

NON-DELTA 2024 PLANNING BUDGETS

**Mississippi State University
Department of Agricultural Economics
Budget Report 2023-06**

November 2023

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2024 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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Corn, Grain Sorghum, and Wheat

Will Maples, MSU-ES, Co-Chair
Brian Mills, MSU-ES, Co-Chair
Erick Larson, MSU-ES/MAFES
Jason Bond, MSU-ES/MAFES
Don Cook, MAFES
Whitney Crow, MSU-ES
Drew Gholson, MSU-ES/MAFES
Tyler Towles, MSU-ES/MAFES
Corey Bryant, MSU-ES/MAFES

Cotton

Will Maples, MSU-ES, Co-Chair
Brian Mills, MSU-ES, Co-Chair
Brian Pieralisi, MSU-ES
Jason Bond, MSU-ES/MAFES
Don Cook, MAFES
Whitney Crow, MSU-ES
Tyler Towles, MSU-ES/MAFES
Corey Bryant, MSU-ES/MAFES

Peanuts

Will Maples, MSU-ES, Co-Chair
Brian Mills, MSU-ES, Co-Chair
Tyler Towles, MSU-ES/MAFES
Alan Henn, MSU-ES
Brendan Zurweller, MSU-ES

Rice

Will Maples, MSU-ES, Co-Chair
Brian Mills, MSU-ES, Co-Chair
Tom Allen, MSU-ES/MAFES
Jason Bond, MSU-ES/MAFES
Drew Gholson, MSU-ES/MAFES
Tyler Towles, MSU-ES/MAFES
Hunter Bowman, MSU-ES/MAFES

Soybeans

Will Maples, MSU-ES, Co-Chair
Brian Mills, MSU-ES, Co-Chair
Trent Irby, MSU-ES
Tom Allen, MSU-ES/MAFES
Jason Bond, MSU-ES/MAFES
Don Cook, MAFES
Whitney Crow, MSU-ES
Drew Gholson, MSU-ES/MAFES
Tyler Towles, MSU-ES/MAFES

Supporting Committees

Equipment

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

Prices

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

Documentation and Data Processing

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

Publication Review

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

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2024 Planning Budgets

Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for a major crop produced by Mississippi farmers. A multidisciplinary approach involving researchers and extension personnel was used to determine production practices and input quantities, and to estimate costs and returns for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs and returns for each budget included in this publication.

Enterprise budgets represent a type of information that can be used by a wide variety of individuals in making decisions in the food and fiber industry. They are used:

- by farmers for planning,
- by extension personnel in providing educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform non-farmers of the costs incurred by farmers in the production of food and fiber crops.

A budget should be prepared with a specific objective in mind. The budgets in this report were prepared to provide general information for several different uses. They provide information concerning general levels of costs and returns which will need to be adjusted for specific situations. Most users should think of these budgets as a first approximation and then make appropriate adjustments using the "Your Farm" column provided on each budget to add, delete, or change costs or incomes to reflect their specific situations.

Methods and Procedures

Production Practices

The production practices listed in each budget are the result of a combined effort by researchers and extension personnel to represent those practices that producers could use in a specific production system. Producers might use different practices in their own operations. If different types and quantities of operating inputs are to be used, then the budgeted expenses should be changed to more accurately reflect actual input usage.

Committees made up of appropriate disciplines from the Mississippi Agricultural and Forestry Experiment Station, the Mississippi State University Extension Service, and the U.S. Department of Agriculture review and update the practices in the budgets every year. The updates are based on the collective judgment of the committee members. Quantities of materials and individual production practices budgeted are based on generally accepted recommendations by committee members.

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2023. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

RPH = R&M cost per hour of use

RLC = Replacement cost of machine

RP = R&M percentage (percent of RLC)

THL = Total hours of machine life

RPA = R&M cost per acre

PR = Performance rate

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

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

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

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

Estimates of Fixed Costs

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

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

where:

CRF = Capital recovery factor

IIR = Intermediate-term interest rate

TYL = Total years of life

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

where:

CRCPY = Capital recovery charge per year

RLC = Replacement cost

SV = Salvage value (at end of useful life)

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

It is difficult to estimate crop yields that may be expected for a particular production system in a given year. Crop yields used in the budgets are representative of historical yields modified to match the production system used to produce the yield. All yields including conventional, no-tillage, irrigation, and double-cropping are tempered with unpublished research and judgments of the commodity committees. Producers should use yield estimates that are reflective of their own 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 2023 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

The futures price for an appropriate contract month is determined by averaging the closing prices for the first five trading days in October. The basis is determined by subtracting the average daily cash price for the month of October from the average daily closing price of the specified harvest month futures contract. These average futures prices and the basis adjustments are presented in Appendix Table 7.

A special table is presented to illustrate the effects of alternative levels of yields and prices on net returns. The budgeted yield and the budgeted price are used as base values (100 percent). Yields are then varied from 50 to 150 percent of the base yield while prices are varied from 75 to 125 percent of the base price. Net returns are computed for each combination of yield and price.

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.9288	16.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
DIESEL FUEL					
Tractors	gal	3.44	14.3433	49.32	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	14.48	1.0000	14.48	_____
Tractors	acre	10.37	1.0000	10.37	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				825.22	_____
FIXED EXPENSES					
Implements	acre	27.22	1.0000	27.22	_____
Tractors	acre	80.15	1.0000	80.15	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				181.43	_____
TOTAL SPECIFIED EXPENSES				1006.65	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year

Table 1.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year

Table 1.C Estimated resource use for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
Bed-Subsoil Fold	8R-38	MFWD 300	0.080	1.00	Nov			0.08	0.08	0.08	0.06
Bed/Disk (Hipper) Rd	8R-38	MFWD 300	0.074	0.50	Nov			0.03	0.03	0.03	0.02
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar				0.01	0.01	0.00
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						1.0000				
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 2023 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.80	0.00	0.00	0.00	0.43	2.85	5.88	5.74	0.86	0.43	0.65	23.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.26	0.00	0.00	0.00	0.51	4.12	8.15	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	3.71	0.00	0.00	0.00	0.21	2.40	4.22	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	10.07	0.00	0.00	0.00	0.93	3.23	9.26	4.22	0.67	0.15	0.25	1.33
TOTAL DIRECT EXPENSES	132.26	0.00	0.00	0.00	17.89	70.47	233.61	126.82	25.28	7.49	18.05	193.35
NET INCOME	-132.26	0.00	0.00	0.00	-17.89	-70.47	-233.61	-126.82	-25.28	-7.49	-18.05	757.95
NET INCOME TO DATE	-132.26	-132.26	-132.26	-132.26	-150.15	-220.62	-454.23	-581.05	-606.33	-613.82	-631.87	126.08

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Table 2.A Estimated costs per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethepron 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.7365	13.20	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
UNALLOCATED LABOR	hour	17.93	0.8069	14.47	_____
DIESEL FUEL					
Tractors	gal	3.44	11.3731	39.10	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.	acre	26.23	1.0000	26.23	_____
<hr/>					
TOTAL DIRECT EXPENSES				745.68	_____
FIXED EXPENSES					
Implements	acre	20.11	1.0000	20.11	_____
Tractors	acre	63.55	1.0000	63.55	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
<hr/>					
TOTAL FIXED EXPENSES				157.72	_____
<hr/>					
TOTAL SPECIFIED EXPENSES				903.40	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre		0.33	Nov		0.3330				
Lime (Spread)	ton		0.33	Nov		0.6660				
Custom Apply Fert	acre		1.00	Nov		1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May			0.05	0.05	0.05
NT Plant-Folding	8R-38	MFWD 300	0.077	1.00	May			0.07	0.07	0.15
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
UAN (32%)	gal					18.4000				0.06
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun			0.06	0.06	0.10
Engenia	oz					12.8000				
Glyphosate 3lbs a.e.	oz					32.0000				
Dual Magnum	pt					1.0000				
Centric 40WG	oz					2.0000				
Mepiquat Chloride	oz					16.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz					16.0000				
Acephate 90%	lb					0.7500				
Incidental Pest				1.00	Jul					
Sprayer 600-825gal	90' 250hp		0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb					0.7500				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz					2.3000				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 6E	pt					0.3125				
Cotton Picker	6R-38 (355)		0.172	1.00	Oct			0.17	0.34	0.13
Boll Buggy	6R-38 (355)	MFWD 300	0.172	1.00	Oct			0.17	0.17	0.13
Module Builder	6R-38 (355)	MFWD 300	0.172	1.00	Oct			0.17	0.17	0.34
Gin & Haul	lb					900.0000				0.13
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct			0.11	0.11	0.08
TOTALS								1.00	0.73	1.55
										0.80

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.43	0.00	5.99	5.74	0.86	0.43	0.65	23.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.51	0.00	8.31	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	4.57	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.28	4.76	0.67	0.15	0.25	1.25
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	234.25	143.09	25.28	7.49	18.05	182.27
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-234.25	-143.09	-25.28	-7.49	-18.05	673.90
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-369.50	-512.59	-537.87	-545.36	-563.41	110.49

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

PRODUCT	PERCENT	75	80	85	90	95	100	105	110	115	120	125	PRODUCT PRICE											
													0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	
PERCENT	YIELD	UNIT	dollars																					
Cotton Lint			-291 -448	-273 -430	-255 -412	-237 -394	-218 -376	-200 -358	-182 -340	-164 -322	-146 -304	-128 -286	-110 -268											
50	450.00	lb	-247 -404	-225 -383	-203 -361	-181 -339	-160 -318	-138 -296	-116 -274	-95 -253	-73 -231	-51 -209	-30 -187											
60	540.00	lb	-202 -360	-177 -335	-152 -309	-126 -284	-101 -259	-76 -234	-51 -208	-25 -183	-0 -158	24 -132	50 -107											
70	630.00	lb	-158 -316	-129 -287	-100 -258	-71 -229	-42 -200	-14 -171	14 -142	43 -113	72 -85	101 -56	130 -27											
80	720.00	lb	-114 -272	-81 -239	-49 -207	-16 -174	15 -142	48 -109	80 -77	113 -44	145 -11	178 20	210 53											
90	810.00	lb	-70 -227	-34 -191	2 -155	38 -119	74 -83	110 -47	146 -11	182 25	218 61	254 97	291 133											
100	900.00	lb	-25 -183	13 -143	53 -104	93 -64	133 -24	172 15	212 54	252 94	291 134	331 174	371 213											
110	990.00	lb	18 -139	61 -96	105 -52	148 -9	191 33	235 77	278 120	321 164	365 207	408 250	451 294											
120	1080.00	lb	62 -95	109 -48	156 -1	203 45	250 92	297 139	344 186	391 233	438 280	485 327	532 374											
130	1170.00	lb	106 -50	157 -0	207 50	258 100	309 151	359 201	410 252	460 303	511 353	561 404	612 454											
140	1260.00	lb	150 -6	205 47	259 101	313 155	367 210	421 264	476 318	530 372	584 426	638 480	692 535											

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

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

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

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

Table 3.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.5592	10.03		_____
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.					
	acre	29.17	1.0000	29.17	_____
TOTAL DIRECT EXPENSES				787.41	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				191.83	_____
TOTAL SPECIFIED EXPENSES				979.24	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
			dollars		dollars
INCOME					
Cotton Lint	lb	0.80	1000.0000	802.80	_____
Cotton Seed	lb	0.11	1350.0000	148.50	_____
TOTAL INCOME				951.30	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	110.00	1.0000	110.00	_____
FERTILIZERS	acre	170.04	1.0000	170.04	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3458	3.10	_____
OPERATOR LABOR	hour	17.94	0.6990	12.53	_____
UNALLOCATED LABOR	hour	17.93	0.5592	10.03	_____
DIESEL FUEL	gal	3.44	12.2980	42.28	_____
REPAIR & MAINTENANCE	acre	42.82	1.0000	42.82	_____
INTEREST ON OP. CAP.	acre	29.17	1.0000	29.17	_____
TOTAL DIRECT EXPENSES				787.41	_____
RETURNS ABOVE DIRECT EXPENSES				163.89	_____
TOTAL FIXED EXPENSES				191.83	_____
TOTAL SPECIFIED EXPENSES				979.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-27.94	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
Bed-Subsoil Fold	12R-38	MFWD	300	0.053	1.00	Nov		0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD	300	0.049	0.50	Nov		0.02	0.02	0.02	0.01
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						1.0000				
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							1.0000				
Sprayer 600-825gal	90' 250hp			0.011		Jul			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						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 2023 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.43	1.90	4.23	3.97	0.86	0.43	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.17	0.00	0.00	0.00	0.51	2.75	5.83	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	9.07	4.05	0.67	0.15	0.25	1.19
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	228.87	121.34	25.28	7.49	18.05	172.82
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-228.87	-121.34	-25.28	-7.49	-18.05	778.48
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-442.43	-563.77	-589.05	-596.54	-614.59	163.89

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2987	5.36	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.95	0.4567	8.20	_____	
DIESEL FUEL					
Tractors	gal	3.44	4.6137	15.88	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
implements	acre	7.52	1.0000	7.52	_____
Tractors	acre	3.35	1.0000	3.35	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.	acre	25.73	1.0000	25.73	_____
TOTAL DIRECT EXPENSES				714.85	_____
FIXED EXPENSES					
implements	acre	12.19	1.0000	12.19	_____
Tractors	acre	25.78	1.0000	25.78	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				173.39	_____
TOTAL SPECIFIED EXPENSES				888.24	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Cotton Lint	lb	0.80	900.0000	722.52	_____
Cotton Seed	lb	0.11	1215.0000	133.65	_____
TOTAL INCOME				856.17	_____
DIRECT EXPENSES					
HARVEST AIDS	acre	16.07	1.0000	16.07	_____
GINNING	acre	99.00	1.0000	99.00	_____
FERTILIZERS	acre	127.90	1.0000	127.90	_____
FUNGICIDES	acre	20.00	1.0000	20.00	_____
HERBICIDES	acre	99.45	1.0000	99.45	_____
INSECTICIDES	acre	48.24	1.0000	48.24	_____
SEED/PLANTS	acre	117.00	1.0000	117.00	_____
GROWTH REGULATORS	acre	2.24	1.0000	2.24	_____
ADJUVANTS	acre	1.32	1.0000	1.32	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
ERADICATION FEE	acre	1.00	1.0000	1.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
CROP CONSULTANT	acre	8.00	1.0000	8.00	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.3220	2.89	_____
OPERATOR LABOR	hour	17.94	0.5709	10.24	_____
UNALLOCATED LABOR	hour	17.95	0.4567	8.20	_____
DIESEL FUEL	gal	3.44	10.3205	35.47	_____
REPAIR & MAINTENANCE	acre	37.98	1.0000	37.98	_____
INTEREST ON OP. CAP.	acre	25.73	1.0000	25.73	_____
TOTAL DIRECT EXPENSES				714.85	_____
RETURNS ABOVE DIRECT EXPENSES				141.32	_____
TOTAL FIXED EXPENSES				173.39	_____
TOTAL SPECIFIED EXPENSES				888.24	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-32.07	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	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				
Ethepron 6E	pt					2.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt					0.5000				
Ethepron 6E	pt					0.3125				
Cotton Picker/Module	6R-38(500)		0.172	1.00	Oct				0.17	0.34 0.13
Gin & Haul	lb					900.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct			0.11	0.11	0.11 0.08
TOTALS								0.57	0.29	0.89 0.45

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.43	0.00	4.32	3.97	0.86	0.43	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.51	0.00	5.94	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	3.98	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.09	4.59	0.67	0.15	0.25	1.11
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	229.43	137.61	25.28	7.49	18.05	161.74
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-229.43	-137.61	-25.28	-7.49	-18.05	694.43
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-364.68	-502.29	-527.57	-535.06	-553.11	141.32

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Table 5.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Enephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Engenia	oz	0.80	25.6000	20.48	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed B3XF	thous	2.60	45.0000	117.00	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2780	4.99	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2251	2.02	_____
UNALLOCATED LABOR					
hour	17.92	0.5639	10.11		_____
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7817	19.85	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.21	1.0000	27.21	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	31.40	1.0000	31.40	-----
TOTAL DIRECT EXPENSES				882.04	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	136.25	1.0000	136.25	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				292.16	-----
TOTAL SPECIFIED EXPENSES				1174.20	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov			0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov			0.02	0.02	0.02	0.01
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					
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct				0.11	0.11	0.08
1/4-mi. Pivot Irr.	acre					Jan	1.0000			0.20	
TOTALS									0.70	0.42	1.25
											0.56

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

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

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 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, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	55.31	28.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	28.69	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	117.00	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.43	1.90	5.57	4.12	1.28	0.58	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.17	0.00	0.00	0.00	0.51	2.75	5.83	17.19	16.69	12.07	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	21.45	2.51	1.70	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	9.12	5.09	1.39	0.42	0.25	1.34
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	230.26	152.56	51.68	20.96	18.05	194.97
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-230.26	-152.56	-51.68	-20.96	-18.05	946.59
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-443.82	-596.38	-648.06	-669.02	-687.07	259.52

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 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, 2024

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

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

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

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

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

Table 6.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e.	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.9288	16.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.3579	3.24	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
DIESEL FUEL					
Tractors	gal	3.44	14.3433	49.32	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
Implements	acre	14.48	1.0000	14.48	_____
Tractors	acre	10.37	1.0000	10.37	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.					
TOTAL DIRECT EXPENSES				822.39	_____
FIXED EXPENSES					
Implements	acre	27.22	1.0000	27.22	_____
Tractors	acre	80.15	1.0000	80.15	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				181.43	_____
TOTAL SPECIFIED EXPENSES				1003.82	_____

Note: Cost of production estimates are based on 2023 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year

Table 6.B Summary of estimated costs and returns per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year

Table 6.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF 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					1.0000				
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						1.0000				
Sprayer 600-825gal	90' 250hp		0.011		Jul			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					1.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct	1000.0000		0.11	0.11	0.11
TOTALS								1.20	0.92	1.78
										0.96

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.80	0.00	0.00	0.00	0.43	2.85	5.88	5.74	0.86	0.43	0.65	23.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.26	0.00	0.00	0.00	0.51	4.12	8.15	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	3.71	0.00	0.00	0.00	0.21	2.40	4.22	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	10.07	0.00	0.00	0.00	0.93	3.23	9.04	4.30	0.67	0.15	0.25	1.33
TOTAL DIRECT EXPENSES	132.26	0.00	0.00	0.00	17.89	70.47	228.22	129.38	25.28	7.49	18.05	193.35
NET INCOME	-132.26	0.00	0.00	0.00	-17.89	-70.47	-228.22	-129.38	-25.28	-7.49	-18.05	757.95
NET INCOME TO DATE	-132.26	-132.26	-132.26	-132.26	-150.15	-220.62	-448.84	-578.22	-603.50	-610.99	-629.04	128.91

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Table 7.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.7365	13.20	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
implements	hour	9.06	0.3222	2.91	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.8069	14.47	_____	
DIESEL FUEL					
Tractors	gal	3.44	11.3731	39.10	_____
Self-Propelled	gal	3.44	4.4209	15.17	_____
REPAIR & MAINTENANCE					
implements	acre	10.86	1.0000	10.86	_____
Tractors	acre	8.23	1.0000	8.23	_____
Self-Propelled	acre	14.30	1.0000	14.30	_____
INTEREST ON OP. CAP.	acre	26.09	1.0000	26.09	-----
TOTAL DIRECT EXPENSES				742.85	_____
FIXED EXPENSES					
implements	acre	20.11	1.0000	20.11	_____
Tractors	acre	63.55	1.0000	63.55	_____
Self-Propelled	acre	74.06	1.0000	74.06	_____
TOTAL FIXED EXPENSES				157.72	_____
TOTAL SPECIFIED EXPENSES				900.57	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre		0.33	Nov		0.3330				
Lime (Spread)	ton		0.33	Nov		0.6660				
Custom Apply Fert	acre		1.00	Nov		1.0000				
Potash (60% K2O)	cwt					1.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar			0.01	0.01	0.00
Clarity	pt					0.5000				
Glyphosate 3lbs a.e.	oz					32.0000				
Surfactant	pt					0.2000				
Row Cond Rigid	26'	MFWD 300	0.059	1.00	May			0.05	0.05	0.05
NT Plant-Folding	8R-38	MFWD 300	0.077	1.00	May			0.07	0.07	0.15
Cotton Seed W3FE	thous					45.0000				
Cotton Seed Trt.	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Gramoxone SL 2.0	oz					48.0000				
Cotoran	pt					2.0000				
Surfactant	pt					0.2000				
Cotton Consultant	acre			1.00	May	1.0000				
Eradication	acre					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.00
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Acephate 90%	lb					0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.00
Bidrin 8EC	oz					3.2000				
Fert Appl (Liquid)	8R-38	MFWD 300	0.077	1.00	Jun			0.07	0.07	0.11
UAN (32%)	gal					18.4000				
Spray (Direct/Layby)	8R-38	MFWD 300	0.066	1.00	Jun			0.06	0.06	0.10
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	0.13
Module Builder	6R-38(355)	MFWD 300	0.172	1.00	Oct			0.17	0.17	0.34
Gin & Haul	lb					900.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct			0.11	0.11	0.11

TOTALS						1.00	0.73	1.55	0.80	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.43	0.00	5.99	5.74	0.86	0.43	0.65	23.35
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.51	0.00	8.31	8.18	1.02	0.51	0.77	34.97
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	4.57	3.97	0.42	0.21	0.31	23.70
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	9.06	4.84	0.67	0.15	0.25	1.25
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	228.86	145.65	25.28	7.49	18.05	182.27
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-228.86	-145.65	-25.28	-7.49	-18.05	673.90
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-364.11	-509.76	-535.04	-542.53	-560.58	113.32

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Cotton Lint			0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00
PERCENT	YIELD	UNIT	dollars										
50	450.00	lb	-288 -446	-270 -428	-252 -410	-234 -391	-216 -373	-198 -355	-180 -337	-161 -319	-143 -301	-125 -283	-107 -265
60	540.00	lb	-244 -401	-222 -380	-200 -358	-179 -336	-157 -315	-135 -293	-114 -271	-92 -250	-70 -228	-49 -206	-27 -185
70	630.00	lb	-199 -357	-174 -332	-149 -307	-124 -281	-98 -256	-73 -231	-48 -205	-22 -180	2 -155	27 -130	52 -104
80	720.00	lb	-155 -313	-126 -284	-97 -255	-69 -226	-40 -197	-11 -168	17 -140	46 -111	75 -82	104 -53	133 -24
90	810.00	lb	-111 -269	-79 -236	-46 -204	-13 -171	18 -139	51 -106	83 -74	116 -41	148 -9	181 23	213 55
100	900.00	lb	-67 -225	-31 -188	4 -152	41 -116	77 -80	113 -44	149 -8	185 27	221 63	257 100	293 136
110	990.00	lb	-23 -180	16 -141	56 -101	96 -61	135 -21	175 17	215 57	255 97	294 137	334 176	374 216
120	1080.00	lb	21 -136	64 -93	107 -49	151 -6	194 36	237 80	281 123	324 166	367 210	411 253	454 296
130	1170.00	lb	65 -92	112 -45	159 1	206 48	253 95	300 142	347 189	394 236	441 283	488 330	534 377
140	1260.00	lb	109 -48	160 2	210 53	261 103	311 154	362 204	413 255	463 305	514 356	564 407	615 457
150	1350.00	lb	153 -3	207 50	262 104	316 158	370 212	424 267	478 321	533 375	587 429	641 483	695 537

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

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

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

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

Table 8.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1000.0000	110.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
hour	17.93	0.5592	10.03		_____
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.					
	acre	29.03	1.0000	29.03	_____
TOTAL DIRECT EXPENSES				784.58	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES				191.83	_____
TOTAL SPECIFIED EXPENSES				976.41	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov			0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov			0.02	0.02	0.02	0.01
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar				0.01	0.01	0.00
Clarity	pt						0.5000				
Glyphosate 3lbs a.e	oz						32.0000				
Surfactant	pt						0.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Apr			0.05	0.05	0.07	0.04
UAN (32%)	gal						14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May			0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May			0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous						45.0000				
Cotton Seed Trt.	acre						1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May				0.01	0.01	0.00
Gramoxone SL 2.0	oz						48.0000				
Cotoran	pt						2.0000				
Surfactant	pt						0.2000				
Cotton Consultant	acre						1.0000				
Eradication	acre						1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May				0.01	0.01	0.00
Enlist Duo	pt						3.5000				
Dual Magnum	pt						1.0000				
Acephate 90%	lb						0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun				0.01	0.01	0.00
Bidrin 8EC	oz						3.2000				
Fert Appl (Liquid)	12R-38	MFWD 300	0.051	1.00	Jun			0.05	0.05	0.07	0.04
UAN (32%)	gal						14.4666				
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun			0.04	0.04	0.06	0.03
Enlist Duo	pt						3.5000				
Dual Magnum	pt						1.0000				
Centric 40WG	oz						2.0000				
Mepiquat Chloride	oz						16.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul				0.01	0.01	0.00
Mepiquat Chloride	oz						16.0000				
Acephate 90%	lb						0.7500				
Incidental Pest							1.00	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
TOTALS									0.69	0.42	1.04
											0.55

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	951.30
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.43	1.90	4.23	3.97	0.86	0.43	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.17	0.00	0.00	0.00	0.51	2.75	5.83	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	8.85	4.13	0.67	0.15	0.25	1.19
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	223.48	123.90	25.28	7.49	18.05	172.82
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-223.48	-123.90	-25.28	-7.49	-18.05	778.48
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-437.04	-560.94	-586.22	-593.71	-611.76	166.72

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Table 9.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethepron 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	900.0000	99.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	18.4000	73.60	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.0000	15.00	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2987	5.36	_____
Self-Propelled	hour	17.94	0.2721	4.88	_____
HAND LABOR					
Implements	hour	9.06	0.0998	0.90	_____
Self-Propelled	hour	9.06	0.2222	1.99	_____
UNALLOCATED LABOR					
	hour	17.95	0.4567	8.20	_____
DIESEL FUEL					
Tractors	gal	3.44	4.6137	15.88	_____
Self-Propelled	gal	3.44	5.7068	19.59	_____
REPAIR & MAINTENANCE					
Implements	acre	7.52	1.0000	7.52	_____
Tractors	acre	3.35	1.0000	3.35	_____
Self-Propelled	acre	27.11	1.0000	27.11	_____
INTEREST ON OP. CAP.	acre	25.59	1.0000	25.59	_____
TOTAL DIRECT EXPENSES					
				712.02	_____
FIXED EXPENSES					
Implements	acre	12.19	1.0000	12.19	_____
Tractors	acre	25.78	1.0000	25.78	_____
Self-Propelled	acre	135.42	1.0000	135.42	_____
TOTAL FIXED EXPENSES					
				173.39	_____
TOTAL SPECIFIED EXPENSES					
				885.41	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 9.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 9.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Potash (60% K2O)	cwt						1.5000				
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) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Jun			0.05	0.05	0.07	0.04
Spray (Direct/Layby)	12R-38	MFWD 300	0.044	1.00	Jun			0.04	0.04	0.06	0.03
Enlist Duo	pt						3.5000				
Dual Magnum	pt						1.0000				
Centric 40WG	oz						2.0000				
Mepiquat Chloride	oz						16.0000				
Sprayer 600-825gal	90' 250hp			0.011	1.00	Jul			0.01	0.01	0.00
Mepiquat Chloride	oz						16.0000				
Acephate 90%	lb						0.7500				
Incidental Pest					1.00	Jul					
Sprayer 600-825gal	90' 250hp			0.011					0.01	0.01	0.00
IncidentalPestTrt\$15	acre						1.0000				
Sprayer 600-825gal	90' 250hp			0.011	1.00	Aug			0.01	0.01	0.00
Acephate 90%	lb						0.7500				
Sprayer 600-825gal	90' 250hp			0.011	1.00	Sep			0.01	0.01	0.00
Thidiazuron 4lb	oz						2.3000				
Ethepron 6E	pt						2.0000				
Sprayer 600-825gal	90' 250hp			0.011	0.50	Sep			0.00	0.00	0.00
Tribufos 6lb	pt						0.5000				
Ethepron 6E	pt						0.3125				
Cotton Picker/Module	6R-38(500)			0.172	1.00	Oct			0.17	0.34	0.13
Gin & Haul	lb				1.00	Oct	900.0000				
Stalk Shredder-Flail	15'	MFWD 300	0.110	1.00	Oct			0.11	0.11	0.11	0.08

TOTALS							0.57	0.29	0.89	0.45	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 9.D Estimated costs for field operations, per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 9.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	856.17
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	0.00	0.00	73.60	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	21.19	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.43	0.00	4.32	3.97	0.86	0.43	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.51	0.00	5.94	5.63	1.02	0.51	0.77	21.09
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.21	0.00	3.98	2.98	0.42	0.21	0.31	29.87
INTEREST ON OP. CAP.	8.94	0.00	0.00	0.00	0.93	0.00	8.87	4.67	0.67	0.15	0.25	1.11
TOTAL DIRECT EXPENSES	117.36	0.00	0.00	0.00	17.89	0.00	224.04	140.17	25.28	7.49	18.05	161.74
NET INCOME	-117.36	0.00	0.00	0.00	-17.89	0.00	-224.04	-140.17	-25.28	-7.49	-18.05	694.43
NET INCOME TO DATE	-117.36	-117.36	-117.36	-117.36	-135.25	-135.25	-359.29	-499.46	-524.74	-532.23	-550.28	144.15

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2024

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

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

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

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

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

Table 10.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
HARVEST AIDS					
Thidiazuron 4lb	oz	1.14	2.3000	2.62	_____
Ethephon 6E	pt	3.38	2.3125	7.82	_____
Tribufos 6lb	pt	11.25	0.5000	5.63	_____
GINNING					
Gin & Haul	lb	0.11	1200.0000	132.00	_____
FERTILIZERS					
Potash (60% K2O)	cwt	36.20	1.5000	54.30	_____
UAN (32%)	gal	4.00	28.9332	115.73	_____
FUNGICIDES					
Cotton Seed Trt.	acre	20.00	1.0000	20.00	_____
HERBICIDES					
Clarity	pt	14.29	0.5000	7.15	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Cotoran	pt	5.24	2.0000	10.48	_____
Enlist Duo	pt	5.92	7.0000	41.44	_____
Dual Magnum	pt	10.75	2.0000	21.50	_____
INSECTICIDES					
Acephate 90%	lb	8.25	2.0000	16.50	_____
Bidrin 8EC	oz	1.51	3.2000	4.83	_____
Centric 40WG	oz	5.95	2.0000	11.90	_____
Incidental Pest Trt \$15	acre	15.00	1.5000	22.50	_____
SEED/PLANTS					
Cotton Seed W3FE	thous	2.43	45.0000	109.35	_____
GROWTH REGULATORS					
Mepiquat Chloride	oz	0.07	32.0000	2.24	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
ERADICATION FEE					
Eradication	acre	1.00	1.0000	1.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
CROP CONSULTANT					
Cotton Consultant	acre	8.00	1.0000	8.00	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.4268	7.65	_____
Self-Propelled	hour	17.94	0.2780	4.99	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	_____
HAND LABOR					
Implements	hour	9.06	0.1235	1.11	_____
Self-Propelled	hour	9.06	0.2251	2.02	_____
UNALLOCATED LABOR					
hour	17.92	0.5639	10.11		_____
DIESEL FUEL					
Tractors	gal	3.44	6.5911	22.69	_____
Self-Propelled	gal	3.44	5.7817	19.85	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	10.93	1.0000	10.93	_____
Tractors	acre	4.78	1.0000	4.78	_____
Self-Propelled	acre	27.21	1.0000	27.21	_____
1/4-mi. Pivot Irr.	acre	21.95	1.0000	21.95	_____
INTEREST ON OP. CAP.	acre	31.26	1.0000	31.26	_____
TOTAL DIRECT EXPENSES				879.21	_____
FIXED EXPENSES					
Implements	acre	19.58	1.0000	19.58	_____
Tractors	acre	36.83	1.0000	36.83	_____
Self-Propelled	acre	136.25	1.0000	136.25	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				292.16	_____
TOTAL SPECIFIED EXPENSES				1171.37	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

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

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

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

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

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.6660				
Custom Apply Fert Potash (60% K2O)	cwt			1.00	Nov		1.0000				
							1.5000				
Bed-Subsoil Fold	12R-38	MFWD 300	0.053	1.00	Nov			0.05	0.05	0.05	0.04
Bed/Disk (Hipper)	12R-38	MFWD 300	0.049	0.50	Nov			0.02	0.02	0.02	0.01
Sprayer 600-825gal	90' 250hp		0.011	1.00	Mar				0.01	0.01	0.00
Clarity	pt						0.5000				
Glyphosate 3lbs a.e.	oz						32.0000				
Surfactant	pt						0.2000				
Fert Appl (Liquid) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Apr			0.05	0.05	0.07	0.04
	gal						14.4666				
Row Cond Folding	38'	MFWD 300	0.040	1.00	May			0.04	0.04	0.04	0.03
Plant - Folding	12R-38	MFWD 300	0.049	1.00	May			0.04	0.04	0.09	0.03
Cotton Seed W3FE	thous						45.0000				
Cotton Seed Trt.	acre						1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May				0.01	0.01	0.00
Gramoxone SL 2.0	oz						48.0000				
Cotoran	pt						2.0000				
Surfactant	pt						0.2000				
Cotton Consultant	acre						1.0000				
Eradication	acre						1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May				0.01	0.01	0.00
Enlist Duo	pt						3.5000				
Dual Magnum	pt						1.0000				
Acephate 90%	lb						0.5000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun				0.01	0.01	0.00
Bidrin 8EC	oz						3.2000				
Fert Appl (Liquid) UAN (32%)	12R-38	MFWD 300	0.051	1.00	Jun			0.05	0.05	0.07	0.04
	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						1.0000		0.20		

TOTALS							0.70	0.42	1.25	0.56	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.27	3.60	3.60
Lime (Spread)	ton	43.29					3.57	46.86	46.86
Custom Apply Fert	acre	7.50					0.62	8.12	8.12
Potash (60% K2O)	cwt	54.30					4.48	58.78	58.78
Bed-Subsoil Fold	12R-38		2.86	2.55	1.73		0.59	7.73	8.98
Bed/Disk (Hipper)	12R-38		1.31	0.98	0.79		0.25	3.33	4.45
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.06	1.21	1.66
Clarity	pt	7.15					0.39	7.54	7.54
Glyphosate 3lbs a.e.	oz	8.00					0.44	8.44	8.44
Surfactant	pt	0.66					0.04	0.70	0.70
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.30	6.60	5.96
UAN (32%)	gal	57.87					2.78	60.65	60.65
Row Cond Folding	38'		2.17	0.87	1.32		0.18	4.54	5.70
Plant - Folding	12R-38		2.64	2.35	2.05		0.29	7.33	8.61
Cotton Seed W3FE	thous	109.35					4.51	113.86	113.86
Cotton Seed Trt.	acre	20.00					0.83	20.83	20.83
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Gramoxone SL 2.0	oz	15.84					0.65	16.49	16.49
Cotoran	pt	10.48					0.43	10.91	10.91
Surfactant	pt	0.66					0.03	0.69	0.69
Cotton Consultant	acre	8.00					0.33	8.33	8.33
Eradication	acre	1.00					0.04	1.04	1.04
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Enlist Duo	pt	20.72					0.85	21.57	21.57
Dual Magnum	pt	10.75					0.44	11.19	11.19
Acephate 90%	lb	4.13					0.17	4.30	4.30
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Bidrin 8EC	oz	4.83					0.17	5.00	5.00
Fert Appl (Liquid)	12R-38		2.75	1.65	1.90		0.22	6.52	5.96
UAN (32%)	gal	57.87					1.99	59.86	59.86
Spray (Direct/Layby)	12R-38		2.37	1.12	1.64		0.18	5.31	4.76
Enlist Duo	pt	20.72					0.71	21.43	21.43
Dual Magnum	pt	10.75					0.37	11.12	11.12
Centric 40WG	oz	11.90					0.41	12.31	12.31
Mepiquat Chloride	oz	1.12					0.04	1.16	1.16
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Mepiquat Chloride	oz	1.12					0.03	1.15	1.15
Acephate 90%	lb	6.19					0.17	6.36	6.36
Incidental Pest									
Sprayer 600-825gal	90' 250hp		0.77	0.31	0.65		0.05	1.78	2.49
Incidental Pest Trt \$15	acre	22.50					0.62	23.12	23.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Acephate 90%	lb	6.19					0.13	6.32	6.32
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Thidiazuron 4lb	oz	2.62					0.04	2.66	2.66
Ethepron 6E	pt	6.76					0.09	6.85	6.85
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.22		0.01	0.59	0.83
Tribufos 6lb	pt	5.63					0.08	5.71	5.71
Ethepron 6E	pt	1.06					0.01	1.07	1.07
Cotton Picker/Module	6R-38(500)		15.25	25.33	7.12		0.33	48.03	121.31
Gin & Haul	lb	132.00					0.91	132.91	132.91
Stalk Shredder-Flail	15'		5.84	4.54	3.55		0.10	14.03	11.99
1/4-mi. Pivot Irr.	acre		38.53	21.95	1.84		1.85	64.17	99.50
TOTALS		674.29	81.07	64.87	27.72	0.00	31.26	879.21	292.16
									1171.37

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1141.56
DIRECT EXPENSES												
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.07	0.00
GINNING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.00
FERTILIZERS	54.30	0.00	0.00	0.00	0.00	57.87	0.00	57.87	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	15.15	0.00	57.79	31.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	4.13	16.73	28.69	6.19	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	109.35	0.00	0.00	0.00	0.00	0.00
GROWTH REGULATORS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ERADICATION FEE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
CUSTOM LIME	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	2.52	0.00	0.00	0.00	0.43	1.90	5.57	4.12	1.28	0.58	0.65	10.67
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.17	0.00	0.00	0.00	0.51	2.75	5.83	17.19	16.69	12.07	0.77	21.09
REPAIR & MAINTENANCE	3.53	0.00	0.00	0.00	0.21	1.65	3.64	21.45	2.51	1.70	0.31	29.87
INTEREST ON OP. CAP.	9.78	0.00	0.00	0.00	0.93	3.08	8.90	5.17	1.39	0.42	0.25	1.34
TOTAL DIRECT EXPENSES	128.42	0.00	0.00	0.00	17.89	67.25	224.87	155.12	51.68	20.96	18.05	194.97
NET INCOME	-128.42	0.00	0.00	0.00	-17.89	-67.25	-224.87	-155.12	-51.68	-20.96	-18.05	946.59
NET INCOME TO DATE	-128.42	-128.42	-128.42	-128.42	-146.31	-213.56	-438.43	-593.55	-645.23	-666.19	-684.24	262.35

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE pivot irrigated, 7.5 ac.-in., Non-Delta, Mississippi, 2024

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

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

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

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

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

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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
Incidental Pest Trt	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	65.00	0.3330	21.65	_____
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	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
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		17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____
TOTAL DIRECT EXPENSES					
				474.29	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES					
				97.60	_____
TOTAL SPECIFIED EXPENSES					
				571.89	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____
TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____
TOTAL DIRECT EXPENSES				474.29	_____
RETURNS ABOVE DIRECT EXPENSES				159.21	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				571.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				61.61	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.3330				
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	21.65				1.79	23.44	23.44
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Phosphorus (46% P2O5)	cwt	34.15				2.82	36.97	36.97
Potash (60% K2O)	cwt	48.15				3.97	52.12	52.12
Soybeans Consultant	acre	6.50				0.27	6.77	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15	0.30	9.09	12.51
Soybean Enlist E3	lb	53.50				1.84	55.34	55.34
CruiserMaxx Vibrance	oz	12.21				0.42	12.63	12.63
Inoculant -Soybean	acre	1.55				0.05	1.60	1.60
Boundary	pt	24.00				0.83	24.83	24.83
Gramoxone SL 2.0	oz	15.84				0.54	16.38	16.38
Surfactant	pt	1.32				0.05	1.37	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44	0.03	1.19	1.66
Enlist Duo	pt	20.72				0.57	21.29	21.29
Dual Magnum	pt	10.75				0.30	11.05	11.05
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Miravis Top	oz	20.82				0.43	21.25	21.25
Surfactant	pt	0.33				0.01	0.34	0.34
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Acephate 90SP	lb	6.19				0.13	6.32	6.32
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Prevathon	oz	14.70				0.30	15.00	15.00
Surfactant	pt	0.33				0.01	0.34	0.34
Bifenthrin	oz	3.58				0.07	3.65	3.65
Incidental Pest								
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
IncidentalPestTrt \$8	acre	8.00				0.11	8.11	8.11
Header -Soybean	30' Flex		4.90	5.73	2.84	0.09	13.56	24.45
Haul Soybeans	bu	13.50				0.09	13.59	13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71	0.02	2.41	2.53
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47	1.97	70.87	56.45
TOTALS		361.06	65.67	22.43	6.61	0.00	18.52	474.29
								97.60
								571.89

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	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	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	31.47	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	24.47	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	21.65	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	2.19	0.49	0.04	0.00	3.55
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	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	4.98	1.55	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	149.57	57.71	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-149.57	-57.71	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-280.94	-338.65	-428.40	-444.73	159.21

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

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT PRICE													
Soybeans	9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83		
dollars													
PERCENT	YIELD	UNIT											
50	25.00	bu	-229	-214	-198	-182	-166	-150	-134	-119	-103	-87	-71
			-327	-311	-295	-280	-264	-248	-232	-216	-200	-184	-169
60	30.00	bu	-183	-164	-145	-126	-107	-88	-69	-50	-31	-12	6
			-281	-262	-243	-224	-205	-186	-167	-148	-129	-110	-91
70	35.00	bu	-137	-115	-93	-71	-48	-26	-4	17	39	61	84
			-235	-213	-190	-168	-146	-124	-102	-80	-57	-35	-13
80	40.00	bu	-91	-66	-40	-15	9	35	60	85	111	136	161
			-189	-163	-138	-113	-87	-62	-37	-11	13	38	64
90	45.00	bu	-45	-16	11	40	68	97	125	154	182	211	239
			-142	-114	-85	-57	-28	-0	28	56	85	113	142
100	50.00	bu	0	32	64	95	127	159	190	222	254	285	317
			-96	-65	-33	-1	29	61	93	124	156	188	219
110	55.00	bu	46	81	116	151	186	221	256	290	325	360	395
			-50	-15	19	53	88	123	158	193	228	262	297
120	60.00	bu	93	131	169	207	245	283	321	359	397	435	473
			-4	33	71	109	147	185	223	261	299	337	375
130	65.00	bu	139	180	221	262	304	345	386	427	468	509	551
			41	82	124	165	206	247	288	329	371	412	453
140	70.00	bu	185	229	274	318	362	407	451	495	540	584	628
			87	132	176	220	265	309	353	398	442	486	531
150	75.00	bu	231	279	326	374	421	469	516	564	611	659	706
			134	181	229	276	324	371	419	466	514	561	609

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

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

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

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

Table 12.A Estimated costs per acre
 Soybeans, full-season, Enlist E3, April planted, 16R30"
 Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
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	65.00	0.3330	21.65	_____
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	17.94	0.1764	3.17	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
hour	17.89	0.2671	4.78	_____	
DIESEL FUEL					
Tractors	gal	3.44	2.7243	9.37	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
INTEREST ON OP. CAP.	acre	16.79	1.0000	16.79	_____
TOTAL DIRECT EXPENSES				357.92	_____
FIXED EXPENSES					
Implements	acre	17.54	1.0000	17.54	_____
Tractors	acre	15.23	1.0000	15.23	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
TOTAL FIXED EXPENSES				60.26	_____
TOTAL SPECIFIED EXPENSES				418.18	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Soybeans	bu	12.67	43.0000	544.81	_____

TOTAL INCOME				544.81	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.22	1.0000	16.22	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	92.75	1.0000	92.75	_____
INSECTICIDES	acre	6.19	1.0000	6.19	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.2968	5.33	_____
UNALLOCATED LABOR	hour	17.89	0.2671	4.78	_____
DIESEL FUEL	gal	3.44	4.5978	15.80	_____
REPAIR & MAINTENANCE	acre	13.81	1.0000	13.81	_____
INTEREST ON OP. CAP.	acre	16.79	1.0000	16.79	_____

TOTAL DIRECT EXPENSES				357.92	_____
RETURNS ABOVE DIRECT EXPENSES				186.89	_____

TOTAL FIXED EXPENSES				60.26	_____

TOTAL SPECIFIED EXPENSES				418.18	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				126.63	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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 Haul Soybeans	30' Flex bu	325 hp	0.085	1.00	Sep	43.0000	0.08	0.08	0.08	0.07
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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	21.65				1.79	23.44	23.44
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Phosphorus (46% P2O5)	cwt	25.91				2.14	28.05	28.05
Potash (60% K2O)	cwt	36.20				2.99	39.19	39.19
Disk Harrow	32'		3.26	2.20	2.09	0.62	8.17	9.33
Field Cultivate Fld	32'		2.48	1.24	1.59	0.44	5.75	7.82
App by Air (5 gal)	appl	8.11				0.39	8.50	8.50
Glyphosate 3lbs a.e	oz	8.00				0.39	8.39	8.39
2,4-D Amine 4	pt	5.44				0.26	5.70	5.70
Plant - Folding	16R-30		2.50	3.46	2.04	0.33	8.33	11.15
Soybean Enlist E3	lb	53.50				2.21	55.71	55.71
CruiserMaxx Vibrance	oz	12.21				0.50	12.71	12.71
Boundary	pt	24.00				0.99	24.99	24.99
Gramoxone SL 2.0	oz	15.84				0.65	16.49	16.49
Surfactant	pt	1.32				0.05	1.37	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.04	1.21	1.66
Enlist Duo	pt	20.72				0.71	21.43	21.43
Dual Magnum	pt	10.75				0.37	11.12	11.12
Soybeans Consultant	acre	6.50				0.22	6.72	6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.04	1.21	1.66
Glyphosate 3lbs a.e	oz	8.00				0.28	8.28	8.28
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.02	1.19	1.66
Acephate 90SP	lb	6.19				0.09	6.28	6.28
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
Gramoxone SL	oz	5.28				0.07	5.35	5.35
Surfactant	pt	0.66				0.01	0.67	0.67
Header -Soybean	30' Flex		4.90	5.73	2.90	0.09	13.62	24.45
Haul Soybeans	bu	11.61				0.08	11.69	11.69
Grain Cart Soybean	700 bu		1.13	0.55	0.72	0.02	2.42	2.53
TOTALS		300.83	15.80	13.81	10.69	0.00	16.79	357.92
								60.26
								418.18

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

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	544.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	62.11	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	13.44	39.84	39.47	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	6.19	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	21.65	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	3.68	0.00	0.00	0.00	0.00	0.00	2.04	0.90	0.00	0.00	0.45	3.62
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	5.74	0.00	0.00	0.00	0.00	0.00	2.50	1.02	0.00	0.00	0.51	6.03
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.00	0.00	3.46	0.42	0.00	0.00	0.21	6.28
INTEREST ON OP. CAP.	8.87	0.00	0.00	0.00	0.00	1.04	4.73	1.66	0.00	0.00	0.30	0.19
TOTAL DIRECT EXPENSES	116.32	0.00	0.00	0.00	0.00	22.59	119.60	49.97	0.00	0.00	21.71	27.73
NET INCOME	-116.32	0.00	0.00	0.00	0.00	-22.59	-119.60	-49.97	0.00	0.00	-21.71	517.08
NET INCOME TO DATE	-116.32	-116.32	-116.32	-116.32	-116.32	-138.91	-258.51	-308.48	-308.48	-308.48	-330.19	186.89

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

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-147 -208	-134 -194	-120 -180	-106 -167	-93 -153	-79 -139	-66 -126	-52 -112	-38 -99	-25 -85	-11 -71
60	25.80	bu	-108 -168	-91 -151	-75 -135	-59 -119	-42 -102	-26 -86	-10 -70	6 -53	22 -37	39 -21	55 -4
70	30.10	bu	-68 -128	-49 -109	-30 -90	-11 -71	7 -52	26 -33	46 -14	65 4	84 23	103 42	122 62
80	34.40	bu	-28 -88	-6 -67	14 -45	36 -23	58 -1	80 20	102 41	123 63	145 85	167 107	189 128
90	38.70	bu	10 -49	35 -24	60 -0	84 24	109 48	133 73	158 97	182 122	207 146	231 171	256 195
100	43.00	bu	50 -9	77 17	105 44	132 72	159 99	186 126	214 153	241 181	268 208	295 235	323 262
110	47.30	bu	90 30	120 60	150 90	180 120	210 149	240 179	270 209	300 239	330 269	360 299	390 329
120	51.60	bu	130 69	162 102	195 135	228 167	260 200	293 233	326 265	358 298	391 331	424 364	456 396
130	55.90	bu	169 109	205 144	240 180	276 215	311 251	346 286	382 321	417 357	453 392	488 428	523 463
140	60.20	bu	209 149	247 187	285 225	323 263	362 301	400 339	438 378	476 416	514 454	552 492	590 530
150	64.50	bu	249 188	290 229	330 270	371 311	412 352	453 393	494 434	535 474	576 515	616 556	657 597

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

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

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

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

Table 13.A Estimated costs per acre
 Soybeans, full-season, Enlist E3, May planted, 16R30"
 Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e.	oz	0.25	64.0000	16.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.33	96.0000	31.68	_____
Boundary	pt	12.00	2.0000	24.00	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	0.56	1.0500	0.59	_____
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	65.00	0.3330	21.65	_____
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	17.94	0.2407	4.32	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0587	1.06	_____
HAND LABOR					
implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
DIESEL FUEL	hour	17.88	0.3461	6.19	_____
Tractors	gal	3.44	3.7171	12.79	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.7484	2.56	_____
REPAIR & MAINTENANCE					
implements	acre	7.81	1.0000	7.81	_____
Tractors	acre	2.69	1.0000	2.69	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	1.04	1.0000	1.04	_____
INTEREST ON OP. CAP.	acre	14.57	1.0000	14.57	_____
TOTAL DIRECT EXPENSES				408.17	_____
FIXED EXPENSES					
implements	acre	21.44	1.0000	21.44	_____
Tractors	acre	20.77	1.0000	20.77	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				481.19	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Soybeans	bu	12.67	40.0000	506.80	_____
TOTAL INCOME				506.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	145.29	1.0000	145.29	_____
INSECTICIDES	acre	2.22	1.0000	2.22	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.3846	6.91	_____
UNALLOCATED LABOR	hour	17.88	0.3461	6.19	_____
DIESEL FUEL	gal	3.44	5.8899	20.25	_____
REPAIR & MAINTENANCE	acre	16.24	1.0000	16.24	_____
INTEREST ON OP. CAP.	acre	14.57	1.0000	14.57	_____
TOTAL DIRECT EXPENSES				408.17	_____
RETURNS ABOVE DIRECT EXPENSES				98.63	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				481.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				25.61	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	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 2023 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33					0.02	3.35
Lime (Spread)	ton	21.65					0.15	21.80
Disk Harrow	32'		3.26	2.20	2.09		0.05	7.60
Field Cultivate Fld	32'		2.48	1.24	1.59		0.04	5.35
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07		0.05	6.88
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.07	1.24
Glyphosate 3lbs a.e.	oz	8.00					0.50	8.50
Select Max	pt	15.01					0.93	15.94
Surfactant	pt	1.32					0.08	1.40
Custom Apply Fert	acre	7.50					0.36	7.86
Phosphorus (46% P2O5)	cwt	25.91					1.25	27.16
Potash (60% K2O)	cwt	36.20					1.74	37.94
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.06	1.23
Fierce	oz	27.13					1.31	28.44
Gramoxone SL 2.0	oz	15.84					0.76	16.60
Surfactant	pt	1.32					0.06	1.38
Soybeans Consultant	acre	6.50					0.27	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19
Soybean Enlist E3	lb	53.50					2.21	55.71
CruiserMaxx Vibrance	oz	12.21					0.50	12.71
Boundary	pt	24.00					0.99	24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Surfactant	pt	1.32					0.05	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.05	1.22
Enlist Duo	pt	20.72					0.85	21.57
Dual Magnum	pt	10.75					0.44	11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21
Glyphosate 3lbs a.e.	oz	8.00					0.28	8.28
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23		0.02	0.61
Dimilin 2L	oz	1.63					0.04	1.67
Surfactant	pt	0.17					0.17	0.17
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23		0.01	0.60
Bifenthrin	oz	0.59					0.01	0.60
App by Air (5 gal)	appl	8.11					0.11	8.22
Gramoxone SL	oz	5.28					0.07	5.35
Surfactant	pt	0.66					0.01	0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62
Haul Soybeans	bu	10.80					0.07	10.87
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42
TOTALS		343.29	20.25	16.24	13.82	0.00	14.57	408.17
								73.02
								481.19

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	506.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	62.11	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	23.01	0.00	42.97	71.31	8.00	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	1.63	0.59	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	21.65
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	0.45	0.00	0.45	2.64	0.45	0.23	0.23	0.00	9.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.51	0.00	0.51	3.21	0.51	0.26	0.26	0.00	14.99
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.21	0.00	0.21	4.15	0.21	0.10	0.10	0.00	11.26
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.58	0.00	5.54	6.37	0.32	0.06	0.02	0.19	0.49
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	27.08	0.00	120.61	161.21	9.49	2.45	1.20	14.24	71.89
NET INCOME	0.00	0.00	0.00	-27.08	0.00	-120.61	-161.21	-9.49	-2.45	-1.20	-14.24	434.91
NET INCOME TO DATE	0.00	0.00	0.00	-27.08	-27.08	-147.69	-308.90	-318.39	-320.84	-322.04	-336.28	98.63

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

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
Soybeans		9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	
PERCENT YIELD UNIT dollars													
50	20.00	bu	-212 -285	-200 -273	-187 -260	-174 -247	-162 -235	-149 -222	-136 -209	-123 -197	-111 -184	-98 -171	-85 -159
60	24.00	bu	-175 -248	-160 -233	-145 -218	-130 -203	-114 -187	-99 -172	-84 -157	-69 -142	-54 -127	-38 -111	-23 -96
70	28.00	bu	-138 -211	-121 -194	-103 -176	-85 -158	-67 -140	-50 -123	-32 -105	-14 -87	3 -69	20 -52	38 -34
80	32.00	bu	-101 -174	-81 -154	-61 -134	-41 -114	-20 -93	-0 -73	19 -53	39 -33	60 -12	80 7	100 27
90	36.00	bu	-64 -138	-42 -115	-19 -92	3 -69	26 -46	49 -23	71 -1	94 21	117 44	140 67	163 90
100	40.00	bu	-28 -101	-2 -75	22 -50	47 -25	73 0	98 25	123 50	149 76	174 101	199 126	225 152
110	44.00	bu	8 -64	36 -36	64 -8	92 19	120 47	148 75	176 103	203 130	231 158	259 186	287 214
120	48.00	bu	45 -27	76 3	106 33	137 63	167 94	197 124	228 155	258 185	289 216	319 246	349 276
130	52.00	bu	82 9	115 42	148 75	181 108	214 141	247 174	280 207	313 240	346 273	379 306	412 339
140	56.00	bu	119 46	155 82	190 117	226 153	261 188	297 223	332 259	367 294	403 330	438 365	474 401
150	60.00	bu	156 83	194 121	232 159	270 197	308 235	346 273	384 311	422 349	460 387	498 425	536 463

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

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

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

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

Table 14.A Estimated costs per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
Incidental Pest Trt	\$/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	65.00	0.3330	21.65	_____
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	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____
TOTAL DIRECT EXPENSES				366.76	_____
FIXED EXPENSES					
implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				407.91	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____
TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____
TOTAL DIRECT EXPENSES				366.76	_____
RETURNS ABOVE DIRECT EXPENSES				-50.01	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				407.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-91.16	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
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
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 2023 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, 2024

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				0.27	3.60	3.60
Lime (Spread)	ton	21.65				1.79	23.44	23.44
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Phosphorus (46% P2O5)	cwt	34.15				2.82	36.97	36.97
Potash (60% K2O)	cwt	48.15				3.97	52.12	52.12
Soybeans Consultant	acre	6.50				0.27	6.77	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15	0.30	9.09	12.51
Soybean Enlist E3	lb	53.50				1.84	55.34	55.34
CruiserMaxx Vibrance	oz	12.21				0.42	12.63	12.63
Inoculant -Soybean	acre	1.55				0.05	1.60	1.60
Boundary	pt	24.00				0.83	24.83	24.83
Gramoxone SL 2.0	oz	15.84				0.54	16.38	16.38
Surfactant	pt	1.32				0.05	1.37	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44	0.03	1.19	1.66
Enlist Duo	pt	20.72				0.57	21.29	21.29
Dual Magnum	pt	10.75				0.30	11.05	11.05
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Acephate 90SP	lb	6.19				0.13	6.32	6.32
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Prevathon	oz	14.70				0.30	15.00	15.00
Surfactant	pt	0.33				0.01	0.34	0.34
Bifenthrin	oz	3.58				0.07	3.65	3.65
Incidental Pest								
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
IncidentalPestTrt \$8	acre	8.00				0.11	8.11	8.11
Header -Soybean	30' Flex		4.90	5.73	2.84	0.09	13.56	24.45
Haul Soybeans	bu	6.75				0.05	6.80	6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71	0.02	2.41	2.53
TOTALS		325.05	9.24	10.43	6.14	0.00	15.90	366.76
								41.15
								407.91

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	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	39.84	31.47	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	24.47	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	21.65	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	2.15	0.44	0.00	0.00	3.55
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	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.03	0.90	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	121.24	33.53	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-121.24	-33.53	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-252.26	-285.79	-327.66	-343.99	-50.01

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

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
Soybeans	9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83		
PERCENT YIELD UNIT dollars													
50	12.50	bu	-244 -285	-236 -277	-228 -269	-220 -261	-212 -254	-204 -246	-197 -238	-189 -230	-181 -222	-173 -214	-165 -206
60	15.00	bu	-221 -262	-212 -253	-202 -243	-192 -234	-183 -224	-173 -215	-164 -205	-154 -196	-145 -186	-135 -177	-126 -167
70	17.50	bu	-198 -239	-187 -228	-176 -217	-165 -206	-154 -195	-142 -184	-131 -173	-120 -161	-109 -150	-98 -139	-87 -128
80	20.00	bu	-175 -216	-162 -203	-150 -191	-137 -178	-124 -165	-112 -153	-99 -140	-86 -127	-73 -115	-61 -102	-48 -89
90	22.50	bu	-152 -193	-138 -179	-123 -164	-109 -150	-95 -136	-81 -122	-66 -107	-52 -93	-38 -79	-23 -65	-9 -50
100	25.00	bu	-129 -170	-113 -154	-97 -138	-81 -122	-65 -106	-50 -91	-34 -75	-18 -59	-2 -43	13 -27	29 -11
110	27.50	bu	-106 -147	-88 -129	-71 -112	-53 -95	-36 -77	-19 -60	-1 -42	15 -25	33 -7	50 9	68 26
120	30.00	bu	-83 -124	-64 -105	-45 -86	-26 -67	-7 -48	11 -29	30 -10	49 8	68 27	88 46	107 65
130	32.50	bu	-59 -101	-39 -80	-18 -59	1 -39	22 -18	42 1	63 22	84 43	104 63	125 84	145 104
140	35.00	bu	-36 -78	-14 -55	7 -33	29 -11	51 10	73 32	96 54	118 77	140 99	162 121	184 143
150	37.50	bu	-13 -54	9 -31	33 -7	57 16	81 40	104 63	128 87	152 111	176 135	199 158	223 182

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

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

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

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

Table 15.A Estimated costs per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
Incidental Pest Trt \$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	65.00	0.3330	21.65	_____
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	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
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	17.89	0.1452	2.60	_____	
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____
TOTAL DIRECT EXPENSES				475.88	_____
FIXED EXPENSES					
implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				573.48	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
			dollars	dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____
TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____
TOTAL DIRECT EXPENSES				475.88	_____
RETURNS ABOVE DIRECT EXPENSES				157.62	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				573.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				60.02	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.3330				
Custom Apply Fert	acre			1.00	Nov		1.0000				
Phosphorus (46% P205)	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
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
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
Haul Soybeans	bu						50.0000				
Grain Cart Soybean	700 bu	MFWD	300	0.021	1.00	Oct			0.02	0.02	0.02
1/2-mi Pivot Irr.	acre					Jul	1.0000			0.05	0.01
TOTALS									0.16	0.15	0.27
											0.14

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE		
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	21.65				1.79	23.44	23.44
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Phosphorus (46% P2O5)	cwt	34.15				2.82	36.97	36.97
Potash (60% K2O)	cwt	48.15				3.97	52.12	52.12
Soybeans Consultant	acre	6.50				0.27	6.77	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15	0.30	9.09	12.51
Soybean Seed RR2X	lb	57.50				1.98	59.48	59.48
CruiserMaxx Vibrance	oz	12.21				0.42	12.63	12.63
Inoculant -Soybean	acre	1.55				0.05	1.60	1.60
Boundary	pt	24.00				0.83	24.83	24.83
Gramoxone SL 2.0	oz	15.84				0.54	16.38	16.38
Surfactant	pt	1.32				0.05	1.37	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44	0.03	1.19	1.66
Glyphosate 3lbs a.e	oz	8.00				0.22	8.22	8.22
Engenia	oz	10.24				0.28	10.52	10.52
Dual Magnum	pt	10.75				0.30	11.05	11.05
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Miravis Top	oz	20.82				0.43	21.25	21.25
Surfactant	pt	0.33				0.01	0.34	0.34
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Acephate 90SP	lb	6.19				0.13	6.32	6.32
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Prevathon	oz	14.70				0.30	15.00	15.00
Surfactant	pt	0.33				0.01	0.34	0.34
Bifenthrin	oz	3.58				0.07	3.65	3.65
Incidental Pest								
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
IncidentalPestTrt \$8	acre	8.00				0.11	8.11	8.11
Header -Soybean	30' Flex		4.90	5.73	2.84	0.09	13.56	24.45
Haul Soybeans	bu	13.50				0.09	13.59	13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71	0.02	2.41	2.53
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47	1.97	70.87	56.45
TOTALS		362.58	65.67	22.43	6.61	0.00	18.59	475.88
								97.60
								573.48

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	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	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	28.99	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	24.47	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	21.65	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	2.19	0.49	0.04	0.00	3.55
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	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	5.12	1.48	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	153.71	55.16	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-153.71	-55.16	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-285.08	-340.24	-429.99	-446.32	157.62

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

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
-----PRODUCT PRICE-----													
Soybeans		9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	
-----dolars-----													
PERCENT	YIELD	UNIT											
50	25.00	bu	-231 -329	-215 -313	-199 -297	-184 -281	-168 -265	-152 -249	-136 -234	-120 -218	-104 -202	-88 -186	-73 -170
60	30.00	bu	-185 -282	-166 -263	-147 -244	-128 -225	-109 -206	-90 -187	-71 -168	-52 -149	-33 -130	-14 -111	4 -92
70	35.00	bu	-139 -236	-117 -214	-94 -192	-72 -170	-50 -148	-28 -125	-6 -103	15 -81	38 -59	60 -37	82 -15
80	40.00	bu	-93 -190	-67 -165	-42 -139	-17 -114	8 -89	33 -63	58 -38	84 -13	109 12	134 37	160 62
90	45.00	bu	-46 -144	-18 -116	10 -87	38 -58	67 -30	95 -1	124 26	152 55	181 83	209 112	238 140
100	50.00	bu	-0 -98	30 -66	62 -35	94 -3	125 28	157 60	189 91	220 123	252 155	284 186	315 218
110	55.00	bu	45 -52	80 -17	115 17	149 52	184 87	219 122	254 156	289 191	324 226	358 261	393 296
120	60.00	bu	91 -6	129 31	167 69	205 107	243 145	281 184	319 222	357 260	395 298	433 336	471 374
130	65.00	bu	137 40	178 81	220 122	261 163	302 204	343 245	384 287	425 328	467 369	508 410	549 451
140	70.00	bu	183 86	228 130	272 174	316 219	361 263	405 307	449 352	494 396	538 441	582 485	627 529
150	75.00	bu	230 132	277 179	325 227	372 274	420 322	467 369	515 417	562 465	610 512	657 560	705 607

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

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

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

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

Table 16.A Estimated costs per acre
 Soybeans, full-season, RR2X/XF, April planted, 16R 30"
 Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
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	65.00	0.3330	21.65	_____
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	17.94	0.1764	3.17	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
HAND LABOR					
implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
hour	17.89	0.2671	4.78	_____	
DIESEL FUEL					
Tractors	gal	3.44	2.7243	9.37	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
REPAIR & MAINTENANCE					
implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
INTEREST ON OP. CAP.					
	acre	16.87	1.0000	16.87	_____
TOTAL DIRECT EXPENSES				359.52	_____
FIXED EXPENSES					
implements	acre	17.54	1.0000	17.54	_____
Tractors	acre	15.23	1.0000	15.23	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
TOTAL FIXED EXPENSES				60.26	_____
TOTAL SPECIFIED EXPENSES				419.78	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Soybeans	bu	12.67	43.0000	544.81	_____
TOTAL INCOME				544.81	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.22	1.0000	16.22	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	90.27	1.0000	90.27	_____
INSECTICIDES	acre	6.19	1.0000	6.19	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.2968	5.33	_____
UNALLOCATED LABOR	hour	17.89	0.2671	4.78	_____
DIESEL FUEL	gal	3.44	4.5978	15.80	_____
REPAIR & MAINTENANCE	acre	13.81	1.0000	13.81	_____
INTEREST ON OP. CAP.	acre	16.87	1.0000	16.87	_____
TOTAL DIRECT EXPENSES				359.52	_____
RETURNS ABOVE DIRECT EXPENSES				185.29	_____
TOTAL FIXED EXPENSES				60.26	_____
TOTAL SPECIFIED EXPENSES				419.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				125.03	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre		0.33	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
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct			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
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
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep			0.02	0.02	0.02

TOTALS						0.29	0.26	0.36	0.26	

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	21.65				1.79	23.44	23.44
Custom Apply Fert	acre	7.50				0.62	8.12	8.12
Phosphorus (46% P2O5)	cwt	25.91				2.14	28.05	28.05
Potash (60% K2O)	cwt	36.20				2.99	39.19	39.19
Disk Harrow	32'		3.26	2.20	2.09	0.62	8.17	9.33
Field Cultivate Fld	32'		2.48	1.24	1.59	0.44	5.75	7.82
App by Air (5 gal)	appl	8.11				0.39	8.50	8.50
Glyphosate 3lbs a.e	oz	8.00				0.39	8.39	8.39
2,4-D Amine 4	pt	5.44				0.26	5.70	5.70
Plant - Folding	16R-30		2.50	3.46	2.04	0.33	8.33	11.15
Soybean Seed RR2X	lb	57.50				2.37	59.87	59.87
CruiserMaxx Vibrance	oz	12.21				0.50	12.71	12.71
Boundary	pt	24.00				0.99	24.99	24.99
Gramoxone SL 2.0	oz	15.84				0.65	16.49	16.49
Surfactant	pt	1.32				0.05	1.37	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.04	1.21	1.66
Glyphosate 3lbs a.e	oz	8.00				0.28	8.28	8.28
Engenia	oz	10.24				0.35	10.59	10.59
Dual Magnum	pt	10.75				0.37	11.12	11.12
Soybeans Consultant	acre	6.50				0.22	6.72	6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.04	1.21	1.66
Glyphosate 3lbs a.e	oz	8.00				0.28	8.28	8.28
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45	0.02	1.19	1.66
Acephate 90SP	lb	6.19				0.09	6.28	6.28
App by Air (5 gal)	appl	8.11				0.11	8.22	8.22
Gramoxone SL	oz	5.28				0.07	5.35	5.35
Surfactant	pt	0.66				0.01	0.67	0.67
Header -Soybean	30' Flex		4.90	5.73	2.90	0.09	13.62	24.45
Haul Soybeans	bu	11.61				0.08	11.69	11.69
Grain Cart Soybean	700 bu		1.13	0.55	0.72	0.02	2.42	2.53
TOTALS		302.35	15.80	13.81	10.69	0.00	16.87	359.52
								60.26
								419.78

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

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	544.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	62.11	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	13.44	39.84	36.99	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	6.19	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	21.65	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	3.68	0.00	0.00	0.00	0.00	0.00	2.04	0.90	0.00	0.00	0.45	3.62
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	5.74	0.00	0.00	0.00	0.00	0.00	2.50	1.02	0.00	0.00	0.51	6.03
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.00	0.00	3.46	0.42	0.00	0.00	0.21	6.28
INTEREST ON OP. CAP.	8.87	0.00	0.00	0.00	0.00	1.04	4.89	1.58	0.00	0.00	0.30	0.19
TOTAL DIRECT EXPENSES	116.32	0.00	0.00	0.00	0.00	22.59	123.76	47.41	0.00	0.00	21.71	27.73
NET INCOME	-116.32	0.00	0.00	0.00	0.00	-22.59	-123.76	-47.41	0.00	0.00	-21.71	517.08
NET INCOME TO DATE	-116.32	-116.32	-116.32	-116.32	-116.32	-138.91	-262.67	-310.08	-310.08	-310.08	-331.79	185.29

Note: Cost of production estimates are based on 2023 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 16.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, April planted, 16R 30"
 Non-Delta Area, Mississippi, 2024

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
			PRODUCT PRICE										
Soybeans		9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	
PERCENT YIELD UNIT dollars													
50	21.50	bu	-149 -209	-135 -196	-122 -182	-108 -168	-94 -155	-81 -141	-67 -127	-54 -114	-40 -100	-26 -87	-13 -73
60	25.80	bu	-109 -169	-93 -153	-76 -137	-60 -120	-44 -104	-27 -88	-11 -71	4 -55	21 -39	37 -22	53 -6
70	30.10	bu	-69 -130	-50 -111	-31 -92	-12 -73	6 -53	25 -34	44 -15	63 3	82 22	101 41	120 60
80	34.40	bu	-30 -90	-8 -68	13 -46	35 -25	56 -3	78 18	100 40	122 61	144 83	165 105	187 127
90	38.70	bu	9 -50	33 -26	58 -1	82 22	107 47	131 71	156 96	181 120	205 145	230 169	254 194
100	43.00	bu	49 -11	76 16	103 43	130 70	158 97	185 125	212 152	239 179	267 206	294 233	321 261
110	47.30	bu	88 28	118 58	148 88	178 118	208 148	238 178	268 208	298 238	328 268	358 298	388 328
120	51.60	bu	128 68	161 100	193 133	226 166	259 198	291 231	324 264	357 297	389 329	422 362	455 395
130	55.90	bu	168 107	203 143	238 178	274 214	309 249	345 284	380 320	416 355	451 391	486 426	522 462
140	60.20	bu	207 147	245 185	284 223	322 262	360 300	398 338	436 376	474 414	512 452	551 490	589 528
150	64.50	bu	247 187	288 228	329 269	370 309	410 350	451 391	492 432	533 473	574 514	615 555	656 595

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

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

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

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

Table 17.A Estimated costs per acre
 Soybeans, full-season, RR2X/XF, May planted, 16R 30"
 Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e.	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.33	96.0000	31.68	_____
Boundary	pt	12.00	2.0000	24.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	0.56	1.0500	0.59	_____
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	65.00	0.3330	21.65	_____
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	17.94	0.2407	4.32	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0587	1.06	_____
HAND LABOR					
implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
hour	17.88	0.3461	6.19	_____	
DIESEL FUEL					
Tractors	gal	3.44	3.7171	12.79	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.7484	2.56	_____
REPAIR & MAINTENANCE					
implements	acre	7.81	1.0000	7.81	_____
Tractors	acre	2.69	1.0000	2.69	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	1.04	1.0000	1.04	_____
INTEREST ON OP. CAP.	acre	14.63	1.0000	14.63	_____
TOTAL DIRECT EXPENSES				409.75	_____
FIXED EXPENSES					
implements	acre	21.44	1.0000	21.44	_____
Tractors	acre	20.77	1.0000	20.77	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				482.77	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars					dollars
INCOME					
Soybeans	bu	12.67	40.0000	506.80	_____
TOTAL INCOME				506.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	142.81	1.0000	142.81	_____
INSECTICIDES	acre	2.22	1.0000	2.22	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.3846	6.91	_____
UNALLOCATED LABOR	hour	17.88	0.3461	6.19	_____
DIESEL FUEL	gal	3.44	5.8899	20.25	_____
REPAIR & MAINTENANCE	acre	16.24	1.0000	16.24	_____
INTEREST ON OP. CAP.	acre	14.63	1.0000	14.63	_____
TOTAL DIRECT EXPENSES				409.75	_____
RETURNS ABOVE DIRECT EXPENSES				97.05	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				482.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				24.03	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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 2023 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, 2024

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
Lime (Spread)	ton	21.65					0.15	21.80
Disk Harrow	32'		3.26	2.20	2.09		0.05	7.60
Field Cultivate Fld	32'		2.48	1.24	1.59		0.04	5.35
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07		0.05	6.88
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.07	1.24
Glyphosate 3lbs a.e	oz	8.00					0.50	8.50
Select Max	pt	15.01					0.93	15.94
Surfactant	pt	1.32					0.08	1.40
Custom Apply Fert	acre	7.50					0.36	7.86
Phosphorus (46% P205)	cwt	25.91					1.25	27.16
Potash (60% K2O)	cwt	36.20					1.74	37.94
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.06	1.23
Fierce	oz	27.13					1.31	28.44
Gramoxone SL 2.0	oz	15.84					0.76	16.60
Surfactant	pt	1.32					0.06	1.38
Soybeans Consultant	acre	6.50					0.27	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.19		0.36	9.19
Soybean Seed RR2X	lb	57.50					2.37	59.87
CruiserMaxx Vibrance	oz	12.21					0.50	12.71
Boundary	pt	24.00					0.99	24.99
Gramoxone SL 2.0	oz	15.84					0.65	16.49
Surfactant	pt	1.32					0.05	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.05	1.22
Glyphosate 3lbs a.e	oz	8.00					0.33	8.33
Engenia	oz	10.24					0.42	10.66
Dual Magnum	pt	10.75					0.44	11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45		0.04	1.21
Glyphosate 3lbs a.e	oz	8.00					0.28	8.28
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23		0.02	0.61
Dimilin 2L	oz	1.63					0.04	1.67
Surfactant	pt	0.17						0.17
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23		0.01	0.60
Bifenthrin	oz	0.59					0.01	0.60
App by Air (5 gal)	appl	8.11					0.11	8.22
Gramoxone SL	oz	5.28					0.07	5.35
Surfactant	pt	0.66					0.01	0.67
Header -Soybean	30' Flex		4.90	5.73	2.90		0.09	13.62
Haul Soybeans	bu	10.80					0.07	10.87
Grain Cart Soybean	700 bu		1.13	0.55	0.72		0.02	2.42
TOTALS		344.81	20.25	16.24	13.82	0.00	14.63	409.75
								73.02
								482.77

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	506.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	62.11	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	23.01	0.00	42.97	68.83	8.00	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	1.63	0.59	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	21.65
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	0.45	0.00	0.45	2.64	0.45	0.23	0.23	0.00	9.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.51	0.00	0.51	3.21	0.51	0.26	0.26	0.00	14.99
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.21	0.00	0.21	4.15	0.21	0.10	0.10	0.00	11.26
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.58	0.00	5.54	6.43	0.32	0.06	0.02	0.19	0.49
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	27.08	0.00	120.61	162.79	9.49	2.45	1.20	14.24	71.89
NET INCOME	0.00	0.00	0.00	-27.08	0.00	-120.61	-162.79	-9.49	-2.45	-1.20	-14.24	434.91
NET INCOME TO DATE	0.00	0.00	0.00	-27.08	-27.08	-147.69	-310.48	-319.97	-322.42	-323.62	-337.86	97.05

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

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
Soybeans		9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	
PERCENT YIELD UNIT dollars													
50	20.00	bu	-214 -287	-201 -274	-188 -261	-176 -249	-163 -236	-150 -223	-138 -211	-125 -198	-112 -185	-100 -173	-87 -160
60	24.00	bu	-177 -250	-162 -235	-146 -219	-131 -204	-116 -189	-101 -174	-86 -159	-70 -143	-55 -128	-40 -113	-25 -98
70	28.00	bu	-140 -213	-122 -195	-104 -177	-87 -160	-69 -142	-51 -124	-33 -107	-16 -89	1 -71	19 -53	36 -36
80	32.00	bu	-103 -176	-83 -156	-62 -135	-42 -115	-22 -95	-2 -75	18 -54	38 -34	58 -14	78 5	99 26
90	36.00	bu	-66 -139	-43 -116	-20 -93	1 -71	24 -48	47 -25	70 -2	93 20	115 42	138 65	161 88
100	40.00	bu	-29 -102	-4 -77	21 -51	46 -26	71 -1	97 24	122 49	147 74	173 100	198 125	223 150
110	44.00	bu	7 -65	35 -37	63 -9	90 17	118 45	146 73	174 101	202 129	230 157	258 185	286 212
120	48.00	bu	44 -28	74 1	105 31	135 62	165 92	196 123	226 153	257 184	287 214	317 244	348 275
130	52.00	bu	81 8	114 41	147 73	179 106	212 139	245 172	278 205	311 238	344 271	377 304	410 337
140	56.00	bu	118 45	153 80	188 115	224 151	259 186	295 222	330 257	366 293	401 328	437 364	472 399
150	60.00	bu	154 81	192 119	230 157	268 195	307 233	345 271	383 310	421 348	459 386	497 424	535 462

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

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

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

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

Table 18.A Estimated costs per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
Incidental Pest Trt	\$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	65.00	0.3330	21.65	_____
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	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
hour	17.89	0.1452	2.60	_____	
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____
TOTAL DIRECT EXPENSES				368.35	_____
FIXED EXPENSES					
implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				409.50	_____

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____
TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
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	21.65	1.0000	21.65	_____
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	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____
TOTAL DIRECT EXPENSES				368.35	_____
RETURNS ABOVE DIRECT EXPENSES				-51.60	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				409.50	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-92.75	_____

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	Nov		0.3330				
Lime (Spread)	ton			0.33	Nov		0.3330				
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 2023 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, 2024

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					0.27	3.60
Lime (Spread)	ton	21.65					1.79	23.44
Custom Apply Fert	acre	7.50					0.62	8.12
Phosphorus (46% P2O5)	cwt	34.15					2.82	36.97
Potash (60% K2O)	cwt	48.15					3.97	52.12
Soybeans Consultant	acre	6.50					0.27	6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15		0.30	9.09
Soybean Seed RR2X	lb	57.50					1.98	59.48
CruiserMaxx Vibrance	oz	12.21					0.42	12.63
Inoculant -Soybean	acre	1.55					0.05	1.60
Boundary	pt	24.00					0.83	24.83
Gramoxone SL 2.0	oz	15.84					0.54	16.38
Surfactant	pt	1.32					0.05	1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44		0.03	1.19
Glyphosate 3lbs a.e	oz	8.00					0.22	8.22
Engenia	oz	10.24					0.28	10.52
Dual Magnum	pt	10.75					0.30	11.05
App by Air (5 gal)	appl	8.11					0.17	8.28
Acephate 90SP	lb	6.19					0.13	6.32
App by Air (5 gal)	appl	8.11					0.17	8.28
Prevathon	oz	14.70					0.30	15.00
Surfactant	pt	0.33					0.01	0.34
Bifenthrin	oz	3.58					0.07	3.65
Incidental Pest								
App by Air (5 gal)	appl	8.11					0.11	8.22
IncidentalPestTrt \$8	acre	8.00					0.11	8.11
Header -Soybean	30' Flex		4.90	5.73	2.84		0.09	13.56
Haul Soybeans	bu	6.75					0.05	6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71		0.02	2.41

TOTALS		326.57	9.24	10.43	6.14	0.00	15.97	368.35
								41.15
								409.50

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

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	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	39.84	28.99	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	24.47	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	21.65	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	2.15	0.44	0.00	0.00	3.55
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	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.17	0.83	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	125.38	30.98	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-125.38	-30.98	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-256.40	-287.38	-329.25	-345.58	-51.60

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

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
Soybeans		9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	
PERCENT YIELD UNIT dollars													
50	12.50	bu	-246 -287	-238 -279	-230 -271	-222 -263	-214 -255	-206 -247	-198 -239	-190 -231	-182 -223	-174 -216	-166 -208
60	15.00	bu	-223 -264	-213 -245	-204 -235	-194 -226	-185 -216	-175 -207	-166 -197	-156 -188	-147 -178	-137 -169	-128
70	17.50	bu	-200 -241	-188 -218	-177 -207	-166 -196	-155 -185	-144 -174	-133 -163	-122 -152	-111 -141	-100 -130	-89
80	20.00	bu	-176 -218	-164 -205	-151 -192	-138 -180	-126 -167	-113 -154	-100 -142	-88 -129	-75 -116	-62 -104	-50 -91
90	22.50	bu	-153 -195	-139 -180	-125 -166	-111 -152	-96 -137	-82 -123	-68 -109	-54 -95	-39 -80	-25 -66	-11 -52
100	25.00	bu	-130 -171	-114 -156	-99 -140	-83 -124	-67 -108	-51 -92	-35 -76	-19 -61	-4 -45	11 -29	27 -13
110	27.50	bu	-107 -148	-90 -131	-72 -114	-55 -96	-38 -79	-20 -61	-3 -44	14 -26	31 -9	49 7	66 25
120	30.00	bu	-84 -125	-65 -106	-46 -87	-27 -68	-8 -49	10 -30	29 -11	48 7	67 26	86 45	105 64
130	32.50	bu	-61 -102	-40 -82	-20 -61	0 -40	20 -20	41 0	61 20	82 41	103 62	123 82	144 103
140	35.00	bu	-38 -79	-16 -57	5 -35	28 -13	50 9	72 31	94 53	116 75	138 97	161 119	183 142
150	37.50	bu	-15 -56	8 -32	32 -9	55 14	79 38	103 62	127 85	150 109	174 133	198 157	222 181

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

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

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

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

Table 19.A Estimated costs per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
App by Air (3 gal)	appl	6.87	1.2000	8.24	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	1.6300	63.98	_____
Potash (60% K2O)	cwt	36.20	1.2500	45.25	_____
UAN + Sulfur (28%)	gal	3.46	56.0263	193.85	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2804	0.72	_____
Intrepid 2F	oz	1.99	4.0000	7.96	_____
SEED/PLANTS					
Corn Seed RR2	thous	4.26	28.0000	119.28	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4295	7.71	_____
Harvesters	hour	17.94	0.1277	2.29	_____
Self-Propelled	hour	17.94	0.0176	0.32	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0088	0.08	_____
UNALLOCATED LABOR					
DIESEL FUEL	hour	17.91	0.5173	9.27	_____
Tractors	gal	3.44	4.9741	17.12	_____
Harvesters	gal	3.44	1.7419	5.99	_____
Self-Propelled	gal	3.44	0.1586	0.55	_____
REPAIR & MAINTENANCE					
Implements	acre	12.81	1.0000	12.81	_____
Tractors	acre	4.15	1.0000	4.15	_____
Harvesters	acre	6.16	1.0000	6.16	_____
Self-Propelled	acre	0.20	1.0000	0.20	_____
INTEREST ON OP. CAP.	acre	33.59	1.0000	33.59	_____
TOTAL DIRECT EXPENSES				725.81	_____
FIXED EXPENSES					
Implements	acre	25.65	1.0000	25.65	_____
Tractors	acre	32.07	1.0000	32.07	_____
Harvesters	acre	29.49	1.0000	29.49	_____
Self-Propelled	acre	1.63	1.0000	1.63	_____
TOTAL FIXED EXPENSES				88.84	_____
TOTAL SPECIFIED EXPENSES				814.65	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Corn	bu	5.11	170.0000	868.70	_____
TOTAL INCOME				868.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.35	1.0000	16.35	_____
FERTILIZERS	acre	303.08	1.0000	303.08	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	8.68	1.0000	8.68	_____
SEED/PLANTS	acre	119.28	1.0000	119.28	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.5748	10.32	_____
UNALLOCATED LABOR	hour	17.91	0.5173	9.27	_____
DIESEL FUEL	gal	3.44	6.8748	23.66	_____
REPAIR & MAINTENANCE	acre	23.32	1.0000	23.32	_____
INTEREST ON OP. CAP.	acre	33.59	1.0000	33.59	_____
TOTAL DIRECT EXPENSES				725.81	_____
RETURNS ABOVE DIRECT EXPENSES				142.89	_____
TOTAL FIXED EXPENSES				88.84	_____
TOTAL SPECIFIED EXPENSES				814.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				54.05	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	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				
Surfactant	pt						0.3000				
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				
Surfactant	pt						0.3000				
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
Grain Cart Corn	500 bu	MFWD 225	0.025	1.00	Sep				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
TOTALS								0.57	0.55	0.72	0.51

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	43.29				3.57	46.86	46.86
Spin Spreader	5 ton		1.68	0.75	1.82	0.35	4.60	4.00
Phosphorus (46% P2O5)	cwt	63.98				5.28	69.26	69.26
Potash (60% K2O)	cwt	45.25				3.73	48.98	48.98
Disk Heavy	28'		3.02	2.30	2.58	0.65	8.55	9.80
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13	0.58	7.57	10.50
App by Air (5 gal)	appl	8.11				0.45	8.56	8.56
Glyphosate 3lbs a.e.	oz	8.00				0.44	8.44	8.44
Clarity	pt	7.15				0.39	7.54	7.54
Select Max	pt	15.01				0.83	15.84	15.84
Surfactant	pt	0.99				0.05	1.04	1.04
Plant - Rigid	12R-30		2.50	2.44	2.71	0.37	8.02	9.12
Corn Seed RR2	thous	119.28				5.74	125.02	125.02
Custom Apply Fert	acre	7.50				0.31	7.81	7.81
UAN + Sulfur (28%)	gal	66.80				2.76	69.56	69.56
Sprayer 600-750gal	60' 175hp		0.55	0.20	0.68	0.06	1.49	1.63
Atrazine 4L	pt	10.84				0.45	11.29	11.29
Halex GT	pt	34.67				1.43	36.10	36.10
Surfactant	pt	0.99				0.04	1.03	1.03
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04	0.29	8.73	7.99
UAN + Sulfur (28%)	gal	127.05				4.37	131.42	131.42
Corn Consultant	acre	6.00				0.21	6.21	6.21
App by Air (3 gal)	appl	1.37				0.05	1.42	1.42
Bifenthrin	oz	0.72				0.02	0.74	0.74
App by Air (3 gal)	appl	6.87				0.19	7.06	7.06
Intrepid 2F	oz	7.96				0.22	8.18	8.18
Header - Corn	8R-30		5.99	9.32	4.35	0.14	19.80	35.41
Grain Cart Corn	500 bu		1.01	0.48	0.86	0.02	2.37	2.43
Haul Corn	bu	39.10				0.27	39.37	39.37
Stalk Shredder Flex	20'		3.29	3.19	2.81	0.06	9.35	7.96
TOTALS		624.26	23.66	23.32	20.98	0.00	33.59	725.81
								88.84
								814.65

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR2, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2024

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	868.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	6.87	0.00	0.00	0.00
FERTILIZERS	109.23	0.00	0.00	0.00	0.00	0.00	66.80	127.05	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	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	0.72	7.96	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	119.28	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	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	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	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	6.53	0.00	0.00	0.00	0.00	2.71	0.68	3.04	0.00	0.00	0.00	8.02
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	7.19	0.00	0.00	0.00	0.00	2.50	0.55	3.13	0.00	0.00	0.00	10.29
REPAIR & MAINTENANCE	5.42	0.00	0.00	0.00	0.00	2.44	0.20	2.27	0.00	0.00	0.00	12.99
INTEREST ON OP. CAP.	14.43	0.00	0.00	0.00	2.16	6.11	5.05	4.94	0.41	0.00	0.00	0.49
TOTAL DIRECT EXPENSES	189.42	0.00	0.00	0.00	41.42	133.04	127.28	148.52	15.24	0.00	0.00	70.89
NET INCOME	-189.42	0.00	0.00	0.00	-41.42	-133.04	-127.28	-148.52	-15.24	0.00	0.00	797.81
NET INCOME TO DATE	-189.42	-189.42	-189.42	-189.42	-230.84	-363.88	-491.16	-639.68	-654.92	-654.92	-654.92	142.89

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	85.00	bu	-380 -469	-358 -447	-336 -425	-315 -404	-293 -382	-271 -360	-250 -338	-228 -317	-206 -295	-184 -273	-163 -252
60	102.00	bu	-319 -407	-293 -381	-267 -355	-240 -329	-214 -303	-188 -277	-162 -251	-136 -225	-110 -199	-84 -173	-58 -147
70	119.00	bu	-257 -346	-227 -316	-197 -285	-166 -255	-136 -225	-105 -194	-75 -164	-45 -133	-14 -103	15 -73	46 -42
80	136.00	bu	-196 -285	-161 -250	-127 -216	-92 -181	-57 -146	-22 -111	11 -77	46 -42	81 -7	116 27	150 61
90	153.00	bu	-135 -224	-96 -185	-57 -146	-18 -107	20 -67	59 -28	99 10	138 49	177 88	216 127	255 166
100	170.00	bu	-74 -163	-30 -119	12 -76	56 -32	99 10	142 54	186 97	229 140	273 184	316 227	360 271
110	187.00	bu	-13 -101	34 -54	82 -6	130 41	178 89	225 136	273 184	321 232	369 280	416 328	464 375
120	204.00	bu	48 -40	100 11	152 63	204 115	256 167	308 219	360 272	413 324	465 376	517 428	569 480
130	221.00	bu	109 20	165 76	222 133	278 189	335 246	391 302	448 359	504 415	561 472	617 528	674 585
140	238.00	bu	170 81	231 142	292 203	353 264	413 324	474 385	535 446	596 507	657 568	717 629	778 689
150	255.00	bu	231 142	296 208	362 273	427 338	492 403	557 468	622 533	687 599	753 664	818 729	883 794

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

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

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

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

Table 20.A Estimated costs per acre
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	1.2000	8.24	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	1.6300	63.98	_____
Potash (60% K2O)	cwt	36.20	1.2500	45.25	_____
UAN + Sulfur (28%)	gal	3.46	56.0263	193.85	_____
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	1.2804	0.72	_____
Intrepid 2F	oz	1.99	4.0000	7.96	_____
SEED/PLANTS					
Corn Seed RR2	thous	4.26	28.0000	119.28	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.4137	7.43	_____
Harvesters	hour	17.94	0.1277	2.29	_____
Self-Propelled	hour	17.94	0.0176	0.32	_____
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	17.92	0.5032	9.02	_____	
DIESEL FUEL					
Tractors	gal	3.44	4.7921	16.50	_____
Harvesters	gal	3.44	1.7419	5.99	_____
Self-Propelled	gal	3.44	0.1586	0.55	_____
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	_____
REPAIR & MAINTENANCE					
Implements	acre	13.91	1.0000	13.91	_____
Tractors	acre	4.00	1.0000	4.00	_____
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	36.09	1.0000	36.09	_____
TOTAL DIRECT EXPENSES				830.18	_____
FIXED EXPENSES					
Implements	acre	28.30	1.0000	28.30	_____
Tractors	acre	30.90	1.0000	30.90	_____
Harvesters	acre	29.49	1.0000	29.49	_____
Self-Propelled	acre	1.63	1.0000	1.63	_____
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	_____
TOTAL FIXED EXPENSES				189.82	_____
TOTAL SPECIFIED EXPENSES				1020.00	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____
TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.46	1.0000	24.46	_____
FERTILIZERS	acre	303.08	1.0000	303.08	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	8.68	1.0000	8.68	_____
SEED/PLANTS	acre	119.28	1.0000	119.28	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.5591	10.04	_____
UNALLOCATED LABOR	hour	17.92	0.5032	9.02	_____
DIESEL FUEL	gal	3.44	17.8938	61.57	_____
REPAIR & MAINTENANCE	acre	46.22	1.0000	46.22	_____
INTEREST ON OP. CAP.	acre	36.09	1.0000	36.09	_____
TOTAL DIRECT EXPENSES				830.18	_____
RETURNS ABOVE DIRECT EXPENSES				294.02	_____
TOTAL FIXED EXPENSES				189.82	_____
TOTAL SPECIFIED EXPENSES				1020.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				104.20	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2, 16-row 30",
 Pivot irrigated, 220 bu yield goal, Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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				
Surfactant	pt					0.3000				
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					1.0000				
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				
Surfactant	pt					0.3000				
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				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
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					1.0000				

TOTALS							0.55	0.54	0.90	0.50

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2, 16-row 30",
 Pivot irrigated, 220 bu yield goal, Non-Delta, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST					FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	
-----dollars-----								
Soil Test	acre	3.33				0.27	3.60	3.60
Lime (Spread)	ton	43.29				3.57	46.86	46.86
Spin Spreader	5 ton		1.68	0.75	1.82	0.35	4.60	4.00
Phosphorus (46% P2O5)	cwt	63.98				5.28	69.26	69.26
Potash (60% K2O)	cwt	45.25				3.73	48.98	48.98
Disk Heavy	28'		3.02	2.30	2.58	0.65	8.55	9.80
Bed/Disk w/roller	12R-30/40		2.49	2.37	2.13	0.58	7.57	10.50
App by Air (5 gal)	appl	8.11				0.45	8.56	8.56
Glyphosate 3lbs a.e.	oz	8.00				0.44	8.44	8.44
Clarity	pt	7.15				0.39	7.54	7.54
Select Max	pt	15.01				0.83	15.84	15.84
Surfactant	pt	0.99				0.05	1.04	1.04
Plant - Folding	16R-30		1.88	3.39	2.04	0.35	7.66	10.60
Corn Seed RR2	thous	119.28				5.74	125.02	125.02
Custom Apply Fert	acre	7.50				0.31	7.81	7.81
UAN + Sulfur (28%)	gal	66.80				2.76	69.56	69.56
Sprayer 600-750gal	60' 175hp		0.55	0.20	0.68	0.06	1.49	1.63
Atrazine 4L	pt	10.84				0.45	11.29	11.29
Halex GT	pt	34.67				1.43	36.10	36.10
Surfactant	pt	0.99				0.04	1.03	1.03
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04	0.29	8.73	7.99
UAN + Sulfur (28%)	gal	127.05				4.37	131.42	131.42
Corn Consultant	acre	6.00				0.21	6.21	6.21
App by Air (3 gal)	appl	1.37				0.05	1.42	1.42
Bifenthrin	oz	0.72				0.02	0.74	0.74
App by Air (3 gal)	appl	6.87				0.19	7.06	7.06
Intrepid 2F	oz	7.96				0.22	8.18	8.18
App by Air (5 gal)	appl	8.11				0.17	8.28	8.28
Trivapro	oz	20.28				0.42	20.70	20.70
Header - Corn	8R-30		5.99	9.32	4.35	0.14	19.80	35.41
Grain Cart Corn	500 bu		1.01	0.48	0.86	0.02	2.37	2.43
Haul Corn	bu	50.60				0.35	50.95	50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81	0.06	9.35	7.96
1/4-mi. Pivot Irr.	acre	38.53	21.95	1.84		1.85	64.17	99.50
TOTALS		664.15	61.57	46.22	22.15	0.00	36.09	830.18
								189.82
								1020.00

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR2, 16-row 30", 220 bu yield goal
 Pivot irrigated, 7.5 ac-in, Non-Delta, Mississippi, 2024

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	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	1.37	6.87	8.11	0.00	0.00
FERTILIZERS	109.23	0.00	0.00	0.00	0.00	0.00	66.80	127.05	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	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	0.72	7.96	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	119.28	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	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	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	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	6.53	0.00	0.00	0.00	0.00	2.04	2.02	3.19	0.20	0.15	0.00	8.02
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	7.19	0.00	0.00	0.00	0.00	1.88	0.55	14.69	15.41	11.56	0.00	10.29
REPAIR & MAINTENANCE	5.42	0.00	0.00	0.00	0.00	3.39	0.20	20.74	1.99	1.49	0.00	12.99
INTEREST ON OP. CAP.	14.43	0.00	0.00	0.00	2.16	6.09	5.10	5.98	0.90	0.86	0.00	0.57
TOTAL DIRECT EXPENSES	189.42	0.00	0.00	0.00	41.42	132.68	128.67	179.74	33.33	42.45	0.00	82.47
NET INCOME	-189.42	0.00	0.00	0.00	-41.42	-132.68	-128.67	-179.74	-33.33	-42.45	0.00	1041.73
NET INCOME TO DATE	-189.42	-189.42	-189.42	-189.42	-230.84	-363.52	-492.19	-671.93	-705.26	-747.71	-747.71	294.02

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT	PERCENT	PRODUCT	PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRICE										
Corn			3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
PERCENT	YIELD	UNIT	dollars										
50	110.00	bu	-383 -572	-355 -544	-326 -516	-298 -488	-270 -460	-242 -432	-214 -404	-186 -376	-158 -348	-130 -320	-102 -291
60	132.00	bu	-303 -493	-270 -460	-236 -426	-202 -392	-169 -358	-135 -325	-101 -291	-67 -257	-34 -223	-0 -190	33 -156
70	154.00	bu	-224 -414	-185 -375	-145 -335	-106 -296	-67 -257	-27 -217	11 -178	50 -139	90 -99	129 -60	168 -21
80	176.00	bu	-145 -335	-100 -290	-55 -245	-10 -200	34 -155	79 -110	124 -65	169 -20	214 24	259 69	304 114
90	198.00	bu	-66 -256	-15 -205	34 -154	85 -104	136 -53	186 -3	237 47	287 98	338 148	389 199	439 249
100	220.00	bu	12 -176	69 -120	125 -64	181 -8	237 47	294 104	350 160	406 216	462 272	518 329	575 385
110	242.00	bu	92 -97	154 -35	215 26	277 87	339 149	401 211	463 273	525 335	586 397	648 458	710 520
120	264.00	bu	171 -18	238 49	306 116	373 183	441 251	508 318	576 386	643 453	711 521	778 588	845 656
130	286.00	bu	250 60	323 133	396 206	469 280	542 353	615 426	689 499	762 572	835 645	908 718	981 791
140	308.00	bu	329 140	408 218	487 297	565 376	644 454	723 533	802 612	880 690	959 769	1038 848	1116 926
150	330.00	bu	409 219	493 303	577 387	662 472	746 556	830 640	914 725	999 809	1083 893	1167 978	1252 1062

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

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

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

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

Table 21.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-irrigated, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
App by Air (3 gal)	appl	6.87	1.0000	6.87	_____
FERTILIZERS					
DAP	cwt	47.21	1.6300	76.95	_____
Potash (60% K2O)	cwt	36.20	1.2500	45.25	_____
Fert 10-34-0	gal	4.66	5.0000	23.30	_____
UAN (32%)	gal	4.00	43.8348	175.34	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Clarity	pt	14.29	0.5000	7.15	_____
Select Max	pt	15.01	1.0000	15.01	_____
Atrazine 4L	pt	2.71	4.0000	10.84	_____
Halex GT	pt	9.63	3.6000	34.67	_____
INSECTICIDES					
Bifenthrin	oz	0.56	6.4020	3.59	_____
SEED/PLANTS					
Corn Seed BtRR	thous	3.61	28.0000	101.08	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
HAULING					
Haul Corn	bu	0.23	170.0000	39.10	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
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	17.94	0.3616	6.48	_____
Harvesters	hour	17.94	0.1277	2.29	_____
HAND LABOR					
Implements	hour	9.06	0.1832	1.66	_____
UNALLOCATED LABOR					
hour		17.93	0.4404	7.90	_____
DIESEL FUEL					
Tractors	gal	3.44	4.1883	14.42	_____
Harvesters	gal	3.44	1.7419	5.99	_____
REPAIR & MAINTENANCE					
Implements	acre	10.46	1.0000	10.46	_____
Tractors	acre	3.50	1.0000	3.50	_____
Harvesters	acre	6.16	1.0000	6.16	_____
INTEREST ON OP. CAP.	acre	29.29	1.0000	29.29	_____

TOTAL DIRECT EXPENSES				698.01	_____
FIXED EXPENSES					
Implements	acre	17.91	1.0000	17.91	_____
Tractors	acre	27.01	1.0000	27.01	_____
Harvesters	acre	29.49	1.0000	29.49	_____

TOTAL FIXED EXPENSES				74.41	_____

TOTAL SPECIFIED EXPENSES				772.42	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Corn	bu	5.11	170.0000	868.70	_____
TOTAL INCOME				868.70	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	14.98	1.0000	14.98	_____
FERTILIZERS	acre	320.84	1.0000	320.84	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	3.59	1.0000	3.59	_____
SEED/PLANTS	acre	101.08	1.0000	101.08	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
HAULING	acre	39.10	1.0000	39.10	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.4893	8.77	_____
UNALLOCATED LABOR	hour	17.93	0.4404	7.90	_____
DIESEL FUEL	gal	3.44	5.9303	20.41	_____
REPAIR & MAINTENANCE	acre	20.12	1.0000	20.12	_____
INTEREST ON OP. CAP.	acre	29.29	1.0000	29.29	_____
TOTAL DIRECT EXPENSES				698.01	_____
RETURNS ABOVE DIRECT EXPENSES				170.69	_____
TOTAL FIXED EXPENSES				74.41	_____
TOTAL SPECIFIED EXPENSES				772.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				96.28	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----											
Soil Test	acre			0.33	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				
Surfactant	pt						0.3000				
Spin Spreader	5 ton	MFWD	225	0.042	1.00	Mar			0.04	0.04	0.08
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
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
Atrazine 4L	pt						4.0000				
Halex GT	pt						3.6000				
Surfactant	pt						0.3000				
Fert Appl (Liquid)	12R-30	MFWD	225	0.078	1.00	Apr			0.07	0.07	0.11
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
Grain Cart Corn	500 bu	MFWD	225	0.025	1.00	Sep			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
TOTALS									0.48	0.48	0.67
											0.44

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	DIRECT COST	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----											
Soil Test	acre	3.33							0.27	3.60	3.60
Lime (Spread)	ton	43.29							3.57	46.86	46.86
App by Air (5 gal)	appl	8.11							0.45	8.56	8.56
Glyphosate 3lbs a.e	oz	8.00							0.44	8.44	8.44
Clarity	pt	7.15							0.39	7.54	7.54
Select Max	pt	15.01							0.83	15.84	15.84
Surfactant	pt	0.99							0.05	1.04	1.04
Spin Spreader	5 ton		1.68	0.75	1.82				0.20	4.45	4.00
DAP	cwt	76.95							3.70	80.65	80.65
Potash (60% K2O)	cwt	45.25							2.18	47.43	47.43
NT Plant&Pre-Rigid	12R-30		2.81	3.33	3.04				0.44	9.62	11.68
Corn Seed BtRR	thous	101.08							4.86	105.94	105.94
Fert 10-34-0	gal	23.30							1.12	24.42	24.42
Spray (Broadcast)	27'		2.50	0.78	2.41				0.23	5.92	4.94
Atrazine 4L	pt	10.84							0.45	11.29	11.29
Halex GT	pt	34.67							1.43	36.10	36.10
Surfactant	pt	0.99							0.04	1.03	1.03
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04				0.35	8.79	7.99
UAN (32%)	gal	175.34							7.23	182.57	182.57
Corn Consultant	acre	6.00							0.21	6.21	6.21
App by Air (3 gal)	appl	6.87							0.24	7.11	7.11
Bifenthrin	oz	3.59							0.12	3.71	3.71
Header - Corn	8R-30		5.99	9.32	4.35				0.14	19.80	35.41
Grain Cart Corn	500 bu		1.01	0.48	0.86				0.02	2.37	2.43
Haul Corn	bu	39.10							0.27	39.37	39.37
Stalk Shredder Flex	20'		3.29	3.19	2.81				0.06	9.35	7.96
TOTALS		609.86	20.41	20.12	18.33	0.00	29.29	698.01	74.41	772.42	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

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	868.70
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	6.87	0.00	0.00	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	145.50	175.34	0.00	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	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	3.59	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	101.08	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	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	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	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	4.86	5.45	0.00	0.00	0.00	0.00	8.02
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	4.49	5.63	0.00	0.00	0.00	0.00	10.29
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	4.08	3.05	0.00	0.00	0.00	0.00	12.99
INTEREST ON OP. CAP.	3.84	0.00	0.00	0.00	2.16	12.50	9.73	0.57	0.00	0.00	0.00	0.49
TOTAL DIRECT EXPENSES	50.46	0.00	0.00	0.00	41.42	272.51	245.70	17.03	0.00	0.00	0.00	70.89
NET INCOME	-50.46	0.00	0.00	0.00	-41.42	-272.51	-245.70	-17.03	0.00	0.00	0.00	797.81
NET INCOME TO DATE	-50.46	-50.46	-50.46	-50.46	-91.88	-364.39	-610.09	-627.12	-627.12	-627.12	-627.12	170.69

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT		75	80	85	90	95	100	105	110	115	120	125	PERCENT		
													PRODUCT	PRICE	
Corn		3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38			
PERCENT YIELD UNIT dollars															
50	85.00	bu	-352 -426	-330 -405	-309 -383	-287 -361	-265 -340	-243 -318	-222 -296	-200 -274	-178 -253	-157 -231	-135 -209		
60	102.00	bu	-291 -365	-265 -339	-239 -313	-213 -287	-187 -261	-161 -235	-134 -209	-108 -183	-82 -157	-56 -131	-30 -105		
70	119.00	bu	-230 -304	-199 -274	-169 -243	-138 -213	-108 -182	-78 -152	-47 -122	-17 -91	13 -61	43 -30	73 -0		
80	136.00	bu	-168 -243	-134 -208	-99 -173	-64 -139	-29 -104	4 -69	39 -34	74 -0	109 34	143 69	178 104		
90	153.00	bu	-107 -182	-68 -143	-29 -103	9 -64	48 -25	87 13	126 52	165 91	205 130	244 169	283 208		
100	170.00	bu	-46 -120	-3 -77	40 -34	83 9	127 52	170 96	214 139	257 183	300 226	344 270	387 313		
110	187.00	bu	14 -59	62 -11	110 35	158 83	205 131	253 179	301 226	349 274	396 322	444 370	492 418		
120	204.00	bu	75 1	128 53	180 105	232 157	284 210	336 262	388 314	440 366	492 418	545 470	597 522		
130	221.00	bu	137 62	193 119	250 175	306 232	363 288	419 345	475 401	532 458	588 514	645 570	701 627		
140	238.00	bu	198 123	259 184	319 245	380 306	441 367	502 428	563 488	624 549	684 610	745 671	806 732		
150	255.00	bu	259 185	324 250	389 315	455 380	520 445	585 510	650 576	715 641	780 706	845 771	911 836		

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

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

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

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

Table 22.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 220 bu yield goal
 Pivot irrigated, Non-Delta, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	
App by Air (3 gal)	appl	6.87	1.0000	6.87	
FERTILIZERS					
DAP	cwt	47.21	1.6300	76.95	
Potash (60% K2O)	cwt	36.20	1.2500	45.25	
Fert 10-34-0	gal	4.66	5.0000	23.30	
UAN (32%)	gal	4.00	43.8348	175.34	
FUNGICIDES					
Trivapro	oz	1.48	13.7000	20.28	
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	
Clarity	pt	14.29	0.5000	7.15	
Select Max	pt	15.01	1.0000	15.01	
Atrazine 4L	pt	2.71	4.0000	10.84	
Halex GT	pt	9.63	3.6000	34.67	
INSECTICIDES					
Bifenthrin	oz	0.56	6.4020	3.59	
SEED/PLANTS					
Corn Seed BtRR	thous	3.61	28.0000	101.08	
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	
HAULING					
Haul Corn	bu	0.23	220.0000	50.60	
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	
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	17.94	0.3616	6.48	
Harvesters	hour	17.94	0.1277	2.29	
IRRIGATE LABOR					
Special Labor	hour	9.06	0.2036	1.84	
HAND LABOR					
Implements	hour	9.06	0.1832	1.66	
UNALLOCATED LABOR					
hour	17.93	0.4404	7.90		
DIESEL FUEL					
Tractors	gal	3.44	4.1883	14.42	
Harvesters	gal	3.44	1.7419	5.99	
1/4-mi. Pivot Irr.	gal	3.44	11.2011	38.53	
REPAIR & MAINTENANCE					
Implements	acre	10.46	1.0000	10.46	
Tractors	acre	3.50	1.0000	3.50	
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	31.81	1.0000	31.81	
TOTAL DIRECT EXPENSES				802.74	
FIXED EXPENSES					
Implements	acre	17.91	1.0000	17.91	
Tractors	acre	27.01	1.0000	27.01	
Harvesters	acre	29.49	1.0000	29.49	
1/4-mi. Pivot Irr.	acre	99.50	1.0000	99.50	
TOTAL FIXED EXPENSES				173.91	
TOTAL SPECIFIED EXPENSES				976.65	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Corn	bu	5.11	220.0000	1124.20	_____
TOTAL INCOME				1124.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.09	1.0000	23.09	_____
FERTILIZERS	acre	320.84	1.0000	320.84	_____
FUNGICIDES	acre	20.28	1.0000	20.28	_____
HERBICIDES	acre	75.67	1.0000	75.67	_____
INSECTICIDES	acre	3.59	1.0000	3.59	_____
SEED/PLANTS	acre	101.08	1.0000	101.08	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
HAULING	acre	50.60	1.0000	50.60	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.4893	8.77	_____
UNALLOCATED LABOR	hour	17.93	0.4404	7.90	_____
DIESEL FUEL	gal	3.44	17.1314	58.94	_____
REPAIR & MAINTENANCE	acre	42.07	1.0000	42.07	_____
INTEREST ON OP. CAP.	acre	31.81	1.0000	31.81	_____
TOTAL DIRECT EXPENSES				802.74	_____
RETURNS ABOVE DIRECT EXPENSES				321.46	_____
TOTAL FIXED EXPENSES				173.91	_____
TOTAL SPECIFIED EXPENSES				976.65	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				147.55	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre		0.33	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				
Surfactant	pt					0.3000				
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				
Surfactant	pt					0.3000				
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				
App by Air (5 gal)	appl			1.00	Jul	1.0000				
Trivapro	oz					13.7000				
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 2023 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----										
Soil Test	acre	3.33				0.27	3.60			3.60
Lime (Spread)	ton	43.29				3.57	46.86			46.86
App by Air (5 gal)	appl	8.11				0.45	8.56			8.56
Glyphosate 3lbs a.e	oz	8.00				0.44	8.44			8.44
Clarity	pt	7.15				0.39	7.54			7.54
Select Max	pt	15.01				0.83	15.84			15.84
Surfactant	pt	0.99				0.05	1.04			1.04
Spin Spreader	5 ton		1.68	0.75	1.82	0.20	4.45	4.00	8.45	
DAP	cwt	76.95				3.70	80.65			80.65
Potash (60% K2O)	cwt	45.25				2.18	47.43			47.43
NT Plant&Pre-Rigid	12R-30		2.81	3.33	3.04	0.44	9.62	11.68	21.30	
Corn Seed BtRR	thous	101.08				4.86	105.94			105.94
Fert 10-34-0	gal	23.30				1.12	24.42			24.42
Spray (Broadcast)	27'		2.50	0.78	2.41	0.23	5.92	4.94	10.86	
Atrazine 4L	pt	10.84				0.45	11.29			11.29
Halex GT	pt	34.67				1.43	36.10			36.10
Surfactant	pt	0.99				0.04	1.03			1.03
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04	0.35	8.79	7.99	16.78	
UAN (32%)	gal	175.34				7.23	182.57			182.57
Corn Consultant	acre	6.00				0.21	6.21			6.21
App by Air (3 gal)	appl	6.87				0.24	7.11			7.11
Bifenthrin	oz	3.59				0.12	3.71			3.71
App by Air (5 gal)	appl	8.11				0.17	8.28			8.28
Trivapro	oz	20.28				0.42	20.70			20.70
Header - Corn	8R-30		5.99	9.32	4.35	0.14	19.80	35.41	55.21	
Grain Cart Corn	500 bu		1.01	0.48	0.86	0.02	2.37	2.43	4.80	
Haul Corn	bu	50.60				0.35	50.95			50.95
Stalk Shredder Flex	20'		3.29	3.19	2.81	0.06	9.35	7.96	17.31	
1/4-mi. Pivot Irr.	acre	38.53	21.95	1.84		1.85	64.17	99.50	163.67	
TOTALS		649.75	58.94	42.07	20.17	0.00	31.81	802.74	173.91	976.65

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 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, 2024

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	1124.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	6.87	0.00	8.11	0.00	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	145.50	175.34	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	0.00	0.00	20.28	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	30.16	0.00	45.51	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	3.59	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	101.08	0.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.99	0.00	0.99	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	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	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	4.86	6.79	0.15	0.20	0.15	0.00	8.02
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	4.49	5.63	11.56	15.41	11.56	0.00	10.29
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	4.08	3.05	18.47	1.99	1.49	0.00	12.99
INTEREST ON OP. CAP.	3.84	0.00	0.00	0.00	2.16	12.50	9.78	1.61	0.49	0.86	0.00	0.57
TOTAL DIRECT EXPENSES	50.46	0.00	0.00	0.00	41.42	272.51	247.09	48.25	18.09	42.45	0.00	82.47
NET INCOME	-50.46	0.00	0.00	0.00	-41.42	-272.51	-247.09	-48.25	-18.09	-42.45	0.00	1041.73
NET INCOME TO DATE	-50.46	-50.46	-50.46	-50.46	-91.88	-364.39	-611.48	-659.73	-677.82	-720.27	-720.27	321.46

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT	PERCENT	YIELD	UNIT	PERCENT										
				75	80	85	90	95	100	105	110	115	120	125
Corn				3.83	4.08	4.34	4.59	4.85	5.11	5.36	5.62	5.87	6.13	6.38
dolars														
50	110.00	bu		-355 -529	-327 -501	-299 -473	-271 -445	-243 -417	-215 -389	-187 -360	-158 -332	-130 -304	-102 -276	-74 -248
60	132.00	bu		-276 -450	-242 -416	-209 -382	-175 -349	-141 -315	-107 -281	-74 -248	-40 -214	-6 -180	27 -146	60 -113
70	154.00	bu		-197 -371	-157 -331	-118 -292	-79 -253	-39 -213	-0 -174	38 -135	78 -95	117 -56	156 -17	196 22
80	176.00	bu		-118 -291	-73 -246	-28 -202	16 -157	61 -112	106 -112	151 -67	196 -22	241 67	286 112	331 157
90	198.00	bu		-38 -212	11 -162	62 -111	112 -60	163 -10	214 40	264 90	315 141	365 191	416 242	467 293
100	220.00	bu		40 -133	96 -77	152 -21	209 35	265 91	321 147	377 203	433 259	490 316	546 372	602 428
110	242.00	bu		119 -54	181 7	243 69	305 131	366 193	428 254	490 316	552 378	614 440	676 502	737 564
120	264.00	bu		198 24	266 92	333 159	401 227	468 294	536 362	603 429	671 497	738 564	805 632	873 699
130	286.00	bu		278 104	351 177	424 250	497 323	570 396	643 469	716 542	789 615	862 688	935 761	1008 834
140	308.00	bu		357 183	435 262	514 340	593 419	672 498	750 576	829 655	908 734	986 812	1065 891	1144 970
150	330.00	bu		436 262	520 346	605 431	689 515	773 599	858 684	942 768	1026 852	1111 937	1195 1021	1279 1105

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

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

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

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

Table 23.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
FERTILIZERS					
DAP	cwt	47.21	1.3000	61.37	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
UAN + Sulfur (28%)	gal	3.46	38.2883	132.48	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Lexar	pt	7.00	6.0000	42.00	_____
INSECTICIDES					
Sivanto Prime	oz	3.01	8.0000	24.08	_____
Warrior II	oz	2.74	1.5000	4.11	_____
Prevathon	oz	1.05	14.0000	14.70	_____
SEED/PLANTS					
Sorghum Concept+ Po	lb	4.16	4.5000	18.72	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
HAULING					
Haul Sorghum	bu	0.25	100.0000	25.00	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.6660	43.29	_____
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	17.94	0.2915	5.24	_____
Harvesters	hour	17.94	0.1021	1.83	_____
Self-Propelled	hour	17.94	0.0661	1.20	_____
HAND LABOR					
Implements	hour	9.06	0.1442	1.31	_____
Self-Propelled	hour	9.06	0.0330	0.30	_____
UNALLOCATED LABOR					
hour	17.88	0.4138	7.40	_____	
DIESEL FUEL					
Tractors	gal	3.44	3.3766	11.62	_____
Harvesters	gal	3.44	1.3935	4.79	_____
Self-Propelled	gal	3.44	0.8505	2.95	_____
REPAIR & MAINTENANCE					
Implements	acre	7.17	1.0000	7.17	_____
Tractors	acre	2.82	1.0000	2.82	_____
Harvesters	acre	4.93	1.0000	4.93	_____
Self-Propelled	acre	1.05	1.0000	1.05	_____
INTEREST ON OP. CAP.	acre	20.08	1.0000	20.08	_____
TOTAL DIRECT EXPENSES				521.52	_____
FIXED EXPENSES					
Implements	acre	17.66	1.0000	17.66	_____
Tractors	acre	21.76	1.0000	21.76	_____
Harvesters	acre	23.59	1.0000	23.59	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____
TOTAL FIXED EXPENSES				71.31	_____
TOTAL SPECIFIED EXPENSES				592.83	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Grain Sorghum	bu	4.85	100.0000	485.00	_____
TOTAL INCOME				485.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
FERTILIZERS	acre	230.05	1.0000	230.05	_____
HERBICIDES	acre	70.45	1.0000	70.45	_____
INSECTICIDES	acre	42.89	1.0000	42.89	_____
SEED/PLANTS	acre	18.72	1.0000	18.72	_____
ADJUVANTS	acre	0.99	1.0000	0.99	_____
HAULING	acre	25.00	1.0000	25.00	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.4598	8.27	_____
UNALLOCATED LABOR	hour	17.88	0.4138	7.40	_____
DIESEL FUEL	gal	3.44	5.6208	19.36	_____
REPAIR & MAINTENANCE	acre	15.97	1.0000	15.97	_____
INTEREST ON OP. CAP.	acre	20.08	1.0000	20.08	_____
TOTAL DIRECT EXPENSES				521.52	_____
RETURNS ABOVE DIRECT EXPENSES				-36.52	_____
TOTAL FIXED EXPENSES				71.31	_____
TOTAL SPECIFIED EXPENSES				592.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-107.83	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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
App by Air (5 gal)	appl				Feb	1.0000				0.05
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
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
Plant - Folding	12R-30	MFWD 225	0.062	1.00	Apr			0.06	0.06	0.12
Sorghum Concept+ Po	lb					4.5000				0.05
Sprayer 800gal	80' 250hp		0.013	1.00	Apr				0.01	0.01
Lexar	pt					6.0000				
Sorghum Consultant	acre					1.0000				
Fert Appl (Liquid)	12R-30	MFWD 225	0.078	1.00	May			0.07	0.07	0.11
UAN + Sulfur (28%)	gal					38.2883				0.07
Sprayer 800gal	80' 250hp		0.013	1.00	Jun				0.01	0.01
Sivanto Prime	oz					4.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul				0.01	0.01
Warrior II	oz					1.5000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul				0.01	0.01
Prevathon	oz					14.0000				
Sprayer 800gal	80' 250hp		0.013	1.00	Jul				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
Haul Sorghum	bu					100.0000				0.09
TOTALS								0.45	0.39	0.63
										0.41

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Soil Test	acre	3.33				0.27	3.60		3.60	
Lime (Spread)	ton	43.29				3.57	46.86		46.86	
Disk Harrow	32'		2.45	2.11	2.09	0.50	7.15	8.61	15.76	
App by Air (5 gal)	appl	8.11				0.45	8.56		8.56	
Glyphosate 3lbs a.e	oz	8.00				0.44	8.44		8.44	
2,4-D Amine 4	pt	5.44				0.30	5.74		5.74	
Select Max	pt	15.01				0.83	15.84		15.84	
Surfactant	pt	0.99				0.05	1.04		1.04	
Spin Spreader	5 ton		1.68	0.75	1.82	0.18	4.43	4.00	8.43	
DAP	cwt	61.37				2.53	63.90		63.90	
Potash (60% K2O)	cwt	36.20				1.49	37.69		37.69	
Field Cultivate Fld	32'		1.86	1.17	1.59	0.19	4.81	7.27	12.08	
Plant - Folding	12R-30		2.50	2.62	2.71	0.32	8.15	9.55	17.70	
Sorghum Concept+ Po	lb	18.72				0.77	19.49		19.49	
Sprayer 800gal	80' 250hp		0.59	0.21	0.51	0.05	1.36	1.66	3.02	
Lexar	pt	42.00				1.73	43.73		43.73	
Sorghum Consultant	acre	6.00				0.21	6.21		6.21	
Fert Appl (Liquid)	12R-30		3.13	2.27	3.04	0.29	8.73	7.99	16.72	
UAN + Sulfur (28%)	gal	132.48				4.55	137.03		137.03	
Sprayer 800gal	80' 250hp		0.59	0.21	0.51	0.04	1.35	1.66	3.01	
Sivanto Prime	oz	12.04				0.33	12.37		12.37	
Sprayer 800gal	80' 250hp		0.59	0.21	0.51	0.03	1.34	1.66	3.00	
Warrior II	oz	4.11				0.08	4.19		4.19	
Sprayer 800gal	80' 250hp		0.59	0.21	0.51	0.03	1.34	1.66	3.00	
Prevathon	oz	14.70				0.30	15.00		15.00	
Sprayer 800gal	80' 250hp		0.59	0.21	0.51	0.03	1.34	1.66	3.00	
Sivanto Prime	oz	12.04				0.25	12.29		12.29	
Header Wheat/Sorghum	25' Rigid		4.79	6.00	3.48	0.10	14.37	25.59	39.96	
Haul Sorghum	bu	25.00				0.17	25.17		25.17	
TOTALS		448.83	19.36	15.97	17.28	0.00	20.08	521.52	71.31	592.83

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

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	485.00
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	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	97.57	132.48	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	28.45	0.00	42.00	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	12.04	30.85	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	18.72	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	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	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	2.09	0.00	0.00	0.00	0.00	6.63	3.04	0.51	1.53	0.00	3.48
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	2.45	0.00	0.00	0.00	0.00	6.63	3.13	0.59	1.77	0.00	4.79
REPAIR & MAINTENANCE	0.00	2.11	0.00	0.00	0.00	0.00	4.75	2.27	0.21	0.63	0.00	6.00
INTEREST ON OP. CAP.	3.84	0.50	0.00	0.00	2.07	0.00	7.26	5.05	0.37	0.72	0.00	0.27
TOTAL DIRECT EXPENSES	50.46	7.15	0.00	0.00	39.62	0.00	183.56	151.97	13.72	35.50	0.00	39.54
NET INCOME	-50.46	-7.15	0.00	0.00	-39.62	0.00	-183.56	-151.97	-13.72	-35.50	0.00	445.46
NET INCOME TO DATE	-50.46	-57.61	-57.61	-57.61	-97.23	-97.23	-280.79	-432.76	-446.48	-481.98	-481.98	-36.52

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2024

PRODUCT	PERCENT	75	80	85	90	95	100	105	110	115	120	125	PRODUCT PRICE			
													3.63	3.88	4.12	
PERCENT	YIELD	UNIT	dollars													
Grain Sorghum			-327	-314	-302	-290	-278	-266	-254	-242	-230	-217	-205	3.63	3.88	4.12
			-398	-386	-374	-361	-349	-337	-325	-313	-301	-289	-277			
50	50.00	bu	-293	-278	-264	-249	-235	-220	-205	-191	-176	-162	-147			
			-364	-349	-335	-320	-306	-291	-277	-262	-248	-233	-219			
60	60.00	bu	-259	-242	-225	-208	-191	-174	-157	-140	-123	-106	-89			
			-330	-313	-296	-279	-262	-245	-228	-211	-194	-177	-160			
70	70.00	bu	-225	-206	-186	-167	-147	-128	-109	-89	-70	-50	-31			
			-296	-277	-257	-238	-219	-199	-180	-160	-141	-122	-102			
80	80.00	bu	-191	-169	-147	-126	-104	-82	-60	-38	-17	4	26			
			-262	-241	-219	-197	-175	-153	-131	-110	-88	-66	-44			
90	90.00	bu	-157	-133	-109	-85	-60	-36	-12	11	36	60	84			
			-229	-204	-180	-156	-132	-107	-83	-59	-35	-10	13			
100	100.00	bu	-123	-97	-70	-43	-17	9	36	62	89	116	142			
			-195	-168	-141	-115	-88	-61	-35	-8	18	44	71			
110	110.00	bu	-90	-60	-31	-2	26	55	84	113	142	171	200			
			-161	-132	-103	-74	-44	-15	13	42	71	100	129			
120	120.00	bu	-56	-24	6	38	69	101	132	164	196	227	259			
			-127	-95	-64	-32	-1	30	61	93	124	156	187			
130	130.00	bu	-22	11	45	79	113	147	181	215	249	283	317			
			-93	-59	-25	8	42	76	110	144	177	211	245			
140	140.00	bu	11	47	84	120	157	193	229	266	302	338	375			
			-59	-23	12	49	85	122	158	194	231	267	303			

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

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

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

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

Table 24.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
App by Air (3 gal)	appl	6.87	1.0000	6.87	_____
FERTILIZERS					
DAP	cwt	47.21	1.0000	47.21	_____
Potash (60% K2O)	cwt	36.20	0.7500	27.15	_____
Fert 41-0-0-4	cwt	38.00	3.0480	115.82	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	4.5000	34.34	_____
Miravis Ace	oz	1.78	13.7000	24.39	_____
HERBICIDES					
Axiom	oz	2.25	10.0000	22.50	_____
Harmony Extra SG	oz	11.00	0.7500	8.25	_____
Axial XL	oz	1.71	16.4000	28.04	_____
SEED/PLANTS					
Wheat Seed Private	lb	0.34	90.0000	30.60	_____
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	65.00	0.6660	43.29	_____
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	17.94	0.2129	3.83	_____
Harvesters	hour	17.94	0.1021	1.83	_____
HAND LABOR					
Implements	hour	9.06	0.1049	0.95	_____
UNALLOCATED LABOR					
hour	hour	17.92	0.2521	4.52	_____
DIESEL FUEL					
Tractors	gal	3.44	2.4667	8.49	_____
Harvesters	gal	3.44	1.3935	4.79	_____
REPAIR & MAINTENANCE					
Implements	acre	5.93	1.0000	5.93	_____
Tractors	acre	2.06	1.0000	2.06	_____
Harvesters	acre	4.93	1.0000	4.93	_____
INTEREST ON OP. CAP.	acre	22.63	1.0000	22.63	-----
 TOTAL DIRECT EXPENSES					
				516.05	_____
FIXED EXPENSES					
Implements	acre	16.18	1.0000	16.18	_____
Tractors	acre	15.89	1.0000	15.89	_____
Harvesters	acre	23.59	1.0000	23.59	_____
 TOTAL FIXED EXPENSES					
				55.66	-----
 TOTAL SPECIFIED EXPENSES					
				571.71	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Wheat	bu	6.17	70.0000	431.90	_____
TOTAL INCOME				431.90	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	23.09	1.0000	23.09	_____
FERTILIZERS	acre	190.18	1.0000	190.18	_____
FUNGICIDES	acre	58.73	1.0000	58.73	_____
HERBICIDES	acre	58.79	1.0000	58.79	_____
SEED/PLANTS	acre	30.60	1.0000	30.60	_____
CUSTOM FERTILIZE	acre	24.38	1.0000	24.38	_____
HAULING	acre	18.20	1.0000	18.20	_____
CUSTOM LIME	acre	43.29	1.0000	43.29	_____
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	17.94	0.3151	5.66	_____
UNALLOCATED LABOR	hour	17.92	0.2521	4.52	_____
DIESEL FUEL	gal	3.44	3.8602	13.28	_____
REPAIR & MAINTENANCE	acre	12.92	1.0000	12.92	_____
INTEREST ON OP. CAP.	acre	22.63	1.0000	22.63	_____
TOTAL DIRECT EXPENSES				516.05	_____
RETURNS ABOVE DIRECT EXPENSES				-84.15	_____
TOTAL FIXED EXPENSES				55.66	_____
TOTAL SPECIFIED EXPENSES				571.71	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-139.81	_____

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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									
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				
Miravis Ace	oz					13.7000				
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 2023 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	DIRECT COST	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----											
Soil Test	acre	3.33							0.23	3.56	3.56
Lime (Spread)	ton	43.29							2.98	46.27	46.27
Disk Harrow	32'		2.45	2.11	1.98				0.45	6.99	8.61
Spin Spreader	5 ton		1.68	0.75	1.74				0.29	4.46	4.00
DAP	cwt	47.21							3.25	50.46	50.46
Potash (60% K2O)	cwt	27.15							1.87	29.02	29.02
Field Cultivate Fld	32'		1.86	1.17	1.51				0.31	4.85	7.27
Grain Drill	30'		2.50	2.89	2.60				0.49	8.48	10.19
Wheat Seed Private	lb	30.60							1.89	32.49	32.49
CruiserMaxx Vibrance	oz	34.34							2.12	36.46	36.46
Wheat Consultant	acre	5.50							0.34	5.84	5.84
App by Air (5 gal)	appl	8.11							0.45	8.56	8.56
Axiom	oz	22.50							1.24	23.74	23.74
App by Air (3 gal)	appl	6.87							0.24	7.11	7.11
Warrior II	oz										
Harmony Extra SG	oz	8.25							0.28	8.53	8.53
Axial XL	oz	28.04							0.96	29.00	29.00
App Fert by Air	cwt	12.19							0.42	12.61	12.61
Fert 41-0-0-4	cwt	57.91							1.99	59.90	59.90
App Fert by Air	cwt	12.19							0.34	12.53	12.53
Fert 41-0-0-4	cwt	57.91							1.59	59.50	59.50
App by Air (5 gal)	appl	8.11							0.17	8.28	8.28
Miravis Ace	oz	24.39							0.50	24.89	24.89
Header Wheat/Sorghum	25' Rigid		4.79	6.00	3.30				0.10	14.19	25.59
Haul Wheat	bu	18.20							0.13	18.33	18.33
TOTALS		456.09	13.28	12.92	11.13	0.00	22.63	516.05	55.66	571.71	

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

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	431.90
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	6.87	0.00	8.11	0.00	0.00
FERTILIZERS	0.00	0.00	74.36	0.00	0.00	0.00	0.00	57.91	57.91	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	24.39	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	22.50	0.00	0.00	36.29	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	30.60	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	43.29	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	5.23	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30
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	5.99	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.79
REPAIR & MAINTENANCE	0.00	0.00	4.03	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
INTEREST ON OP. CAP.	0.00	0.00	9.38	4.84	1.69	0.00	0.00	3.89	1.93	0.67	0.00	0.23
TOTAL DIRECT EXPENSES	0.00	0.00	145.61	83.27	32.30	0.00	0.00	117.15	72.03	33.17	0.00	32.52
NET INCOME	0.00	0.00	-145.61	-83.27	-32.30	0.00	0.00	-117.15	-72.03	-33.17	0.00	399.38
NET INCOME TO DATE	0.00	0.00	-145.61	-228.88	-261.18	-261.18	-261.18	-378.33	-450.36	-483.53	-483.53	-84.15

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2024

PRODUCT	PERCENT	75	80	85	90	95	100	105	110	115	120	125	PRODUCT PRICE										
													4.62	4.93	5.24	5.55	5.86	6.17	6.47	6.78	7.09	7.40	7.71
PERCENT	YIELD	UNIT	dollars																				
Wheat			-344	-334	-323	-312	-301	-290	-280	-269	-258	-247	-236										
			-400	-389	-378	-368	-357	-346	-335	-325	-314	-303	-292										
50	35.00	bu	-314	-301	-288	-275	-262	-249	-236	-223	-210	-197	-184										
			-370	-357	-344	-331	-318	-305	-292	-279	-266	-253	-240										
60	42.00	bu	-283	-268	-253	-238	-223	-208	-193	-177	-162	-147	-132										
			-339	-324	-309	-294	-278	-263	-248	-233	-218	-203	-188										
70	49.00	bu	-253	-235	-218	-201	-184	-166	-149	-132	-115	-97	-80										
			-308	-291	-274	-257	-239	-222	-205	-187	-170	-153	-136										
80	56.00	bu	-222	-203	-183	-164	-144	-125	-106	-86	-67	-47	-28										
			-278	-258	-239	-220	-200	-181	-161	-142	-122	-103	-83										
90	63.00	bu	-192	-170	-148	-127	-105	-84	-62	-40	-19	2	23										
			-247	-226	-204	-183	-161	-139	-118	-96	-75	-53	-31										
100	70.00	bu	-161	-137	-114	-90	-66	-42	-19	4	28	52	75										
			-217	-193	-169	-145	-122	-98	-74	-50	-27	-3	20										
110	77.00	bu	-131	-105	-79	-53	-27	-1	24	50	76	102	128										
			-186	-160	-134	-108	-83	-57	-31	-5	20	46	72										
120	84.00	bu	-100	-72	-44	-16	11	39	67	96	124	152	180										
			-156	-128	-99	-71	-43	-15	12	40	68	96	124										
130	91.00	bu	-69	-39	-9	20	51	81	111	141	171	202	232										
			-125	-95	-65	-34	-4	25	55	86	116	146	176										
140	98.00	bu	-39	-6	25	57	90	122	155	187	219	252	284										
			-94	-62	-30	2	34	66	99	131	164	196	228										

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

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

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

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

Table 25.A Estimated costs per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.24	1.0000	11.24	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____
<hr/>					
TOTAL DIRECT EXPENSES				611.16	_____
FIXED EXPENSES					
Implements	acre	57.26	1.0000	57.26	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
<hr/>					
TOTAL FIXED EXPENSES				160.13	_____
<hr/>					
TOTAL SPECIFIED EXPENSES				771.29	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____
TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	24.49	1.0000	24.49	_____
INTEREST ON OP. CAP.	acre	14.75	1.0000	14.75	_____
TOTAL DIRECT EXPENSES				611.16	_____
RETURNS ABOVE DIRECT EXPENSES				598.84	_____
TOTAL FIXED EXPENSES				160.13	_____
TOTAL SPECIFIED EXPENSES				771.29	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				438.71	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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
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
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							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.14	3.47	3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Glyphosate 3lbs a.e	pt	16.12					0.66	16.78	16.78
Lime (Spread)	ton	21.65					0.89	22.54	22.54
Bed-Rip/Disk Fold.	8R-38		2.46	0.82	2.36		0.19	5.83	6.06
Peanut Plt&Pre Rigid	8R-38		4.81	3.62	4.99		0.46	13.88	14.95
Peanut Seed	lb	130.50					4.49	134.99	134.99
Optimize LIFT	oz	2.22					0.08	2.30	2.30
Admire Pro	oz	23.04					0.79	23.83	23.83
Abound	oz	22.44					0.77	23.21	23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Dual Magnum	pt	10.75					0.37	11.12	11.12
Valor SX	oz	9.18					0.32	9.50	9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42
Acephate 90%	lb	1.13					0.04	1.17	1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Convoy	oz	34.56					0.95	35.51	35.51
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Storm	pt	25.61					0.70	26.31	26.31
Cadre	oz	7.48					0.21	7.69	7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62	3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96	5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59	2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Elatus	oz	35.05					0.72	35.77	35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59	3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Select Max	pt	15.01					0.31	15.32	15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Provost Silver	oz	19.76					0.41	20.17	20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Bravo Weather Stick	pt	4.22					0.06	4.28	4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05
Dry Peanuts	ton	27.36					0.19	27.55	27.55
Cleaning Peanuts	ton	29.16					0.20	29.36	29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62
TOTALS		473.97	52.00	24.49	45.95	0.00	14.75	611.16	160.13
									771.29

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	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	0.43	7.88	1.29	1.72	0.43	34.20
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	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.70	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.56	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	227.31	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-227.31	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-271.30	-365.20	-456.57	-462.02	598.84

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2024

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
			PRODUCT PRICE										
Peanut Runner		412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50	
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-128 -289	-98 -258	-68 -228	-38 -198	-7 -168	22 -137	52 -107	82 -77	113 -47	143 -16	173 13
60	1.32	ton	-43 -204	-7 -167	28 -131	65 -95	101 -58	137 -22	173 13	210 50	246 86	282 122	319 158
70	1.54	ton	41 -118	83 -76	125 -34	168 8	210 50	252 92	295 135	337 177	379 219	422 262	464 304
80	1.76	ton	126 -33	174 14	223 62	271 111	319 159	368 208	416 256	465 304	513 353	561 401	610 450
90	1.98	ton	211 51	265 105	320 160	374 214	429 268	483 323	537 377	592 432	646 486	701 541	755 595
100	2.20	ton	296 136	356 196	417 257	477 317	538 378	598 438	659 499	719 559	780 620	840 680	901 741
110	2.42	ton	381 221	447 287	514 354	581 420	647 487	714 554	780 620	847 687	913 753	980 820	1046 886
120	2.64	ton	466 306	539 378	611 451	684 524	756 596	829 669	902 741	974 814	1047 887	1119 959	1192 1032
130	2.86	ton	551 391	630 470	708 548	787 627	866 705	944 784	1023 863	1102 941	1180 1020	1259 1099	1338 1177
140	3.08	ton	636 476	721 561	805 645	890 730	975 815	1060 899	1144 984	1229 1069	1314 1154	1398 1238	1483 1323
150	3.30	ton	721 561	812 652	903 743	993 833	1084 924	1175 1015	1266 1106	1356 1196	1447 1287	1538 1378	1629 1469

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

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

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

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

Table 26.A Estimated costs per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2529	22.48	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
implements	hour	9.06	0.1207	1.09	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR					
hour	17.94	1.0986	19.72	_____	
DIESEL FUEL					
Tractors	gal	3.44	13.5967	46.77	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
implements	acre	14.49	1.0000	14.49	_____
Tractors	acre	11.10	1.0000	11.10	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____
TOTAL DIRECT EXPENSES				616.81	_____
FIXED EXPENSES					
implements	acre	64.89	1.0000	64.89	_____
Tractors	acre	85.85	1.0000	85.85	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
TOTAL FIXED EXPENSES				167.76	_____
TOTAL SPECIFIED EXPENSES				784.57	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____
TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	4.44	1.0000	4.44	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1809	1.60	_____
OPERATOR LABOR	hour	17.94	1.3733	24.63	_____
UNALLOCATED LABOR	hour	17.94	1.0986	19.72	_____
DIESEL FUEL	gal	3.44	15.1309	52.00	_____
REPAIR & MAINTENANCE	acre	27.74	1.0000	27.74	_____
INTEREST ON OP. CAP.	acre	14.93	1.0000	14.93	_____
TOTAL DIRECT EXPENSES				616.81	_____
RETURNS ABOVE DIRECT EXPENSES				593.19	_____
TOTAL FIXED EXPENSES				167.76	_____
TOTAL SPECIFIED EXPENSES				784.57	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				425.43	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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 Ptlt&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
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
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							1.37	1.25	1.55	1.09

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.14	3.47	3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Glyphosate 3lbs a.e.	pt	16.12					0.66	16.78	16.78
Lime (Spread)	ton	21.65					0.89	22.54	22.54
Bed-Rip/Disk Rigid	8R-38		2.46	0.77	2.36		0.19	5.78	5.74
Peanut Ptlt&PreTwin	8R-30/40		4.81	6.92	4.99		0.57	17.29	22.90
Peanut Seed	lb	130.50					4.49	134.99	134.99
Optimize LIFT	oz	4.44					0.15	4.59	4.59
Admire Pro	oz	23.04					0.79	23.83	23.83
Abound	oz	22.44					0.77	23.21	23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Dual Magnum	pt	10.75					0.37	11.12	11.12
Valor SX	oz	9.18					0.32	9.50	9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42
Acephate 90%	lb	1.13					0.04	1.17	1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Convoy	oz	34.56					0.95	35.51	35.51
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Storm	pt	25.61					0.70	26.31	26.31
Cadre	oz	7.48					0.21	7.69	7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62	3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96	5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59	2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Elatus	oz	35.05					0.72	35.77	35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59	3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Select Max	pt	15.01					0.31	15.32	15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Provost Silver	oz	19.76					0.41	20.17	20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Bravo Weather Stick	pt	4.22					0.06	4.28	4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05
Dry Peanuts	ton	27.36					0.19	27.55	27.55
Cleaning Peanuts	ton	29.16					0.20	29.36	29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62
TOTALS		476.19	52.00	27.74	45.95	0.00	14.93	616.81	167.76
									784.57

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	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	0.43	7.88	1.29	1.72	0.43	34.20
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	0.51	7.91	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	7.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.74	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	232.96	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-232.96	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-276.95	-370.85	-462.22	-467.67	593.19

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 8R 38" twin
 All Areas, Mississippi, 2024

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
			PRODUCT PRICE										
Peanut Runner		412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50	
PERCENT	YIELD	UNIT	dollars										
50	1.10	ton	-134	-104	-74	-43	-13	16	46	77	107	137	167
			-302	-272	-241	-211	-181	-151	-120	-90	-60	-30	0
60	1.32	ton	-49	-13	23	59	95	131	168	204	240	277	313
			-217	-181	-144	-108	-72	-35	0	36	73	109	145
70	1.54	ton	35	77	120	162	204	247	289	331	374	416	459
			-132	-89	-47	-5	37	79	121	164	206	248	291
80	1.76	ton	120	168	217	265	314	362	410	459	507	556	604
			-47	1	49	98	146	194	243	291	340	388	436
90	1.98	ton	205	260	314	368	423	477	532	586	641	695	750
			37	92	146	201	255	310	364	419	473	527	582
100	2.20	ton	290	351	411	472	532	593	653	714	774	835	895
			122	183	243	304	364	425	485	546	606	667	727
110	2.42	ton	375	442	508	575	641	708	775	841	908	974	1041
			207	274	341	407	474	540	607	673	740	806	873
120	2.64	ton	460	533	606	678	751	823	896	969	1041	1114	1186
			293	365	438	510	583	656	728	801	873	946	1019
130	2.86	ton	545	624	703	781	860	939	1017	1096	1175	1253	1332
			378	456	535	614	692	771	850	928	1007	1085	1164
140	3.08	ton	630	715	800	885	969	1054	1139	1223	1308	1393	1477
			463	547	632	717	801	886	971	1056	1140	1225	1310
150	3.30	ton	715	806	897	988	1078	1169	1260	1351	1441	1532	1623
			548	638	729	820	911	1001	1092	1183	1274	1364	1455

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

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

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

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

Table 27.A Estimated costs per acre
 Peanut - runner, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.1856	21.27	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
HAND LABOR					
Implements	hour	9.06	0.0804	0.73	_____
Self-Propelled	hour	9.06	0.0602	0.51	_____
UNALLOCATED LABOR					
	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	12.9499	44.54	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
REPAIR & MAINTENANCE					
Implements	acre	11.99	1.0000	11.99	_____
Tractors	acre	10.60	1.0000	10.60	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____
<hr/>					
TOTAL DIRECT EXPENSES				606.49	_____
FIXED EXPENSES					
Implements	acre	58.94	1.0000	58.94	_____
Tractors	acre	81.95	1.0000	81.95	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
<hr/>					
TOTAL FIXED EXPENSES				157.91	_____
<hr/>					
TOTAL SPECIFIED EXPENSES				764.40	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	550.00	2.2000	1210.00	_____
TOTAL INCOME				1210.00	_____
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	_____
HERBICIDES	acre	91.19	1.0000	91.19	_____
INSECTICIDES	acre	24.17	1.0000	24.17	_____
SEED/PLANTS	acre	130.50	1.0000	130.50	_____
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	21.65	1.0000	21.65	_____
INOCULANT	acre	2.22	1.0000	2.22	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.1406	1.24	_____
OPERATOR LABOR	hour	17.94	1.3061	23.42	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL	gal	3.44	14.4842	49.77	_____
REPAIR & MAINTENANCE	acre	24.74	1.0000	24.74	_____
INTEREST ON OP. CAP.	acre	14.60	1.0000	14.60	_____
TOTAL DIRECT EXPENSES				606.49	_____
RETURNS ABOVE DIRECT EXPENSES				603.51	_____
TOTAL FIXED EXPENSES				157.91	_____
TOTAL SPECIFIED EXPENSES				764.40	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				445.60	_____

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	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
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						1.30	1.18	1.44	1.04	

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 12 row-38inch
All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Soil Test	acre	3.33					0.14	3.47	3.47
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.05	1.20	1.66
Glyphosate 3lbs a.e.	pt	16.12					0.66	16.78	16.78
Lime (Spread)	ton	21.65					0.89	22.54	22.54
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49		0.14	4.15	4.99
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32		0.36	10.89	13.80
Peanut Seed	lb	130.50					4.49	134.99	134.99
Optimize LIFT	oz	2.22					0.08	2.30	2.30
Admire Pro	oz	23.04					0.79	23.83	23.83
Abound	oz	22.44					0.77	23.21	23.21
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.04	1.19	1.66
Dual Magnum	pt	10.75					0.37	11.12	11.12
Valor SX	oz	9.18					0.32	9.50	9.50
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10		0.01	0.29	0.42
Acephate 90%	lb	1.13					0.04	1.17	1.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Convoy	oz	34.56					0.95	35.51	35.51
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Storm	pt	25.61					0.70	26.31	26.31
Cadre	oz	7.48					0.21	7.69	7.69
Butyrac 200 (2,4-DB)	pt	3.52					0.10	3.62	3.62
Crop Oil Conc.(Veg.)	pt	5.80					0.16	5.96	5.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.03	1.18	1.66
Bravo Weather Stick	pt	4.22					0.12	4.34	4.34
Tebuconazole 3.6	oz	2.52					0.07	2.59	2.59
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Elatus	oz	35.05					0.72	35.77	35.77
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Butyrac 200 (2,4-DB)	pt	3.52					0.07	3.59	3.59
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Select Max	pt	15.01					0.31	15.32	15.32
Crop Oil Conc.(Veg.)	pt	5.80					0.12	5.92	5.92
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Provost Silver	oz	19.76					0.41	20.17	20.17
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43		0.02	1.17	1.66
Bravo Weather Stick	pt	4.22					0.06	4.28	4.28
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01		0.07	10.60	10.43
Peanut Harvester	6R-38		24.90	11.90	20.18		0.39	57.37	86.05
Dry Peanuts	ton	27.36					0.19	27.55	27.55
Cleaning Peanuts	ton	29.16					0.20	29.36	29.36
Peanut Dump Cart	6-Row		10.43	3.65	10.01		0.17	24.26	25.62
TOTALS		473.97	49.77	24.74	43.41	0.00	14.60	606.49	157.91
									764.40

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

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	1210.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	0.00	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.50	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	21.65	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	0.43	5.34	1.29	1.72	0.43	34.20
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	0.51	5.68	1.53	2.04	0.51	39.50
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.21	4.95	0.63	0.84	0.21	17.90
INTEREST ON OP. CAP.	0.00	0.00	0.00	0.00	0.00	0.00	1.74	7.41	2.52	1.83	0.08	1.02
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	0.00	0.00	0.00	43.99	222.64	93.90	91.37	5.45	149.14
NET INCOME	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-222.64	-93.90	-91.37	-5.45	1060.86
NET INCOME TO DATE	0.00	0.00	0.00	0.00	0.00	0.00	-43.99	-266.63	-360.53	-451.90	-457.35	603.51

Note: Cost of production estimates are based on 2023 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, 2.2 ton (4400 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2024

PRODUCT	YIELD	UNIT	PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
Peanut Runner			412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50
PERCENT													
			PRODUCT PRICE										
			dollars										
50	1.10	ton	-124	-94	-63	-33	-3	26	57	87	117	147	178
			-282	-251	-221	-191	-161	-130	-100	-70	-40	-9	20
60	1.32	ton	-39	-2	33	69	105	142	178	214	251	287	323
			-197	-160	-124	-88	-51	-15	20	56	93	129	165
70	1.54	ton	45	88	130	172	215	257	299	342	384	426	469
			-112	-69	-27	14	57	99	142	184	226	269	311
80	1.76	ton	130	179	227	276	324	372	421	469	518	566	614
			-27	21	69	118	166	214	263	311	360	408	456
90	1.98	ton	215	270	324	379	433	488	542	597	651	706	760
			58	112	166	221	275	330	384	439	493	548	602
100	2.20	ton	301	361	422	482	543	603	664	724	785	845	906
			143	203	264	324	385	445	506	566	627	687	748
110	2.42	ton	386	452	519	585	652	718	785	851	918	985	1051
			228	294	361	427	494	560	627	694	760	827	893
120	2.64	ton	471	543	616	688	761	834	906	979	1051	1124	1197
			313	385	458	531	603	676	748	821	894	966	1039
130	2.86	ton	556	634	713	792	870	949	1028	1106	1185	1264	1342
			398	476	555	634	712	791	870	948	1027	1106	1184
140	3.08	ton	641	725	810	895	980	1064	1149	1234	1318	1403	1488
			483	568	652	737	822	906	991	1076	1160	1245	1330
150	3.30	ton	726	817	907	998	1089	1180	1270	1361	1452	1543	1633
			568	659	749	840	931	1022	1112	1203	1294	1385	1475

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

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

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

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

Table 28.A Estimated costs per acre
 Peanut-runner, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FUNGICIDES					
Abound	oz	1.87	12.0000	22.44	_____
Convoy	oz	1.44	24.0000	34.56	_____
Bravo Weather Stick	pt	5.62	2.2500	12.65	_____
Tebuconazole 3.6	oz	0.35	7.2000	2.52	_____
Elatus	oz	3.81	9.2000	35.05	_____
Provost Silver	oz	1.52	13.0000	19.76	_____
HERBICIDES					
Glyphosate 3lbs a.e.	pt	4.03	4.0000	16.12	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Valor SX	oz	3.06	3.0000	9.18	_____
Storm	pt	17.07	1.5000	25.61	_____
Cadre	oz	1.87	4.0000	7.48	_____
Butyrac 200 (2,4-DB)	pt	3.52	2.0000	7.04	_____
Select Max	pt	15.01	1.0000	15.01	_____
INSECTICIDES					
Admire Pro	oz	2.56	9.0000	23.04	_____
Acephate 90%	lb	8.25	0.1375	1.13	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Peanut Seed	lb	0.87	150.0000	130.50	_____
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	65.00	0.3330	21.65	_____
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	17.94	1.2642	22.68	_____
Self-Propelled	hour	17.94	0.1204	2.15	_____
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	0.0602	0.51	_____
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	_____
DIESEL FUEL					
Tractors	gal	3.44	13.6762	47.04	_____
Self-Propelled	gal	3.44	1.5342	5.23	_____
Irrigate Peanuts	gal	3.44	9.7755	33.64	_____
REPAIR & MAINTENANCE					
Implements	acre	12.24	1.0000	12.24	_____
Tractors	acre	11.15	1.0000	11.15	_____
Self-Propelled	acre	2.15	1.0000	2.15	_____
Irrigate Peanuts	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	-----
TOTAL DIRECT EXPENSES				673.83	_____
FIXED EXPENSES					
Implements	acre	60.96	1.0000	60.96	_____
Tractors	acre	86.18	1.0000	86.18	_____
Self-Propelled	acre	17.02	1.0000	17.02	_____
Irrigate Peanuts	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				238.63	_____
TOTAL SPECIFIED EXPENSES				912.46	_____

Note: Cost of production estimates are based on 2023 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, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
dollars				dollars	
INCOME					
Peanut Runner	ton	550.00	2.5000	1375.00	-----
TOTAL INCOME				1375.00	-----
DIRECT EXPENSES					
FUNGICIDES	acre	126.99	1.0000	126.99	-----
HERBICIDES	acre	91.19	1.0000	91.19	-----
INSECTICIDES	acre	24.17	1.0000	24.17	-----
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	-----
SEED/PLANTS	acre	130.50	1.0000	130.50	-----
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	21.65	1.0000	21.65	-----
INOCULANT	acre	2.22	1.0000	2.22	-----
SOIL TEST	acre	3.33	1.0000	3.33	-----
HAND LABOR	hour	9.06	0.1406	1.24	-----
IRRIGATE LABOR	hour	9.06	0.3875	3.53	-----
OPERATOR LABOR	hour	17.94	1.3846	24.83	-----
UNALLOCATED LABOR	hour	17.94	1.0449	18.75	-----
DIESEL FUEL	gal	3.44	24.9860	85.91	-----
REPAIR & MAINTENANCE	acre	32.70	1.0000	32.70	-----
INTEREST ON OP. CAP.	acre	16.16	1.0000	16.16	-----
TOTAL DIRECT EXPENSES				673.83	-----
RETURNS ABOVE DIRECT EXPENSES				701.17	-----
TOTAL FIXED EXPENSES				238.63	-----
TOTAL SPECIFIED EXPENSES				912.46	-----
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				462.54	-----

Note: Cost of production estimates are based on 2023 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, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT	PERF SIZE	TIMES RATE	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
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					1.0000	0.07	0.07	0.46	

TOTALS							1.38	1.26	1.91	1.04

Note: Cost of production estimates are based on 2023 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, 2.5 ton (5,000 lb) yield, 12 row-38inch
Furrow irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER			
-----dollars-----										
Soil Test	acre	3.33				0.14	3.47		3.47	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.05	1.20	1.66	2.86	
Glyphosate 3lbs a.e.	pt	16.12				0.66	16.78		16.78	
Lime (Spread)	ton	21.65				0.89	22.54		22.54	
Bed-Rip/Disk Fold.	12R-38		1.84	0.68	1.49	0.14	4.15	4.99	9.14	
Peanut Plt&Pre Fold.	12R-38		3.20	4.01	3.32	0.36	10.89	13.80	24.69	
Peanut Seed	lb	130.50				4.49	134.99		134.99	
Optimize LIFT	oz	2.22				0.08	2.30		2.30	
Admire Pro	oz	23.04				0.79	23.83		23.83	
Abound	oz	22.44				0.77	23.21		23.21	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.04	1.19	1.66	2.85	
Dual Magnum	pt	10.75				0.37	11.12		11.12	
Valor SX	oz	9.18				0.32	9.50		9.50	
Sprayer 600-825gal	90' 250hp		0.13	0.05	0.10	0.01	0.29	0.42	0.71	
Acephate 90%	lb	1.13				0.04	1.17		1.17	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.03	1.18	1.66	2.84	
Convoy	oz	34.56				0.95	35.51		35.51	
Bravo Weather Stick	pt	4.22				0.12	4.34		4.34	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.03	1.18	1.66	2.84	
Storm	pt	25.61				0.70	26.31		26.31	
Cadre	oz	7.48				0.21	7.69		7.69	
Butyrac 200 (2,4-DB)	pt	3.52				0.10	3.62		3.62	
Crop Oil Conc.(Veg.)	pt	5.80				0.16	5.96		5.96	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.03	1.18	1.66	2.84	
Bravo Weather Stick	pt	4.22				0.12	4.34		4.34	
Tebuconazole 3.6	oz	2.52				0.07	2.59		2.59	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Elatus	oz	35.05				0.72	35.77		35.77	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Butyrac 200 (2,4-DB)	pt	3.52				0.07	3.59		3.59	
Crop Oil Conc.(Veg.)	pt	5.80				0.12	5.92		5.92	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Select Max	pt	15.01				0.31	15.32		15.32	
Crop Oil Conc.(Veg.)	pt	5.80				0.12	5.92		5.92	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Provost Silver	oz	19.76				0.41	20.17		20.17	
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.43	0.02	1.17	1.66	2.83	
Bravo Weather Stick	pt	4.22				0.06	4.28		4.28	
Peanut Dig/Invertor	6R-38		4.17	2.35	4.01	0.07	10.60	10.43	21.03	
Peanut Harvester	6R-38		24.90	11.90	20.18	0.39	57.37	86.05	143.42	
Dry Peanuts	ton	31.68				0.22	31.90		31.90	
Cleaning Peanuts	ton	33.66				0.23	33.89		33.89	
Peanut Dump Cart	6-Row		10.43	3.65	10.01	0.17	24.26	25.62	49.88	
Irrigate Peanuts	acre	7.92	36.14	7.96	4.94	1.50	58.46	80.72	139.18	
TOTALS		490.71	85.91	32.70	48.35	0.00	16.16	673.83	238.63	912.46

Note: Cost of production estimates are based on 2023 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, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

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	1375.00
DIRECT EXPENSES												
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.44	45.52	54.81	4.22	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	16.12	19.93	36.61	18.53	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.17	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	130.50	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	21.65	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	0.68	0.00	0.00	0.00	0.00	0.00	0.66	7.77	1.52	2.18	1.34	34.20
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	1.28	0.00	0.00	0.00	0.00	0.00	0.51	6.34	9.94	18.86	9.48	39.50
REPAIR & MAINTENANCE	0.39	0.00	0.00	0.00	0.00	0.00	0.21	8.13	1.68	2.94	1.45	17.90
INTEREST ON OP. CAP.	0.19	0.00	0.00	0.00	0.00	0.00	1.75	7.89	2.79	2.23	0.23	1.08
TOTAL DIRECT EXPENSES	2.54	0.00	0.00	0.00	0.00	0.00	44.23	237.31	103.86	111.15	16.72	158.02
NET INCOME	-2.54	0.00	0.00	0.00	0.00	0.00	-44.23	-237.31	-103.86	-111.15	-16.72	1216.98
NET INCOME TO DATE	-2.54	-2.54	-2.54	-2.54	-2.54	-2.54	-46.77	-284.08	-387.94	-499.09	-515.81	701.17

Note: Cost of production estimates are based on 2023 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, 2.5 ton (5,000 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2024

PRODUCT	PERCENT	PERCENT											
		75	80	85	90	95	100	105	110	115	120	125	
			PRODUCT PRICE										
Peanut Runner		412.50	440.00	467.50	495.00	522.50	550.00	577.50	605.00	632.50	660.00	687.50	
PERCENT	YIELD	UNIT	dollars										
50	1.25	ton	-125	-90	-56	-22	12	46	80	115	149	184	218
			-363	-329	-295	-260	-226	-192	-157	-123	-88	-54	-20
60	1.50	ton	-28	12	53	94	136	177	218	259	301	342	383
			-267	-226	-184	-143	-102	-61	-19	21	62	103	145
70	1.75	ton	67	115	164	212	260	308	356	404	452	500	549
			-170	-122	-74	-26	21	69	117	166	214	262	310
80	2.00	ton	164	219	274	329	384	439	494	549	604	659	714
			-74	-19	35	90	145	200	255	310	365	420	475
90	2.25	ton	260	322	384	446	508	570	632	693	755	817	879
			22	84	145	207	269	331	393	455	517	579	640
100	2.50	ton	357	426	494	563	632	701	769	838	907	976	1044
			118	187	256	325	393	462	531	600	668	737	806
110	2.75	ton	453	529	605	680	756	832	907	983	1058	1134	1210
			215	290	366	442	517	593	669	744	820	895	971
120	3.00	ton	550	633	715	798	880	963	1045	1128	1210	1293	1375
			311	394	476	559	641	724	806	889	971	1054	1136
130	3.25	ton	647	736	825	915	1004	1093	1183	1272	1362	1451	1540
			408	497	587	676	765	855	944	1034	1123	1212	1302
140	3.50	ton	743	839	936	1032	1128	1224	1321	1417	1513	1609	1706
			504	601	697	793	889	986	1082	1178	1274	1371	1467
150	3.75	ton	840	943	1046	1149	1252	1355	1458	1562	1665	1768	1871
			601	704	807	910	1014	1117	1220	1323	1426	1529	1632

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

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

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

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

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2024

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

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2024

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

Notes:

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

Direct: Does not include interest on operating capital.

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Imp.	--Fixed---		Total Cost
									Imp.	P.U.	Direct	Imp.	P.U.	
			dollars	hours	years	hr/ac			-----\$/acre-----					
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.66	8.14	2.05	1.97	15.83	4.57	15.25	35.66
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.92	4.28	1.47	1.03	8.72	3.29	8.03	20.05
Bed-Rip/Disk Fold.	8R-38	MFWD 190	71,000	300	20	0.073	1.31	2.45	0.25	0.56	4.59	1.72	4.34	10.65
Bed-Rip/Disk Fold.	12R-30	MFWD 225	100,200	300	20	0.061	1.10	2.45	0.30	0.59	4.46	2.04	4.60	11.11
Bed-Rip/Disk Fold.	12R-38	MFWD 225	100,200	300	20	0.046	0.82	1.84	0.23	0.44	3.34	1.53	3.45	8.33
Bed-Rip/Disk Rigid	4R-30	MFWD 190	31,500	300	20	0.184	3.31	6.21	0.29	1.42	11.24	1.93	10.99	24.17
Bed-Rip/Disk Rigid	4R-38	MFWD 190	31,500	300	20	0.146	2.63	4.93	0.23	1.12	8.92	1.53	8.72	19.18
Bed-Rip/Disk Rigid	6R-30	MFWD 190	43,600	300	20	0.123	2.21	4.14	0.26	0.94	7.57	1.78	7.32	16.68
Bed-Rip/Disk Rigid	6R-38	MFWD 190	43,600	300	20	0.097	1.74	3.27	0.21	0.74	5.97	1.40	5.78	13.17
Bed-Rip/Disk Rigid	8R-30	MFWD 190	57,800	300	20	0.139	2.49	4.67	0.40	1.06	8.64	2.66	8.26	19.56
Bed-Rip/Disk Rigid	8R-38	MFWD 190	57,800	300	20	0.073	1.31	2.45	0.21	0.56	4.54	1.40	4.34	10.28
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	43,600	150	12	0.107	1.92	4.28	1.69	1.03	8.94	3.77	8.03	20.75
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.44	3.21	1.43	0.77	6.88	3.20	6.03	16.12
Bed-Subsoil Fold	8R-38	MFWD 225	71,000	150	12	0.080	1.44	3.21	2.07	0.77	7.51	4.61	6.03	18.16
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Fold	12R-38	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.66	8.14	1.92	1.97	15.70	4.29	15.25	35.26
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.44	5.42	1.78	1.31	10.97	3.98	10.17	25.12
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.92	4.28	1.46	1.03	8.71	3.26	8.03	20.01
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.83	4.07	1.78	0.98	8.67	3.99	7.63	20.30
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.44	3.21	1.46	0.77	6.90	3.25	6.03	16.19
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.64	3.92	0.57	0.78	7.93	1.91	5.90	15.76
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.77	2.97	0.58	0.61	5.95	1.94	4.79	12.69
Bed/Disk (Hipper)	8R-30	MFWD 190	33,100	160	10	0.093	1.68	3.15	0.77	0.72	6.33	2.56	5.57	14.47
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	114,000	160	10	0.049	0.88	1.65	1.40	0.37	4.33	4.64	2.93	11.91
Bed/Disk (Hipper)	12R-30	MFWD 225	87,500	160	10	0.062	1.12	2.48	1.36	0.60	5.58	4.51	4.66	14.76
Bed/Disk (Hipper)	12R-38	MFWD 225	114,000	160	10	0.049	0.88	1.96	1.40	0.47	4.73	4.64	3.68	13.06
Bed/Disk (Hipper)	16R40	MFWD 300	135,000	160	10	0.035	0.63	1.87	1.19	0.39	4.10	3.94	3.05	11.10
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	45,800	160	10	0.074	1.32	2.49	0.84	0.56	5.24	2.80	4.40	12.45
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	36,100	160	10	0.074	1.32	2.49	0.66	0.56	5.06	2.21	4.40	11.67
Bed/Disk w/roller	8R-30	MFWD 190	59,900	160	10	0.093	1.68	3.15	1.40	0.72	6.96	4.63	5.57	17.17
Bed/Disk w/roller	8R-38	MFWD 190	68,500	160	10	0.074	1.32	2.49	1.26	0.56	5.66	4.19	4.40	14.26
Bed/Disk w/roller	12R-30/40	MFWD 225	113,000	160	10	0.062	1.12	2.48	1.76	0.60	5.98	5.83	4.66	16.48
Bed/Lister	4R-38	MFWD 150	31,900	160	8	0.228	4.09	6.06	1.70	1.22	13.09	6.60	9.13	28.83
Bed/Lister	6R-38	MFWD 150	36,000	160	8	0.120	2.15	3.19	1.01	0.64	7.00	3.92	4.80	15.73
Bed/Lister	8R-30	MFWD 190	48,300	160	8	0.114	2.04	3.84	1.29	0.87	8.06	4.99	6.78	19.84
Bed/Lister	8R-38	MFWD 190	48,700	160	8	0.090	1.61	3.03	1.03	0.69	6.38	3.98	5.36	15.73
Bed/Lister	8R-38 2x1	MFWD 190	81,500	160	8	0.060	1.07	2.02	1.14	0.46	4.71	4.43	3.57	12.72
Bed/Lister	12R-38	MFWD 225	81,500	160	8	0.060	1.07	2.39	1.14	0.58	5.20	4.43	4.48	14.12
Bed/Lister	16R-30	MFWD 225	94,300	160	8	0.035	0.63	1.39	0.77	0.33	3.14	3.00	2.62	8.77
Bed/Lister	16R40	MFWD 300	99,200	160	8	0.043	0.77	2.28	1.00	0.48	4.54	3.87	3.71	12.13
Bed/Lister-Roll-Fo	8R-38	MFWD 190	30,100	160	10	0.095	1.72	3.22	0.72	0.73	6.40	2.38	5.70	14.49
Bed/Lister-Roll-Fo	12R-30	MFWD 225	65,100	160	10	0.080	1.45	3.22	1.31	0.78	6.77	4.34	6.04	17.16
Bed/Lister-Roll-Fo	12R-38	MFWD 225	48,400	160	10	0.063	1.14	2.54	0.77	0.61	5.07	2.55	4.76	12.39
Bed/Lister-Roll-Fo	16R-30	MFWD 225	56,800	160	10	0.060	1.08	2.41	0.86	0.58	4.95	2.84	4.53	12.32
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.72	3.22	0.59	0.73	6.28	1.98	5.70	13.96
Blade-Box	6'-7'	MFWD 105	2,080	200	20	0.020	0.35	0.37	0.01	0.05	0.80	0.02	0.42	1.25
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R-38 (350)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R2x1 (350)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Boll Buggy	6R-30 (355)	MFWD 190	30,500	200	10	0.218	3.91	7.34	1.66	1.67	14.59	4.28	12.97	31.86
Boll Buggy	6R-38 (355)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Chisel Plow-Folding	24'	MFWD 190	57,300	150	12	0.076	1.37	2.57	1.58	0.58	6.11	3.52	4.54	14.18
Chisel Plow-Folding	32'	MFWD 225	72,800	150	12	0.057	1.03	2.30	1.51	0.55	5.41	3.38	4.31	13.11
Chisel Plow-Folding	42'	MFWD 225	86,400	150	12	0.044	0.78	1.75	1.37	0.42	4.34	3.06	3.28	10.69
Chisel Plow-Folding	50'	MFWD 225	108,100	150	12	0.036	0.66	1.47	1.44	0.35	3.93	3.21	2.76	9.91
Chisel Plow-Folding	61'	MFWD 225	135,400	150	12	0.030	0.54	1.20	1.48	0.29	3.52	3.30	2.26	9.09
Chisel Plow-Rigid	10'	MFWD 170	15,300	150	12	0.184	3.31	5.56	1.02	1.16	11.06	2.27	8.98	22.32
Chisel Plow-Rigid	15'	2WD 130	20,300	150	12	0.123	2.21	2.83	0.90	0.52	6.47	2.01	3.90	12.39
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.84	4.09	0.49	0.99	7.42	1.10	7.67	16.20
Cultivate	4R-30	2WD 105	21,500	150	10	0.206	3.70	3.83	1.18	0.60	9.32	3.90	4.55	17.78
Cultivate	4R-38	2WD 105	21,500	150	10	0.162	2.91	3.01	0.93	0.42	7.29	3.07	3.19	13.55
Cultivate	6R-30	MFWD 150	28,100	150	10	0.137	2.46	3.65	1.03	0.73	7.88	3.40	5.50	16.79
Cultivate	6R-38	MFWD 150	28,000	150	10	0.108	1.94	2.88	0.81	0.58	6.22	2.67	4.34	13.24
Cultivate	8R-30	MFWD 190	38,400	150	10	0.103	1.85	3.46	1.05	0.79	7.16	3.48	6.13	16.79
Cultivate	8R-38	MFWD 190	38,300	150	10	0.073	1.32	2.47	0.75	0.56	5.11	2.48	4.37	11.98
Cultivate	8R-38 2x1	MFWD 190	59,100	150	10	0.054	0.97	1.82	0.85	0.41	4.07	2.82	3.22	10.12
Cultivate	12R-30	MFWD 225	62,000	150	10	0.068	1.23	2.73	1.13	0.66	5.77	3.75	5.13	14.66
Cultivate	12R-38	MFWD 225	59,100	150	10	0.054	0.97	2.16	0.85	0.52	4.51	2.82	4.05	11.39
Cultivate	16R-30	MFWD 225	83,400	150	10	0.051	0.92	2.05	1.14	0.49	4.62	3.78	3.85	12.2

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed--	Total Cost
									Imp.	P.U.	Direct			
				dollars	hours	years	hr/ac		\$/acre					
Cultivate & Post	12R-30	MFWD 225	67,800	150	10	0.073	1.64	2.92	1.32	0.70	6.60	4.38	5.47	16.46
Cultivate & Post	12R-38	MFWD 225	64,900	150	10	0.057	1.30	2.30	1.00	0.55	5.16	3.31	4.32	12.80
Cultivate & Post	16R-30	MFWD 225	89,200	150	10	0.055	1.23	2.19	1.30	0.53	5.26	4.32	4.10	13.69
Disk & Incorporate	14'	2WD 130	45,300	200	10	0.149	3.36	3.44	2.03	0.63	9.47	4.48	4.74	18.69
Disk & Incorporate	20'	MFWD 190	96,900	200	10	0.092	2.07	3.10	2.68	0.71	8.58	5.92	5.49	20.00
Disk & Incorporate	24'	MFWD 190	77,700	200	10	0.087	1.96	2.93	2.03	0.67	7.60	4.48	5.19	17.27
Disk & Incorporate	28'	MFWD 225	80,500	200	10	0.074	1.68	2.98	1.80	0.72	7.19	3.98	5.58	16.76
Disk & Incorporate	32'	MFWD 225	95,100	200	10	0.065	1.47	2.60	1.86	0.63	6.58	4.11	4.89	15.58
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.51	3.22	1.53	0.59	7.87	4.05	4.44	16.38
Disk Harrow	20'	MFWD 190	91,100	180	10	0.098	1.76	3.30	2.48	0.75	8.30	6.57	5.83	20.71
Disk Harrow	24'	MFWD 190	71,900	180	10	0.081	1.46	2.75	1.63	0.62	6.48	4.32	4.86	15.67
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.25	2.79	1.45	0.67	6.18	3.84	5.23	15.27
Disk Harrow	32'	MFWD 225	89,300	180	10	0.061	1.10	2.44	1.52	0.59	5.66	4.02	4.58	14.27
Disk Harrow	42'	MFWD 225	145,000	180	10	0.046	0.83	1.86	1.88	0.45	5.03	4.98	3.49	13.51
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.51	1.86	0.90	0.26	5.54	2.38	1.96	9.88
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.61	3.87	1.59	0.77	8.87	4.22	5.83	18.93
Disk Heavy	20'	MFWD 190	91,100	180	10	0.097	1.74	3.27	2.46	0.74	8.22	6.50	5.78	20.52
Disk Ripper	15'	MFWD 225	74,700	180	10	0.075	1.35	3.01	1.57	0.73	6.67	4.15	5.65	16.47
Ditcher		2WD 130	8,760	200	10	0.020	0.35	0.46	0.07	0.08	0.97	0.11	0.63	1.72
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.16	0.21	0.03	0.03	0.45	0.05	0.29	0.80
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.47	4.10	2.61	0.82	11.02	3.67	6.18	20.89
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.94	3.94	2.20	0.82	9.91	3.10	6.36	19.37
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.32	3.11	1.74	0.64	7.82	2.44	5.02	15.29
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.20	3.30	1.72	0.75	7.98	2.41	5.83	16.24
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.74	2.61	1.52	0.59	6.48	2.14	4.61	13.24
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.16	1.73	1.13	0.39	4.43	1.59	3.07	9.09
Fert Appl (Liquid)	12R-30	MFWD 225	28,800	150	8	0.078	1.76	3.13	1.50	0.75	7.16	2.11	5.86	15.14
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.16	2.05	1.07	0.49	4.79	1.50	3.86	10.15
Field Cult & Inc	42'	MFWD 225	91,300	100	10	0.037	0.84	1.50	0.86	0.36	3.58	4.55	2.82	10.95
Field Cult & Inc	50'	MFWD 225	92,600	100	10	0.031	0.71	1.26	0.73	0.30	3.01	3.88	2.36	9.27
Field Cult & Inc Fld	24'	MFWD 170	44,400	100	10	0.066	1.48	1.98	0.73	0.41	4.62	3.88	3.21	11.71
Field Cult & Inc Fld	32'	MFWD 190	67,200	100	10	0.049	1.11	1.66	0.83	0.38	3.99	4.40	2.94	11.34
Field Cult & Inc Rdg	12'	2WD 150	23,000	100	10	0.132	2.97	3.51	0.76	0.56	7.81	4.01	4.25	16.08
Field Cultivate Fld	24'	MFWD 170	38,600	100	10	0.062	1.11	1.87	0.60	0.39	3.98	3.17	3.02	10.17
Field Cultivate Fld	32'	MFWD 190	61,400	100	10	0.046	0.83	1.56	0.71	0.35	3.48	3.78	2.77	10.04
Field Cultivate Fld	42'	MFWD 225	80,900	100	10	0.035	0.63	1.41	0.71	0.34	3.11	3.80	2.65	9.57
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.53	1.18	0.61	0.28	2.63	3.27	2.23	8.13
Field Cultivate Rdg	12'	2WD 150	17,200	100	10	0.124	2.23	3.30	0.53	0.53	6.60	2.82	4.00	13.43
Grain Cart Corn	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.74	0.53	1.50	3.78
Grain Cart Corn	700 bu	MFWD 190	54,400	200	12	0.025	0.45	0.85	0.37	0.19	1.87	0.83	1.50	4.20
Grain Cart Corn	1000 bu	MFWD 225	74,000	200	12	0.025	0.45	1.00	0.50	0.24	2.21	1.13	1.88	5.23
Grain Cart Rice	500 bu	MFWD 190	35,100	200	12	0.062	1.12	2.10	0.59	0.48	4.29	1.32	3.71	9.33
Grain Cart Rice	700 bu	MFWD 190	54,400	200	12	0.055	0.98	1.85	0.81	0.42	4.07	1.80	3.27	9.14
Grain Cart Rice	1000 bu	MFWD 190	74,000	200	12	0.045	0.82	1.54	0.91	0.35	3.63	2.04	2.72	8.40
Grain Cart Soybean	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Soybean	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Soybean	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Cart Wht/Sor	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Wht/Sor	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Wht/Sor	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Drill	10'	2WD 130	42,700	150	8	0.188	5.09	4.34	3.01	0.79	13.24	7.28	5.97	26.51
Grain Drill	12'	2WD 130	51,400	150	8	0.157	4.24	3.61	3.02	0.66	11.55	7.31	4.97	23.84
Grain Drill	15'	MFWD 150	46,800	150	8	0.125	3.39	3.33	2.20	0.67	9.61	5.32	5.03	19.96
Grain Drill	20'	MFWD 170	53,500	150	8	0.094	2.54	2.83	1.89	0.59	7.86	4.56	4.58	17.01
Grain Drill	24'	MFWD 190	80,300	150	8	0.078	2.12	2.64	2.36	0.60	7.73	5.71	4.67	18.11
Grain Drill	30'	MFWD 225	96,600	150	8	0.062	1.69	2.50	2.27	0.60	7.08	5.49	4.69	17.27
Grain Drill	35'	MFWD 225	114,000	150	8	0.053	1.45	2.14	2.30	0.52	6.42	5.56	4.02	16.00
Grain Drill & Pre	10'	2WD 130	48,500	150	8	0.203	5.48	4.67	3.69	0.85	14.71	8.91	6.43	30.06
Grain Drill & Pre	12'	2WD 130	57,200	150	8	0.169	4.56	3.89	3.62	0.71	12.81	8.76	5.36	26.93
Grain Drill & Pre	15'	MFWD 150	52,600	150	8	0.135	3.65	3.59	2.67	0.72	10.64	6.44	5.41	22.50
Grain Drill & Pre	20'	MFWD 170	59,300	150	8	0.101	2.74	3.05	2.25	0.63	8.69	5.45	4.93	19.07
Grain Drill & Pre	24'	MFWD 190	86,100	150	8	0.084	2.28	2.84	2.73	0.65	8.51	6.59	5.03	20.14
Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.067	1.82	2.69	2.58	0.65	7.76	6.24	5.05	19.07
Grain Drill & Pre	35'	MFWD 225	120,000	150	8	0.058	1.56	2.31	2.61	0.56	7.04	6.30	4.33	17.68
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.69	2.50	1.34	0.60	6.15	3.24	4.69	14.09
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.16	2.17	0.31	0.49	4.14	0.59	3.84	8.58
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.92	1.74	0.27	0.39	3.34	0.52	3.07	6.94
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.69	1.30	0.28	0.29	2.59	0.54	2.30	5.44
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.58	1.28	0.29	0.31	2.47	0.55	2.41	5.44
Header - Corn	6R-30	265 hp	72,300	300	8	0.170	3.05	7.98	3.07	8.21	22.33	5.76	39.32	67.41
Header - Corn	6R-38	265 hp	73,500	300	8	0.134	2.41	6.30	2.47	6.48	17.67	4.62	31.04	53.34
Header - Corn	8R-30	265 hp	99,100	300	8	0.127	2.29	5.99	3.16	6.15	17.60	5.92	29.49	53.02
Header - Corn	8R-38	325 hp	87,300	300	8	0.100	1.81	5.81	2.20	5.57	15.39	4.12	26.68	46.21
Header - Corn	12R-20	325 hp	148,000	300	8	0.127	2.29	7.34	4.72	7.05	21.41	8.84	33.76</td	

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---			Total Imp.	--Fixed-- Imp.	Total P.U. Cost
									Imp.	P.U.	Direct			
			dollars	hours	years	hr/ac			-----\$/acre-----					
Header - Draper (CL)	36' Rigid	355 hp	89,900	300	8	0.141	2.53	8.86	2.90	8.06	22.36	5.73	38.61	66.72
Header - Draper (CL)	40' Rigid	425 hp	95,200	300	8	0.126	2.27	9.55	2.76	7.40	22.00	5.46	35.45	62.91
Header - Draper (SL)	25' Rigid	325 hp	83,200	300	8	0.176	3.15	10.12	3.35	9.71	26.35	6.62	46.52	79.51
Header - Draper (SL)	30' Rigid	325 hp	85,600	300	8	0.146	2.63	8.44	2.87	8.09	22.04	5.68	38.77	66.50
Header - Draper (SL)	36' Rigid	355 hp	89,900	300	8	0.122	2.19	7.68	2.51	6.98	19.38	4.97	33.46	57.82
Header - Draper (SL)	40' Rigid	425 hp	95,200	300	8	0.110	1.97	8.27	2.39	6.41	19.06	4.73	30.72	54.53
Header - RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	4.55	11.91	3.21	12.24	31.91	6.01	58.62	96.55
Header - RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.79	12.17	2.85	11.67	30.50	5.34	55.92	91.77
Header - RiceStrp(CL)	32'	325 hp	70,800	300	8	0.158	2.84	9.13	2.80	8.75	23.54	5.25	41.93	70.73
Header - RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.94	10.32	2.78	10.61	27.66	5.20	50.80	83.67
Header - RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	3.28	10.55	2.47	10.12	26.43	4.63	48.46	79.53
Header - RiceStrp(SL)	32'	325 hp	70,800	300	8	0.137	2.46	7.91	2.43	7.59	20.40	4.55	36.34	61.30
Header - Soybean	22' Flex	265 hp	42,600	300	8	0.116	2.08	5.44	1.23	5.59	14.36	2.31	26.81	43.49
Header - Soybean	25' Flex	325 hp	42,000	300	8	0.102	1.83	5.88	1.07	5.64	14.42	2.00	27.00	43.44
Header - Soybean	30' Flex	325 hp	48,600	300	8	0.085	1.52	4.89	1.03	4.70	12.16	1.93	22.50	36.60
Header - Soybean	35' Flex	355 hp	58,300	300	8	0.072	1.30	4.58	1.06	4.17	11.13	1.99	19.98	33.10
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	2.08	5.44	0.57	5.59	13.70	1.07	26.81	41.59
Header Wheat/Sorghum	25' Rigid	325 hp	41,800	300	8	0.102	1.83	5.88	1.06	5.64	14.42	1.99	27.00	43.42
Header Wheat/Sorghum	30' Rigid	325 hp	55,100	300	8	0.085	1.52	4.89	1.17	4.70	12.30	2.19	22.50	37.00
Land Plane	50'x16'	MFWD 190	13,500	200	10	0.151	2.72	5.10	0.40	1.16	9.39	1.35	9.01	19.76
Levee Pull & Seed	8 Blade	MFWD 170	17,600	100	10	0.003	0.06	0.10	0.01	0.02	0.20	0.08	0.17	0.46
Levee Pull (Im/80a)	8 blade	MFWD 170	8,370	100	10	0.003	0.06	0.10	0.00	0.02	0.19	0.03	0.17	0.41
Levee Splitter (1/80)	32"	MFWD 150	9,220	100	10	0.004	0.07	0.11	0.00	0.02	0.21	0.05	0.16	0.43
Module Builder	4R-38 (250)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R-38 (350)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R2x1 (350)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
Module Builder	6R-30 (355)	MFWD 190	34,700	200	10	0.218	5.89	7.34	1.89	1.67	16.80	4.87	12.97	34.66
Module Builder	6R-38 (355)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
NT Grain Drill	10'	2WD 130	42,400	150	8	0.235	6.36	5.42	3.74	0.99	16.53	9.04	7.46	33.04
NT Grain Drill	12'	2WD 130	57,200	150	8	0.163	4.41	3.76	3.51	0.69	12.39	8.47	5.18	26.05
NT Grain Drill	15'	MFWD 150	73,300	150	8	0.130	3.53	3.47	3.59	0.69	11.31	8.68	5.23	25.24
NT Grain Drill	20'	MFWD 170	98,900	150	8	0.098	2.65	2.95	3.64	0.61	9.86	8.79	4.77	23.43
NT Grain Drill	24'	MFWD 190	111,300	150	8	0.081	2.20	2.75	3.41	0.62	9.00	8.24	4.86	22.12
NT Grain Drill	30'	MFWD 225	110,200	150	8	0.065	1.76	2.60	2.70	0.63	7.71	6.53	4.89	19.13
NT Grain Drill & Pre	10'	2WD 130	48,200	150	8	0.211	5.71	4.86	3.82	0.89	15.29	9.22	6.70	31.23
NT Grain Drill & Pre	12'	2WD 130	63,000	150	8	0.176	4.75	4.05	4.16	0.74	13.72	10.05	5.58	29.36
NT Grain Drill & Pre	15'	MFWD 150	79,100	150	8	0.141	3.80	3.74	4.18	0.75	12.49	10.09	5.64	28.23
NT Grain Drill & Pre	20'	MFWD 170	105,000	150	8	0.105	2.85	3.18	4.16	0.66	10.86	10.05	5.13	26.06
NT Grain Drill & Pre	24'	MFWD 190	117,000	150	8	0.088	2.37	2.96	3.86	0.67	9.88	9.33	5.24	24.46
NT Grain Drill & Pre	30'	MFWD 225	116,000	150	8	0.070	1.90	2.80	3.06	0.68	8.46	7.40	5.26	21.13
NT Plant&Pre-Folding	8R-38	MFWD 170	83,600	150	8	0.083	2.25	2.51	2.62	0.52	7.92	6.32	4.06	18.30
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	119,000	150	8	0.055	1.50	1.67	2.48	0.34	6.01	5.99	2.70	14.71
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.85	3.55	3.28	0.81	10.51	7.92	6.28	24.72
NT Plant&Pre-Folding	12R-30	MFWD 190	108,000	150	8	0.070	1.90	2.37	2.85	0.54	7.67	6.89	4.19	18.75
NT Plant&Pre-Folding	12R-38	MFWD 190	119,000	150	8	0.055	1.50	1.87	2.48	0.42	6.28	5.99	3.30	15.59
NT Plant&Pre-Folding	16R-30	MFWD 190	193,000	150	8	0.052	1.42	1.77	3.82	0.40	7.44	9.23	3.14	19.82
NT Plant&Pre-Folding	23R-15	MFWD 190	218,000	150	8	0.073	1.98	2.47	6.00	0.56	11.02	14.49	4.36	29.88
NT Plant&Pre-Folding	24R-20	MFWD 190	254,000	150	8	0.052	1.42	1.77	5.03	0.40	8.65	12.15	3.14	23.95
NT Plant&Pre-Folding	24R-30	MFWD 190	227,000	150	8	0.035	0.95	1.18	3.00	0.27	5.41	7.24	2.09	14.75
NT Plant&Pre-Folding	31R-15	MFWD 225	267,000	150	8	0.054	1.47	2.17	5.47	0.52	9.65	13.21	4.08	26.94
NT Plant&Pre-Folding	32R-15	MFWD 225	272,000	150	8	0.052	1.42	2.10	5.39	0.51	9.43	13.02	3.94	26.40
NT Plant&Pre-Rigid	4R-30	2WD 130	41,900	150	8	0.211	5.71	4.86	3.32	0.89	14.79	8.02	6.70	29.52
NT Plant&Pre-Rigid	4R-38	2WD 130	37,500	150	8	0.166	4.49	3.83	2.34	0.70	11.37	5.65	5.27	22.31
NT Plant&Pre-Rigid	6R-30	MFWD 150	50,800	150	8	0.141	3.80	3.74	2.68	0.75	10.99	6.48	5.64	23.12
NT Plant&Pre-Rigid	6R-38	MFWD 150	49,500	150	8	0.111	3.00	2.95	2.06	0.59	8.62	4.98	4.45	18.06
NT Plant&Pre-Rigid	8R-30	MFWD 170	65,200	150	8	0.105	2.85	3.18	2.58	0.66	9.29	6.24	5.13	20.67
NT Plant&Pre-Rigid	8R-38	MFWD 170	62,300	150	8	0.083	2.25	2.51	1.95	0.52	7.25	4.71	4.06	16.02
NT Plant&Pre-Rigid	11R-15	MFWD 170	70,000	150	8	0.143	3.88	4.33	3.77	0.90	12.89	9.11	6.99	29.00
NT Plant&Pre-Rigid	11R-20	MFWD 170	73,800	150	8	0.115	3.12	3.47	3.19	0.72	10.52	7.72	5.61	23.86
NT Plant&Pre-Rigid	12R-20	MFWD 190	78,700	150	8	0.105	2.85	3.55	3.12	0.81	10.34	7.53	6.28	24.17
NT Plant&Pre-Rigid	12R-30	MFWD 190	100,400	150	8	0.070	1.90	2.37	2.65	0.54	7.47	6.40	4.19	18.07
NT Plant&Pre-Rigid	15R-15	MFWD 190	96,800	150	8	0.113	3.05	3.80	4.10	0.86	11.83	9.91	6.72	28.47
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.50	2.21	3.61	0.53	7.87	8.71	4.15	20.74
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	135,300	150	8	0.083	2.25	3.33	4.24	0.80	10.63	10.24	6.24	27.12
NT Plant-Folding	8R-38	MFWD 170	77,700	150	8	0.077	2.09	2.33	2.26	0.48	7.18	5.46	3.77	16.41
NT Plant-Folding	8R-38 2x1	MFWD 170	109,000	150	8	0.051	1.39	1.55	2.11	0.32	5.38	5.10	2.51	13.00
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.65	3.30	2.85	0.75	9.56	6.88	5.83	22.29
NT Plant-Folding	12R-30	MFWD 190	97,600	150	8	0.065	1.76	2.20	2.39	0.50	6.87	5.78	3.89	16.54
NT Plant-Folding	12R-38	MFWD 190	109,000	150	8	0.051	1.39	1.73	2.11	0.39	5.64	5.10	3.07	13.81
NT Plant-Folding	16R-30	MFWD 190	182,000	150	8	0.049	1.32	1.65	3.35	0.37	6.70	8.09	2.91	17.71
NT Plant-Folding	23R-15	MFWD 190	207,000	150	8	0.068	1.84	2.29	5.29	0.52	9.95	12.77	4.05	26.78
NT Plant-Folding	24R-20	MFWD 190	244,000	150	8	0.049	1.32	1.65	4.49	0.37	7.84	10.84	2.91	21.61
NT Plant-Folding	24R-30	MFWD 190	20											

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

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

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

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

Notes:

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

Total Direct: Does not include interest on operating capital.

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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
dollars					dollars
ADJUVANTS			Avaris	oz	1.41
Agri-Dex	pt	3.00	Avicta 500 Soybean	oz	2.14
AMS SuperMax	pt	3.81	Bravo Weather Stick	pt	5.62
Class Act NG	pt	5.00	Captan 4L	pt	4.50
Crop Oil Conc.(Pet.)	pt	2.86	Convoy	oz	1.44
Crop Oil Conc.(Veg.)	pt	2.90	Cotton Seed Trt.	acre	20.00
Dyne-A-Pak	pt	6.88	CruiserMaxx Vibrance	oz	7.63
Fire-Zone	pt	3.94	Elatus	oz	3.81
Herbimax	pt	2.75	Flint Extra	oz	10.11
Induce	pt	5.00	Headline EC	oz	5.98
MSO	pt	1.34	Miravis Ace	oz	1.78
Penetrator Plus	pt	2.32	Miravis Top	oz	1.52
Surfactant	pt	3.30	Priaxor Xemium	oz	4.06
CLEANING			Propimax EC	pt	12.50
Cleaning Peanuts	ton	18.00	Prosaro	oz	1.89
CROP CONSULTANT			Provost Optimum	oz	2.17
Corn Consultant	acre	6.00	Provost Silver	oz	1.52
Cotton Consultant	acre	8.00	Quadrис	oz	6.25
Peanut Consultant	acre	9.25	Quadrис Top	oz	3.00
Rice Consultant	acre	8.00	Quadrис Top SBX	oz	3.13
Sorghum Consultant	acre	6.00	Quilt	pt	4.00
Soybeans Consultant	acre	6.50	Quilt XCEL	pt	21.75
Wheat Consultant	acre	5.50	Stratego	pt	22.50
CUSTOM FERTILIZE			Stratego YLD	oz	2.65
App Fert by Air	cwt	8.00	Tilt 3.6 EC	oz	1.02
App Fert by Air(Mi	appl	8.00	Tilt/ Bravo SE	oz	0.81
Custom Apply Fert	acre	7.50	Trivapro	oz	1.48
CUSTOM LIME			GINNING		
Lime (Spread)	ton	65.00	Gin & Haul	lb	0.11
CUSTOM PLANT			GROWTH REGULATORS		
Custom Plant	acre	7.50	Mepex	oz	0.09
Custom Plant Air	cwt	8.43	Mepichlor 4.2%	oz	0.17
CUSTOM SPRAY			Mepiquat	oz	0.07
App by Air (3 gal)	appl	6.87	Mepstar 6	oz	0.09
App by Air (5 gal)	appl	8.11	Palisade	oz	1.47
App by Air (10 gal)	appl	10.57	Pentia	oz	0.41
Custom Spray Ground	acre	7.00	Pix WSG	oz	1.36
DRYING			Stance	oz	1.40
Dry Corn	bu	0.19	Veto	oz	0.07
Dry Grain Sorghum	cwt	0.25	HARVEST AIDS		
Dry Peanuts	ton	24.00	Adios	oz	0.99
Dry Rice	bu	0.40	Boll Buster	oz	0.34
ERADICATION FEE			Def/Folex	pt	11.25
Eradication	acre	1.00	Defol 5	gal	8.61
FERTILIZERS			Display	oz	10.59
Agroatin Ultra	pt	12.50	Ethepron 6E	pt	3.38
Amm Sulfate (21% N)	cwt	26.00	Finish 6	pt	10.93
Boron Plus	pt	5.10	Folex 6EC	pt	11.25
DAP	cwt	47.21	Freefall SC	oz	0.89
Fert 10-34-0	cwt	40.00	Ginstar EC	pt	29.72
Fert 10-34-0	gal	4.66	Gramoxone SL	oz	0.33
Fert 11-37-0	cwt	41.25	Sharpen	oz	7.91
Fert 41-0-0-4	cwt	38.00	Sodium Chlorate 5L	gal	8.61
Lime	ton	55.00	SuperBoll	oz	0.18
NBPT	pt	18.00	Thidiazuron 4lb	oz	1.14
Phosphorus(46% P2O5)	cwt	39.25	Tribufos 6lb	pt	11.25
Potash (60% K2O)	cwt	36.20	Vacate	oz	1.39
Sulfur Plus	pt	2.62	HAULING		
UAN (32% N)	cwt	36.15	Haul Corn	bu	0.23
UAN (32%)	gal	4.00	Haul Peanuts	ton	14.50
UAN + Sulfur (28%)	cwt	31.10	Haul Rice	bu	0.35
UAN + Sulfur (28%)	gal	3.46	Haul Sorghum	bu	0.25
Urea, Solid (46% N)	cwt	31.69	Haul Soybeans	bu	0.27
Zinc Plus	pt	3.50	Haul Wheat	bu	0.26
FUNGICIDES			HERBICIDES		
Abound	oz	1.87	2,4-D Amine 4	pt	2.72
Alfa Guard	lb	1.62	2,4-D Ester	pt	4.87
Allegiance Flowabl	oz	6.33	AAtrex 4L	pt	3.00
Ameristar Top	oz	2.52	Accent Q	oz	23.39
Approach Prima	pt	34.50	Acuron	oz	0.56
Apron Maxx RTA	oz	1.02			(continued)
Artisan	oz	0.70			

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

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

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

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

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

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

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

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	17.94
IRRIGATE LABOR	hour	9.06
HAND LABOR	hour	9.06
HAND. & STOR. LABOR	hour	9.06
RICE MGT. LABOR	hour	9.06
CROP ENTERPRISE		UNALLOCATED LABOR MULTIPLIERS (%)
Corn		90
Cotton		80
Grain Sorghum		90
Peanuts		80
Rice		90
Soybeans		90
Wheat		80

Appendix Table 7. Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets, Mississippi, 2024

Crop	unit	Futures Contract Month	Futures Contract Price ^a	Basis ^b	Forward Contract Price ^c	Loan Rate ^d	Budget Price ^e
Corn	bu	Dec '24	5.17	-0.06	5.11	2.35	5.11
Cotton Lint	lb	Dec '24	0.8151	-0.0123	0.8028	0.52	0.8028
Cottonseed	lb						0.11 ^f
Grain Sorghum	bu				4.85	4.09	4.85
Peanuts	ton				550.00	354.89	550.00
Soybeans	bu	Nov '24	12.61	0.06	12.67	6.41	12.67
Rice	bu	Nov '24	5.83	-0.17	5.66	3.21	5.66
Wheat	bu	Jul '24	6.32	-0.15	6.17	3.60	6.17

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2023 for the stated contract months.

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2023 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

^d Average Mississippi County CCC Loan Rate for 2023 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2023 Farm-stored Loan Rate for long grain rough rice. National 2023 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

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

Appendix Table 8 Estimated costs for field operations, per acre
Cotton irrigated with center pivot
135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2024

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

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

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, 2024

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

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

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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Land Plane	50'x16'		1.28	0.39	0.68		0.19	2.54	2.59
Set Up Engine									5.13
IRRIGATE LABOR	hour				0.23		0.01	0.24	
Ditcher (1m/160a)			0.28	0.09	0.17		0.02	0.56	0.51
Roll-Out Pipe	ft	7.92					0.27	8.19	
Lay Roll-out Pipe									8.19
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45		0.03	0.99	1.26
IRRIGATE LABOR	hour				1.81		0.06	1.87	
Apply Water					0.23		0.01	0.24	
IRRIGATE LABOR	hour								0.24
Apply Water					0.23			0.23	
IRRIGATE LABOR	hour								0.23
Apply Water					0.23			0.23	
IRRIGATE LABOR	hour								0.23
Pick Up Pipe					0.23			0.23	
Pipe Spool 160ac	1/4m roll		0.56	0.19	0.68		0.02	1.45	1.89
Land Forming (\$450)	each								3.34
Well & Pump, Furrow	each			2.96			0.10	3.06	43.97
Main Line Pipe	each								43.97
Engine, RPF, PNUT	each								15.09
1st July Irrigation	ac-in		8.41	1.05			0.26	9.72	
1st Aug Irrigation	ac-in		8.41	1.05			0.20	9.66	
2nd Aug Irrigation	ac-in		8.41	1.05			0.20	9.66	
1st Sep Irrigation	ac-in		8.41	1.05			0.13	9.59	
TOTALS		7.92	36.14	7.96	4.94	0.00	1.50	58.46	80.72
									139.18

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
-----dollars-----										
Set Up Engine										
IRRIGATE LABOR	hour				0.07			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			0.30	8.90	45.46	54.36
Well & Pump, 1/2 CP	each			1.13			0.04	1.17	4.61	5.78
Engine, 1/2 CP, 174	each								6.38	6.38
June Irr. 3app@.75"	ac-in	16.93	0.68			0.61	18.22			18.22
July Irr. 4app@.75"	ac-in	22.57	0.91			0.65	24.13			24.13
Aug Irr. 3app@.75"	ac-in	16.93	0.68			0.36	17.97			17.97

TOTALS		0.00	56.43	12.00	0.47	0.00	1.97	70.87	56.45	127.32

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

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