

**NON-DELTA
2023
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2022-06**

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 operations.

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 through 10. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

Net Returns

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these budgets, "RETURNS ABOVE DIRECT EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some items are intentionally left out of these calculations, i.e., costs for land or land rent, taxes, insurance premiums, general farm overhead, and expected incomes from government payments or insurance payments. These costs and incomes vary widely among farms and farm situations so as to make routine calculation for representative situations impractical. These items should, however, be considered by each producer and factored into the final budget each producer develops for his own situation.

Enterprise Budgets

Table 1.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 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 1.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 1.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	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					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 1.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 1.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 1.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 2.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 2.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 2.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 2.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% K20)	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 2.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 2.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 3.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					
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 3.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 3.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 3.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 3.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 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 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	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 4.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 4.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 4.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	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 4.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% K20)	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 4.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 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 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	450.00	lb	-314 -468	-297 -451	-281 -435	-264 -418	-247 -401	-231 -385	-214 -368	-198 -352	-181 -335	-164 -318	-148 -302
60	540.00	lb	-274 -428	-254 -408	-234 -388	-214 -368	-194 -348	-174 -328	-154 -308	-134 -288	-114 -268	-95 -249	-75 -229
70	630.00	lb	-234 -388	-211 -365	-188 -342	-164 -318	-141 -295	-118 -272	-94 -248	-71 -225	-48 -202	-25 -179	-1 -155
80	720.00	lb	-194 -348	-168 -322	-141 -295	-114 -268	-88 -242	-61 -215	-35 -189	-8 -162	18 -135	44 -109	71 -82
90	810.00	lb	-154 -308	-124 -278	-94 -248	-65 -219	-35 -189	-5 -159	24 -129	54 -99	84 -69	114 -39	144 -9
100	900.00	lb	-114 -268	-81 -235	-48 -202	-15 -169	18 -135	51 -102	84 -69	117 -36	151 -2	184 30	217 63
110	990.00	lb	-74 -228	-38 -192	-1 -155	34 -119	71 -82	107 -46	144 -9	181 27	217 63	254 100	290 136
120	1080.00	lb	-35 -189	4 -149	44 -109	84 -69	124 -29	164 10	204 50	244 90	284 130	324 170	363 209
130	1170.00	lb	4 -149	48 -105	91 -62	134 -19	177 23	221 67	264 110	307 153	350 196	393 239	437 283
140	1260.00	lb	44 -109	91 -62	137 -16	184 30	231 77	277 123	324 170	370 216	417 263	463 309	510 356
150	1350.00	lb	84 -69	134 -19	184 30	234 80	284 130	334 180	383 229	433 279	483 329	533 379	583 429

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 5.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 5.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 5.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	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Engenia	oz					12.8000				
Glyphosate 3lbs a.e	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.50	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.02	0.01
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 5.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% 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	15.69
Bed/Disk (Hipper)	12R-38		1.71	0.70	0.74			0.20	3.35	6.43
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.05	1.32	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	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	9.73
Plant - Folding	12R-38		3.43	2.14	1.93			0.24	7.74	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	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	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	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	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	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	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	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	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	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	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
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	24.43
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	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 5.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 5.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 6.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 6.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 6.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	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					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 6.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 6.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 6.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												
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	-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 7.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 7.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 7.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 7.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 7.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 7.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 -500	-349 -483	-332 -467	-315 -450	-299 -433	-282 -417	-265 -400	-249 -383	-232 -367	-215 -350	-199 -334
60	540.00	lb	-325 -460	-305 -440	-285 -420	-265 -400	-245 -380	-225 -360	-206 -340	-186 -320	-166 -300	-146 -280	-126 -260
70	630.00	lb	-285 -420	-262 -397	-239 -373	-215 -350	-192 -327	-169 -304	-146 -280	-122 -257	-99 -234	-76 -210	-53 -187
80	720.00	lb	-245 -380	-219 -353	-192 -327	-166 -300	-139 -274	-112 -247	-86 -220	-59 -194	-33 -167	-6 -141	20 -114
90	810.00	lb	-205 -340	-176 -310	-146 -280	-116 -250	-86 -220	-56 -190	-26 -161	3 -131	33 -101	63 -71	93 -41
100	900.00	lb	-166 -300	-132 -267	-99 -234	-66 -200	-33 -167	0 -134	33 -101	66 -67	99 -34	133 -1	166 31
110	990.00	lb	-126 -260	-89 -224	-52 -187	-16 -150	20 -114	56 -77	93 -41	129 -4	166 31	203 68	239 105
120	1080.00	lb	-86 -220	-46 -180	-6 -140	33 -101	73 -61	113 -21	153 18	193 58	233 98	272 138	312 178
130	1170.00	lb	-46 -180	-3 -137	40 -94	83 -51	126 -7	169 35	213 78	256 121	299 164	342 208	386 251
140	1260.00	lb	-6 -140	40 -94	86 -47	133 -1	179 45	226 91	272 138	319 184	366 231	412 278	459 324
150	1350.00	lb	33 -101	83 -51	133 -1	183 48	233 98	282 148	332 198	382 248	432 297	482 347	532 397

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 8.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					
Tractors	gal	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 8.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 8.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 8.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 8.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 8.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-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										
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 9.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 9.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 9.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	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.6660				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
Clarity	pt					0.5000				
Glyphosate 3lbs a.e	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May		0.04	0.04	0.04	0.03
NT Plant-Folding	12R-38	MFWD 300	0.051	1.00	May		0.05	0.05	0.10	0.04
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun		0.05	0.05	0.07	0.04
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun		0.04	0.04	0.06	0.03
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
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
 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 9.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 9.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 10.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE 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	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 10.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE 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	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 10.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE 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 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			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
 W3FE 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% 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		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 10.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE 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	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	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 10.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE 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	-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.

Table 11.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	4.0000	30.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.8700	43.50	_____
Potash (60% K2O)	cwt	46.60	1.3300	61.98	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	5.31	13.7000	72.75	_____
HERBICIDES					
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Enlist Duo	pt	8.60	3.5000	30.10	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
Prevathon	oz	1.16	14.0000	16.24	_____
Bifenthrin	oz	1.13	6.4000	7.23	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.0720	1.19	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0117	0.19	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	16.52	0.1452	2.40	_____
DIESEL FUEL					
Tractors	gal	4.48	1.1121	4.98	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.1496	0.67	_____
1/2-mi Pivot Irr.	gal	4.48	16.4057	73.50	_____
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_____
Tractors	acre	0.68	1.0000	0.68	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	17.19	1.0000	17.19	_____
TOTAL DIRECT EXPENSES				577.01	_____
FIXED EXPENSES					
Implements	acre	7.83	1.0000	7.83	_____
Tractors	acre	4.84	1.0000	4.84	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	1.46	1.0000	1.46	_____
1/2-mi Pivot Irr.	acre	49.95	1.0000	49.95	_____
TOTAL FIXED EXPENSES				82.34	_____
TOTAL SPECIFIED EXPENSES				659.35	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	50.0000	683.00	_____

TOTAL INCOME				683.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	30.40	1.0000	30.40	_____
FERTILIZERS	acre	105.48	1.0000	105.48	_____
FUNGICIDES	acre	84.96	1.0000	84.96	_____
HERBICIDES	acre	82.81	1.0000	82.81	_____
INSECTICIDES	acre	36.44	1.0000	36.44	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	16.54	0.1689	2.79	_____
UNALLOCATED LABOR	hour	16.52	0.1452	2.40	_____
DIESEL FUEL	gal	4.48	19.0919	85.53	_____
REPAIR & MAINTENANCE	acre	20.86	1.0000	20.86	_____
INTEREST ON OP. CAP.	acre	17.19	1.0000	17.19	_____

TOTAL DIRECT EXPENSES				577.01	_____
RETURNS ABOVE DIRECT EXPENSES				105.99	_____
TOTAL FIXED EXPENSES				82.34	_____

TOTAL SPECIFIED EXPENSES				659.35	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				23.65	_____

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	19.31						1.24	20.55	20.55
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Phosphorus(46% P2O5)	cwt	43.50						2.78	46.28	46.28
Potash (60% K2O)	cwt	61.98						3.97	65.95	65.95
Soybeans Consultant	acre	6.50						0.21	6.71	6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.02			0.23	8.77	8.94
Soybean Enlist E3	lb	53.50						1.43	54.93	54.93
CruiserMaxx Vibrance	oz	12.21						0.33	12.54	12.54
Inoculant -Soybean	acre	1.55						0.04	1.59	1.59
Boundary	pt	23.50						0.63	24.13	24.13
Gramoxone SL 2.0	oz	17.76						0.47	18.23	18.23
Surfactant	pt	1.32						0.04	1.36	1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46
Enlist Duo	pt	30.10						0.64	30.74	30.74
Dual Magnum	pt	11.45						0.24	11.69	11.69
App by Air (5 gal)	appl	7.60						0.12	7.72	7.72
Miravis Top	oz	72.75						1.16	73.91	73.91
Surfactant	pt	0.33						0.01	0.34	0.34
App by Air (5 gal)	appl	7.60						0.12	7.72	7.72
Acephate 90SP	lb	4.97						0.08	5.05	5.05
App by Air (5 gal)	appl	7.60						0.12	7.72	7.72
Prevathon	oz	16.24						0.26	16.50	16.50
Surfactant	pt	0.33						0.01	0.34	0.34
Bifenthrin	oz	7.23						0.12	7.35	7.35
Incidental Pest										
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
IncidentalPestTrt \$8	acre	8.00						0.09	8.09	8.09
Header -Soybean	30' Flex		6.38	5.15	2.62			0.08	14.23	19.97
Haul Soybeans	bu	13.50						0.07	13.57	13.57
Grain Cart Soybean	700 bu		1.47	0.50	0.65			0.01	2.63	2.02
1/2-mi Pivot Irr.	acre		73.50	12.00	0.47			1.89	87.86	49.95
TOTALS		447.26	85.53	20.86	6.17	0.00	17.19	577.01	82.34	659.35

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	683.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.80	7.60	0.00
FERTILIZERS	105.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	72.75	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	41.55	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.44	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	19.31	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	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	0.34	2.06	0.46	0.04	0.00	3.27
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	0.00	25.56	30.07	22.05	0.00	7.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.42	1.11	0.68	0.00	5.65
INTEREST ON OP. CAP.	8.68	0.00	0.00	0.00	0.00	0.00	0.22	4.04	1.56	2.36	0.17	0.16
TOTAL DIRECT EXPENSES	144.30	0.00	0.00	0.00	0.00	0.00	7.06	154.92	74.75	149.78	15.77	30.43
NET INCOME	-144.30	0.00	0.00	0.00	0.00	0.00	-7.06	-154.92	-74.75	-149.78	-15.77	652.57
NET INCOME TO DATE	-144.30	-144.30	-144.30	-144.30	-144.30	-144.30	-151.36	-306.28	-381.03	-530.81	-546.58	105.99

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

			-----PERCENT-----										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			-----PRODUCT PRICE-----										
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-314	-297	-279	-262	-245	-228	-211	-194	-177	-160	-143
			-396	-379	-362	-345	-328	-311	-293	-276	-259	-242	-225
60	30.00	bu	-264	-243	-223	-202	-182	-161	-141	-120	-100	-79	-59
			-346	-326	-305	-285	-264	-244	-223	-203	-182	-162	-141
70	35.00	bu	-214	-190	-166	-142	-118	-94	-70	-47	-23	0	24
			-296	-272	-248	-224	-201	-177	-153	-129	-105	-81	-57
80	40.00	bu	-164	-137	-109	-82	-55	-27	-0	26	54	81	108
			-246	-219	-192	-164	-137	-110	-82	-55	-28	-0	26
90	45.00	bu	-114	-83	-53	-22	8	39	69	100	131	161	192
			-196	-166	-135	-104	-74	-43	-12	18	48	79	110
100	50.00	bu	-64	-30	3	37	71	105	140	174	208	242	276
			-147	-112	-78	-44	-10	23	57	91	126	160	194
110	55.00	bu	-14	22	60	97	135	172	210	248	285	323	360
			-97	-59	-22	15	53	90	128	165	203	240	278
120	60.00	bu	34	75	116	157	198	239	280	321	362	403	444
			-47	-6	34	75	116	157	198	239	280	321	362
130	65.00	bu	84	129	173	218	262	306	351	395	440	484	528
			2	46	91	135	180	224	268	313	357	402	446
140	70.00	bu	134	182	230	278	325	373	421	469	517	565	612
			52	100	147	195	243	291	339	387	434	482	530
150	75.00	bu	184	235	287	338	389	440	491	543	594	645	696
			102	153	204	255	307	358	409	460	512	563	614

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
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-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	2.0000	15.20	_____
HARVEST AIDS					
Gramoxone SL	oz	0.37	16.0000	5.92	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.6600	33.00	_____
Potash (60% K2O)	cwt	46.60	1.0000	46.60	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	64.0000	21.76	_____
2,4-D Amine 4	pt	3.33	2.0000	6.66	_____
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Enlist Duo	pt	8.60	3.5000	30.10	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.1764	2.92	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0352	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
	hour	16.47	0.2671	4.40	_____
DIESEL FUEL					
Tractors	gal	4.48	2.7243	12.21	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.4490	2.01	_____
REPAIR & MAINTENANCE					
Implements	acre	5.55	1.0000	5.55	_____
Tractors	acre	1.67	1.0000	1.67	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.60	1.0000	0.60	_____
INTEREST ON OP. CAP.	acre	14.55	1.0000	14.55	_____
TOTAL DIRECT EXPENSES				389.86	_____
FIXED EXPENSES					
Implements	acre	13.69	1.0000	13.69	_____
Tractors	acre	11.85	1.0000	11.85	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	4.38	1.0000	4.38	_____
TOTAL FIXED EXPENSES				48.18	_____
TOTAL SPECIFIED EXPENSES				438.04	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	43.0000	587.38	_____

TOTAL INCOME				587.38	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.20	1.0000	15.20	_____
HARVEST AIDS	acre	5.92	1.0000	5.92	_____
FERTILIZERS	acre	79.60	1.0000	79.60	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	111.23	1.0000	111.23	_____
INSECTICIDES	acre	4.97	1.0000	4.97	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0647	0.58	_____
OPERATOR LABOR	hour	16.54	0.2968	4.90	_____
UNALLOCATED LABOR	hour	16.47	0.2671	4.40	_____
DIESEL FUEL	gal	4.48	4.5978	20.60	_____
REPAIR & MAINTENANCE	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	14.55	1.0000	14.55	_____

TOTAL DIRECT EXPENSES				389.86	_____
RETURNS ABOVE DIRECT EXPENSES				197.52	_____
TOTAL FIXED EXPENSES				48.18	_____

TOTAL SPECIFIED EXPENSES				438.04	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				149.34	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	16R-30	MFWD 300	0.047	1.00	Apr		0.04	0.04	0.09	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.29	0.26	0.36	0.26

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
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	19.31						1.24	20.55	20.55
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Phosphorus(46% P2O5)	cwt	33.00						2.11	35.11	35.11
Potash (60% K2O)	cwt	46.60						2.98	49.58	49.58
Disk Harrow	32'		4.25	1.97	1.93			0.52	8.67	7.45 16.12
Field Cultivate Fld	32'		3.23	1.13	1.46			0.37	6.19	6.44 12.63
App by Air (5 gal)	appl	7.60						0.28	7.88	7.88
Glyphosate 3lbs a.e	oz	10.88						0.41	11.29	11.29
2,4-D Amine 4	pt	6.66						0.25	6.91	6.91
Plant - Folding	16R-30		3.26	2.62	1.91			0.25	8.04	7.92 15.96
Soybean Enlist E3	lb	53.50						1.71	55.21	55.21
CruiserMaxx Vibrance	oz	12.21						0.39	12.60	12.60
Boundary	pt	23.50						0.75	24.25	24.25
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Surfactant	pt	1.32						0.04	1.36	1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46 2.77
Enlist Duo	pt	30.10						0.80	30.90	30.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Soybeans Consultant	acre	6.50						0.17	6.67	6.67
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46 2.77
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.01	1.29	1.46 2.75
Acephate 90SP	lb	4.97						0.05	5.02	5.02
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Gramoxone SL	oz	5.92						0.06	5.98	5.98
Surfactant	pt	0.66						0.01	0.67	0.67
Header -Soybean	30' Flex		6.38	5.15	2.68			0.08	14.29	19.97 34.26
Haul Soybeans	bu	11.61						0.06	11.67	11.67
Grain Cart Soybean	700 bu		1.47	0.50	0.67			0.01	2.65	2.02 4.67
TOTALS		332.86	20.60	11.97	9.88	0.00	14.55	389.86	48.18	438.04

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	587.38
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	7.60	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.00
FERTILIZERS	79.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	17.54	41.26	52.43	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	19.31	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	0.00	6.50	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	3.39	0.00	0.00	0.00	0.00	0.00	1.91	0.82	0.00	0.00	0.41	3.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.48	0.00	0.00	0.00	0.00	0.00	3.26	1.34	0.00	0.00	0.67	7.85
REPAIR & MAINTENANCE	3.10	0.00	0.00	0.00	0.00	0.00	2.62	0.40	0.00	0.00	0.20	5.65
INTEREST ON OP. CAP.	7.91	0.00	0.00	0.00	0.00	0.94	3.71	1.63	0.00	0.00	0.21	0.15
TOTAL DIRECT EXPENSES	131.62	0.00	0.00	0.00	0.00	26.08	119.79	63.12	0.00	0.00	20.64	28.61
NET INCOME	-131.62	0.00	0.00	0.00	0.00	-26.08	-119.79	-63.12	0.00	0.00	-20.64	558.77
NET INCOME TO DATE	-131.62	-131.62	-131.62	-131.62	-131.62	-157.70	-277.49	-340.61	-340.61	-340.61	-361.25	197.52

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, April planted, 16R30"
 Non-Delta Area, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-163	-149	-134	-119	-105	-90	-75	-60	-46	-31	-16
			-211	-197	-182	-167	-153	-138	-123	-109	-94	-79	-65
60	25.80	bu	-120	-103	-85	-68	-50	-32	-15	2	20	37	55
			-169	-151	-133	-116	-98	-80	-63	-45	-28	-10	7
70	30.10	bu	-77	-57	-36	-16	4	24	45	65	86	107	127
			-126	-105	-85	-64	-43	-23	-2	17	38	58	79
80	34.40	bu	-35	-11	11	35	58	82	105	129	152	176	199
			-83	-59	-36	-12	10	34	57	81	104	128	151
90	38.70	bu	7	34	60	87	113	139	166	192	219	245	272
			-40	-13	12	38	65	91	118	144	171	197	223
100	43.00	bu	50	80	109	138	168	197	226	256	285	314	344
			2	31	61	90	119	149	178	208	237	266	296
110	47.30	bu	93	125	158	190	222	255	287	319	352	384	416
			45	77	109	142	174	206	239	271	303	336	368
120	51.60	bu	136	171	206	242	277	312	347	383	418	453	488
			88	123	158	193	229	264	299	334	370	405	440
130	55.90	bu	179	217	255	293	332	370	408	446	484	522	561
			131	169	207	245	283	322	360	398	436	474	512
140	60.20	bu	222	263	304	345	386	427	468	510	551	592	633
			174	215	256	297	338	379	420	461	502	544	585
150	64.50	bu	265	309	353	397	441	485	529	573	617	661	705
			216	260	305	349	393	437	481	525	569	613	657

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
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-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	1.0000	7.60	_____
HARVEST AIDS					
Gramoxone SL	oz	0.37	16.0000	5.92	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.6600	33.00	_____
Potash (60% K2O)	cwt	46.60	1.0000	46.60	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	64.0000	21.76	_____
Select Max	pt	13.86	1.0000	13.86	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.37	96.0000	35.52	_____
Boundary	pt	11.75	2.0000	23.50	_____
Enlist Duo	pt	8.60	3.5000	30.10	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	1.13	1.0500	1.19	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.2407	3.98	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0587	0.96	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
	hour	16.49	0.3461	5.71	_____
DIESEL FUEL					
Tractors	gal	4.48	3.7171	16.66	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.7484	3.36	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	2.28	1.0000	2.28	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	1.00	1.0000	1.00	_____
INTEREST ON OP. CAP.	acre	12.56	1.0000	12.56	_____
TOTAL DIRECT EXPENSES				442.88	_____
FIXED EXPENSES					
Implements	acre	16.27	1.0000	16.27	_____
Tractors	acre	16.16	1.0000	16.16	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	7.30	1.0000	7.30	_____
TOTAL FIXED EXPENSES				57.99	_____
TOTAL SPECIFIED EXPENSES				500.87	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	40.0000	546.40	_____

TOTAL INCOME				546.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.60	1.0000	7.60	_____
HARVEST AIDS	acre	5.92	1.0000	5.92	_____
FERTILIZERS	acre	79.60	1.0000	79.60	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	163.32	1.0000	163.32	_____
INSECTICIDES	acre	2.82	1.0000	2.82	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0801	0.72	_____
OPERATOR LABOR	hour	16.54	0.3846	6.35	_____
UNALLOCATED LABOR	hour	16.49	0.3461	5.71	_____
DIESEL FUEL	gal	4.48	5.8899	26.40	_____
REPAIR & MAINTENANCE	acre	13.94	1.0000	13.94	_____
INTEREST ON OP. CAP.	acre	12.56	1.0000	12.56	_____

TOTAL DIRECT EXPENSES				442.88	_____
RETURNS ABOVE DIRECT EXPENSES				103.52	_____
TOTAL FIXED EXPENSES				57.99	_____

TOTAL SPECIFIED EXPENSES				500.87	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				45.53	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.01
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Jul			0.00	0.00	0.00
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Aug			0.00	0.00	0.00
Bifenthrin	oz					1.0500				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.38	0.32	0.46	0.34

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
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						0.02	3.35		3.35
Lime (Spread)	ton	19.31						0.10	19.41		19.41
Disk Harrow	32'		4.25	1.97	1.93			0.04	8.19	7.45	15.64
Field Cultivate Fld	32'		3.23	1.13	1.46			0.03	5.85	6.44	12.29
Bed/Lister-Roll-Fo	16R-30		4.20	1.18	1.90			0.04	7.32	5.87	13.19
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.06	1.34	1.46	2.80
Glyphosate 3lbs a.e	oz	10.88						0.52	11.40		11.40
Select Max	pt	13.86						0.67	14.53		14.53
Surfactant	pt	1.32						0.06	1.38		1.38
Custom Apply Fert	acre	7.50						0.28	7.78		7.78
Phosphorus (46% P2O5)	cwt	33.00						1.23	34.23		34.23
Potash (60% K2O)	cwt	46.60						1.74	48.34		48.34
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.05	1.33	1.46	2.79
Fierce	oz	27.13						1.01	28.14		28.14
Gramoxone SL 2.0	oz	17.76						0.66	18.42		18.42
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.21	6.71		6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.06			0.27	8.85	8.94	17.79
Soybean Enlist E3	lb	53.50						1.71	55.21		55.21
CruiserMaxx Vibrance	oz	12.21						0.39	12.60		12.60
Boundary	pt	23.50						0.75	24.25		24.25
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Surfactant	pt	1.32						0.04	1.36		1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.04	1.32	1.46	2.78
Enlist Duo	pt	30.10						0.96	31.06		31.06
Dual Magnum	pt	11.45						0.37	11.82		11.82
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46	2.77
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17		11.17
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.22			0.01	0.67	0.73	1.40
Dimilin 2L	oz	1.63						0.03	1.66		1.66
Surfactant	pt	0.17							0.17		0.17
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.22			0.01	0.67	0.73	1.40
Bifenthrin	oz	1.19						0.02	1.21		1.21
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Gramoxone SL	oz	5.92						0.06	5.98		5.98
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		6.38	5.15	2.68			0.08	14.29	19.97	34.26
Haul Soybeans	bu	10.80						0.06	10.86		10.86
Grain Cart Soybean	700 bu		1.47	0.50	0.67			0.01	2.65	2.02	4.67
TOTALS		377.20	26.40	13.94	12.78	0.00	12.56	442.88	57.99	500.87	

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
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	546.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	79.60	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	24.74	0.00	44.89	82.81	10.88	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.31
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.41	0.00	0.41	2.47	0.41	0.22	0.22	0.00	8.64
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	0.67	0.00	0.67	4.18	0.67	0.34	0.34	0.00	19.53
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.20	0.00	0.20	3.21	0.20	0.10	0.10	0.00	9.93
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.31	0.00	5.02	5.31	0.32	0.04	0.03	0.15	0.38
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	28.65	0.00	139.61	171.51	12.48	2.50	1.88	14.33	71.92
NET INCOME	0.00	0.00	0.00	-28.65	0.00	-139.61	-171.51	-12.48	-2.50	-1.88	-14.33	474.48
NET INCOME TO DATE	0.00	0.00	0.00	-28.65	-28.65	-168.26	-339.77	-352.25	-354.75	-356.63	-370.96	103.52

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, May planted, 16R30"
 Non-Delta Area, Mississippi, 2023

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE-----										
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	-----dollars-----										
50	20.00	bu	-232	-218	-205	-191	-177	-164	-150	-136	-123	-109	-95
			-290	-276	-263	-249	-235	-222	-208	-194	-181	-167	-153
60	24.00	bu	-192	-176	-159	-143	-127	-110	-94	-77	-61	-45	-28
			-250	-234	-217	-201	-185	-168	-152	-135	-119	-103	-86
70	28.00	bu	-152	-133	-114	-95	-76	-57	-38	-18	0	19	38
			-210	-191	-172	-153	-134	-115	-96	-76	-57	-38	-19
80	32.00	bu	-112	-91	-69	-47	-25	-3	18	40	61	83	105
			-170	-149	-127	-105	-83	-61	-39	-17	3	25	47
90	36.00	bu	-72	-48	-23	0	25	49	74	99	123	148	172
			-130	-106	-81	-57	-32	-8	16	41	65	90	114
100	40.00	bu	-33	-5	21	48	76	103	130	158	185	212	240
			-91	-63	-36	-9	18	45	72	100	127	154	182
110	44.00	bu	6	36	66	96	127	157	187	217	247	277	307
			-51	-21	8	38	69	99	129	159	189	219	249
120	48.00	bu	46	79	112	145	177	210	243	276	308	341	374
			-11	21	54	87	119	152	185	218	250	283	316
130	52.00	bu	86	122	157	193	228	264	299	335	370	406	441
			28	64	99	135	170	206	241	277	312	348	383
140	56.00	bu	126	164	202	241	279	317	355	394	432	470	508
			68	106	145	183	221	259	297	336	374	412	450
150	60.00	bu	166	207	248	289	330	371	412	453	494	535	576
			108	149	190	231	272	313	354	395	436	477	518

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
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	3.0000	22.80	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.8700	43.50	_____
Potash (60% K2O)	cwt	46.60	1.3300	61.98	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Enlist Duo	pt	8.60	3.5000	30.10	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
Prevathon	oz	1.16	14.0000	16.24	_____
Bifenthrin	oz	1.13	6.4000	7.23	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.0720	1.19	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0117	0.19	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	16.52	0.1452	2.40	_____
DIESEL FUEL					
Tractors	gal	4.48	1.1121	4.98	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.1496	0.67	_____
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_____
Tractors	acre	0.68	1.0000	0.68	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	13.98	1.0000	13.98	_____
TOTAL DIRECT EXPENSES				400.40	_____
FIXED EXPENSES					
Implements	acre	7.83	1.0000	7.83	_____
Tractors	acre	4.84	1.0000	4.84	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	1.46	1.0000	1.46	_____
TOTAL FIXED EXPENSES				32.39	_____
TOTAL SPECIFIED EXPENSES				432.79	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	25.0000	341.50	_____

TOTAL INCOME				341.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.80	1.0000	22.80	_____
FERTILIZERS	acre	105.48	1.0000	105.48	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	82.81	1.0000	82.81	_____
INSECTICIDES	acre	36.44	1.0000	36.44	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	16.54	0.1689	2.79	_____
UNALLOCATED LABOR	hour	16.52	0.1452	2.40	_____
DIESEL FUEL	gal	4.48	2.6861	12.03	_____
REPAIR & MAINTENANCE	acre	8.86	1.0000	8.86	_____
INTEREST ON OP. CAP.	acre	13.98	1.0000	13.98	_____

TOTAL DIRECT EXPENSES				400.40	_____
RETURNS ABOVE DIRECT EXPENSES				-58.90	_____
TOTAL FIXED EXPENSES				32.39	_____

TOTAL SPECIFIED EXPENSES				432.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-91.29	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Non-irrigated, All Areas, 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	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, 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	19.31						1.24	20.55		20.55
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Phosphorus(46% P2O5)	cwt	43.50						2.78	46.28		46.28
Potash (60% K2O)	cwt	61.98						3.97	65.95		65.95
Soybeans Consultant	acre	6.50						0.21	6.71		6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.02			0.23	8.77	8.94	17.71
Soybean Enlist E3	lb	53.50						1.43	54.93		54.93
CruiserMaxx Vibrance	oz	12.21						0.33	12.54		12.54
Inoculant -Soybean	acre	1.55						0.04	1.59		1.59
Boundary	pt	23.50						0.63	24.13		24.13
Gramoxone SL 2.0	oz	17.76						0.47	18.23		18.23
Surfactant	pt	1.32						0.04	1.36		1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46	2.77
Enlist Duo	pt	30.10						0.64	30.74		30.74
Dual Magnum	pt	11.45						0.24	11.69		11.69
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Acephate 90SP	lb	4.97						0.08	5.05		5.05
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Prevathon	oz	16.24						0.26	16.50		16.50
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	7.23						0.12	7.35		7.35
Incidental Pest											
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
IncidentalPestTrt \$8	acre	8.00						0.09	8.09		8.09
Header -Soybean	30' Flex		6.38	5.15	2.62			0.08	14.23	19.97	34.20
Haul Soybeans	bu	6.75						0.04	6.79		6.79
Grain Cart Soybean	700 bu		1.47	0.50	0.65			0.01	2.63	2.02	4.65
TOTALS		359.83	12.03	8.86	5.70	0.00	13.98	400.40	32.39	432.79	

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, 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	341.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.20	7.60	0.00
FERTILIZERS	105.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	41.55	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.44	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	19.31	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	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	0.00	2.02	0.41	0.00	0.00	3.27
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	0.00	3.51	0.67	0.00	0.00	7.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01	0.20	0.00	0.00	5.65
INTEREST ON OP. CAP.	8.68	0.00	0.00	0.00	0.00	0.00	0.21	3.17	0.91	0.71	0.17	0.13
TOTAL DIRECT EXPENSES	144.30	0.00	0.00	0.00	0.00	0.00	6.71	121.55	43.74	44.68	15.77	23.65
NET INCOME	-144.30	0.00	0.00	0.00	0.00	0.00	-6.71	-121.55	-43.74	-44.68	-15.77	317.85
NET INCOME TO DATE	-144.30	-144.30	-144.30	-144.30	-144.30	-144.30	-151.01	-272.56	-316.30	-360.98	-376.75	-58.90

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Non-irrigated, All Areas, Mississippi, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-268 -301	-260 -292	-251 -284	-243 -275	-234 -267	-226 -258	-217 -250	-209 -241	-200 -233	-192 -224	-183 -215
60	15.00	bu	-244 -276	-233 -266	-223 -255	-213 -245	-203 -235	-192 -225	-182 -214	-172 -204	-162 -194	-151 -184	-141 -173
70	17.50	bu	-219 -251	-207 -239	-195 -227	-183 -215	-171 -203	-159 -191	-147 -179	-135 -167	-123 -155	-111 -143	-99 -131
80	20.00	bu	-194 -226	-180 -212	-166 -199	-153 -185	-139 -171	-125 -158	-112 -144	-98 -130	-84 -117	-71 -103	-57 -89
90	22.50	bu	-169 -201	-153 -186	-138 -170	-123 -155	-107 -140	-92 -124	-77 -109	-61 -94	-46 -78	-30 -63	-15 -47
100	25.00	bu	-144 -176	-127 -159	-110 -142	-93 -125	-75 -108	-58 -91	-41 -74	-24 -57	-7 -40	9 -22	26 -5
110	27.50	bu	-119 -151	-100 -132	-81 -114	-62 -95	-44 -76	-25 -57	-6 -39	12 -20	30 -1	49 17	68 36
120	30.00	bu	-94 -126	-73 -106	-53 -85	-32 -65	-12 -44	8 -24	28 -3	49 16	69 37	90 57	110 78
130	32.50	bu	-69 -101	-47 -79	-25 -57	-2 -35	19 -13	41 9	63 31	85 53	108 75	130 97	152 120
140	35.00	bu	-44 -76	-20 -53	3 -29	27 -5	51 18	74 42	98 66	122 90	146 114	170 138	194 162
150	37.50	bu	-19 -51	6 -26	31 -0	57 24	82 50	108 76	134 101	159 127	185 152	210 178	236 204

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
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	4.0000	30.40	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.8700	43.50	_____
Potash (60% K2O)	cwt	46.60	1.3300	61.98	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	5.31	13.7000	72.75	_____
HERBICIDES					
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Engenia	oz	0.83	12.8000	10.62	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
Prevathon	oz	1.16	14.0000	16.24	_____
Bifenthrin	oz	1.13	6.4000	7.23	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.0720	1.19	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0117	0.19	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	16.52	0.1452	2.40	_____
DIESEL FUEL					
Tractors	gal	4.48	1.1121	4.98	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.1496	0.67	_____
1/2-mi Pivot Irr.	gal	4.48	16.4057	73.50	_____
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_____
Tractors	acre	0.68	1.0000	0.68	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	17.11	1.0000	17.11	_____
TOTAL DIRECT EXPENSES				572.33	_____
FIXED EXPENSES					
Implements	acre	7.83	1.0000	7.83	_____
Tractors	acre	4.84	1.0000	4.84	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	1.46	1.0000	1.46	_____
1/2-mi Pivot Irr.	acre	49.95	1.0000	49.95	_____
TOTAL FIXED EXPENSES				82.34	_____
TOTAL SPECIFIED EXPENSES				654.67	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	50.0000	683.00	_____

TOTAL INCOME				683.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	30.40	1.0000	30.40	_____
FERTILIZERS	acre	105.48	1.0000	105.48	_____
FUNGICIDES	acre	84.96	1.0000	84.96	_____
HERBICIDES	acre	74.21	1.0000	74.21	_____
INSECTICIDES	acre	36.44	1.0000	36.44	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	16.54	0.1689	2.79	_____
UNALLOCATED LABOR	hour	16.52	0.1452	2.40	_____
DIESEL FUEL	gal	4.48	19.0919	85.53	_____
REPAIR & MAINTENANCE	acre	20.86	1.0000	20.86	_____
INTEREST ON OP. CAP.	acre	17.11	1.0000	17.11	_____

TOTAL DIRECT EXPENSES				572.33	_____
RETURNS ABOVE DIRECT EXPENSES				110.67	_____
TOTAL FIXED EXPENSES				82.34	_____

TOTAL SPECIFIED EXPENSES				654.67	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				28.33	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	19.31						1.24	20.55		20.55
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Phosphorus(46% P2O5)	cwt	43.50						2.78	46.28		46.28
Potash (60% K2O)	cwt	61.98						3.97	65.95		65.95
Soybeans Consultant	acre	6.50						0.21	6.71		6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.02			0.23	8.77	8.94	17.71
Soybean Seed RR2X	lb	57.50						1.53	59.03		59.03
CruiserMaxx Vibrance	oz	12.21						0.33	12.54		12.54
Inoculant -Soybean	acre	1.55						0.04	1.59		1.59
Boundary	pt	23.50						0.63	24.13		24.13
Gramoxone SL 2.0	oz	17.76						0.47	18.23		18.23
Surfactant	pt	1.32						0.04	1.36		1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46	2.77
Glyphosate 3lbs a.e	oz	10.88						0.23	11.11		11.11
Engenia	oz	10.62						0.23	10.85		10.85
Dual Magnum	pt	11.45						0.24	11.69		11.69
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Miravis Top	oz	72.75						1.16	73.91		73.91
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Acephate 90SP	lb	4.97						0.08	5.05		5.05
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Prevathon	oz	16.24						0.26	16.50		16.50
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	7.23						0.12	7.35		7.35
Incidental Pest											
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
IncidentalPestTrt \$8	acre	8.00						0.09	8.09		8.09
Header -Soybean	30' Flex		6.38	5.15	2.62			0.08	14.23	19.97	34.20
Haul Soybeans	bu	13.50						0.07	13.57		13.57
Grain Cart Soybean	700 bu		1.47	0.50	0.65			0.01	2.63	2.02	4.65
1/2-mi Pivot Irr.	acre		73.50	12.00	0.47			1.89	87.86	49.95	137.81
TOTALS		442.66	85.53	20.86	6.17	0.00	17.11	572.33	82.34	654.67	

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, 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	683.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.80	7.60	0.00
FERTILIZERS	105.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	72.75	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	32.95	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.44	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	19.31	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	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	0.34	2.06	0.46	0.04	0.00	3.27
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	0.00	25.56	30.07	22.05	0.00	7.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.42	1.11	0.68	0.00	5.65
INTEREST ON OP. CAP.	8.68	0.00	0.00	0.00	0.00	0.00	0.22	4.14	1.38	2.36	0.17	0.16
TOTAL DIRECT EXPENSES	144.30	0.00	0.00	0.00	0.00	0.00	7.06	159.02	65.97	149.78	15.77	30.43
NET INCOME	-144.30	0.00	0.00	0.00	0.00	0.00	-7.06	-159.02	-65.97	-149.78	-15.77	652.57
NET INCOME TO DATE	-144.30	-144.30	-144.30	-144.30	-144.30	-144.30	-151.36	-310.38	-376.35	-526.13	-541.90	110.67

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	-----dollars-----										
50	25.00	bu	-309	-292	-275	-258	-241	-224	-206	-189	-172	-155	-138
			-391	-374	-357	-340	-323	-306	-289	-272	-255	-238	-221
60	30.00	bu	-259	-239	-218	-198	-177	-157	-136	-116	-95	-75	-54
			-341	-321	-300	-280	-259	-239	-218	-198	-177	-157	-136
70	35.00	bu	-209	-185	-161	-137	-114	-90	-66	-42	-18	5	29
			-292	-268	-244	-220	-196	-172	-148	-124	-100	-76	-52
80	40.00	bu	-159	-132	-105	-77	-50	-23	4	31	58	86	113
			-242	-214	-187	-160	-132	-105	-78	-50	-23	3	31
90	45.00	bu	-109	-79	-48	-17	12	43	74	105	135	166	197
			-192	-161	-130	-100	-69	-38	-7	22	53	84	115
100	50.00	bu	-60	-25	8	42	76	110	144	178	213	247	281
			-142	-108	-74	-39	-5	28	62	96	130	164	199
110	55.00	bu	-10	27	64	102	140	177	215	252	290	327	365
			-92	-54	-17	20	57	95	132	170	207	245	283
120	60.00	bu	39	80	121	162	203	244	285	326	367	408	449
			-42	-1	39	80	121	162	203	244	285	326	367
130	65.00	bu	89	133	178	222	267	311	355	400	444	489	533
			7	51	95	140	184	229	273	317	362	406	451
140	70.00	bu	139	187	235	282	330	378	426	474	521	569	617
			57	104	152	200	248	296	343	391	439	487	535
150	75.00	bu	189	240	291	342	394	445	496	547	599	650	701
			106	158	209	260	311	363	414	465	516	567	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 16.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-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	2.0000	15.20	_____
HARVEST AIDS					
Gramoxone SL	oz	0.37	16.0000	5.92	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.6600	33.00	_____
Potash (60% K2O)	cwt	46.60	1.0000	46.60	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
2,4-D Amine 4	pt	3.33	2.0000	6.66	_____
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Engenia	oz	0.83	12.8000	10.62	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.1764	2.92	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0352	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
	hour	16.47	0.2671	4.40	_____
DIESEL FUEL					
Tractors	gal	4.48	2.7243	12.21	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.4490	2.01	_____
REPAIR & MAINTENANCE					
Implements	acre	5.55	1.0000	5.55	_____
Tractors	acre	1.67	1.0000	1.67	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.60	1.0000	0.60	_____
INTEREST ON OP. CAP.	acre	14.45	1.0000	14.45	_____
TOTAL DIRECT EXPENSES				385.16	_____
FIXED EXPENSES					
Implements	acre	13.69	1.0000	13.69	_____
Tractors	acre	11.85	1.0000	11.85	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	4.38	1.0000	4.38	_____
TOTAL FIXED EXPENSES				48.18	_____
TOTAL SPECIFIED EXPENSES				433.34	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	43.0000	587.38	_____

TOTAL INCOME				587.38	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.20	1.0000	15.20	_____
HARVEST AIDS	acre	5.92	1.0000	5.92	_____
FERTILIZERS	acre	79.60	1.0000	79.60	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	102.63	1.0000	102.63	_____
INSECTICIDES	acre	4.97	1.0000	4.97	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0647	0.58	_____
OPERATOR LABOR	hour	16.54	0.2968	4.90	_____
UNALLOCATED LABOR	hour	16.47	0.2671	4.40	_____
DIESEL FUEL	gal	4.48	4.5978	20.60	_____
REPAIR & MAINTENANCE	acre	11.97	1.0000	11.97	_____
INTEREST ON OP. CAP.	acre	14.45	1.0000	14.45	_____

TOTAL DIRECT EXPENSES				385.16	_____
RETURNS ABOVE DIRECT EXPENSES				202.22	_____
TOTAL FIXED EXPENSES				48.18	_____

TOTAL SPECIFIED EXPENSES				433.34	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				154.04	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	16R-30	MFWD 300	0.047	1.00	Apr		0.04	0.04	0.09	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.29	0.26	0.36	0.26

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
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	19.31						1.24	20.55	20.55
Custom Apply Fert	acre	7.50						0.48	7.98	7.98
Phosphorus(46% P2O5)	cwt	33.00						2.11	35.11	35.11
Potash (60% K2O)	cwt	46.60						2.98	49.58	49.58
Disk Harrow	32'		4.25	1.97	1.93			0.52	8.67	7.45
Field Cultivate Fld	32'		3.23	1.13	1.46			0.37	6.19	6.44
App by Air (5 gal)	appl	7.60						0.28	7.88	7.88
Glyphosate 3lbs a.e	oz	10.88						0.41	11.29	11.29
2,4-D Amine 4	pt	6.66						0.25	6.91	6.91
Plant - Folding	16R-30		3.26	2.62	1.91			0.25	8.04	7.92
Soybean Seed RR2X	lb	57.50						1.84	59.34	59.34
CruiserMaxx Vibrance	oz	12.21						0.39	12.60	12.60
Boundary	pt	23.50						0.75	24.25	24.25
Gramoxone SL 2.0	oz	17.76						0.57	18.33	18.33
Surfactant	pt	1.32						0.04	1.36	1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Engenia	oz	10.62						0.28	10.90	10.90
Dual Magnum	pt	11.45						0.31	11.76	11.76
Soybeans Consultant	acre	6.50						0.17	6.67	6.67
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17	11.17
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.01	1.29	1.46
Acephate 90SP	lb	4.97						0.05	5.02	5.02
App by Air (5 gal)	appl	7.60						0.08	7.68	7.68
Gramoxone SL	oz	5.92						0.06	5.98	5.98
Surfactant	pt	0.66						0.01	0.67	0.67
Header -Soybean	30' Flex		6.38	5.15	2.68			0.08	14.29	19.97
Haul Soybeans	bu	11.61						0.06	11.67	11.67
Grain Cart Soybean	700 bu		1.47	0.50	0.67			0.01	2.65	2.02
TOTALS		328.26	20.60	11.97	9.88	0.00	14.45	385.16	48.18	433.34

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	587.38
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	7.60	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.00
FERTILIZERS	79.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	17.54	41.26	43.83	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	19.31	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	0.00	6.50	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	3.39	0.00	0.00	0.00	0.00	0.00	1.91	0.82	0.00	0.00	0.41	3.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.48	0.00	0.00	0.00	0.00	0.00	3.26	1.34	0.00	0.00	0.67	7.85
REPAIR & MAINTENANCE	3.10	0.00	0.00	0.00	0.00	0.00	2.62	0.40	0.00	0.00	0.20	5.65
INTEREST ON OP. CAP.	7.91	0.00	0.00	0.00	0.00	0.94	3.84	1.40	0.00	0.00	0.21	0.15
TOTAL DIRECT EXPENSES	131.62	0.00	0.00	0.00	0.00	26.08	123.92	54.29	0.00	0.00	20.64	28.61
NET INCOME	-131.62	0.00	0.00	0.00	0.00	-26.08	-123.92	-54.29	0.00	0.00	-20.64	558.77
NET INCOME TO DATE	-131.62	-131.62	-131.62	-131.62	-131.62	-157.70	-281.62	-335.91	-335.91	-335.91	-356.55	202.22

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, April planted, 16R 30"
 Non-Delta Area, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07		
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-159 -207	-144 -192	-129 -177	-115 -163	-100 -148	-85 -133	-70 -119	-56 -104	-41 -89	-26 -75	-12 -60
60	25.80	bu	-116 -164	-98 -146	-80 -129	-63 -111	-45 -93	-28 -76	-10 -58	7 -41	24 -23	42 -5	60 11
70	30.10	bu	-73 -121	-52 -100	-32 -80	-11 -59	8 -39	29 -18	50 1	70 22	91 43	111 63	132 84
80	34.40	bu	-30 -78	-6 -55	16 -31	40 -8	63 15	87 38	110 62	134 85	157 109	181 132	204 156
90	38.70	bu	12 -35	38 -9	65 17	91 43	118 70	144 96	171 122	197 149	223 175	250 202	276 228
100	43.00	bu	55 7	84 36	114 65	143 95	172 124	202 154	231 183	260 212	290 242	319 271	349 300
110	47.30	bu	98 50	130 82	162 114	195 146	227 179	259 211	292 243	324 276	356 308	389 340	421 373
120	51.60	bu	141 92	176 128	211 163	246 198	282 233	317 269	352 304	387 339	423 374	458 410	493 445
130	55.90	bu	184 135	222 174	260 212	298 250	336 288	374 326	413 364	451 403	489 441	527 479	565 517
140	60.20	bu	226 178	268 219	309 260	350 302	391 343	432 384	473 425	514 466	555 507	596 548	638 589
150	64.50	bu	269 221	313 265	357 309	401 353	446 397	490 441	534 485	578 530	622 574	666 618	710 662

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
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-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	1.0000	7.60	_____
HARVEST AIDS					
Gramoxone SL	oz	0.37	16.0000	5.92	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	50.00	0.6600	33.00	_____
Potash (60% K2O)	cwt	46.60	1.0000	46.60	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	96.0000	32.64	_____
Select Max	pt	13.86	1.0000	13.86	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.37	96.0000	35.52	_____
Boundary	pt	11.75	2.0000	23.50	_____
Engenia	oz	0.83	12.8000	10.62	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	1.13	1.0500	1.19	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.2407	3.98	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0587	0.96	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
	hour	16.49	0.3461	5.71	_____
DIESEL FUEL					
Tractors	gal	4.48	3.7171	16.66	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.7484	3.36	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	2.28	1.0000	2.28	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	1.00	1.0000	1.00	_____
INTEREST ON OP. CAP.	acre	12.42	1.0000	12.42	_____
TOTAL DIRECT EXPENSES				438.14	_____
FIXED EXPENSES					
Implements	acre	16.27	1.0000	16.27	_____
Tractors	acre	16.16	1.0000	16.16	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	7.30	1.0000	7.30	_____
TOTAL FIXED EXPENSES				57.99	_____
TOTAL SPECIFIED EXPENSES				496.13	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	40.0000	546.40	_____

TOTAL INCOME				546.40	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.60	1.0000	7.60	_____
HARVEST AIDS	acre	5.92	1.0000	5.92	_____
FERTILIZERS	acre	79.60	1.0000	79.60	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	154.72	1.0000	154.72	_____
INSECTICIDES	acre	2.82	1.0000	2.82	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0801	0.72	_____
OPERATOR LABOR	hour	16.54	0.3846	6.35	_____
UNALLOCATED LABOR	hour	16.49	0.3461	5.71	_____
DIESEL FUEL	gal	4.48	5.8899	26.40	_____
REPAIR & MAINTENANCE	acre	13.94	1.0000	13.94	_____
INTEREST ON OP. CAP.	acre	12.42	1.0000	12.42	_____

TOTAL DIRECT EXPENSES				438.14	_____
RETURNS ABOVE DIRECT EXPENSES				108.26	_____
TOTAL FIXED EXPENSES				57.99	_____

TOTAL SPECIFIED EXPENSES				496.13	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				50.27	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.01
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Jul			0.00	0.00	0.00
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Aug			0.00	0.00	0.00
Bifenthrin	oz					1.0500				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.38	0.32	0.46	0.34

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
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						0.02	3.35		3.35
Lime (Spread)	ton	19.31						0.10	19.41		19.41
Disk Harrow	32'		4.25	1.97	1.93			0.04	8.19	7.45	15.64
Field Cultivate Fld	32'		3.23	1.13	1.46			0.03	5.85	6.44	12.29
Bed/Lister-Roll-Fo	16R-30		4.20	1.18	1.90			0.04	7.32	5.87	13.19
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.06	1.34	1.46	2.80
Glyphosate 3lbs a.e	oz	10.88						0.52	11.40		11.40
Select Max	pt	13.86						0.67	14.53		14.53
Surfactant	pt	1.32						0.06	1.38		1.38
Custom Apply Fert	acre	7.50						0.28	7.78		7.78
Phosphorus (46% P2O5)	cwt	33.00						1.23	34.23		34.23
Potash (60% K2O)	cwt	46.60						1.74	48.34		48.34
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.05	1.33	1.46	2.79
Fierce	oz	27.13						1.01	28.14		28.14
Gramoxone SL 2.0	oz	17.76						0.66	18.42		18.42
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.21	6.71		6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.06			0.27	8.85	8.94	17.79
Soybean Seed RR2X	lb	57.50						1.84	59.34		59.34
CruiserMaxx Vibrance	oz	12.21						0.39	12.60		12.60
Boundary	pt	23.50						0.75	24.25		24.25
Gramoxone SL 2.0	oz	17.76						0.57	18.33		18.33
Surfactant	pt	1.32						0.04	1.36		1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.04	1.32	1.46	2.78
Glyphosate 3lbs a.e	oz	10.88						0.35	11.23		11.23
Engenia	oz	10.62						0.34	10.96		10.96
Dual Magnum	pt	11.45						0.37	11.82		11.82
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46	2.77
Glyphosate 3lbs a.e	oz	10.88						0.29	11.17		11.17
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.22			0.01	0.67	0.73	1.40
Dimilin 2L	oz	1.63						0.03	1.66		1.66
Surfactant	pt	0.17							0.17		0.17
Sprayer 600-825gal	90' 250hp		0.34	0.10	0.22			0.01	0.67	0.73	1.40
Bifenthrin	oz	1.19						0.02	1.21		1.21
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
Gramoxone SL	oz	5.92						0.06	5.98		5.98
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		6.38	5.15	2.68			0.08	14.29	19.97	34.26
Haul Soybeans	bu	10.80						0.06	10.86		10.86
Grain Cart Soybean	700 bu		1.47	0.50	0.67			0.01	2.65	2.02	4.67
TOTALS			372.60	26.40	13.94	12.78	0.00	12.42	438.14	57.99	496.13

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.E Estimated monthly income and expense flows per acre
 Soybeans, full-season, RR2X/XF, May planted, 16R 30"
 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	546.40
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	79.60	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	24.74	0.00	44.89	74.21	10.88	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.31
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.41	0.00	0.41	2.47	0.41	0.22	0.22	0.00	8.64
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	0.67	0.00	0.67	4.18	0.67	0.34	0.34	0.00	19.53
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.20	0.00	0.20	3.21	0.20	0.10	0.10	0.00	9.93
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.31	0.00	5.02	5.17	0.32	0.04	0.03	0.15	0.38
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	28.65	0.00	139.61	166.77	12.48	2.50	1.88	14.33	71.92
NET INCOME	0.00	0.00	0.00	-28.65	0.00	-139.61	-166.77	-12.48	-2.50	-1.88	-14.33	474.48
NET INCOME TO DATE	0.00	0.00	0.00	-28.65	-28.65	-168.26	-335.03	-347.51	-350.01	-351.89	-366.22	108.26

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, May planted, 16R 30"
 Non-Delta Area, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07		
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-227	-214	-200	-186	-173	-159	-145	-132	-118	-104	-91
			-285	-272	-258	-244	-231	-217	-203	-190	-176	-162	-149
60	24.00	bu	-187	-171	-155	-138	-122	-105	-89	-73	-56	-40	-23
			-245	-229	-213	-196	-180	-163	-147	-131	-114	-98	-81
70	28.00	bu	-148	-128	-109	-90	-71	-52	-33	-14	4	24	43
			-206	-186	-167	-148	-129	-110	-91	-72	-53	-33	-14
80	32.00	bu	-108	-86	-64	-42	-20	1	23	44	66	88	110
			-166	-144	-122	-100	-78	-56	-34	-13	8	30	52
90	36.00	bu	-68	-43	-19	5	30	54	79	103	128	153	177
			-126	-101	-77	-52	-27	-3	21	45	70	95	119
100	40.00	bu	-28	-1	26	53	80	108	135	162	190	217	244
			-86	-59	-31	-4	22	50	77	104	132	159	186
110	44.00	bu	11	41	71	101	131	161	191	221	251	282	312
			-46	-16	13	43	73	103	133	163	193	224	254
120	48.00	bu	51	84	117	149	182	215	248	280	313	346	379
			-6	26	59	91	124	157	190	222	255	288	321
130	52.00	bu	91	126	162	197	233	268	304	339	375	410	446
			33	68	104	139	175	210	246	281	317	352	388
140	56.00	bu	131	169	207	245	284	322	360	398	437	475	513
			73	111	149	187	226	264	302	340	379	417	455
150	60.00	bu	171	212	253	294	335	376	417	457	498	539	580
			113	154	195	236	277	318	359	400	440	481	522

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
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	3.0000	22.80	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	0.8700	43.50	_____
Potash (60% K2O)	cwt	46.60	1.3300	61.98	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	11.75	2.0000	23.50	_____
Gramoxone SL 2.0	oz	0.37	48.0000	17.76	_____
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Engenia	oz	0.83	12.8000	10.62	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
INSECTICIDES					
Acephate 90SP	lb	6.62	0.7500	4.97	_____
Prevathon	oz	1.16	14.0000	16.24	_____
Bifenthrin	oz	1.13	6.4000	7.23	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.0720	1.19	_____
Harvesters	hour	16.54	0.0851	1.41	_____
Self-Propelled	hour	16.54	0.0117	0.19	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	16.52	0.1452	2.40	_____
DIESEL FUEL					
Tractors	gal	4.48	1.1121	4.98	_____
Harvesters	gal	4.48	1.4243	6.38	_____
Self-Propelled	gal	4.48	0.1496	0.67	_____
REPAIR & MAINTENANCE					
Implements	acre	3.83	1.0000	3.83	_____
Tractors	acre	0.68	1.0000	0.68	_____
Harvesters	acre	4.15	1.0000	4.15	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	13.90	1.0000	13.90	_____
TOTAL DIRECT EXPENSES				395.72	_____
FIXED EXPENSES					
Implements	acre	7.83	1.0000	7.83	_____
Tractors	acre	4.84	1.0000	4.84	_____
Harvesters	acre	18.26	1.0000	18.26	_____
Self-Propelled	acre	1.46	1.0000	1.46	_____
TOTAL FIXED EXPENSES				32.39	_____
TOTAL SPECIFIED EXPENSES				428.11	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	13.66	25.0000	341.50	_____

TOTAL INCOME				341.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	22.80	1.0000	22.80	_____
FERTILIZERS	acre	105.48	1.0000	105.48	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	74.21	1.0000	74.21	_____
INSECTICIDES	acre	36.44	1.0000	36.44	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	16.54	0.1689	2.79	_____
UNALLOCATED LABOR	hour	16.52	0.1452	2.40	_____
DIESEL FUEL	gal	4.48	2.6861	12.03	_____
REPAIR & MAINTENANCE	acre	8.86	1.0000	8.86	_____
INTEREST ON OP. CAP.	acre	13.90	1.0000	13.90	_____

TOTAL DIRECT EXPENSES				395.72	_____
RETURNS ABOVE DIRECT EXPENSES				-54.22	_____
TOTAL FIXED EXPENSES				32.39	_____

TOTAL SPECIFIED EXPENSES				428.11	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-86.61	_____

Note: Cost of production estimates are based on 2022 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, 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	0.3330					
Custom Apply Fert	acre			1.00	Nov	1.0000					
Phosphorus (46% P2O5)	cwt					0.8700					
Potash (60% K2O)	cwt					1.3300					
Soybeans Consultant	acre			1.00	May	1.0000					
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04	
Soybean Seed RR2X	lb					50.0000					
CruiserMaxx Vibrance	oz					1.6000					
Inoculant -Soybean	acre					1.0000					
Boundary	pt					2.0000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01	
Glyphosate 3lbs a.e	oz					32.0000					
Engenia	oz					12.8000					
Dual Magnum	pt					1.0000					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Acephate 90SP	lb					0.7500					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Prevathon	oz					14.0000					
Surfactant	pt					0.1000					
Bifenthrin	oz					6.4000					
Incidental Pest				1.00	Sep						
App by Air (5 gal)	appl					1.0000					
IncidentalPestTrt \$8	acre					1.0000					
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07	
Haul Soybeans	bu					25.0000					
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01	
TOTALS								0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2022 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, 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	19.31						1.24	20.55		20.55
Custom Apply Fert	acre	7.50						0.48	7.98		7.98
Phosphorus(46% P2O5)	cwt	43.50						2.78	46.28		46.28
Potash (60% K2O)	cwt	61.98						3.97	65.95		65.95
Soybeans Consultant	acre	6.50						0.21	6.71		6.71
Plant & Pre-Folding	16R-30		3.51	3.01	2.02			0.23	8.77	8.94	17.71
Soybean Seed RR2X	lb	57.50						1.53	59.03		59.03
CruiserMaxx Vibrance	oz	12.21						0.33	12.54		12.54
Inoculant -Soybean	acre	1.55						0.04	1.59		1.59
Boundary	pt	23.50						0.63	24.13		24.13
Gramoxone SL 2.0	oz	17.76						0.47	18.23		18.23
Surfactant	pt	1.32						0.04	1.36		1.36
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.41			0.03	1.31	1.46	2.77
Glyphosate 3lbs a.e	oz	10.88						0.23	11.11		11.11
Engenia	oz	10.62						0.23	10.85		10.85
Dual Magnum	pt	11.45						0.24	11.69		11.69
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Acephate 90SP	lb	4.97						0.08	5.05		5.05
App by Air (5 gal)	appl	7.60						0.12	7.72		7.72
Prevathon	oz	16.24						0.26	16.50		16.50
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	7.23						0.12	7.35		7.35
Incidental Pest											
App by Air (5 gal)	appl	7.60						0.08	7.68		7.68
IncidentalPestTrt \$8	acre	8.00						0.09	8.09		8.09
Header -Soybean	30' Flex		6.38	5.15	2.62			0.08	14.23	19.97	34.20
Haul Soybeans	bu	6.75						0.04	6.79		6.79
Grain Cart Soybean	700 bu		1.47	0.50	0.65			0.01	2.63	2.02	4.65
TOTALS		355.23	12.03	8.86	5.70	0.00	13.90	395.72	32.39	428.11	

Note: Cost of production estimates are based on 2022 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.**The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, 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	341.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.20	7.60	0.00
FERTILIZERS	105.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	32.95	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.44	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	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
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	19.31	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	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	0.00	2.02	0.41	0.00	0.00	3.27
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	0.00	3.51	0.67	0.00	0.00	7.85
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01	0.20	0.00	0.00	5.65
INTEREST ON OP. CAP.	8.68	0.00	0.00	0.00	0.00	0.00	0.21	3.27	0.73	0.71	0.17	0.13
TOTAL DIRECT EXPENSES	144.30	0.00	0.00	0.00	0.00	0.00	6.71	125.65	34.96	44.68	15.77	23.65
NET INCOME	-144.30	0.00	0.00	0.00	0.00	0.00	-6.71	-125.65	-34.96	-44.68	-15.77	317.85
NET INCOME TO DATE	-144.30	-144.30	-144.30	-144.30	-144.30	-144.30	-151.01	-276.66	-311.62	-356.30	-372.07	-54.22

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget.

Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year. The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, Mississippi, 2023

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			10.24	10.92	11.61	12.29	12.97	13.66	14.34	15.02	15.70	16.39	17.07
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-264	-255	-247	-238	-230	-221	-213	-204	-195	-187	-178
			-296	-288	-279	-271	-262	-253	-245	-236	-228	-219	-211
60	15.00	bu	-239	-229	-218	-208	-198	-188	-177	-167	-157	-147	-136
			-271	-261	-251	-240	-230	-220	-210	-200	-189	-179	-169
70	17.50	bu	-214	-202	-190	-178	-166	-154	-142	-130	-118	-106	-94
			-246	-234	-222	-210	-198	-187	-175	-163	-151	-139	-127
80	20.00	bu	-189	-175	-162	-148	-134	-121	-107	-93	-80	-66	-52
			-221	-208	-194	-180	-167	-153	-139	-126	-112	-98	-85
90	22.50	bu	-164	-149	-133	-118	-103	-87	-72	-56	-41	-26	-10
			-196	-181	-166	-150	-135	-120	-104	-89	-73	-58	-43
100	25.00	bu	-139	-122	-105	-88	-71	-54	-37	-20	-2	14	31
			-171	-154	-137	-120	-103	-86	-69	-52	-35	-18	-1
110	27.50	bu	-114	-95	-77	-58	-39	-20	-1	16	35	54	73
			-147	-128	-109	-90	-71	-53	-34	-15	3	21	40
120	30.00	bu	-89	-69	-48	-28	-7	12	33	53	74	94	115
			-122	-101	-81	-60	-40	-19	0	21	41	62	82
130	32.50	bu	-64	-42	-20	1	23	46	68	90	112	134	157
			-97	-74	-52	-30	-8	13	36	58	80	102	124
140	35.00	bu	-39	-15	7	31	55	79	103	127	151	175	199
			-72	-48	-24	-0	23	47	71	95	118	142	166
150	37.50	bu	-14	10	36	61	87	113	138	164	189	215	241
			-47	-21	3	29	55	80	106	131	157	183	208

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
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	1.0000	7.60	_____
App by Air (3 gal)	appl	6.40	1.2000	7.68	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	1.6300	81.50	_____
Potash (60% K2O)	cwt	46.60	1.2500	58.25	_____
UAN + Sulfur (28%)	gal	4.41	56.0263	247.08	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Clarity	pt	14.30	0.5000	7.15	_____
Select Max	pt	13.86	1.0000	13.86	_____
Atrazine 4L	pt	3.00	4.0000	12.00	_____
Halex GT	pt	10.50	3.6000	37.80	_____
INSECTICIDES					
Bifenthrin	oz	1.13	1.2804	1.45	_____
Intrepid 2F	oz	2.06	4.0000	8.24	_____
SEED/PLANTS					
Corn Seed RR2	thous	2.93	28.0000	82.04	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.4295	7.10	_____
Harvesters	hour	16.54	0.1277	2.11	_____
Self-Propelled	hour	16.54	0.0176	0.29	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	16.56	0.5173	8.57	_____
DIESEL FUEL					
Tractors	gal	4.48	4.9741	22.28	_____
Harvesters	gal	4.48	1.7419	7.80	_____
Self-Propelled	gal	4.48	0.1586	0.71	_____
REPAIR & MAINTENANCE					
Implements	acre	11.63	1.0000	11.63	_____
Tractors	acre	3.70	1.0000	3.70	_____
Harvesters	acre	6.16	1.0000	6.16	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	28.04	1.0000	28.04	_____
TOTAL DIRECT EXPENSES				770.07	_____
FIXED EXPENSES					
Implements	acre	20.34	1.0000	20.34	_____
Tractors	acre	26.19	1.0000	26.19	_____
Harvesters	acre	27.10	1.0000	27.10	_____
Self-Propelled	acre	1.50	1.0000	1.50	_____
TOTAL FIXED EXPENSES				75.13	_____
TOTAL SPECIFIED EXPENSES				845.20	_____

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
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.15	170.0000	1045.50	_____

TOTAL INCOME				1045.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.28	1.0000	15.28	_____
FERTILIZERS	acre	386.83	1.0000	386.83	_____
HERBICIDES	acre	81.69	1.0000	81.69	_____
INSECTICIDES	acre	9.69	1.0000	9.69	_____
SEED/PLANTS	acre	82.04	1.0000	82.04	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1530	1.39	_____
OPERATOR LABOR	hour	16.54	0.5748	9.50	_____
UNALLOCATED LABOR	hour	16.56	0.5173	8.57	_____
DIESEL FUEL	gal	4.48	6.8748	30.79	_____
REPAIR & MAINTENANCE	acre	21.69	1.0000	21.69	_____
INTEREST ON OP. CAP.	acre	28.04	1.0000	28.04	_____

TOTAL DIRECT EXPENSES				770.07	_____
RETURNS ABOVE DIRECT EXPENSES				275.43	_____
TOTAL FIXED EXPENSES				75.13	_____

TOTAL SPECIFIED EXPENSES				845.20	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				200.30	_____

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 19.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, 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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus (46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
Disk Heavy	28'	MFWD 225	0.075	1.00	Oct		0.07	0.07	0.07	0.06
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant - Rigid	12R-30	MFWD 225	0.062	1.00	Mar		0.06	0.06	0.12	0.05
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					19.3063				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					36.7200				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2804				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.57	0.55	0.72	0.51

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
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, 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
Spin Spreader	5 ton		2.18	0.70	1.71			0.29	4.88	3.35	8.23
Phosphorus(46% P2O5)	cwt	81.50						5.22	86.72		86.72
Potash (60% K2O)	cwt	58.25						3.73	61.98		61.98
Disk Heavy	28'		3.93	2.22	2.38			0.55	9.08	8.39	17.47
Bed/Disk w/roller	12R-30/40		3.24	1.73	1.96			0.44	7.37	7.37	14.74
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Clarity	pt	7.15						0.31	7.46		7.46
Select Max	pt	13.86						0.59	14.45		14.45
Plant - Rigid	12R-30		3.26	2.06	2.55			0.29	8.16	7.15	15.31
Corn Seed RR2	thous	82.04						3.06	85.10		85.10
Custom Apply Fert	acre	7.50						0.24	7.74		7.74
UAN + Sulfur (28%)	gal	85.14						2.72	87.86		87.86
Sprayer 600-750gal	60' 175hp		0.71	0.20	0.63			0.05	1.59	1.50	3.09
Atrazine 4L	pt	12.00						0.38	12.38		12.38
Halex GT	pt	37.80						1.21	39.01		39.01
Fert Appl (Liquid)	12R-30		4.08	2.28	2.83			0.25	9.44	6.84	16.28
UAN + Sulfur (28%)	gal	161.94						4.32	166.26		166.26
Corn Consultant	acre	6.00						0.16	6.16		6.16
App by Air (3 gal)	appl	1.28						0.03	1.31		1.31
Bifenthrin	oz	1.45						0.04	1.49		1.49
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Intrepid 2F	oz	8.24						0.18	8.42		8.42
Header - Corn	8R-30		7.80	8.95	4.01			0.11	20.87	31.85	52.72
Grain Cart Corn	500 bu		1.31	0.45	0.80			0.01	2.57	2.01	4.58
Haul Corn	bu	39.10						0.21	39.31		39.31
Stalk Shredder Flex	20'		4.28	3.10	2.59			0.05	10.02	6.67	16.69
TOTALS		670.09	30.79	21.69	19.46	0.00	28.04	770.07	75.13	845.20	

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
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1045.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	1.28	6.40	0.00	0.00	0.00
FERTILIZERS	139.75	0.00	0.00	0.00	0.00	0.00	85.14	161.94	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	31.89	0.00	49.80	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	8.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	82.04	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
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	0.00	6.00	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	6.05	0.00	0.00	0.00	0.00	2.55	0.63	2.83	0.00	0.00	0.00	7.40
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	9.35	0.00	0.00	0.00	0.00	3.26	0.71	4.08	0.00	0.00	0.00	13.39
REPAIR & MAINTENANCE	4.65	0.00	0.00	0.00	0.00	2.06	0.20	2.28	0.00	0.00	0.00	12.50
INTEREST ON OP. CAP.	12.91	0.00	0.00	0.00	1.68	3.35	4.60	4.80	0.32	0.00	0.00	0.38
TOTAL DIRECT EXPENSES	214.67	0.00	0.00	0.00	41.17	93.26	148.58	184.66	14.96	0.00	0.00	72.77
NET INCOME	-214.67	0.00	0.00	0.00	-41.17	-93.26	-148.58	-184.66	-14.96	0.00	0.00	972.73
NET INCOME TO DATE	-214.67	-214.67	-214.67	-214.67	-255.84	-349.10	-497.68	-682.34	-697.30	-697.30	-697.30	275.43

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
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	4.61	4.92	5.22	5.53	5.84	6.15	6.45	6.76	7.07	7.38	7.68		
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-358 -433	-332 -407	-306 -381	-279 -355	-253 -328	-227 -302	-201 -276	-175 -250	-149 -224	-123 -198	-96 -172
60	102.00	bu	-283 -359	-252 -327	-221 -296	-189 -264	-158 -233	-127 -202	-95 -170	-64 -139	-32 -108	-1 -76	29 -45
70	119.00	bu	-209 -284	-172 -247	-136 -211	-99 -174	-63 -138	-26 -101	10 -64	46 -28	83 8	119 44	156 81
80	136.00	bu	-134 -210	-93 -168	-51 -126	-9 -84	32 -42	74 -0	116 40	157 82	199 124	241 166	283 208
90	153.00	bu	-60 -135	-13 -88	33 -41	80 5	127 52	174 99	221 146	268 193	315 240	363 287	410 334
100	170.00	bu	14 -61	66 -8	118 43	170 95	223 148	275 200	327 252	379 304	432 357	484 409	536 461
110	187.00	bu	88 13	146 70	203 128	261 185	318 243	376 300	433 358	491 415	548 473	606 530	663 588
120	204.00	bu	163 87	225 150	288 213	351 276	413 338	476 401	539 464	602 526	664 589	727 652	790 715
130	221.00	bu	237 162	305 230	373 298	441 366	509 434	577 502	645 570	713 638	781 706	849 773	917 841
140	238.00	bu	311 236	385 310	458 383	531 456	604 529	677 602	751 675	824 749	897 822	970 895	1043 968
150	255.00	bu	386 311	464 389	543 468	621 546	700 624	778 703	856 781	935 860	1013 938	1092 1017	1170 1095

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
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	1.0000	7.60	_____
App by Air (3 gal)	appl	6.40	1.2000	7.68	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	50.00	1.6300	81.50	_____
Potash (60% K2O)	cwt	46.60	1.2500	58.25	_____
UAN + Sulfur (28%)	gal	4.41	56.0263	247.08	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Clarity	pt	14.30	0.5000	7.15	_____
Select Max	pt	13.86	1.0000	13.86	_____
Atrazine 4L	pt	3.00	4.0000	12.00	_____
Halex GT	pt	10.50	3.6000	37.80	_____
INSECTICIDES					
Bifenthrin	oz	1.13	1.2804	1.45	_____
Intrepid 2F	oz	2.06	4.0000	8.24	_____
SEED/PLANTS					
Corn Seed RR2	thous	2.93	28.0000	82.04	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.4137	6.84	_____
Harvesters	hour	16.54	0.1277	2.11	_____
Self-Propelled	hour	16.54	0.0176	0.29	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1285	1.17	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
	hour	16.55	0.5032	8.33	_____
DIESEL FUEL					
Tractors	gal	4.48	4.7921	21.47	_____
Harvesters	gal	4.48	1.7419	7.80	_____
Self-Propelled	gal	4.48	0.1586	0.71	_____
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	12.28	1.0000	12.28	_____
Tractors	acre	3.57	1.0000	3.57	_____
Harvesters	acre	6.16	1.0000	6.16	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	29.73	1.0000	29.73	_____
TOTAL DIRECT EXPENSES				856.29	_____
FIXED EXPENSES					
Implements	acre	21.77	1.0000	21.77	_____
Tractors	acre	25.23	1.0000	25.23	_____
Harvesters	acre	27.10	1.0000	27.10	_____
Self-Propelled	acre	1.50	1.0000	1.50	_____
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	_____
TOTAL FIXED EXPENSES				163.56	_____
TOTAL SPECIFIED EXPENSES				1019.85	_____

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
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.15	220.0000	1353.00	_____

TOTAL INCOME				1353.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	15.28	1.0000	15.28	_____
FERTILIZERS	acre	386.83	1.0000	386.83	_____
HERBICIDES	acre	81.69	1.0000	81.69	_____
INSECTICIDES	acre	9.69	1.0000	9.69	_____
SEED/PLANTS	acre	82.04	1.0000	82.04	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1373	1.25	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	16.54	0.5591	9.24	_____
UNALLOCATED LABOR	hour	16.55	0.5032	8.33	_____
DIESEL FUEL	gal	4.48	17.8938	80.15	_____
REPAIR & MAINTENANCE	acre	44.16	1.0000	44.16	_____
INTEREST ON OP. CAP.	acre	29.73	1.0000	29.73	_____

TOTAL DIRECT EXPENSES				856.29	_____
RETURNS ABOVE DIRECT EXPENSES				496.71	_____
TOTAL FIXED EXPENSES				163.56	_____

TOTAL SPECIFIED EXPENSES				1019.85	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				333.15	_____

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
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Oct		0.04	0.04	0.08	0.03
Phosphorus (46% P2O5)	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
Disk Heavy	28'	MFWD 225	0.075	1.00	Oct		0.07	0.07	0.07	0.06
Bed/Disk w/roller	12R-30/40	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Plant - Folding	16R-30	MFWD 225	0.047	1.00	Mar		0.04	0.04	0.09	0.04
Corn Seed RR2	thous					28.0000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
UAN + Sulfur (28%)	gal					19.3063				
Sprayer 600-750gal	60' 175hp		0.017	1.00	Apr			0.01	0.02	0.01
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					36.7200				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			0.20	May	0.2000				
Bifenthrin	oz					1.2804				
App by Air (3 gal)	appl			1.00	Jun	1.0000				
Intrepid 2F	oz					4.0000				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
1/4-mi. Pivot Irr.	acre				Jul	1.0000			0.20	
TOTALS							0.55	0.54	0.90	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 20.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 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
Spin Spreader	5 ton		2.18	0.70	1.71			0.29	4.88	3.35	8.23
Phosphorus(46% P2O5)	cwt	81.50						5.22	86.72		86.72
Potash (60% K2O)	cwt	58.25						3.73	61.98		61.98
Disk Heavy	28'		3.93	2.22	2.38			0.55	9.08	8.39	17.47
Bed/Disk w/roller	12R-30/40		3.24	1.73	1.96			0.44	7.37	7.37	14.74
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Clarity	pt	7.15						0.31	7.46		7.46
Select Max	pt	13.86						0.59	14.45		14.45
Plant - Folding	16R-30		2.45	2.58	1.91			0.26	7.20	7.62	14.82
Corn Seed RR2	thous	82.04						3.06	85.10		85.10
Custom Apply Fert	acre	7.50						0.24	7.74		7.74
UAN + Sulfur (28%)	gal	85.14						2.72	87.86		87.86
Sprayer 600-750gal	60' 175hp		0.71	0.20	0.63			0.05	1.59	1.50	3.09
Atrazine 4L	pt	12.00						0.38	12.38		12.38
Halex GT	pt	37.80						1.21	39.01		39.01
Fert Appl (Liquid)	12R-30		4.08	2.28	2.83			0.25	9.44	6.84	16.28
UAN + Sulfur (28%)	gal	161.94						4.32	166.26		166.26
Corn Consultant	acre	6.00						0.16	6.16		6.16
App by Air (3 gal)	appl	1.28						0.03	1.31		1.31
Bifenthrin	oz	1.45						0.04	1.49		1.49
App by Air (3 gal)	appl	6.40						0.14	6.54		6.54
Intrepid 2F	oz	8.24						0.18	8.42		8.42
Header - Corn	8R-30		7.80	8.95	4.01			0.11	20.87	31.85	52.72
Grain Cart Corn	500 bu		1.31	0.45	0.80			0.01	2.57	2.01	4.58
Haul Corn	bu	50.60						0.27	50.87		50.87
Stalk Shredder Flex	20'		4.28	3.10	2.59			0.05	10.02	6.67	16.69
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96	163.58
TOTALS		681.59	80.15	44.16	20.66	0.00	29.73	856.29	163.56	1019.85	

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
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1353.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	1.28	6.40	0.00	0.00	0.00
FERTILIZERS	139.75	0.00	0.00	0.00	0.00	0.00	85.14	161.94	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	31.89	0.00	49.80	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	8.24	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	82.04	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
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	0.00	6.00	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	6.05	0.00	0.00	0.00	0.00	1.91	1.97	2.98	0.20	0.15	0.00	7.40
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	9.35	0.00	0.00	0.00	0.00	2.45	0.71	19.13	20.07	15.05	0.00	13.39
REPAIR & MAINTENANCE	4.65	0.00	0.00	0.00	0.00	2.58	0.20	20.75	1.99	1.49	0.00	12.50
INTEREST ON OP. CAP.	12.91	0.00	0.00	0.00	1.68	3.32	4.64	5.69	0.79	0.26	0.00	0.44
TOTAL DIRECT EXPENSES	214.67	0.00	0.00	0.00	41.17	92.30	149.96	219.22	37.69	16.95	0.00	84.33
NET INCOME	-214.67	0.00	0.00	0.00	-41.17	-92.30	-149.96	-219.22	-37.69	-16.95	0.00	1268.67
NET INCOME TO DATE	-214.67	-214.67	-214.67	-214.67	-255.84	-348.14	-498.10	-717.32	-755.01	-771.96	-771.96	496.71

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
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 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										
Corn			4.61	4.92	5.22	5.53	5.84	6.15	6.45	6.76	7.07	7.38	7.68
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-323 -487	-289 -453	-255 -419	-222 -385	-188 -351	-154 -317	-120 -284	-86 -250	-52 -216	-19 -182	14 -148
60	132.00	bu	-227 -390	-186 -350	-145 -309	-105 -268	-64 -228	-24 -187	16 -147	57 -106	97 -65	138 -25	178 15
70	154.00	bu	-130 -294	-83 -246	-35 -199	11 -152	58 -104	106 -57	153 -10	200 37	248 84	295 131	342 179
80	176.00	bu	-34 -197	19 -143	73 -89	128 -35	182 18	236 72	290 126	344 180	398 235	452 289	506 343
90	198.00	bu	62 -101	122 -40	183 20	244 81	305 142	366 202	427 263	488 324	549 385	610 446	670 507
100	220.00	bu	158 -5	226 62	293 130	361 197	429 265	496 333	564 400	632 468	699 536	767 603	834 671
110	242.00	bu	254 91	329 165	403 240	478 314	552 388	626 463	701 537	775 612	850 686	924 761	998 835
120	264.00	bu	351 187	432 268	513 350	594 431	675 512	757 593	838 674	919 755	1000 837	1081 918	1163 999
130	286.00	bu	447 284	535 372	623 459	711 547	799 635	887 723	975 811	1063 899	1151 987	1239 1075	1327 1163
140	308.00	bu	544 380	638 475	733 569	828 664	922 759	1017 854	1112 948	1206 1043	1301 1138	1396 1232	1491 1327
150	330.00	bu	640 476	741 578	843 679	944 781	1046 882	1147 984	1249 1085	1350 1187	1452 1288	1553 1390	1655 1491

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 21.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-irrigated, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	1.0000	7.60	_____
App by Air (3 gal)	appl	6.40	1.0000	6.40	_____
FERTILIZERS					
DAP	cwt	55.40	1.6300	90.30	_____
Potash (60% K2O)	cwt	46.60	1.2500	58.25	_____
Fert 10-34-0	gal	5.36	5.0000	26.80	_____
UAN (32%)	gal	4.30	43.8348	188.49	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Clarity	pt	14.30	0.5000	7.15	_____
Select Max	pt	13.86	1.0000	13.86	_____
Atrazine 4L	pt	3.00	4.0000	12.00	_____
Halex GT	pt	10.50	3.6000	37.80	_____
INSECTICIDES					
Bifenthrin	oz	1.13	6.4020	7.23	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.75	28.0000	105.00	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.3616	5.99	_____
Harvesters	hour	16.54	0.1277	2.11	_____
HAND LABOR					
Implements	hour	9.06	0.1832	1.66	_____
UNALLOCATED LABOR	hour	16.55	0.4404	7.29	_____
DIESEL FUEL					
Tractors	gal	4.48	4.1883	18.76	_____
Harvesters	gal	4.48	1.7419	7.80	_____
REPAIR & MAINTENANCE					
Implements	acre	9.81	1.0000	9.81	_____
Tractors	acre	3.12	1.0000	3.12	_____
Harvesters	acre	6.16	1.0000	6.16	_____
INTEREST ON OP. CAP.	acre	24.35	1.0000	24.35	_____
TOTAL DIRECT EXPENSES				745.87	_____
FIXED EXPENSES					
Implements	acre	14.92	1.0000	14.92	_____
Tractors	acre	22.05	1.0000	22.05	_____
Harvesters	acre	27.10	1.0000	27.10	_____
TOTAL FIXED EXPENSES				64.07	_____
TOTAL SPECIFIED EXPENSES				809.94	_____

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 21.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal
 Non-irrigated, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.15	170.0000	1045.50	_____

TOTAL INCOME				1045.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	14.00	1.0000	14.00	_____
FERTILIZERS	acre	363.84	1.0000	363.84	_____
HERBICIDES	acre	81.69	1.0000	81.69	_____
INSECTICIDES	acre	7.23	1.0000	7.23	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1832	1.66	_____
OPERATOR LABOR	hour	16.54	0.4893	8.10	_____
UNALLOCATED LABOR	hour	16.55	0.4404	7.29	_____
DIESEL FUEL	gal	4.48	5.9303	26.56	_____
REPAIR & MAINTENANCE	acre	19.09	1.0000	19.09	_____
INTEREST ON OP. CAP.	acre	24.35	1.0000	24.35	_____

TOTAL DIRECT EXPENSES				745.87	_____
RETURNS ABOVE DIRECT EXPENSES				299.63	_____
TOTAL FIXED EXPENSES				64.07	_____

TOTAL SPECIFIED EXPENSES				809.94	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				235.56	_____

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 21.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-irrigated, 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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Mar		0.04	0.04	0.08	0.03
DAP	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
NT Plant&Pre-Rigid	12R-30	MFWD 225	0.070	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	gal					5.0000				
Spray (Broadcast)	27'	MFWD 225	0.062	1.00	Apr		0.06	0.06	0.09	0.05
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Apr		0.07	0.07	0.11	0.07
UAN (32%)	gal					43.8348				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			1.00	May	1.0000				
Bifenthrin	oz					6.4020				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					170.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
TOTALS							0.48	0.48	0.67	0.44

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 21.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-irrigated, 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
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34	11.34
Clarity	pt	7.15						0.31	7.46	7.46
Select Max	pt	13.86						0.59	14.45	14.45
Spin Spreader	5 ton		2.18	0.70	1.71			0.17	4.76	3.35 8.11
DAP	cwt	90.30						3.37	93.67	93.67
Potash (60% K2O)	cwt	58.25						2.17	60.42	60.42
NT Plant&Pre-Rigid	12R-30		3.66	2.90	2.86			0.35	9.77	9.30 19.07
Corn Seed BtRR	thous	105.00						3.92	108.92	108.92
Fert 10-34-0	gal	26.80						1.00	27.80	27.80
Spray (Broadcast)	27'		3.25	0.71	2.25			0.20	6.41	4.05 10.46
Atrazine 4L	pt	12.00						0.38	12.38	12.38
Halex GT	pt	37.80						1.21	39.01	39.01
Fert Appl (Liquid)	12R-30		4.08	2.28	2.83			0.29	9.48	6.84 16.32
UAN (32%)	gal	188.49						6.03	194.52	194.52
Corn Consultant	acre	6.00						0.16	6.16	6.16
App by Air (3 gal)	appl	6.40						0.17	6.57	6.57
Bifenthrin	oz	7.23						0.19	7.42	7.42
Header - Corn	8R-30		7.80	8.95	4.01			0.11	20.87	31.85 52.72
Grain Cart Corn	500 bu		1.31	0.45	0.80			0.01	2.57	2.01 4.58
Haul Corn	bu	39.10						0.21	39.31	39.31
Stalk Shredder Flex	20'		4.28	3.10	2.59			0.05	10.02	6.67 16.69
TOTALS		658.82	26.56	19.09	17.05	0.00	24.35	745.87	64.07	809.94

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 21.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal
 Non-irrigated, Non-Delta, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1045.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	6.40	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	175.35	188.49	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	31.89	0.00	49.80	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	105.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.10
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	0.00	6.00	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	4.57	5.08	0.00	0.00	0.00	0.00	7.40
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	5.84	7.33	0.00	0.00	0.00	0.00	13.39
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	3.60	2.99	0.00	0.00	0.00	0.00	12.50
INTEREST ON OP. CAP.	2.68	0.00	0.00	0.00	1.68	10.98	8.11	0.52	0.00	0.00	0.00	0.38
TOTAL DIRECT EXPENSES	44.64	0.00	0.00	0.00	41.17	305.34	261.80	20.15	0.00	0.00	0.00	72.77
NET INCOME	-44.64	0.00	0.00	0.00	-41.17	-305.34	-261.80	-20.15	0.00	0.00	0.00	972.73
NET INCOME TO DATE	-44.64	-44.64	-44.64	-44.64	-85.81	-391.15	-652.95	-673.10	-673.10	-673.10	-673.10	299.63

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.

* Lease costs are based on hourly usage costs.

Table 21.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-irrigated, Non-Delta, Mississippi, 2023

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Corn	4.61	4.92	5.22	5.53	5.84	6.15	6.45	6.76	7.07	7.38	7.68		
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-334 -398	-308 -372	-281 -345	-255 -319	-229 -293	-203 -267	-177 -241	-151 -215	-125 -189	-98 -162	-72 -136
60	102.00	bu	-259 -323	-228 -292	-196 -261	-165 -229	-134 -198	-102 -166	-71 -135	-40 -104	-8 -72	22 -41	53 -10
70	119.00	bu	-185 -249	-148 -212	-112 -176	-75 -139	-38 -102	-2 -66	34 -29	70 6	107 43	144 80	180 116
80	136.00	bu	-110 -174	-68 -132	-27 -91	14 -49	56 -7	98 34	140 76	182 117	223 159	265 201	307 243
90	153.00	bu	-36 -100	10 -53	57 -6	104 40	151 87	199 134	246 181	293 229	340 276	387 323	434 370
100	170.00	bu	38 -25	90 26	142 78	195 131	247 183	299 235	351 287	404 340	456 392	508 444	561 496
110	187.00	bu	112 48	170 106	227 163	285 221	342 278	400 336	457 393	515 451	572 508	630 566	687 623
120	204.00	bu	187 123	249 185	312 248	375 311	438 374	500 436	563 499	626 562	689 624	751 687	814 750
130	221.00	bu	261 197	329 265	397 333	465 401	533 469	601 537	669 605	737 673	805 741	873 809	941 877
140	238.00	bu	336 272	409 345	482 418	555 491	628 564	702 638	775 711	848 784	921 857	994 930	1068 1003
150	255.00	bu	410 346	489 425	567 503	645 581	724 660	802 738	881 817	959 895	1037 973	1116 1052	1194 1130

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 22.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	1.0000	7.60	_____
App by Air (3 gal)	appl	6.40	1.0000	6.40	_____
FERTILIZERS					
DAP	cwt	55.40	1.6300	90.30	_____
Potash (60% K2O)	cwt	46.60	1.2500	58.25	_____
Fert 10-34-0	gal	5.36	5.0000	26.80	_____
UAN (32%)	gal	4.30	43.8348	188.49	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
Clarity	pt	14.30	0.5000	7.15	_____
Select Max	pt	13.86	1.0000	13.86	_____
Atrazine 4L	pt	3.00	4.0000	12.00	_____
Halex GT	pt	10.50	3.6000	37.80	_____
INSECTICIDES					
Bifenthrin	oz	1.13	6.4020	7.23	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.75	28.0000	105.00	_____
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Corn Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.3616	5.99	_____
Harvesters	hour	16.54	0.1277	2.11	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1832	1.66	_____
UNALLOCATED LABOR	hour	16.55	0.4404	7.29	_____
DIESEL FUEL					
Tractors	gal	4.48	4.1883	18.76	_____
Harvesters	gal	4.48	1.7419	7.80	_____
1/4-mi. Pivot Irr.	gal	4.48	11.2011	50.17	_____
REPAIR & MAINTENANCE					
Implements	acre	9.81	1.0000	9.81	_____
Tractors	acre	3.12	1.0000	3.12	_____
Harvesters	acre	6.16	1.0000	6.16	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	26.07	1.0000	26.07	_____
TOTAL DIRECT EXPENSES				833.05	_____
FIXED EXPENSES					
Implements	acre	14.92	1.0000	14.92	_____
Tractors	acre	22.05	1.0000	22.05	_____
Harvesters	acre	27.10	1.0000	27.10	_____
1/4-mi. Pivot Irr.	acre	87.96	1.0000	87.96	_____
TOTAL FIXED EXPENSES				152.03	_____
TOTAL SPECIFIED EXPENSES				985.08	_____

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 22.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Corn	bu	6.15	220.0000	1353.00	_____

TOTAL INCOME				1353.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	14.00	1.0000	14.00	_____
FERTILIZERS	acre	363.84	1.0000	363.84	_____
HERBICIDES	acre	81.69	1.0000	81.69	_____
INSECTICIDES	acre	7.23	1.0000	7.23	_____
SEED/PLANTS	acre	105.00	1.0000	105.00	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1832	1.66	_____
IRRIGATE LABOR	hour	9.06	0.2036	1.84	_____
OPERATOR LABOR	hour	16.54	0.4893	8.10	_____
UNALLOCATED LABOR	hour	16.55	0.4404	7.29	_____
DIESEL FUEL	gal	4.48	17.1314	76.73	_____
REPAIR & MAINTENANCE	acre	41.04	1.0000	41.04	_____
INTEREST ON OP. CAP.	acre	26.07	1.0000	26.07	_____

TOTAL DIRECT EXPENSES				833.05	_____
RETURNS ABOVE DIRECT EXPENSES				519.95	_____
TOTAL FIXED EXPENSES				152.03	_____

TOTAL SPECIFIED EXPENSES				985.08	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				367.92	_____

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 22.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, 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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
Clarity	pt					0.5000				
Select Max	pt					1.0000				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Mar		0.04	0.04	0.08	0.03
DAP	cwt					1.6300				
Potash (60% K2O)	cwt					1.2500				
NT Plant&Pre-Rigid	12R-30	MFWD 225	0.070	1.00	Mar		0.07	0.07	0.14	0.06
Corn Seed BtRR	thous					28.0000				
Fert 10-34-0	gal					5.0000				
Spray (Broadcast)	27'	MFWD 225	0.062	1.00	Apr		0.06	0.06	0.09	0.05
Atrazine 4L	pt					4.0000				
Halex GT	pt					3.6000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	Apr		0.07	0.07	0.11	0.07
UAN (32%)	gal					43.8348				
Corn Consultant	acre			1.00	May	1.0000				
App by Air (3 gal)	appl			1.00	May	1.0000				
Bifenthrin	oz					6.4020				
Header - Corn	8R-30	265 hp	0.127	1.00	Sep		0.12	0.12	0.12	0.11
Grain Cart Corn	500 bu	MFWD 225	0.025	1.00	Sep		0.02	0.02	0.02	0.02
Haul Corn	bu					220.0000				
Stalk Shredder Flex	20'	MFWD 225	0.082	1.00	Sep		0.08	0.08	0.08	0.07
1/4-mi. Pivot Irr.	acre				Jul	1.0000			0.20	
TOTALS							0.48	0.48	0.87	0.44

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 22.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, 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
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
Clarity	pt	7.15						0.31	7.46		7.46
Select Max	pt	13.86						0.59	14.45		14.45
Spin Spreader	5 ton		2.18	0.70	1.71			0.17	4.76	3.35	8.11
DAP	cwt	90.30						3.37	93.67		93.67
Potash (60% K2O)	cwt	58.25						2.17	60.42		60.42
NT Plant&Pre-Rigid	12R-30		3.66	2.90	2.86			0.35	9.77	9.30	19.07
Corn Seed BtRR	thous	105.00						3.92	108.92		108.92
Fert 10-34-0	gal	26.80						1.00	27.80		27.80
Spray (Broadcast)	27'		3.25	0.71	2.25			0.20	6.41	4.05	10.46
Atrazine 4L	pt	12.00						0.38	12.38		12.38
Halex GT	pt	37.80						1.21	39.01		39.01
Fert Appl (Liquid)	12R-30		4.08	2.28	2.83			0.29	9.48	6.84	16.32
UAN (32%)	gal	188.49						6.03	194.52		194.52
Corn Consultant	acre	6.00						0.16	6.16		6.16
App by Air (3 gal)	appl	6.40						0.17	6.57		6.57
Bifenthrin	oz	7.23						0.19	7.42		7.42
Header - Corn	8R-30		7.80	8.95	4.01			0.11	20.87	31.85	52.72
Grain Cart Corn	500 bu		1.31	0.45	0.80			0.01	2.57	2.01	4.58
Haul Corn	bu	50.60						0.27	50.87		50.87
Stalk Shredder Flex	20'		4.28	3.10	2.59			0.05	10.02	6.67	16.69
1/4-mi. Pivot Irr.	acre		50.17	21.95	1.84			1.66	75.62	87.96	163.58
TOTALS		670.32	76.73	41.04	18.89	0.00	26.07	833.05	152.03	985.08	

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 22.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BTRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1353.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	6.40	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	175.35	188.49	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	31.89	0.00	49.80	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	105.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.60
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	0.00	6.00	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	4.57	6.42	0.15	0.20	0.15	0.00	7.40
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	5.84	7.33	15.05	20.07	15.05	0.00	13.39
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	3.60	2.99	18.47	1.99	1.49	0.00	12.50
INTEREST ON OP. CAP.	2.68	0.00	0.00	0.00	1.68	10.98	8.15	1.41	0.47	0.26	0.00	0.44
TOTAL DIRECT EXPENSES	44.64	0.00	0.00	0.00	41.17	305.34	263.18	54.71	22.73	16.95	0.00	84.33
NET INCOME	-44.64	0.00	0.00	0.00	-41.17	-305.34	-263.18	-54.71	-22.73	-16.95	0.00	1268.67
NET INCOME TO DATE	-44.64	-44.64	-44.64	-44.64	-85.81	-391.15	-654.33	-709.04	-731.77	-748.72	-748.72	519.95

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 22.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			4.61	4.92	5.22	5.53	5.84	6.15	6.45	6.76	7.07	7.38	7.68
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-300 -452	-266 -418	-232 -384	-198 -350	-164 -316	-131 -283	-97 -249	-63 -215	-29 -181	4 -147	38 -114
60	132.00	bu	-203 -355	-163 -315	-122 -274	-82 -234	-41 -193	-0 -152	39 -112	80 -71	120 -31	161 9	202 50
70	154.00	bu	-107 -259	-60 -212	-12 -164	34 -117	81 -70	129 -22	176 24	224 71	271 119	318 166	366 214
80	176.00	bu	-11 -163	43 -108	97 -54	151 -0	205 53	259 107	313 161	367 215	421 269	476 323	530 378
90	198.00	bu	85 -66	146 -5	207 55	267 115	328 176	389 237	450 298	511 359	572 420	633 481	694 542
100	220.00	bu	181 29	249 97	317 164	384 232	452 300	519 367	587 435	655 503	722 570	790 638	858 706
110	242.00	bu	278 126	352 200	426 274	501 349	575 423	650 498	724 572	798 646	873 721	947 795	1022 870
120	264.00	bu	374 222	455 303	536 384	618 465	699 547	780 628	861 709	942 790	1023 871	1105 953	1186 1034
130	286.00	bu	470 318	558 406	646 494	734 582	822 670	910 758	998 846	1086 934	1174 1022	1262 1110	1350 1198
140	308.00	bu	567 415	661 509	756 604	851 699	946 794	1040 888	1135 983	1230 1078	1324 1172	1419 1267	1514 1362
150	330.00	bu	663 511	765 613	866 714	968 816	1069 917	1171 1018	1272 1120	1373 1221	1475 1323	1576 1424	1678 1526

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 23.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	1.0000	7.60	_____
FERTILIZERS					
DAP	cwt	55.40	1.3000	72.02	_____
Potash (60% K2O)	cwt	46.60	1.0000	46.60	_____
UAN + Sulfur (28%)	gal	4.41	38.2883	168.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.34	32.0000	10.88	_____
2,4-D Amine 4	pt	3.33	2.0000	6.66	_____
Select Max	pt	13.86	1.0000	13.86	_____
Lexar	pt	6.76	6.0000	40.56	_____
INSECTICIDES					
Sivanto Prime	oz	3.36	8.0000	26.88	_____
Warrior II	oz	2.74	1.5000	4.11	_____
Prevathon	oz	1.16	14.0000	16.24	_____
SEED/PLANTS					
Sorghum Concept+ Po	lb	3.51	4.5000	15.79	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Sorghum Consultant	acre	6.00	1.0000	6.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.2915	4.83	_____
Harvesters	hour	16.54	0.1021	1.69	_____
Self-Propelled	hour	16.54	0.0661	1.10	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0330	0.30	_____
UNALLOCATED LABOR					
	hour	16.57	0.4138	6.86	_____
DIESEL FUEL					
Tractors	gal	4.48	3.3766	15.12	_____
Harvesters	gal	4.48	1.3935	6.24	_____
Self-Propelled	gal	4.48	0.8505	3.80	_____
REPAIR & MAINTENANCE					
Implements	acre	6.95	1.0000	6.95	_____
Tractors	acre	2.51	1.0000	2.51	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
INTEREST ON OP. CAP.	acre	17.05	1.0000	17.05	_____
TOTAL DIRECT EXPENSES				577.74	_____
FIXED EXPENSES					
Implements	acre	15.36	1.0000	15.36	_____
Tractors	acre	17.78	1.0000	17.78	_____
Harvesters	acre	21.68	1.0000	21.68	_____
Self-Propelled	acre	7.60	1.0000	7.60	_____
TOTAL FIXED EXPENSES				62.42	_____
TOTAL SPECIFIED EXPENSES				640.16	_____

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 23.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Grain Sorghum	bu	5.84	100.0000	584.00	_____

TOTAL INCOME				584.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	7.60	1.0000	7.60	_____
FERTILIZERS	acre	287.47	1.0000	287.47	_____
HERBICIDES	acre	71.96	1.0000	71.96	_____
INSECTICIDES	acre	47.23	1.0000	47.23	_____
SEED/PLANTS	acre	15.79	1.0000	15.79	_____
ADJUVANTS	acre	0.99	1.0000	0.99	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	6.00	1.0000	6.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1772	1.61	_____
OPERATOR LABOR	hour	16.54	0.4598	7.62	_____
UNALLOCATED LABOR	hour	16.57	0.4138	6.86	_____
DIESEL FUEL	gal	4.48	5.6208	25.16	_____
REPAIR & MAINTENANCE	acre	15.44	1.0000	15.44	_____
INTEREST ON OP. CAP.	acre	17.05	1.0000	17.05	_____

TOTAL DIRECT EXPENSES				577.74	_____
RETURNS ABOVE DIRECT EXPENSES				6.26	_____
TOTAL FIXED EXPENSES				62.42	_____

TOTAL SPECIFIED EXPENSES				640.16	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-56.16	_____

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 23.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, 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	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.6660				
Disk Harrow	32'	MFWD 225	0.061	1.00	Nov		0.06	0.06	0.06	0.05
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.3000				
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Apr		0.04	0.04	0.08	0.03
DAP	cwt					1.3000				
Potash (60% K2O)	cwt					1.0000				
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Apr		0.04	0.04	0.04	0.04
Plant - Folding	12R-30	MFWD 225	0.062	1.00	Apr		0.06	0.06	0.12	0.05
Sorghum Concept+ Po	lb					4.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Apr			0.01	0.01	0.01
Lexar	pt					6.0000				
Sorghum Consultant	acre			1.00	May	1.0000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May		0.07	0.07	0.11	0.07
UAN + Sulfur (28%)	gal					38.2883				
Sprayer 800gal	80' 250hp		0.013	1.00	Jun			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Warrior II	oz					1.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Prevathon	oz					14.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul			0.01	0.01	0.01
Sivanto Prime	oz					4.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Sep		0.10	0.10	0.10	0.09
Haul Sorghum	bu					100.0000				
TOTALS							0.45	0.39	0.63	0.41

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 23.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, 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
Disk Harrow	32'		3.18	1.92	1.93			0.41	7.44	7.07	14.51
App by Air (5 gal)	appl	7.60						0.32	7.92		7.92
Glyphosate 3lbs a.e	oz	10.88						0.46	11.34		11.34
2,4-D Amine 4	pt	6.66						0.28	6.94		6.94
Select Max	pt	13.86						0.59	14.45		14.45
Surfactant	pt	0.99						0.04	1.03		1.03
Spin Spreader	5 ton		2.18	0.70	1.71			0.15	4.74	3.35	8.09
DAP	cwt	72.02						2.30	74.32		74.32
Potash (60% K2O)	cwt	46.60						1.49	48.09		48.09
Field Cultivate Fld	32'		2.42	1.09	1.46			0.16	5.13	6.16	11.29
Plant - Folding	12R-30		3.26	2.40	2.55			0.26	8.47	7.90	16.37
Sorghum Concept+ Po	lb	15.79						0.51	16.30		16.30
Sprayer 800gal	80' 250hp		0.76	0.21	0.48			0.05	1.50	1.52	3.02
Lexar	pt	40.56						1.30	41.86		41.86
Sorghum Consultant	acre	6.00						0.16	6.16		6.16
Fert Appl (Liquid)	12R-30		4.08	2.28	2.83			0.25	9.44	6.84	16.28
UAN + Sulfur (28%)	gal	168.85						4.50	173.35		173.35
Sprayer 800gal	80' 250hp		0.76	0.21	0.48			0.03	1.48	1.52	3.00
Sivanto Prime	oz	13.44						0.29	13.73		13.73
Sprayer 800gal	80' 250hp		0.76	0.21	0.48			0.02	1.47	1.52	2.99
Warrior II	oz	4.11						0.07	4.18		4.18
Sprayer 800gal	80' 250hp		0.76	0.21	0.48			0.02	1.47	1.52	2.99
Prevathon	oz	16.24						0.26	16.50		16.50
Sprayer 800gal	80' 250hp		0.76	0.21	0.48			0.02	1.47	1.52	2.99
Sivanto Prime	oz	13.44						0.22	13.66		13.66
Header Wheat/Sorghum	25' Rigid		6.24	6.00	3.21			0.08	15.53	23.50	39.03
Haul Sorghum	bu	25.00						0.13	25.13		25.13
TOTALS		504.00	25.16	15.44	16.09	0.00	17.05	577.74	62.42	640.16	

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 23.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	584.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	0.00	118.62	168.85	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	31.40	0.00	40.56	0.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.44	33.79	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	15.79	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
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	0.00	6.00	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	1.93	0.00	0.00	0.00	0.00	6.20	2.83	0.48	1.44	0.00	3.21
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	3.18	0.00	0.00	0.00	0.00	8.62	4.08	0.76	2.28	0.00	6.24
REPAIR & MAINTENANCE	0.00	1.92	0.00	0.00	0.00	0.00	4.40	2.28	0.21	0.63	0.00	6.00
INTEREST ON OP. CAP.	2.68	0.41	0.00	0.00	1.69	0.00	6.22	4.91	0.32	0.61	0.00	0.21
TOTAL DIRECT EXPENSES	44.64	7.44	0.00	0.00	41.68	0.00	200.41	188.95	15.21	38.75	0.00	40.66
NET INCOME	-44.64	-7.44	0.00	0.00	-41.68	0.00	-200.41	-188.95	-15.21	-38.75	0.00	543.34
NET INCOME TO DATE	-44.64	-52.08	-52.08	-52.08	-93.76	-93.76	-294.17	-483.12	-498.33	-537.08	-537.08	6.26

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.

* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2023

PRODUCT	PERCENT													
	75	80	85	90	95	100	105	110	115	120	125			
Grain Sorghum	4.38	4.67	4.96	5.25	5.54	5.84	6.13	6.42	6.71	7.00	7.30			
PERCENT	YIELD	UNIT	dollars											
50	50.00	bu	-346 -408	-331 -393	-316 -379	-302 -364	-287 -350	-273 -335	-258 -320	-243 -306	-229 -291	-214 -277	-200 -262	
60	60.00	bu	-304 -367	-287 -349	-269 -332	-252 -314	-234 -297	-217 -279	-199 -262	-182 -244	-164 -227	-147 -209	-129 -192	
70	70.00	bu	-263 -326	-243 -305	-222 -285	-202 -264	-181 -244	-161 -223	-140 -203	-120 -182	-100 -162	-79 -142	-59 -121	
80	80.00	bu	-222 -284	-198 -261	-175 -238	-152 -214	-128 -191	-105 -167	-82 -144	-58 -121	-35 -97	-12 -74	11 -51	
90	90.00	bu	-181 -243	-154 -217	-128 -190	-102 -164	-75 -138	-49 -112	-23 -85	2 -59	29 -33	55 -6	81 19	
100	100.00	bu	-139 -202	-110 -172	-81 -143	-52 -114	-22 -85	6 -56	35 -26	64 2	93 31	123 60	152 89	
110	110.00	bu	-98 -160	-66 -128	-34 -96	-2 -64	30 -32	62 -0	94 31	126 63	158 96	190 128	222 160	
120	120.00	bu	-57 -119	-22 -84	12 -49	47 -14	82 20	118 55	153 90	188 125	223 160	258 195	293 230	
130	130.00	bu	-15 -78	22 -40	60 -2	98 35	135 73	173 111	211 149	249 187	287 225	325 263	363 301	
140	140.00	bu	25 -37	66 3	107 44	148 85	188 126	229 167	270 208	311 249	352 290	393 330	434 371	
150	150.00	bu	66 4	110 48	154 91	198 135	241 179	285 223	329 267	373 310	417 354	460 398	504 442	

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 24.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	7.60	2.0000	15.20	_____
App by Air (3 gal)	appl	6.40	1.0000	6.40	_____
FERTILIZERS					
DAP	cwt	55.40	1.0000	55.40	_____
Potash (60% K2O)	cwt	46.60	0.7500	34.95	_____
Fert 41-0-0-4	cwt	37.06	3.0480	112.96	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	4.5000	34.34	_____
Prosaro	oz	1.78	8.0000	14.24	_____
HERBICIDES					
Axiom	oz	2.10	10.0000	21.00	_____
Harmony Extra SG	oz	10.34	0.7500	7.76	_____
Axial XL	oz	1.71	16.4000	28.04	_____
INSECTICIDES					
Warrior II	oz	2.74	1.5000	4.11	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.38	90.0000	34.20	_____
CUSTOM FERTILIZE					
App Fert by Air	cwt	8.00	3.0480	24.38	_____
HAULING					
Haul Wheat	bu	0.26	70.0000	18.20	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.6660	38.63	_____
CROP CONSULTANT					
Wheat Consultant	acre	5.50	1.0000	5.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	0.2129	3.53	_____
Harvesters	hour	16.54	0.1021	1.69	_____
HAND LABOR					
Implements	hour	9.06	0.1049	0.95	_____
UNALLOCATED LABOR	hour	16.53	0.2521	4.17	_____
DIESEL FUEL					
Tractors	gal	4.48	2.4667	11.04	_____
Harvesters	gal	4.48	1.3935	6.24	_____
REPAIR & MAINTENANCE					
Implements	acre	5.43	1.0000	5.43	_____
Tractors	acre	1.83	1.0000	1.83	_____
Harvesters	acre	4.93	1.0000	4.93	_____
INTEREST ON OP. CAP.	acre	18.15	1.0000	18.15	_____
TOTAL DIRECT EXPENSES				516.60	_____
FIXED EXPENSES					
Implements	acre	13.49	1.0000	13.49	_____
Tractors	acre	12.99	1.0000	12.99	_____
Harvesters	acre	21.68	1.0000	21.68	_____
TOTAL FIXED EXPENSES				48.16	_____
TOTAL SPECIFIED EXPENSES				564.76	_____

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 24.B Summary of estimated costs and returns per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Wheat	bu	8.90	70.0000	623.00	_____

TOTAL INCOME				623.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	21.60	1.0000	21.60	_____
FERTILIZERS	acre	203.31	1.0000	203.31	_____
FUNGICIDES	acre	48.58	1.0000	48.58	_____
HERBICIDES	acre	56.80	1.0000	56.80	_____
INSECTICIDES	acre	4.11	1.0000	4.11	_____
SEED/PLANTS	acre	34.20	1.0000	34.20	_____
CUSTOM FERTILIZE	acre	24.38	1.0000	24.38	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	38.63	1.0000	38.63	_____
CROP CONSULTANT	acre	5.50	1.0000	5.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1049	0.95	_____
OPERATOR LABOR	hour	16.54	0.3151	5.22	_____
UNALLOCATED LABOR	hour	16.53	0.2521	4.17	_____
DIESEL FUEL	gal	4.48	3.8602	17.28	_____
REPAIR & MAINTENANCE	acre	12.19	1.0000	12.19	_____
INTEREST ON OP. CAP.	acre	18.15	1.0000	18.15	_____

TOTAL DIRECT EXPENSES				516.60	_____
RETURNS ABOVE DIRECT EXPENSES				106.40	_____
TOTAL FIXED EXPENSES				48.16	_____

TOTAL SPECIFIED EXPENSES				564.76	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				58.24	_____

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.

Table 24.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, 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	Sep	0.3330				
Lime (Spread)	ton			0.33	Sep	0.6660				
Disk Harrow	32'	MFWD 225	0.061	1.00	Sep		0.06	0.06	0.06	0.04
Spin Spreader	5 ton	MFWD 225	0.042	1.00	Sep		0.04	0.04	0.08	0.03
DAP	cwt					1.0000				
Potash (60% K2O)	cwt					0.7500				
Field Cultivate Fld	32'	MFWD 225	0.046	1.00	Sep		0.04	0.04	0.04	0.03
Grain Drill	30'	MFWD 225	0.062	1.00	Oct		0.06	0.06	0.12	0.05
Wheat Seed Private	lb					90.0000				
CruiserMaxx Vibrance	oz					4.5000				
Wheat Consultant	acre			1.00	Oct	1.0000				
App by Air (5 gal)	appl			1.00	Nov	1.0000				
Axiom	oz					10.0000				
App by Air (3 gal)	appl			1.00	Feb	1.0000				
Warrior II	oz					1.5000				
Harmony Extra SG	oz					0.7500				
Axial XL	oz					16.4000				
App Fert by Air	cwt			1.00	Feb	1.5240				
Fert 41-0-0-4	cwt					1.5240				
App Fert by Air	cwt			1.00	Mar	1.5240				
Fert 41-0-0-4	cwt					1.5240				
App by Air (5 gal)	appl			1.00	Apr	1.0000				
Prosaro	oz					8.0000				
Header Wheat/Sorghum	25' Rigid	265 hp	0.102	1.00	Jun		0.10	0.10	0.10	0.08
Haul Wheat	bu					70.0000				
TOTALS							0.31	0.31	0.42	0.25

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 24.D Estimated costs for field operations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, 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						0.18	3.51	3.51
Lime (Spread)	ton	38.63						2.06	40.69	40.69
Disk Harrow	32'		3.18	1.92	1.83			0.37	7.30	7.07
Spin Spreader	5 ton		2.18	0.70	1.64			0.24	4.76	3.35
DAP	cwt	55.40						2.95	58.35	58.35
Potash (60% K2O)	cwt	34.95						1.86	36.81	36.81
Field Cultivate Fld	32'		2.42	1.09	1.39			0.26	5.16	6.16
Grain Drill	30'		3.26	2.48	2.44			0.39	8.57	8.08
Wheat Seed Private	lb	34.20						1.64	35.84	35.84
CruiserMaxx Vibrance	oz	34.34						1.65	35.99	35.99
Wheat Consultant	acre	5.50						0.26	5.76	5.76
App by Air (5 gal)	appl	7.60						0.32	7.92	7.92
Axiom	oz	21.00						0.90	21.90	21.90
App by Air (3 gal)	appl	6.40						0.17	6.57	6.57
Warrior II	oz	4.11						0.11	4.22	4.22
Harmony Extra SG	oz	7.76						0.21	7.97	7.97
Axial XL	oz	28.04						0.75	28.79	28.79
App Fert by Air	cwt	12.19						0.33	12.52	12.52
Fert 41-0-0-4	cwt	56.48						1.51	57.99	57.99
App Fert by Air	cwt	12.19						0.26	12.45	12.45
Fert 41-0-0-4	cwt	56.48						1.20	57.68	57.68
App by Air (5 gal)	appl	7.60						0.12	7.72	7.72
Prosaro	oz	14.24						0.23	14.47	14.47
Header Wheat/Sorghum	25' Rigid		6.24	6.00	3.04			0.08	15.36	23.50
Haul Wheat	bu	18.20						0.10	18.30	18.30
TOTALS		458.64	17.28	12.19	10.34	0.00	18.15	516.60	48.16	564.76

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 24.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2023

ITEM	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
-----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	623.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	7.60	0.00	0.00	6.40	0.00	7.60	0.00	0.00
FERTILIZERS	0.00	0.00	90.35	0.00	0.00	0.00	0.00	56.48	56.48	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	34.34	0.00	0.00	0.00	0.00	0.00	14.24	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	21.00	0.00	0.00	35.80	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.11	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.19	12.19	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.20
CUSTOM LIME	0.00	0.00	38.63	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	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	4.86	2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04
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	7.78	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.24
REPAIR & MAINTENANCE	0.00	0.00	3.71	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
INTEREST ON OP. CAP.	0.00	0.00	7.92	3.94	1.22	0.00	0.00	3.08	1.46	0.35	0.00	0.18
TOTAL DIRECT EXPENSES	0.00	0.00	156.58	86.16	29.82	0.00	0.00	118.06	70.13	22.19	0.00	33.66
NET INCOME	0.00	0.00	-156.58	-86.16	-29.82	0.00	0.00	-118.06	-70.13	-22.19	0.00	589.34
NET INCOME TO DATE	0.00	0.00	-156.58	-242.74	-272.56	-272.56	-272.56	-390.62	-460.75	-482.94	-482.94	106.40

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.

* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Wheat			6.67	7.12	7.56	8.01	8.45	8.90	9.34	9.79	10.23	10.68	11.12
			PRODUCT PRICE										
PERCENT	YIELD	UNIT	dollars										
50	35.00	bu	-273	-258	-242	-227	-211	-195	-180	-164	-149	-133	-118
			-321	-306	-290	-275	-259	-244	-228	-212	-197	-181	-166
60	42.00	bu	-228	-210	-191	-172	-154	-135	-116	-98	-79	-60	-42
			-277	-258	-239	-221	-202	-183	-164	-146	-127	-108	-90
70	49.00	bu	-184	-162	-140	-118	-96	-75	-53	-31	-9	12	34
			-232	-210	-188	-166	-144	-123	-101	-79	-57	-35	-14
80	56.00	bu	-139	-114	-89	-64	-39	-14	10	35	60	85	110
			-187	-162	-137	-112	-87	-62	-37	-12	12	36	61
90	63.00	bu	-94	-66	-38	-10	17	45	73	102	130	158	186
			-142	-114	-86	-58	-30	-2	25	53	81	109	137
100	70.00	bu	-49	-18	12	44	75	106	137	168	199	231	262
			-97	-66	-35	-4	27	58	89	120	151	182	213
110	77.00	bu	-4	29	64	98	132	166	201	235	269	303	338
			-52	-18	15	50	84	118	152	187	221	255	290
120	84.00	bu	40	77	115	152	189	227	264	302	339	376	414
			-7	29	67	104	141	179	216	253	291	328	366
130	91.00	bu	85	125	166	206	247	287	328	368	409	449	490
			37	77	118	158	199	239	280	320	361	401	442
140	98.00	bu	130	173	217	261	304	348	391	435	479	522	566
			82	125	169	212	256	300	343	387	430	474	518
150	105.00	bu	175	221	268	315	362	408	455	502	548	595	642
			126	173	220	267	313	360	407	454	500	547	594

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

Table 25.A Estimated costs per acre
Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.2529	20.73	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR					
	hour	16.58	1.1080	18.38	_____
DIESEL FUEL					
Tractors	gal	4.48	13.5967	60.92	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
REPAIR & MAINTENANCE					
Implements	acre	10.49	1.0000	10.49	_____
Tractors	acre	9.85	1.0000	9.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.51	1.0000	11.51	_____
TOTAL DIRECT EXPENSES				635.29	_____
FIXED EXPENSES					
Implements	acre	47.57	1.0000	47.57	_____
Tractors	acre	69.70	1.0000	69.70	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
TOTAL FIXED EXPENSES				133.69	_____
TOTAL SPECIFIED EXPENSES				768.98	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____

TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1868	1.65	_____
OPERATOR LABOR	hour	16.54	1.3850	22.87	_____
UNALLOCATED LABOR	hour	16.58	1.1080	18.38	_____
DIESEL FUEL	gal	4.48	15.2806	68.46	_____
REPAIR & MAINTENANCE	acre	22.59	1.0000	22.59	_____
INTEREST ON OP. CAP.	acre	11.51	1.0000	11.51	_____

TOTAL DIRECT EXPENSES				635.29	_____
RETURNS ABOVE DIRECT EXPENSES				514.71	_____
TOTAL FIXED EXPENSES				133.69	_____

TOTAL SPECIFIED EXPENSES				768.98	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				381.02	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, 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	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Plt&Pre Rigid	8R-38	MFWD 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatas	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.38	1.25	1.57	1.10

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, 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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	8R-38		3.20	0.74	2.18			0.16	6.28	4.95	11.23
Peanut Plt&Pre Rigid	8R-38		6.27	3.21	4.69			0.38	14.55	12.12	26.67
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatus	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
TOTALS			489.83	68.46	22.59	42.90	0.00	11.51	635.29	133.69	768.98

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 25.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	19.31	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.40	7.37	1.20	1.60	0.80	31.53
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	0.67	10.31	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.20	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.62	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	216.45	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-216.45	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-263.34	-347.64	-437.01	-478.56	514.71

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.
 * Lease costs are based on hourly usage costs.

Table 25.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-175	-146	-118	-89	-60	-31	-3	25	54	83	111
			-309	-280	-251	-223	-194	-165	-136	-108	-79	-50	-21
60	1.20	ton	-95	-60	-26	8	42	77	111	146	180	215	249
			-228	-194	-159	-125	-90	-56	-21	12	47	81	116
70	1.40	ton	-14	25	66	106	146	186	227	267	307	347	388
			-148	-107	-67	-27	12	53	93	133	173	214	254
80	1.60	ton	66	112	158	204	250	296	342	388	434	480	526
			-67	-21	24	70	116	162	208	254	300	346	392
90	1.80	ton	146	198	250	301	353	405	457	508	560	612	664
			12	64	116	168	219	271	323	375	426	478	530
100	2.00	ton	227	284	342	399	457	514	572	629	687	744	802
			93	151	208	266	323	381	438	496	553	611	668
110	2.20	ton	307	371	434	497	560	624	687	750	813	877	940
			174	237	300	363	427	490	553	616	680	743	806
120	2.40	ton	388	457	526	595	664	733	802	871	940	1009	1078
			254	323	392	461	530	599	668	737	806	875	944
130	2.60	ton	468	543	618	693	767	842	917	992	1066	1141	1216
			335	409	484	559	634	708	783	858	933	1007	1082
140	2.80	ton	549	629	710	790	871	951	1032	1112	1193	1273	1354
			415	496	576	657	737	818	898	979	1059	1140	1220
150	3.00	ton	630	716	802	888	975	1061	1147	1233	1320	1406	1492
			496	582	668	755	841	927	1013	1100	1186	1272	1358

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 26.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	29.6000	4.44	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.2529	20.73	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR					
	hour	16.58	1.1080	18.38	_____
DIESEL FUEL					
Tractors	gal	4.48	13.5967	60.92	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
REPAIR & MAINTENANCE					
Implements	acre	14.03	1.0000	14.03	_____
Tractors	acre	9.85	1.0000	9.85	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____
TOTAL DIRECT EXPENSES				641.20	_____
FIXED EXPENSES					
Implements	acre	55.11	1.0000	55.11	_____
Tractors	acre	69.70	1.0000	69.70	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
TOTAL FIXED EXPENSES				141.23	_____
TOTAL SPECIFIED EXPENSES				782.43	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 26.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____

TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
INOCULANT	acre	4.44	1.0000	4.44	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1868	1.65	_____
OPERATOR LABOR	hour	16.54	1.3850	22.87	_____
UNALLOCATED LABOR	hour	16.58	1.1080	18.38	_____
DIESEL FUEL	gal	4.48	15.2806	68.46	_____
REPAIR & MAINTENANCE	acre	26.13	1.0000	26.13	_____
INTEREST ON OP. CAP.	acre	11.66	1.0000	11.66	_____

TOTAL DIRECT EXPENSES				641.20	_____
RETURNS ABOVE DIRECT EXPENSES				508.80	_____
TOTAL FIXED EXPENSES				141.23	_____

TOTAL SPECIFIED EXPENSES				782.43	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				367.57	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 26.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, 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	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Rigid	8R-38	MFWD 190	0.073	1.00	May		0.07	0.07	0.07	0.05
Peanut Ptl&PreTwin	8R-30/40	MFWD 225	0.120	1.00	May		0.12	0.12	0.24	0.09
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					29.6000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatas	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc. (Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.38	1.25	1.57	1.10

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 26.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, 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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Rigid	8R-38		3.20	0.70	2.18			0.16	6.24	4.68	10.92
Peanut Ptl&PreTwin	8R-30/40		6.27	6.79	4.69			0.47	18.22	19.93	38.15
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	4.44						0.12	4.56		4.56
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatus	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
TOTALS		492.05	68.46	26.13	42.90	0.00	11.66	641.20	141.23	782.43	

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 26.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	19.31	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.40	7.37	1.20	1.60	0.80	31.53
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	0.67	10.31	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	7.74	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.77	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	222.36	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-222.36	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-269.25	-353.55	-442.92	-484.47	508.80

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 26.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-181 -322	-152 -294	-124 -265	-95 -236	-66 -207	-37 -179	-9 -150	19 -121	48 -92	77 -64	105 -35
60	1.20	ton	-100 -242	-66 -207	-31 -173	2 -138	37 -104	71 -69	106 -35	140 -0	175 33	209 68	244 102
70	1.40	ton	-20 -161	19 -121	60 -81	100 -40	140 -0	180 39	221 79	261 120	301 160	341 200	382 240
80	1.60	ton	60 -81	106 -35	152 10	198 56	244 102	290 148	336 194	382 240	428 286	474 332	520 378
90	1.80	ton	140 -0	192 51	244 103	295 154	347 206	399 258	451 310	502 361	554 413	606 465	658 517
100	2.00	ton	221 80	278 137	336 195	393 252	451 310	508 367	566 425	623 482	681 540	738 597	796 655
110	2.20	ton	301 160	365 223	428 287	491 350	554 413	618 476	681 540	744 603	807 666	871 729	934 793
120	2.40	ton	382 241	451 310	520 379	589 448	658 517	727 586	796 655	865 724	934 793	1003 862	1072 931
130	2.60	ton	463 321	537 396	612 471	687 546	762 620	836 695	911 770	986 845	1061 919	1135 994	1210 1069
140	2.80	ton	543 402	624 482	704 563	785 643	865 724	946 804	1026 885	1107 965	1187 1046	1268 1126	1348 1207
150	3.00	ton	624 482	710 569	796 655	882 741	969 827	1055 914	1141 1000	1227 1086	1314 1172	1400 1259	1486 1345

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 27.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.6200	29.16	_____
DRYING					
Dry Peanuts	ton	24.00	1.1400	27.36	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.1856	19.61	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL					
Tractors	gal	4.48	12.9499	58.02	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
REPAIR & MAINTENANCE					
Implements	acre	11.30	1.0000	11.30	_____
Tractors	acre	9.41	1.0000	9.41	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
INTEREST ON OP. CAP.	acre	11.38	1.0000	11.38	_____
TOTAL DIRECT EXPENSES				630.25	_____
FIXED EXPENSES					
Implements	acre	49.22	1.0000	49.22	_____
Tractors	acre	66.56	1.0000	66.56	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
TOTAL FIXED EXPENSES				132.20	_____
TOTAL SPECIFIED EXPENSES				762.45	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 27.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.0000	1150.00	_____

TOTAL INCOME				1150.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	29.16	1.0000	29.16	_____
DRYING	acre	27.36	1.0000	27.36	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1465	1.29	_____
OPERATOR LABOR	hour	16.54	1.3178	21.75	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL	gal	4.48	14.6338	65.56	_____
REPAIR & MAINTENANCE	acre	22.96	1.0000	22.96	_____
INTEREST ON OP. CAP.	acre	11.38	1.0000	11.38	_____

TOTAL DIRECT EXPENSES				630.25	_____
RETURNS ABOVE DIRECT EXPENSES				519.75	_____
TOTAL FIXED EXPENSES				132.20	_____

TOTAL SPECIFIED EXPENSES				762.45	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				387.55	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, 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	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.1400				
Cleaning Peanuts	ton					1.6200				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
TOTALS							1.31	1.18	1.46	1.05

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, 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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	12R-38		2.40	0.63	1.37			0.12	4.52	4.13	8.65
Peanut Plt&Pre Fold.	12R-38		4.17	3.69	3.12			0.29	11.27	11.45	22.72
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatus	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	27.36						0.15	27.51		27.51
Cleaning Peanuts	ton	29.16						0.16	29.32		29.32
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
TOTALS		489.83	65.56	22.96	40.52	0.00	11.38	630.25	132.20	762.45	

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1150.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.16
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.36
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	19.31	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.40	4.99	1.20	1.60	0.80	31.53
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	0.67	7.41	2.01	2.68	1.34	51.45
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.20	4.57	0.60	0.80	0.40	16.39
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.46	5.49	1.77	1.39	0.43	0.84
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	46.89	211.41	84.30	89.37	41.55	156.73
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-211.41	-84.30	-89.37	-41.55	993.27
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-46.89	-258.30	-342.60	-431.97	-473.52	519.75

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.
 * Lease costs are based on hourly usage costs.

Table 27.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.00	ton	-170 -302	-141 -274	-113 -245	-84 -216	-55 -187	-26 -159	1 -130	30 -101	59 -72	88 -44	116 -15
60	1.20	ton	-90 -222	-55 -187	-21 -153	13 -118	47 -84	82 -49	116 -15	151 19	185 53	220 88	254 122
70	1.40	ton	-9 -141	30 -101	71 -61	111 -20	151 19	191 59	232 99	272 140	312 180	352 220	393 260
80	1.60	ton	71 -61	117 -15	163 30	209 76	255 122	301 168	347 214	393 260	439 306	485 352	531 398
90	1.80	ton	151 19	203 71	255 122	306 174	358 226	410 278	462 329	513 381	565 433	617 485	669 536
100	2.00	ton	232 100	289 157	347 215	404 272	462 330	519 387	577 445	634 502	692 560	749 617	807 675
110	2.20	ton	312 180	376 243	439 307	502 370	565 433	629 496	692 560	755 623	818 686	882 749	945 813
120	2.40	ton	393 261	462 330	531 399	600 468	669 537	738 606	807 675	876 744	945 813	1014 882	1083 951
130	2.60	ton	473 341	548 416	623 491	698 566	772 640	847 715	922 790	997 865	1071 939	1146 1014	1221 1089
140	2.80	ton	554 422	635 502	715 583	796 663	876 744	957 824	1037 905	1118 985	1198 1066	1279 1146	1359 1227
150	3.00	ton	635 502	721 589	807 675	893 761	980 847	1066 934	1152 1020	1238 1106	1325 1192	1411 1279	1497 1365

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 28.A Estimated costs per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.88	30.0000	56.40	_____
Convoy	oz	1.13	24.0000	27.12	_____
Bravo Weather Stick	pt	6.32	2.2500	14.22	_____
Tebuconazole 3.6	oz	0.75	7.2000	5.40	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.41	13.0000	18.33	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	5.38	4.0000	21.52	_____
Dual Magnum	pt	11.45	1.0000	11.45	_____
Valor SX	oz	3.20	3.0000	9.60	_____
Storm	pt	12.65	1.5000	18.98	_____
Cadre	oz	1.97	4.0000	7.88	_____
Butyrac 200 (2,4-DB)	pt	4.06	2.0000	8.12	_____
Select Max	pt	13.86	1.0000	13.86	_____
INSECTICIDES					
Admire Pro	oz	1.76	9.0000	15.84	_____
Acephate 90%	lb	9.30	0.1375	1.28	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Peanut Seed	lb	0.84	150.0000	126.00	_____
ADJUVANTS					
Crop Oil Conc. (Veg.)	pt	2.90	6.0000	17.40	_____
CLEANING					
Cleaning Peanuts	ton	18.00	1.8700	33.66	_____
DRYING					
Dry Peanuts	ton	24.00	1.3200	31.68	_____
CUSTOM LIME					
Lime (Spread)	ton	58.00	0.3330	19.31	_____
INOCULANT					
Optimize LIFT	oz	0.15	14.8000	2.22	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	16.54	1.2642	20.92	_____
Self-Propelled	hour	16.54	0.1321	2.14	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3250	2.96	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0660	0.56	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL					
Tractors	gal	4.48	13.6762	61.28	_____
Self-Propelled	gal	4.48	1.6839	7.54	_____
Irrigate Peanuts	gal	4.48	9.7755	43.80	_____
REPAIR & MAINTENANCE					
Implements	acre	11.55	1.0000	11.55	_____
Tractors	acre	9.90	1.0000	9.90	_____
Self-Propelled	acre	2.25	1.0000	2.25	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	12.78	1.0000	12.78	_____
TOTAL DIRECT EXPENSES				708.19	_____
FIXED EXPENSES					
Implements	acre	51.04	1.0000	51.04	_____
Tractors	acre	70.04	1.0000	70.04	_____
Self-Propelled	acre	16.42	1.0000	16.42	_____
Irrigate Peanuts	acre	65.01	1.0000	65.01	_____
TOTAL FIXED EXPENSES				202.51	_____
TOTAL SPECIFIED EXPENSES				910.70	_____

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year.

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 28.B Summary of estimated costs and returns per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2023

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Peanut Runner	ton	575.00	2.3000	1322.50	_____

TOTAL INCOME				1322.50	_____
DIRECT EXPENSES					
FUNGICIDES	acre	156.52	1.0000	156.52	_____
HERBICIDES	acre	91.41	1.0000	91.41	_____
INSECTICIDES	acre	17.12	1.0000	17.12	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	126.00	1.0000	126.00	_____
ADJUVANTS	acre	17.40	1.0000	17.40	_____
CLEANING	acre	33.66	1.0000	33.66	_____
DRYING	acre	31.68	1.0000	31.68	_____
CUSTOM LIME	acre	19.31	1.0000	19.31	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1465	1.29	_____
IRRIGATE LABOR	hour	9.06	0.3875	3.53	_____
OPERATOR LABOR	hour	16.54	1.3964	23.06	_____
UNALLOCATED LABOR	hour	16.57	1.0543	17.48	_____
DIESEL FUEL	gal	4.48	25.1356	112.62	_____
REPAIR & MAINTENANCE	acre	30.86	1.0000	30.86	_____
INTEREST ON OP. CAP.	acre	12.78	1.0000	12.78	_____

TOTAL DIRECT EXPENSES				708.19	_____
RETURNS ABOVE DIRECT EXPENSES				614.31	_____
TOTAL FIXED EXPENSES				202.51	_____

TOTAL SPECIFIED EXPENSES				910.70	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				411.80	_____

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.C Estimated resource use for field operations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, 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	Apr	0.3330				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.00
Glyphosate 3lbs a.e	pt					4.0000				
Lime (Spread)	ton			0.33	Apr	0.3330				
Bed-Rip/Disk Fold.	12R-38	MFWD 225	0.046	1.00	May		0.04	0.04	0.04	0.03
Peanut Plt&Pre Fold.	12R-38	MFWD 225	0.080	1.00	May		0.08	0.08	0.16	0.06
Peanut Seed	lb					150.0000				
Optimize LIFT	oz					14.8000				
Admire Pro	oz					9.0000				
Abound	oz					12.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Dual Magnum	pt					1.0000				
Valor SX	oz					3.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.25	May			0.00	0.00	0.00
Acephate 90%	lb					0.1375				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Convoy	oz					24.0000				
Bravo Weather Stick	pt					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Storm	pt					1.5000				
Cadre	oz					4.0000				
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Tebuconazole 3.6	oz					7.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Elatus	oz					9.2000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Butyrac 200 (2,4-DB)	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Select Max	pt					1.0000				
Crop Oil Conc.(Veg.)	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Provost Silver	oz					13.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Abound	oz					18.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Bravo Weather Stick	pt					0.7500				
Peanut Dig/Invertor	6R-38	MFWD 190	0.124	1.00	Sep		0.12	0.12	0.12	0.09
Peanut Harvester	6R-38	MFWD 225	0.625	1.00	Sep		0.62	0.62	0.62	0.50
Dry Peanuts	ton					1.3200				
Cleaning Peanuts	ton					1.8700				
Peanut Dump Cart	6-Row	MFWD 190	0.310	1.00	Sep		0.31	0.31	0.31	0.24
Irrigate Peanuts	acre				Jan	1.0000	0.07	0.07	0.46	
TOTALS							1.39	1.26	1.93	1.05

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.D Estimated costs for field operations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, 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						0.11	3.44		3.44
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.04	1.31	1.46	2.77
Glyphosate 3lbs a.e	pt	21.52						0.69	22.21		22.21
Lime (Spread)	ton	19.31						0.62	19.93		19.93
Bed-Rip/Disk Fold.	12R-38		2.40	0.63	1.37			0.12	4.52	4.13	8.65
Peanut Plt&Pre Fold.	12R-38		4.17	3.69	3.12			0.29	11.27	11.45	22.72
Peanut Seed	lb	126.00						3.36	129.36		129.36
Optimize LIFT	oz	2.22						0.06	2.28		2.28
Admire Pro	oz	15.84						0.42	16.26		16.26
Abound	oz	22.56						0.60	23.16		23.16
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Dual Magnum	pt	11.45						0.31	11.76		11.76
Valor SX	oz	9.60						0.26	9.86		9.86
Sprayer 600-825gal	90' 250hp		0.17	0.05	0.10			0.01	0.33	0.36	0.69
Acephate 90%	lb	1.28						0.03	1.31		1.31
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Convoy	oz	27.12						0.58	27.70		27.70
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Storm	pt	18.98						0.40	19.38		19.38
Cadre	oz	7.88						0.17	8.05		8.05
Butyrac 200 (2,4-DB)	pt	4.06						0.09	4.15		4.15
Crop Oil Conc.(Veg.)	pt	5.80						0.12	5.92		5.92
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.03	1.30	1.46	2.76
Bravo Weather Stick	pt	4.74						0.10	4.84		4.84
Tebuconazole 3.6	oz	5.40						0.12	5.52		5.52
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Elatus	oz	35.05						0.56	35.61		35.61
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Butyrac 200 (2,4-DB)	pt	4.06						0.06	4.12		4.12
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Select Max	pt	13.86						0.22	14.08		14.08
Crop Oil Conc.(Veg.)	pt	5.80						0.09	5.89		5.89
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.02	1.29	1.46	2.75
Provost Silver	oz	18.33						0.29	18.62		18.62
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Abound	oz	33.84						0.36	34.20		34.20
Sprayer 600-825gal	90' 250hp		0.67	0.20	0.40			0.01	1.28	1.46	2.74
Bravo Weather Stick	pt	4.74						0.05	4.79		4.79
Peanut Dig/Invertor	6R-38		5.44	1.95	3.69			0.06	11.14	8.10	19.24
Peanut Harvester	6R-38		32.43	11.13	18.61			0.33	62.50	71.29	133.79
Dry Peanuts	ton	31.68						0.17	31.85		31.85
Cleaning Peanuts	ton	33.66						0.18	33.84		33.84
Peanut Dump Cart	6-Row		13.58	3.31	9.23			0.14	26.26	20.81	47.07
Irrigate Peanuts	acre	7.92	47.06	7.90	4.84			1.36	69.08	70.31	139.39
TOTALS		506.57	112.62	30.86	45.36	0.00	12.78	708.19	202.51	910.70	

Note: Cost of production estimates are based on 2022 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.E Estimated monthly income and expense flows per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2023

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----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	1322.50
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56	42.00	53.38	38.58	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	21.52	21.05	30.92	17.92	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12	0.00	0.00	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	0.00	126.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.80	11.60	0.00	0.00
CLEANING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.66
DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.68
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	19.31	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00
LABOR	0.63	0.00	0.00	0.00	0.00	0.00	0.63	7.40	1.43	2.06	1.68	31.53
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	1.66	0.00	0.00	0.00	0.00	0.00	0.67	8.27	12.96	24.58	13.03	51.45
REPAIR & MAINTENANCE	0.36	0.00	0.00	0.00	0.00	0.00	0.20	7.73	1.65	2.90	1.63	16.39
INTEREST ON OP. CAP.	0.17	0.00	0.00	0.00	0.00	0.00	1.47	5.88	2.03	1.77	0.58	0.88
TOTAL DIRECT EXPENSES	2.82	0.00	0.00	0.00	0.00	0.00	47.13	226.15	96.79	114.21	55.50	165.59
NET INCOME	-2.82	0.00	0.00	0.00	0.00	0.00	-47.13	-226.15	-96.79	-114.21	-55.50	1156.91
NET INCOME TO DATE	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82	-49.95	-276.10	-372.89	-487.10	-542.60	614.31

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

Fertilizer recommendations are based on the nutrients that the peanut crop removes.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 28.F Estimated returns for various price/yield combinations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2023

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			431.25	460.00	488.75	517.50	546.25	575.00	603.75	632.50	661.25	690.00	718.75
PERCENT	YIELD	UNIT	dollars										
50	1.15	ton	-179 -381	-146 -348	-113 -315	-80 -282	-47 -249	-14 -216	18 -183	52 -150	85 -117	118 -84	151 -51
60	1.38	ton	-86 -289	-47 -249	-7 -209	32 -170	71 -130	111 -90	151 -51	190 -11	230 28	270 67	309 107
70	1.61	ton	5 -196	52 -150	98 -104	144 -57	190 -11	237 34	283 81	329 127	376 173	422 219	468 266
80	1.84	ton	98 -104	151 -51	204 1	257 54	310 107	362 160	415 213	468 266	521 319	574 372	627 424
90	2.07	ton	191 -11	250 48	310 107	369 167	429 226	488 286	548 345	607 405	667 464	726 524	786 583
100	2.30	ton	283 81	349 147	415 213	482 279	548 345	614 411	680 477	746 544	812 610	878 676	944 742
110	2.53	ton	376 173	449 246	521 319	594 392	667 464	739 537	812 610	885 682	958 755	1030 828	1103 901
120	2.76	ton	468 266	548 345	627 425	706 504	786 583	865 663	945 742	1024 821	1103 901	1183 980	1262 1059
130	2.99	ton	561 359	647 444	733 530	819 616	905 702	991 788	1077 874	1163 960	1249 1046	1335 1132	1421 1218
140	3.22	ton	654 451	746 544	839 636	931 729	1024 821	1117 914	1209 1007	1302 1099	1394 1192	1487 1284	1579 1377
150	3.45	ton	746 544	845 643	945 742	1044 841	1143 941	1242 1040	1341 1139	1441 1238	1540 1337	1639 1436	1738 1536

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

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 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	Futures	Basis ^b	Forward	Loan Rated	Budget
		Contract Month	Contract Price ^a		Contract Price ^c		
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	07389
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				5.84	4.09	5.84
Peanuts	ton				575.00	354.895	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 2022 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 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.

Appendix Table 9 Estimated costs for field operations, per acre
 Irrigation with a 1/4-mile center pivot system
 135-acre 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	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.27			0.01	0.28	0.28
Maintenance										
IRRIGATE LABOR	hour				1.07			0.03	1.10	1.10
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Apply Water										
IRRIGATE LABOR	hour				0.20				0.20	0.20
Apply Water										
IRRIGATE LABOR	hour				0.15				0.15	0.15
Pivot, 1/4 CP	each			13.48				0.36	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	163.58

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

Appendix Table 10 Estimated costs for field operations, per acre
 Peanuts irrigated with roll-out pipe
 160-acre system, 12 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-----										
Land Plane	50'x16'		1.66	0.36	0.63		0.17	2.82	2.11	4.93
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			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
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, PNUT	each								10.48	10.48
1st July Irrigation	ac-in		10.95	1.05			0.26	12.26		12.26
1st Aug Irrigation	ac-in		10.95	1.05			0.19	12.19		12.19
2nd Aug Irrigation	ac-in		10.95	1.05			0.19	12.19		12.19
1st Sep Irrigation	ac-in		10.95	1.05			0.13	12.13		12.13
TOTALS		7.92	47.06	7.90	4.84	0.00	1.36	69.08	70.31	139.39

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

Appendix Table 11 Estimated costs for field operations, per acre
 Irrigation with a 1/2-mile center pivot system
 530-acre 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	TOTAL		
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.07			0.07		0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Pivot, 1/2 CP	each			8.60			0.23	8.83	40.29	49.12
Well & Pump, 1/2 CP	each			1.13			0.03	1.16	4.01	5.17
Engine, 1/2 CP, 174	each								5.65	5.65
June Irr. 3app@.75"	ac-in		22.05	0.68			0.61	23.34		23.34
July Irr. 4app@.75"	ac-in		29.40	0.91			0.65	30.96		30.96
Aug Irr. 3app@.75"	ac-in		22.05	0.68			0.36	23.09		23.09
TOTALS		0.00	73.50	12.00	0.47	0.00	1.89	87.86	49.95	137.81

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

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