regiment	oz	45.96
Cobra	oz	1.22	Resicore	oz	0.60
Command 3ME	pt	18.00	Resource	oz	2.03
Corvus	oz	5.30	RiceBeaux	pt	6.25
Cotoran	pt	6.37	Riceshot	pt	4.68
Cotton Pro	pt	3.45	Ricestar HT	pt	26.01
Dicamba	pt	5.88	Ringside	pt	5.63
Direx	pt	5.25	Roundup Power Max	oz	0.46
Diuron	pt	3.47	Roundup PowerMax	pt	7.33
Dual II Magnum	pt	11.60	Roundup PowerMax ii	oz	0.27
Dual Magnum	pt	11.45	Roundup Pro	pt	0.20
Duet	pt	6.09	Scepter 70 DG	oz	4.64
Engenia	oz	0.83	Select Max	pt	13.86
Enlist Duo	pt	8.60	Sencor/Tricor.Metrib	lb	17.78
Enlist One	pt	6.77	Sequence	pt	7.14
Envive	oz	3.78	Sharpen	oz	6.72
Envoke	oz	88.33	Sinister	pt	13.77
Facet L	pt	17.50	Sonic	oz	4.50
Fierce	oz	7.75	Stalwart	pt	3.82
Fierce XLT	oz	4.47	Stam 80 EDF	lb	9.45
Finesse	oz	18.64	Stam M4	qt	8.00
Firestorm	pt	3.44	Staple LX	oz	3.95
First Rate	oz	37.79	Storm	pt	12.65
Flexstar	pt	9.90	Strada	oz	7.34
Flexstar GT	pt	6.77	Strada Pro	oz	8.20
Fusilade DX	oz	1.19	Strada XT2	oz	3.26
Gambit	oz	16.50	Superwham	qt	9.82
Glyphosate 3lbs a.e	pt	5.38	Suprend	lb	13.52
Glyphosate 3lbs a.e	oz	0.34	SureStart II	oz	0.39
Goal 2XL	pt	8.75	Surveil	oz	6.70
Gramoxone SL 2.0	oz	0.37	Synchrony XP	oz	13.00
Grandstand R	pt	18.68	Tempest	pt	19.50
Grasp	oz	3.17	Touchdown Total	qt	10.21
Grasp Xtra	oz	1.61	Treflan	pt	4.36
Halex GT	pt	10.50			
Halomax	oz	21.11			(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2023 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Trifluralin	pt	4.36	Malathion 8E	pt	9.84
Triflurex	pt	3.47	Mustang Max	oz	1.17
Ultra Blazer	pt	7.50	Nuprid 4F	oz	1.04
Valor EZ	oz	5.23	Oberon	oz	3.10
Valor SX	oz	3.20	Orthene 97	lb	11.66
Valor XLT	oz	3.64	Permethrin	oz	0.47
Vamos	pt	6.49	Portal XLO	oz	0.74
Verdict	oz	1.53	Pounce 25WP	lb	19.96
Veritas	pt	7.49	Prevathon	oz	1.16
Villain	pt	5.24	Python WDG	oz	20.19
Volunteer	pt	10.63	Radiant	oz	5.77
Warrant	pt	4.84	Sevin 4F	pt	8.55
XtendiMax	oz	0.44	Sevin XLR Plus	qt	17.53
Zidua SC	oz	6.20	Sivanto Prime	oz	3.36
Zidua WG	oz	8.76	Tempest	oz	1.70
INOCULANT			Tenchu SG	oz	1.13
Inoculant -Soybean	acre	1.55	Transform WG	oz	8.82
Optimize LIFT	oz	0.15	Up-Cyde	oz	0.49
INSECTICIDES			Warrior ZT	oz	3.13
Abamectin .15EC	oz	0.30	Zeal	oz	20.93
Acephate 90%	lb	9.30	IRRIGATION SUPPLIES		
Acephate 90SP	lb	6.62	Roll-Out Pipe	ft	0.24
Admire Pro	oz	1.76	SEED/PLANTS		
Agri-Mek	oz	3.13	Corn Seed BtRR	thous	3.75
Asana .66 XL	oz	0.58	Corn Seed Conv.	thous	2.36
Avenger	oz	0.28	Corn Seed Op Leptra	thous	3.66
Baythroid XL	oz	1.32	Corn Seed RR2	thous	2.93
Belt	oz	6.80	Corn Seed VT2P	thous	2.62
Besiege	oz	2.75	Cot. Seed B3XF/W3FE	thous	2.34
Bidrin 8EC	oz	1.43	Cotton Seed B3XF	thous	2.35
Bifenthrin	oz	1.13	Cotton Seed GLB2	thous	1.59
Bifenture 2EC	oz	0.47	Cotton Seed W3FE	thous	2.32
Brigade EC	pt	20.27	Cotton Seed W3RF	thous	1.31
Capture LFR	oz	1.37	Peanut Seed	lb	0.84
Centric 40WG	oz	5.95	Rice Conv Hyb Trt	lb	6.31
Cypermethrin	oz	1.31	Rice Fullpage Hyb Tr	lb	7.68
Declare	oz	2.03	Rice Seed CF(Levees)	lb	1.14
Diamond .83EC	oz	2.23	Rice Seed Clearfield	lb	1.14
Dimethoate 4E	pt	6.45	Rice Seed Conv.	lb	0.33
Dimilin 2L	oz	1.63	Rice Seed Cv(Levees)	lb	0.33
Endigo	oz	2.10	Rice Seed CvH(Levee)	lb	1.93
Force 3G	lb	7.28	Rice Seed FPH(Levee)	lb	7.68
Hero	oz	1.35	Rice Seed Provisia	lb	1.30
Imidacloprid 4F	oz	1.06	Rice Seed Trt/Insect	lbseed	0.29
Imidan 70 WSB	oz	0.86	Sorghum Concept	lb	2.42
IncidentalPestTrt \$8	acre	8.00	Sorghum Concept+ Po	lb	3.51
IncidentalPestTrt\$15	acre	15.00	Soybean Enlist E3	lb	1.20
IncidentalPestTrt\$22	acre	22.00	Soybean Seed LL	lb	1.16
IncidentalPestTrt\$30	acre	30.00	Soybean Seed RR2	lb	1.16
Intrepid 2F	oz	2.06	Soybean Seed RR2X	lb	1.34
Intruder 70WSP	oz	1.13	Wheat Seed Private	lb	0.38
Lambda	oz	2.08	SOIL TEST		
Lannate LV	pt	8.33	Soil Test	acre	10.00
Macho	oz	1.28	SURVEY & MARK LEVEES		
			Survey & Mark Levees	acre	4.50
			Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2023

ITEM NAME	UNIT	PRICE
dollars		
FUEL TYPES		
Diesel Fuel	gal	4.48
Gasoline	gal	3.19
INTEREST RATES		
Short-term	%	6.40
Intermediate-term	%	6.90

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2023

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	16.54
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, 2023

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '23	6.20	-0.05	6.15	2.35	6.15
Cotton Lint	lb	Dec '23	0.75	-0.011	0.7389	0.52	0.7389
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				5.84	4.09	5.84
Peanuts	ton				575.00	354.89	575.00
Soybeans	bu	Nov '23	13.54	0.12	13.66	6.41	13.66
Rice	bu	Nov '23	6.93	-0.18	6.75	3.21	6.75
Wheat	bu	Jul '23	9.03	0.13	8.90	3.60	8.90

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2022 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 2013 to 2022 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 2022 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2021 Farm-stored Loan Rate for long grain rough rice. National 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Land Plane	50'x16'		1.66	0.36	0.63		0.01	2.66	2.11	4.77
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.37	0.08	0.16		0.02	0.63	0.44	1.07
Roll-Out Pipe	ft	7.92					0.21	8.13		8.13
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.49	0.12	0.44		0.03	1.08	1.10	2.18
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.74	0.18	0.65		0.02	1.59	1.65	3.24
Land Forming (\$450)	each							38.27		38.27
Well & Pump, Furrow	each			2.96			0.08	3.04	10.47	13.51
Main Line Pipe	each							5.79		5.79
Engine, RPF, 75	each							10.48		10.48
June Irrigation	ac-in		12.77	1.40			0.38	14.55		14.55
July Irrigation	ac-in		12.77	1.40			0.30	14.47		14.47
August Irrigation	ac-in		12.77	1.40			0.23	14.40		14.40
TOTALS		7.92	41.57	7.90	4.61	0.00	1.35	63.35	70.31	133.66

Note: Cost of production estimates are based on 2022 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, 2023

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Set Up Engine									
IRRIGATE LABOR	hour				0.27		0.01	0.28	0.28
Maintenance									
IRRIGATE LABOR	hour				1.07		0.03	1.10	1.10
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Apply Water									
IRRIGATE LABOR	hour				0.20			0.20	0.20
Apply Water									
IRRIGATE LABOR	hour				0.15			0.15	0.15
Pivot, 1/4 CP	each			13.48			0.36	13.84	63.13
Well & Pump, 1/4 CP	each			3.50			0.09	3.59	12.41
Engine, 1/4 CP, 65	each								12.42
June Irr. 3app@.75"	ac-in		15.05	1.49			0.44	16.98	16.98
July Irr. 4app@.75"	ac-in		20.07	1.99			0.47	22.53	22.53
Aug Irr. 3app@.75"	ac-in		15.05	1.49			0.26	16.80	16.80
TOTALS		0.00	50.17	21.95	1.84	0.00	1.66	75.62	87.96

Note: Cost of production estimates are based on 2022 input prices.

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