SOYBEANS
2025
PLANNING BUDGETS

Mississippi State University
Department of Agricultural Economics
Budget Report 2024-02

November 2024

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 2025 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.

Special appreciation is expressed to producers who provided information on crop practices used. Appreciation also is expressed to farm supply dealers, equipment dealers, custom operators, and chemical companies who provided prices for crop production inputs. The Mississippi Agricultural Statistics Service is commended for its excellence in collecting price and production practice data.

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.

2025 Budget Committees

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

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
Kitty Charlton, MSU-ES

Prices
Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES
Kitty Charlton, MSU-ES

Documentation and Data Processing
Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES
Kitty Charlton, MSU-ES

Publication Review
Evan Gregory, MSU-ES
W. Gail Gillis, MSU-ES
Kitty Charlton, MSU-ES

Table of Contents

Page

Foreword i

Acknowledgments i

2025 Budget Committees ii

2025 Planning Budgets 1

Budgets for Agricultural Enterprises 1

Methods and Procedures 1
- Production Practices 1
- Machinery 1
- Estimates of Direct Costs 2
- Estimates of Fixed Costs 2
- Estimates of Returns 3
- Irrigation Costs 3
- Net Returns 3

Enterprise Budgets

Table

1 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Non-irrigated, Delta Area 6

2 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Furrow irrigated, 9 ac-in., Delta Area 12

3 Soybeans, full-season, Enlist E3, stale seedbed, 16R 30”
Flood irrigated, 13.5 ac-in., Delta Area 18

4 Soybeans, double crop after wheat, Enlist E3, 16R 30”
1/2 mile pivot irrigated, 7.5 ac-in., All Areas 24

5 Soybeans full-season, Enlist E3, April planted, 16R 30”
Non-Delta Area 30

6 Soybeans, full-season, Enlist E3, May planted, 16R 30”
Non-Delta Area 36

7 Soybeans, double crop after wheat, Enlist E3, 16R 30”
Non-irrigated, All Areas 42

8 Soybeans full season, RR2X/XF, stale seedbed, 16R 30”
Non-irrigated, Delta Area 48

9 Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30”
Furrow irrigated, 9 ac-in., Delta Area 54

10 Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30”
Flood irrigated, 13.5 ac-in., Delta Area 60

11 Soybeans, double crop after wheat, RR2X/XF, 16R 30”
1/2 mile pivot irrigated, 7.5 ac-in., All Areas 66

12 Soybeans, full-season, RR2X/XF, April planted, 16R 30”
Non-Delta Area 72

13 Soybeans, full-season, RR2X/XF, May planted, 16R 30”
Non-Delta Area 78

14 Soybeans, double crop after wheat, RR2X/XF, 16R 30”
Non-irrigated, All Areas 84

Appendix
Table

1 Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed costs per hour 92
2 Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed costs per acre 93
3 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed costs per acre 94
4 Operating inputs: estimated prices 99
5 Estimated fuel prices and interest rates 102
6 Labor types, wage rates and unallocated labor multipliers for crop enterprises 102
7 Futures contract prices, basis levels, forward contract prices, and loan rates used in row crop budgets 103
8 Full-season soybeans irrigated with roll-out pipe 160-acre system, 9 ac-in., Delta Area 104
9 Irrigation with a contour flood system 80-acre system, 13.5 ac-in., Delta Area 105
10 Irrigation with a ½-mile center pivot system 530-acre system, 7.5 ac-in., Delta Area 106

Literature Cited 107

2025 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 2024. (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:

$$RPH = \frac{RLC \; x \; RP}{THL}$$

$$RPA = RPH \; x \; PR$$

where:

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

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

The labor wage rate per hour includes social security, accident and unemployment insurance, and some perquisites (11). Labor costs are estimated for four labor categories: operator labor, hand labor, irrigation labor, and unallocated labor. Operator labor and hand labor represent estimates of labor required to perform the in-field tasks. Operator labor is that labor required to operate all power-driven equipment. Irrigation labor is used to perform tasks associated with an irrigation system. Unallocated labor is an estimate of labor that is not used directly in producing the enterprise. Its cost is estimated as a percentage of operator labor (11). The percentages used for the various crop enterprises are listed in Appendix Table 6.

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

CRCPH = Capital recovery charge per hour
HAU = Hours of annual use
CRCPA = Capital recovery charge per acre
PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2024 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, 9, and 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
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	
Potash (60% K2O)	cwt	27.09	1.3300	36.03	
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	64.0000	7.68	
2,4-D Amine 4	pt	2.23	2.0000	4.46	
Select Max	pt	15.01	1.0000	15.01	
Valor SX	oz	3.06	2.0000	6.12	
Boundary	pt	10.19	2.0000	20.38	
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	
Enlist Duo	pt	6.89	3.5000	24.12	
Dual Magnum	pt	10.11	1.0000	10.11	
Zidua WG	oz	7.30	1.5000	10.95	
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	
HAULING					
Haul Soybeans	bu	0.29	42.0000	12.18	
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	
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	18.69	0.2209	4.13	
Harvesters	hour	18.69	0.0851	1.59	
Self-Propelled	hour	18.69	0.0235	0.44	
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	
Self-Propelled	hour	9.06	0.0117	0.10	
UNALLOCATED LABOR	hour	18.67	0.2966	5.54	
DIESEL FUEL					
Tractors	gal	2.86	3.4114	9.75	
Harvesters	gal	2.86	1.4243	4.07	
Self-Propelled	gal	2.86	0.2993	0.86	
REPAIR & MAINTENANCE					
Implements	acre	7.55	1.0000	7.55	
Tractors	acre	2.70	1.0000	2.70	
Harvesters	acre	4.77	1.0000	4.77	
Self-Propelled	acre	0.44	1.0000	0.44	
INTEREST ON OP. CAP.	acre	17.93	1.0000	17.93	

TOTAL DIRECT EXPENSES				397.78	
FIXED EXPENSES					
Implements	acre	20.11	1.0000	20.11	
Tractors	acre	20.93	1.0000	20.93	
Harvesters	acre	22.85	1.0000	22.85	
Self-Propelled	acre	3.52	1.0000	3.52	

TOTAL FIXED EXPENSES				67.41	

TOTAL SPECIFIED EXPENSES				465.19	

Note: Cost of production estimates are based on 2024 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 1.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	42.0000	456.54	_____
TOTAL INCOME				456.54	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
HARVEST AIDS	acre	10.16	1.0000	10.16	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	109.07	1.0000	109.07	_____
INSECTICIDES	acre	13.06	1.0000	13.06	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	12.18	1.0000	12.18	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	0.0625	0.56	_____
OPERATOR LABOR	hour	18.69	0.3295	6.16	_____
UNALLOCATED LABOR	hour	18.67	0.2966	5.54	_____
DIESEL FUEL	gal	2.86	5.1352	14.68	_____
REPAIR & MAINTENANCE	acre	15.46	1.0000	15.46	_____
INTEREST ON OP. CAP.	acre	17.93	1.0000	17.93	_____
TOTAL DIRECT EXPENSES				397.78	_____
RETURNS ABOVE DIRECT EXPENSES				58.76	_____
TOTAL FIXED EXPENSES				67.41	_____
TOTAL SPECIFIED EXPENSES				465.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-8.65	_____

Note: Cost of production estimates are based on 2024 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 1.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

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				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
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	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		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					32.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
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	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.32	0.30	0.39	0.29

Note: Cost of production estimates are based on 2024 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 1.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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
Subsoiler	3 shank		1.80	0.58	1.45		0.32	4.15	4.15	8.30
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
App by Air (5 gal)	appl	8.05					0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	3.84					0.21	4.05		4.05
2,4-D Amine 4	pt	4.46					0.25	4.71		4.71
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Enlist E3	lb	51.50					2.12	53.62		53.62
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Enlist Duo	pt	24.12					0.83	24.95		24.95
Dual Magnum	pt	10.11					0.35	10.46		10.46
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Zidua WG	oz	10.95					0.38	11.33		11.33
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Acephate 90SP	lb	5.06					0.07	5.13		5.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	12.18					0.08	12.26		12.26
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		337.45	14.68	15.46	12.26	0.00	17.93	397.78	67.41	465.19

Note: Cost of production estimates are based on 2024 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 1.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

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	456.54
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	0.00	24.15	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	29.43	0.00	30.62	49.02	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	13.06	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	51.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	9.00	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	12.18
CUSTOM LIME	17.11	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
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	5.28	0.00	0.00	0.00	0.00	0.00	2.26	0.94	0.00	0.00	0.00	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.57	0.00	0.00	0.00	0.00	0.00	2.24	0.86	0.00	0.00	0.00	5.01
REPAIR & MAINTENANCE	4.13	0.00	0.00	0.00	0.00	0.00	4.43	0.44	0.00	0.00	0.00	6.46
INTEREST ON OP. CAP.	8.80	0.00	0.00	0.00	2.14	0.00	4.15	1.99	0.00	0.00	0.66	0.19
TOTAL DIRECT EXPENSES	115.57	0.00	0.00	0.00	40.94	0.00	105.21	59.75	0.00	0.00	48.69	27.62
NET INCOME	-115.57	0.00	0.00	0.00	-40.94	0.00	-105.21	-59.75	0.00	0.00	-48.69	428.92
NET INCOME TO DATE	-115.57	-115.57	-115.57	-115.57	-156.51	-156.51	-261.72	-321.47	-321.47	-321.47	-370.16	58.76

Note: Cost of production estimates are based on 2024 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 1.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-220	-209	-197	-186	-174	-163	-151	-140	-129	-117	-106
			-287	-276	-265	-253	-242	-230	-219	-207	-196	-185	-173
60	25.20	bu	-187	-173	-160	-146	-132	-118	-105	-91	-77	-64	-50
			-254	-241	-227	-213	-200	-186	-172	-158	-145	-131	-117
70	29.40	bu	-154	-138	-122	-106	-90	-74	-58	-42	-26	-10	5
			-221	-205	-189	-173	-157	-141	-125	-109	-93	-78	-62
80	33.60	bu	-121	-103	-84	-66	-48	-30	-11	6	24	42	61
			-188	-170	-152	-134	-115	-97	-79	-60	-42	-24	-6
90	37.80	bu	-88	-67	-47	-26	-6	14	34	55	75	96	117
			-155	-135	-114	-94	-73	-53	-32	-11	8	29	49
100	42.00	bu	-55	-32	-9	13	35	58	81	104	127	150	172
			-122	-99	-77	-54	-31	-8	14	37	59	82	105
110	46.20	bu	-22	2	27	52	78	103	128	153	178	203	228
			-89	-64	-39	-14	10	35	60	85	111	136	161
120	50.40	bu	10	38	65	92	120	147	175	202	229	257	284
			-56	-29	-1	25	52	80	107	134	162	189	217
130	54.60	bu	43	73	103	132	162	192	221	251	281	310	340
			-23	5	35	65	94	124	154	183	213	243	273
140	58.80	bu	76	108	140	172	204	236	268	300	332	364	396
			9	41	73	105	137	169	201	232	264	296	328
150	63.00	bu	109	143	178	212	246	280	315	349	383	417	452
			42	76	110	145	179	213	247	281	316	350	384

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 2024 input prices.

Table 2.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.0000	40.25	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	64.0000	7.68	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Enlist Duo	pt	6.89	3.5000	24.12	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
Zidua WG	oz	7.30	1.5000	10.95	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	60.0000	17.40	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.3601	6.73	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0235	0.44	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	18.67	0.3512	6.56	_____
DIESEL FUEL					
Tractors	gal	2.86	5.0744	14.50	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.2993	0.86	_____
Roll-Out Pipe Irr.	gal	2.86	7.3316	20.97	_____
REPAIR & MAINTENANCE					
Implements	acre	8.73	1.0000	8.73	_____
Tractors	acre	4.03	1.0000	4.03	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.44	1.0000	0.44	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	20.33	1.0000	20.33	_____
TOTAL DIRECT EXPENSES				484.01	_____
FIXED EXPENSES					
Implements	acre	25.21	1.0000	25.21	_____
Tractors	acre	31.32	1.0000	31.32	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	3.52	1.0000	3.52	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				157.37	_____
TOTAL SPECIFIED EXPENSES				641.38	_____

Note: Cost of production estimates are based on 2024 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 2.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	60.0000	652.20	
TOTAL INCOME				652.20	
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.25	1.0000	40.25	
HARVEST AIDS	acre	10.16	1.0000	10.16	
FERTILIZERS	acre	61.35	1.0000	61.35	
FUNGICIDES	acre	27.14	1.0000	27.14	
HERBICIDES	acre	109.07	1.0000	109.07	
INSECTICIDES	acre	13.06	1.0000	13.06	
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	
SEED/PLANTS	acre	51.50	1.0000	51.50	
ADJUVANTS	acre	3.63	1.0000	3.63	
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	
HAULING	acre	17.40	1.0000	17.40	
CUSTOM LIME	acre	17.11	1.0000	17.11	
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	0.0625	0.56	
IRRIGATE LABOR	hour	9.06	0.3625	3.30	
OPERATOR LABOR	hour	18.69	0.4687	8.76	
UNALLOCATED LABOR	hour	18.67	0.3512	6.56	
DIESEL FUEL	gal	2.86	14.1298	40.40	
REPAIR & MAINTENANCE	acre	25.13	1.0000	25.13	
INTEREST ON OP. CAP.	acre	20.33	1.0000	20.33	
TOTAL DIRECT EXPENSES				484.01	
RETURNS ABOVE DIRECT EXPENSES				168.19	
TOTAL FIXED EXPENSES				157.37	
TOTAL SPECIFIED EXPENSES				641.38	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				10.82	

Note: Cost of production estimates are based on 2024 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 2.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

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				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
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
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		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					32.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
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	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Jul	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				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					60.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.46	0.44	0.89	0.35

Note: Cost of production estimates are based on 2024 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 2.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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
Subsoiler	3 shank		1.80	0.58	1.45		0.32	4.15	4.15	8.30
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
Bed/Lister-Roll-Fo	16R-30		2.68	1.67	2.15		0.54	7.04	8.84	15.88
App by Air (5 gal)	appl	8.05					0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	3.84					0.21	4.05		4.05
2,4-D Amine 4	pt	4.46					0.25	4.71		4.71
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Enlist E3	lb	51.50					2.12	53.62		53.62
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Enlist Duo	pt	24.12					0.83	24.95		24.95
Dual Magnum	pt	10.11					0.35	10.46		10.46
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Zidua WG	oz	10.95					0.38	11.33		11.33
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Miravis Top	oz	20.00					0.41	20.41		20.41
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Acephate 90SP	lb	5.06					0.07	5.13		5.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	17.40					0.12	17.52		17.52
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
Roll-Out Pipe Irr.	acre	7.92	23.04	8.00	4.77		1.23	44.96	81.12	126.08
TOTALS		378.97	40.40	25.13	19.18	0.00	20.33	484.01	157.37	641.38

Note: Cost of production estimates are based on 2024 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 2.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

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	652.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	8.05	24.15	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	20.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	29.43	0.00	30.62	49.02	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	13.06	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	51.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	9.00	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	17.40
CUSTOM LIME	17.11	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
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	8.14	0.00	0.00	0.00	0.00	0.00	2.26	1.17	2.91	0.23	0.00	4.47
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	10.31	0.00	0.00	0.00	0.00	0.00	2.24	0.86	14.52	6.99	0.00	5.48
REPAIR & MAINTENANCE	6.22	0.00	0.00	0.00	0.00	0.00	4.43	0.44	5.98	1.40	0.00	6.66
INTEREST ON OP. CAP.	9.52	0.00	0.00	0.00	2.14	0.00	4.15	2.00	0.86	0.76	0.66	0.24
TOTAL DIRECT EXPENSES	124.98	0.00	0.00	0.00	40.94	0.00	105.21	59.99	32.19	37.76	48.69	34.25
NET INCOME	-124.98	0.00	0.00	0.00	-40.94	0.00	-105.21	-59.99	-32.19	-37.76	-48.69	617.95
NET INCOME TO DATE	-124.98	-124.98	-124.98	-124.98	-165.92	-165.92	-271.13	-331.12	-363.31	-401.07	-449.76	168.19

Note: Cost of production estimates are based on 2024 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 2.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-230	-214	-198	-181	-165	-149	-132	-116	-100	-83	-67
			-388	-371	-355	-339	-322	-306	-290	-273	-257	-241	-224
60	36.00	bu	-183	-163	-144	-124	-105	-85	-66	-46	-26	-7	12
			-340	-321	-301	-282	-262	-243	-223	-203	-184	-164	-145
70	42.00	bu	-136	-113	-90	-67	-45	-22	0	23	46	69	91
			-293	-270	-248	-225	-202	-179	-156	-133	-111	-88	-65
80	48.00	bu	-89	-63	-37	-10	15	41	67	93	119	145	171
			-246	-220	-194	-168	-142	-116	-90	-63	-37	-11	14
90	54.00	bu	-42	-12	16	46	75	104	134	163	192	222	251
			-199	-170	-140	-111	-81	-52	-23	6	35	64	94
100	60.00	bu	5	37	70	102	135	168	200	233	266	298	331
			-152	-119	-87	-54	-21	10	43	76	108	141	173
110	66.00	bu	52	88	124	159	195	231	267	303	339	375	411
			-105	-69	-33	2	38	74	110	146	181	217	253
120	72.00	bu	99	138	177	216	255	295	334	373	412	451	490
			-57	-18	20	59	98	137	176	216	255	294	333
130	78.00	bu	146	189	231	273	316	358	400	443	485	528	570
			-10	31	74	116	158	201	243	286	328	370	413
140	84.00	bu	193	239	285	330	376	422	467	513	559	604	650
			36	82	127	173	219	264	310	356	401	447	492
150	90.00	bu	240	289	338	387	436	485	534	583	632	681	730
			83	132	181	230	279	328	377	425	474	523	572

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 2024 input prices.

Table 3.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	64.0000	7.68	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Enlist Duo	pt	6.89	3.5000	24.12	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	53.0000	15.37	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.3362	6.27	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0352	0.66	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR	hour	18.69	0.2284	4.27	_____
DIESEL FUEL					
Tractors	gal	2.86	3.8348	10.98	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.4490	1.29	_____
Contour Flood Irr.	gal	2.86	10.9974	31.44	_____
REPAIR & MAINTENANCE					
Implements	acre	7.09	1.0000	7.09	_____
Tractors	acre	3.02	1.0000	3.02	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.66	1.0000	0.66	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	19.31	1.0000	19.31	_____

TOTAL DIRECT EXPENSES				460.97	_____
FIXED EXPENSES					
Implements	acre	18.03	1.0000	18.03	_____
Tractors	acre	23.26	1.0000	23.26	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	5.28	1.0000	5.28	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____

TOTAL FIXED EXPENSES				128.16	_____

TOTAL SPECIFIED EXPENSES				589.13	_____

Note: Cost of production estimates are based on 2024 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 3.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	53.0000	576.11	_____
TOTAL INCOME				576.11	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
HARVEST AIDS	acre	10.16	1.0000	10.16	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	27.14	1.0000	27.14	_____
HERBICIDES	acre	93.66	1.0000	93.66	_____
INSECTICIDES	acre	13.06	1.0000	13.06	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	15.37	1.0000	15.37	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	18.69	0.4566	8.52	_____
UNALLOCATED LABOR	hour	18.69	0.2284	4.27	_____
DIESEL FUEL	gal	2.86	16.7057	47.78	_____
REPAIR & MAINTENANCE	acre	29.85	1.0000	29.85	_____
INTEREST ON OP. CAP.	acre	19.31	1.0000	19.31	_____
TOTAL DIRECT EXPENSES				460.97	_____
RETURNS ABOVE DIRECT EXPENSES				115.14	_____
TOTAL FIXED EXPENSES				128.16	_____
TOTAL SPECIFIED EXPENSES				589.13	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-13.02	_____

Note: Cost of production estimates are based on 2024 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 3.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

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				
Disk Harrow	32'	MFWD 300	0.061	1.00	Nov		0.06	0.06	0.06	0.05
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				
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				
Valor SX	oz					2.0000				
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				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					32.0000				
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				
App by Air (5 gal)	appl			1.00	Jul	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				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
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					53.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.45	0.42	0.83	0.22

Note: Cost of production estimates are based on 2024 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 3.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		DIRECT COST								
		dollars								
Soil Test	acre	3.33					0.27	3.60		3.60
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.07	1.19	1.76	2.95
Glyphosate 3lbs a.e	oz	3.84					0.24	4.08		4.08
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Valor SX	oz	6.12					0.38	6.50		6.50
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Enlist E3	lb	51.50					2.12	53.62		53.62
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Enlist Duo	pt	24.12					0.99	25.11		25.11
Dual Magnum	pt	10.11					0.42	10.53		10.53
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
App by Air (5 gal)	appl	8.05					0.22	8.27		8.27
Miravis Top	oz	20.00					0.55	20.55		20.55
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	15.37					0.11	15.48		15.48
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
Contour Flood Irr.	acre	2.25	36.53	16.06	6.59		1.74	63.17	71.48	134.65
TOTALS		347.81	47.78	29.85	16.22	0.00	19.31	460.97	128.16	589.13

Note: Cost of production estimates are based on 2024 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 3.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

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	576.11
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.05	8.05	16.10	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	20.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	24.97	0.00	0.00	64.85	3.84	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	5.06	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	51.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	9.00	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	15.37
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	17.11	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	1.55	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	2.18	0.00	0.00	0.47	0.00	0.00	3.18	2.64	1.87	1.87	0.23	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.71	0.00	0.00	0.43	0.00	0.00	2.67	12.77	11.94	11.94	0.31	5.01
REPAIR & MAINTENANCE	2.24	0.00	0.00	0.22	0.00	0.00	4.65	9.58	3.30	3.30	0.10	6.46
INTEREST ON OP. CAP.	8.07	0.00	0.00	1.70	0.00	0.00	5.90	1.07	1.25	0.61	0.49	0.22
TOTAL DIRECT EXPENSES	105.99	0.00	0.00	29.11	0.00	0.00	149.26	32.15	46.74	30.83	36.05	30.84
NET INCOME	-105.99	0.00	0.00	-29.11	0.00	0.00	-149.26	-32.15	-46.74	-30.83	-36.05	545.27
NET INCOME TO DATE	-105.99	-105.99	-105.99	-135.10	-135.10	-135.10	-284.36	-316.51	-363.25	-394.08	-430.13	115.14

Note: Cost of production estimates are based on 2024 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 3.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-237	-222	-208	-193	-179	-165	-150	-136	-121	-107	-93
			-365	-350	-336	-322	-307	-293	-278	-264	-250	-235	-221
60	31.80	bu	-195	-178	-160	-143	-126	-109	-91	-74	-57	-39	-22
			-323	-306	-289	-271	-254	-237	-219	-202	-185	-168	-150
70	37.10	bu	-153	-133	-113	-93	-73	-53	-32	-12	7	27	47
			-282	-261	-241	-221	-201	-181	-161	-140	-120	-100	-80
80	42.40	bu	-112	-89	-66	-43	-20	3	26	49	72	95	118
			-240	-217	-194	-171	-148	-125	-102	-79	-56	-32	-9
90	47.70	bu	-70	-44	-18	7	33	59	85	110	136	162	188
			-198	-172	-146	-120	-95	-69	-43	-17	8	34	60
100	53.00	bu	-28	-0	28	57	86	115	143	172	201	230	259
			-157	-128	-99	-70	-41	-13	15	44	73	102	131
110	58.30	bu	12	44	76	107	139	171	202	234	266	297	329
			-115	-83	-52	-20	11	43	74	106	138	169	201
120	63.60	bu	54	89	123	158	192	227	261	296	330	365	400
			-73	-39	-4	29	64	99	133	168	202	237	271
130	68.90	bu	96	133	170	208	245	283	320	358	395	433	470
			-32	5	42	80	117	155	192	230	267	304	342
140	74.20	bu	137	178	218	258	299	339	379	420	460	500	541
			9	49	90	130	170	211	251	291	332	372	412
150	79.50	bu	179	222	265	309	352	395	438	481	525	568	611
			51	94	137	180	224	267	310	353	396	440	483

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 2024 input prices.

Table 4.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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Enlist Duo	pt	6.89	3.5000	24.12	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
Prevathon	oz	1.47	14.0000	20.58	_____
Bifenthrin	oz	0.48	6.4000	3.07	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	50.0000	14.50	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	0.3333	3.33	_____
OPERATOR LABOR					
Tractors	hour	18.69	0.0720	1.35	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0117	0.22	_____
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	18.72	0.1452	2.72	_____
DIESEL FUEL					
Tractors	gal	2.86	1.1121	3.18	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.1496	0.43	_____
1/2-mi Pivot Irr.	gal	2.86	16.4057	46.93	_____
REPAIR & MAINTENANCE					
Implements	acre	5.24	1.0000	5.24	_____
Tractors	acre	0.88	1.0000	0.88	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.22	1.0000	0.22	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	15.85	1.0000	15.85	_____
TOTAL DIRECT EXPENSES				428.15	_____
FIXED EXPENSES					
Implements	acre	11.97	1.0000	11.97	_____
Tractors	acre	6.82	1.0000	6.82	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	1.76	1.0000	1.76	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				99.85	_____
TOTAL SPECIFIED EXPENSES				528.00	_____

Note: Cost of production estimates are based on 2024 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 4.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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	50.0000	543.50	_____
TOTAL INCOME				543.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	27.14	1.0000	27.14	_____
HERBICIDES	acre	64.85	1.0000	64.85	_____
INSECTICIDES	acre	36.71	1.0000	36.71	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	14.50	1.0000	14.50	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.1689	3.16	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL	gal	2.86	19.0919	54.61	_____
REPAIR & MAINTENANCE	acre	23.11	1.0000	23.11	_____
INTEREST ON OP. CAP.	acre	15.85	1.0000	15.85	_____
TOTAL DIRECT EXPENSES				428.15	_____
RETURNS ABOVE DIRECT EXPENSES				115.35	_____
TOTAL FIXED EXPENSES				99.85	_____
TOTAL SPECIFIED EXPENSES				528.00	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.50	_____

Note: Cost of production estimates are based on 2024 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 4.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, 2025

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					32.0000				
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 2024 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 4.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, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST 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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.23		0.31	9.21	14.00	23.21
Soybean Enlist E3	lb	51.50					1.77	53.27		53.27
CruiserMaxx Vibrance	oz	7.14					0.25	7.39		7.39
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	20.38					0.70	21.08		21.08
Gramoxone SL 2.0	oz	10.24					0.35	10.59		10.59
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.46		0.03	1.14	1.76	2.90
Enlist Duo	pt	24.12					0.66	24.78		24.78
Dual Magnum	pt	10.11					0.28	10.39		10.39
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Miravis Top	oz	20.00					0.41	20.41		20.41
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Prevathon	oz	20.58					0.42	21.00		21.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.07					0.06	3.13		3.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.07	5.90	2.96		0.09	13.02	24.96	37.98
Haul Soybeans	bu	14.50					0.10	14.60		14.60
Grain Cart Soybean	700 bu		0.94	0.56	0.74		0.02	2.26	2.68	4.94
1/2-mi Pivot Irr.	acre		46.93	12.00	0.47		1.70	61.10	56.45	117.55
TOTALS		327.72	54.61	23.11	6.86	0.00	15.85	428.15	99.85	528.00

Note: Cost of production estimates are based on 2024 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 4.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, 2025

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	543.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.15	8.05	0.00
FERTILIZERS	61.35	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	7.14	0.00	20.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.62	34.23	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.71	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.50	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	9.00	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	14.50
CUSTOM LIME	17.11	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	2.27	0.51	0.04	0.00	3.70
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	16.32	19.20	14.08	0.00	5.01
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84	1.13	0.68	0.00	6.46
INTEREST ON OP. CAP.	7.48	0.00	0.00	0.00	0.00	0.00	0.28	4.33	1.51	1.82	0.22	0.21
TOTAL DIRECT EXPENSES	98.27	0.00	0.00	0.00	0.00	0.00	7.12	129.89	56.58	90.14	16.27	29.88
NET INCOME	-98.27	0.00	0.00	0.00	0.00	0.00	-7.12	-129.89	-56.58	-90.14	-16.27	513.62
NET INCOME TO DATE	-98.27	-98.27	-98.27	-98.27	-98.27	-98.27	-105.39	-235.28	-291.86	-382.00	-398.27	115.35

Note: Cost of production estimates are based on 2024 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 4.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, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	25.00	bu	-217	-203	-189	-176	-162	-149	-135	-121	-108	-94	-81
			-316	-303	-289	-276	-262	-248	-235	-221	-208	-194	-181
60	30.00	bu	-177	-161	-145	-128	-112	-96	-79	-63	-47	-30	-14
			-277	-261	-244	-228	-212	-196	-179	-163	-147	-130	-114
70	35.00	bu	-138	-119	-100	-81	-62	-43	-24	-5	13	32	51
			-238	-219	-200	-181	-162	-143	-124	-105	-86	-67	-48
80	40.00	bu	-99	-77	-55	-33	-12	9	31	53	74	96	118
			-198	-177	-155	-133	-112	-90	-68	-46	-25	-3	18
90	45.00	bu	-59	-35	-10	13	38	62	86	111	135	160	184
			-159	-135	-110	-86	-61	-37	-12	11	35	60	84
100	50.00	bu	-20	6	33	61	88	115	142	169	196	224	251
			-120	-93	-66	-38	-11	15	42	69	97	124	151
110	55.00	bu	18	48	78	108	138	168	198	228	257	287	317
			-81	-51	-21	8	38	68	98	128	158	187	217
120	60.00	bu	58	90	123	155	188	221	253	286	318	351	384
			-41	-9	23	56	88	121	153	186	219	251	284
130	65.00	bu	97	132	168	203	238	274	309	344	380	415	450
			-2	32	68	103	138	174	209	244	280	315	350
140	70.00	bu	136	174	212	250	288	326	364	403	441	479	517
			36	74	112	150	189	227	265	303	341	379	417
150	75.00	bu	175	216	257	298	339	379	420	461	502	542	583
			76	116	157	198	239	279	320	361	402	443	483

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 2024 input prices..

Table 5.A Estimated costs per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	2.0000	16.10	
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.6600	19.21	
Potash (60% K2O)	cwt	27.09	1.0000	27.09	
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	64.0000	7.68	
2,4-D Amine 4	pt	2.23	2.0000	4.46	
Boundary	pt	10.19	2.0000	20.38	
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	
Enlist Duo	pt	6.89	3.5000	24.12	
Dual Magnum	pt	10.11	1.0000	10.11	
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	
HAULING					
Haul Soybeans	bu	0.29	43.0000	12.47	
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	
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	18.69	0.1764	3.30	
Harvesters	hour	18.69	0.0851	1.59	
Self-Propelled	hour	18.69	0.0352	0.66	
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	
Self-Propelled	hour	9.06	0.0176	0.15	
UNALLOCATED LABOR	hour	18.67	0.2671	4.99	
DIESEL FUEL					
Tractors	gal	2.86	2.7243	7.79	
Harvesters	gal	2.86	1.4243	4.07	
Self-Propelled	gal	2.86	0.4490	1.29	
REPAIR & MAINTENANCE					
Implements	acre	7.02	1.0000	7.02	
Tractors	acre	2.16	1.0000	2.16	
Harvesters	acre	4.77	1.0000	4.77	
Self-Propelled	acre	0.66	1.0000	0.66	
INTEREST ON OP. CAP.	acre	14.15	1.0000	14.15	
TOTAL DIRECT EXPENSES				311.63	
FIXED EXPENSES					
Implements	acre	18.75	1.0000	18.75	
Tractors	acre	16.72	1.0000	16.72	
Harvesters	acre	22.85	1.0000	22.85	
Self-Propelled	acre	5.28	1.0000	5.28	
TOTAL FIXED EXPENSES				63.60	
TOTAL SPECIFIED EXPENSES				375.23	

Note: Cost of production estimates are based on 2024 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 5.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	43.0000	467.41	_____
TOTAL INCOME				467.41	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.10	1.0000	16.10	_____
HARVEST AIDS	acre	5.12	1.0000	5.12	_____
FERTILIZERS	acre	46.30	1.0000	46.30	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	76.99	1.0000	76.99	_____
INSECTICIDES	acre	5.06	1.0000	5.06	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	12.47	1.0000	12.47	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.2968	5.55	_____
UNALLOCATED LABOR	hour	18.67	0.2671	4.99	_____
DIESEL FUEL	gal	2.86	4.5978	13.15	_____
REPAIR & MAINTENANCE	acre	14.61	1.0000	14.61	_____
INTEREST ON OP. CAP.	acre	14.15	1.0000	14.15	_____
TOTAL DIRECT EXPENSES				311.63	_____
RETURNS ABOVE DIRECT EXPENSES				155.78	_____
TOTAL FIXED EXPENSES				63.60	_____
TOTAL SPECIFIED EXPENSES				375.23	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				92.18	_____

Note: Cost of production estimates are based on 2024 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 5.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

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					32.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.29	0.26	0.36	0.26

Note: Cost of production estimates are based on 2024 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 5.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST 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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	19.21					1.58	20.79		20.79
Potash (60% K2O)	cwt	27.09					2.23	29.32		29.32
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
App by Air (5 gal)	appl	8.05					0.39	8.44		8.44
Glyphosate 3lbs a.e	oz	3.84					0.18	4.02		4.02
2,4-D Amine 4	pt	4.46					0.21	4.67		4.67
Plant - Folding	16R-30		2.08	3.94	2.10		0.33	8.45	12.58	21.03
Soybean Enlist E3	lb	51.50					2.12	53.62		53.62
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Enlist Duo	pt	24.12					0.83	24.95		24.95
Dual Magnum	pt	10.11					0.35	10.46		10.46
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.02	1.14	1.76	2.90
Acephate 90SP	lb	5.06					0.07	5.13		5.13
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	12.47					0.09	12.56		12.56
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		258.60	13.15	14.61	11.12	0.00	14.15	311.63	63.60	375.23

Note: Cost of production estimates are based on 2024 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 5.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

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	467.41
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	8.05	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00
FERTILIZERS	46.30	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.30	30.62	38.07	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	5.06	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	51.50	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	9.00	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	12.47
CUSTOM LIME	17.11	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	3.83	0.00	0.00	0.00	0.00	0.00	2.10	0.94	0.00	0.00	0.47	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.77	0.00	0.00	0.00	0.00	0.00	2.08	0.86	0.00	0.00	0.43	5.01
REPAIR & MAINTENANCE	3.55	0.00	0.00	0.00	0.00	0.00	3.94	0.44	0.00	0.00	0.22	6.46
INTEREST ON OP. CAP.	7.23	0.00	0.00	0.00	0.00	0.78	4.05	1.61	0.00	0.00	0.28	0.20
TOTAL DIRECT EXPENSES	95.12	0.00	0.00	0.00	0.00	17.13	102.75	48.42	0.00	0.00	20.29	27.92
NET INCOME	-95.12	0.00	0.00	0.00	0.00	-17.13	-102.75	-48.42	0.00	0.00	-20.29	439.49
NET INCOME TO DATE	-95.12	-95.12	-95.12	-95.12	-95.12	-112.25	-215.00	-263.42	-263.42	-263.42	-283.71	155.78

Note: Cost of production estimates are based on 2024 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 5.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-130	-118	-106	-95	-83	-71	-59	-48	-36	-24	-13
			-193	-181	-170	-158	-146	-135	-123	-111	-100	-88	-76
60	25.80	bu	-96	-82	-68	-54	-40	-26	-12	1	15	29	43
			-159	-145	-131	-117	-103	-89	-75	-61	-47	-33	-19
70	30.10	bu	-62	-46	-29	-13	2	19	35	52	68	84	101
			-126	-109	-93	-76	-60	-44	-27	-11	4	21	37
80	34.40	bu	-28	-9	8	27	46	64	83	102	120	139	158
			-92	-73	-54	-36	-17	1	19	38	57	75	94
90	38.70	bu	5	26	47	68	89	110	131	152	173	194	215
			-58	-37	-16	4	25	46	67	88	109	130	151
100	43.00	bu	38	62	85	109	132	155	179	202	225	249	272
			-24	-1	22	45	68	92	115	138	162	185	209
110	47.30	bu	72	98	124	149	175	201	226	252	278	304	329
			9	34	60	86	111	137	163	189	214	240	266
120	51.60	bu	106	134	162	190	218	246	274	302	330	358	386
			42	70	99	127	155	183	211	239	267	295	323
130	55.90	bu	140	170	201	231	261	292	322	352	383	413	444
			76	107	137	167	198	228	259	289	319	350	380
140	60.20	bu	174	206	239	272	305	337	370	403	435	468	501
			110	143	175	208	241	274	306	339	372	404	437
150	64.50	bu	207	242	278	313	348	383	418	453	488	523	558
			144	179	214	249	284	319	354	389	424	459	494

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 2024 input prices.

Table 6.A Estimated costs per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	1.0000	8.05	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.6600	19.21	_____
Potash (60% K2O)	cwt	27.09	1.0000	27.09	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	64.0000	7.68	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.32	64.0000	20.48	_____
Boundary	pt	10.19	2.0000	20.38	_____
Enlist Duo	pt	6.89	3.5000	24.12	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Dimilin 2L	oz	2.45	1.0000	2.45	_____
Bifenthrin	oz	0.48	1.0500	0.50	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	40.0000	11.60	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.2407	4.50	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0587	1.10	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR	hour	18.69	0.3461	6.47	_____
DIESEL FUEL					
Tractors	gal	2.86	3.7171	10.63	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.7484	2.14	_____
REPAIR & MAINTENANCE					
Implements	acre	8.40	1.0000	8.40	_____
Tractors	acre	2.94	1.0000	2.94	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	1.10	1.0000	1.10	_____
INTEREST ON OP. CAP.	acre	12.62	1.0000	12.62	_____

TOTAL DIRECT EXPENSES				359.35	_____
FIXED EXPENSES					
Implements	acre	22.92	1.0000	22.92	_____
Tractors	acre	22.81	1.0000	22.81	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	8.80	1.0000	8.80	_____

TOTAL FIXED EXPENSES				77.38	_____

TOTAL SPECIFIED EXPENSES				436.73	_____

Note: Cost of production estimates are based on 2024 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 6.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	40.0000	434.80	_____
TOTAL INCOME				434.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.05	1.0000	8.05	_____
HARVEST AIDS	acre	5.12	1.0000	5.12	_____
FERTILIZERS	acre	46.30	1.0000	46.30	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	124.91	1.0000	124.91	_____
INSECTICIDES	acre	2.95	1.0000	2.95	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	11.60	1.0000	11.60	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.3846	7.19	_____
UNALLOCATED LABOR	hour	18.69	0.3461	6.47	_____
DIESEL FUEL	gal	2.86	5.8899	16.84	_____
REPAIR & MAINTENANCE	acre	17.21	1.0000	17.21	_____
INTEREST ON OP. CAP.	acre	12.62	1.0000	12.62	_____
TOTAL DIRECT EXPENSES				359.35	_____
RETURNS ABOVE DIRECT EXPENSES				75.45	_____
TOTAL FIXED EXPENSES				77.38	_____
TOTAL SPECIFIED EXPENSES				436.73	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-1.93	_____

Note: Cost of production estimates are based on 2024 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 6.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.01
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					32.0000				
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					32.0000				
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 2024 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 6.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
		dollars								
Soil Test	acre	3.33					0.02	3.35		3.35
Lime (Spread)	ton	17.11					0.12	17.23		17.23
Disk Harrow	32'		2.71	2.24	2.18		0.05	7.18	9.76	16.94
Field Cultivate Fld	32'		2.06	1.31	1.65		0.03	5.05	8.34	13.39
Bed/Lister-Roll-Fo	16R-30		2.68	1.67	2.15		0.04	6.54	8.84	15.38
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.07	1.19	1.76	2.95
Glyphosate 3lbs a.e	oz	3.84					0.24	4.08		4.08
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Custom Apply Fert	acre	9.00					0.43	9.43		9.43
Phosphorus(46% P2O5)	cwt	19.21					0.92	20.13		20.13
Potash (60% K2O)	cwt	27.09					1.30	28.39		28.39
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Fierce	oz	27.13					1.31	28.44		28.44
Gramoxone SL 2.0	oz	10.24					0.49	10.73		10.73
Surfactant	pt	1.32					0.06	1.38		1.38
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Enlist E3	lb	51.50					2.12	53.62		53.62
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Enlist Duo	pt	24.12					0.99	25.11		25.11
Dual Magnum	pt	10.11					0.42	10.53		10.53
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Sprayer 600-825gal	90' 250hp		0.21	0.11	0.24		0.02	0.58	0.88	1.46
Dimilin 2L	oz	2.45					0.07	2.52		2.52
Surfactant	pt	0.17						0.17		0.17
Sprayer 600-825gal	90' 250hp		0.21	0.11	0.24		0.01	0.57	0.88	1.45
Bifenthrin	oz	0.50					0.01	0.51		0.51
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	11.60					0.08	11.68		11.68
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		298.30	16.84	17.21	14.38	0.00	12.62	359.35	77.38	436.73

Note: Cost of production estimates are based on 2024 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 6.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

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	434.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.05	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	46.30	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	18.85	0.00	37.37	64.85	3.84	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	2.45	0.50	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	51.50	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	9.00	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	11.60
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.11
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	0.47	0.00	0.47	2.73	0.47	0.24	0.24	0.00	9.76
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	0.43	0.00	0.43	2.67	0.43	0.21	0.21	0.00	12.46
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.22	0.00	0.22	4.65	0.22	0.11	0.11	0.00	11.68
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.32	0.00	4.56	5.82	0.17	0.09	0.02	0.19	0.45
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	22.61	0.00	99.67	147.18	5.13	3.27	1.08	14.02	66.39
NET INCOME	0.00	0.00	0.00	-22.61	0.00	-99.67	-147.18	-5.13	-3.27	-1.08	-14.02	368.41
NET INCOME TO DATE	0.00	0.00	0.00	-22.61	-22.61	-122.28	-269.46	-274.59	-277.86	-278.94	-292.96	75.45

Note: Cost of production estimates are based on 2024 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 6.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-190	-179	-168	-157	-146	-136	-125	-114	-103	-92	-81
			-267	-256	-246	-235	-224	-213	-202	-191	-180	-170	-159
60	24.00	bu	-159	-145	-132	-119	-106	-93	-80	-67	-54	-41	-28
			-236	-223	-210	-197	-184	-171	-158	-145	-132	-119	-105
70	28.00	bu	-127	-112	-97	-81	-66	-51	-36	-21	-5	9	24
			-204	-189	-174	-159	-144	-128	-113	-98	-83	-67	-52
80	32.00	bu	-96	-78	-61	-43	-26	-9	8	25	43	60	77
			-173	-156	-138	-121	-103	-86	-69	-51	-34	-16	0
90	36.00	bu	-64	-45	-25	-5	13	33	52	72	91	111	130
			-142	-122	-102	-83	-63	-44	-24	-5	14	34	53
100	40.00	bu	-33	-11	10	31	53	75	97	118	140	162	184
			-110	-88	-67	-45	-23	-1	19	41	63	85	106
110	44.00	bu	-1	22	46	69	93	117	141	165	189	213	237
			-79	-55	-31	-7	16	40	64	88	112	136	159
120	48.00	bu	29	55	81	107	133	160	186	212	238	264	290
			-47	-21	4	30	56	82	108	134	160	187	213
130	52.00	bu	61	89	117	145	174	202	230	258	287	315	343
			-16	11	40	68	96	125	153	181	209	238	266
140	56.00	bu	92	122	153	183	214	244	275	305	336	366	396
			15	45	76	106	136	167	197	228	258	289	319
150	60.00	bu	123	156	189	221	254	287	319	352	384	417	450
			46	79	111	144	177	209	242	274	307	340	372

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 2024 input prices.

Table 7.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.0000	24.15	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Enlist Duo	pt	6.89	3.5000	24.12	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
Prevathon	oz	1.47	14.0000	20.58	_____
Bifenthrin	oz	0.48	6.4000	3.07	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.03	50.0000	51.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	25.0000	7.25	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	0.3333	3.33	_____
OPERATOR LABOR					
Tractors	hour	18.69	0.0720	1.35	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0117	0.22	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL					
Tractors	gal	2.86	1.1121	3.18	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.1496	0.43	_____
REPAIR & MAINTENANCE					
Implements	acre	5.24	1.0000	5.24	_____
Tractors	acre	0.88	1.0000	0.88	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.22	1.0000	0.22	_____
INTEREST ON OP. CAP.	acre	13.51	1.0000	13.51	_____
TOTAL DIRECT EXPENSES				330.78	_____
FIXED EXPENSES					
Implements	acre	11.97	1.0000	11.97	_____
Tractors	acre	6.82	1.0000	6.82	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	1.76	1.0000	1.76	_____
TOTAL FIXED EXPENSES				43.40	_____
TOTAL SPECIFIED EXPENSES				374.18	_____

Note: Cost of production estimates are based on 2024 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 7.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	25.0000	271.75	_____
TOTAL INCOME				271.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.15	1.0000	24.15	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	64.85	1.0000	64.85	_____
INSECTICIDES	acre	36.71	1.0000	36.71	_____
SEED/PLANTS	acre	51.50	1.0000	51.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	7.25	1.0000	7.25	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.1689	3.16	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL	gal	2.86	2.6861	7.68	_____
REPAIR & MAINTENANCE	acre	11.11	1.0000	11.11	_____
INTEREST ON OP. CAP.	acre	13.51	1.0000	13.51	_____
TOTAL DIRECT EXPENSES				330.78	_____
RETURNS ABOVE DIRECT EXPENSES				-59.03	_____
TOTAL FIXED EXPENSES				43.40	_____
TOTAL SPECIFIED EXPENSES				374.18	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-102.43	_____

Note: Cost of production estimates are based on 2024 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 7.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

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					32.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2024 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 7.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.23		0.31	9.21	14.00	23.21
Soybean Enlist E3	lb	51.50					1.77	53.27		53.27
CruiserMaxx Vibrance	oz	7.14					0.25	7.39		7.39
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	20.38					0.70	21.08		21.08
Gramoxone SL 2.0	oz	10.24					0.35	10.59		10.59
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.46		0.03	1.14	1.76	2.90
Enlist Duo	pt	24.12					0.66	24.78		24.78
Dual Magnum	pt	10.11					0.28	10.39		10.39
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Prevathon	oz	20.58					0.42	21.00		21.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.07					0.06	3.13		3.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.07	5.90	2.96		0.09	13.02	24.96	37.98
Haul Soybeans	bu	7.25					0.05	7.30		7.30
Grain Cart Soybean	700 bu		0.94	0.56	0.74		0.02	2.26	2.68	4.94
TOTALS		292.09	7.68	11.11	6.39	0.00	13.51	330.78	43.40	374.18

Note: Cost of production estimates are based on 2024 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 7.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

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	271.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.10	8.05	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.62	34.23	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.71	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.50	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	9.00	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	7.25
CUSTOM LIME	17.11	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	2.23	0.46	0.00	0.00	3.70
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	2.24	0.43	0.00	0.00	5.01
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	0.22	0.00	0.00	6.46
INTEREST ON OP. CAP.	7.48	0.00	0.00	0.00	0.00	0.00	0.27	3.48	0.97	0.93	0.22	0.16
TOTAL DIRECT EXPENSES	98.27	0.00	0.00	0.00	0.00	0.00	6.77	104.51	36.31	46.07	16.27	22.58
NET INCOME	-98.27	0.00	0.00	0.00	0.00	0.00	-6.77	-104.51	-36.31	-46.07	-16.27	249.17
NET INCOME TO DATE	-98.27	-98.27	-98.27	-98.27	-98.27	-98.27	-105.04	-209.55	-245.86	-291.93	-308.20	-59.03

Note: Cost of production estimates are based on 2024 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 7.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-225	-218	-211	-204	-198	-191	-184	-177	-170	-164	-157
			-268	-261	-255	-248	-241	-234	-227	-221	-214	-207	-200
60	15.00	bu	-205	-197	-189	-181	-172	-164	-156	-148	-140	-132	-124
			-248	-240	-232	-224	-216	-208	-200	-191	-183	-175	-167
70	17.50	bu	-185	-176	-166	-157	-147	-138	-128	-119	-109	-100	-90
			-229	-219	-210	-200	-191	-181	-172	-162	-153	-143	-134
80	20.00	bu	-166	-155	-144	-133	-122	-111	-101	-90	-79	-68	-57
			-209	-198	-187	-177	-166	-155	-144	-133	-122	-111	-100
90	22.50	bu	-146	-134	-122	-109	-97	-85	-73	-61	-48	-36	-24
			-190	-177	-165	-153	-141	-128	-116	-104	-92	-79	-67
100	25.00	bu	-126	-113	-99	-86	-72	-59	-45	-31	-18	-4	8
			-170	-156	-143	-129	-116	-102	-88	-75	-61	-48	-34
110	27.50	bu	-107	-92	-77	-62	-47	-32	-17	-2	12	27	42
			-150	-135	-120	-105	-90	-75	-61	-46	-31	-16	-1
120	30.00	bu	-87	-71	-55	-38	-22	-6	10	26	42	59	75
			-131	-114	-98	-82	-65	-49	-33	-16	-0	15	31
130	32.50	bu	-68	-50	-32	-15	2	20	37	55	73	90	108
			-111	-93	-76	-58	-40	-23	-5	12	29	47	65
140	35.00	bu	-48	-29	-10	8	27	46	65	84	103	122	141
			-91	-72	-53	-34	-15	3	22	41	60	79	98
150	37.50	bu	-28	-8	12	32	52	73	93	113	134	154	175
			-72	-51	-31	-10	9	29	50	70	90	111	131

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 2024 input prices.

Table 8.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	96.0000	11.52	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
Zidua WG	oz	7.30	1.5000	10.95	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	42.0000	12.18	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.2209	4.13	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0235	0.44	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	18.67	0.2966	5.54	_____
DIESEL FUEL					
Tractors	gal	2.86	3.4114	9.75	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.2993	0.86	_____
REPAIR & MAINTENANCE					
Implements	acre	7.55	1.0000	7.55	_____
Tractors	acre	2.70	1.0000	2.70	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.44	1.0000	0.44	_____
INTEREST ON OP. CAP.	acre	17.97	1.0000	17.97	_____

TOTAL DIRECT EXPENSES				397.61	_____
FIXED EXPENSES					
Implements	acre	20.11	1.0000	20.11	_____
Tractors	acre	20.93	1.0000	20.93	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	3.52	1.0000	3.52	_____

TOTAL FIXED EXPENSES				67.41	_____

TOTAL SPECIFIED EXPENSES				465.02	_____

Note: Cost of production estimates are based on 2024 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 8.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	42.0000	456.54	_____
TOTAL INCOME				456.54	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
HARVEST AIDS	acre	10.16	1.0000	10.16	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	102.36	1.0000	102.36	_____
INSECTICIDES	acre	13.06	1.0000	13.06	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	12.18	1.0000	12.18	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	0.0625	0.56	_____
OPERATOR LABOR	hour	18.69	0.3295	6.16	_____
UNALLOCATED LABOR	hour	18.67	0.2966	5.54	_____
DIESEL FUEL	gal	2.86	5.1352	14.68	_____
REPAIR & MAINTENANCE	acre	15.46	1.0000	15.46	_____
INTEREST ON OP. CAP.	acre	17.97	1.0000	17.97	_____
TOTAL DIRECT EXPENSES				397.61	_____
RETURNS ABOVE DIRECT EXPENSES				58.93	_____
TOTAL FIXED EXPENSES				67.41	_____
TOTAL SPECIFIED EXPENSES				465.02	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-8.48	_____

Note: Cost of production estimates are based on 2024 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 8.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

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				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
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	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		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					32.0000				
Surfactant	pt					0.4000				
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				
Engenia	oz					12.8000				
Dual Magnum	pt					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				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					42.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.32	0.30	0.39	0.29

Note: Cost of production estimates are based on 2024 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 8.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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
Subsoiler	3 shank		1.80	0.58	1.45		0.32	4.15	4.15	8.30
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
App by Air (5 gal)	appl	8.05					0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	3.84					0.21	4.05		4.05
2,4-D Amine 4	pt	4.46					0.25	4.71		4.71
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Seed RR2X	lb	58.00					2.39	60.39		60.39
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Engenia	oz	13.57					0.47	14.04		14.04
Dual Magnum	pt	10.11					0.35	10.46		10.46
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Zidua WG	oz	10.95					0.38	11.33		11.33
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Acephate 90SP	lb	5.06					0.07	5.13		5.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	12.18					0.08	12.26		12.26
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		337.24	14.68	15.46	12.26	0.00	17.97	397.61	67.41	465.02

Note: Cost of production estimates are based on 2024 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 8.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

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	456.54
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	0.00	24.15	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	29.43	0.00	30.62	42.31	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	13.06	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	9.00	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	12.18
CUSTOM LIME	17.11	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
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	5.28	0.00	0.00	0.00	0.00	0.00	2.26	0.94	0.00	0.00	0.00	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	6.57	0.00	0.00	0.00	0.00	0.00	2.24	0.86	0.00	0.00	0.00	5.01
REPAIR & MAINTENANCE	4.13	0.00	0.00	0.00	0.00	0.00	4.43	0.44	0.00	0.00	0.00	6.46
INTEREST ON OP. CAP.	8.80	0.00	0.00	0.00	2.14	0.00	4.42	1.76	0.00	0.00	0.66	0.19
TOTAL DIRECT EXPENSES	115.57	0.00	0.00	0.00	40.94	0.00	111.98	52.81	0.00	0.00	48.69	27.62
NET INCOME	-115.57	0.00	0.00	0.00	-40.94	0.00	-111.98	-52.81	0.00	0.00	-48.69	428.92
NET INCOME TO DATE	-115.57	-115.57	-115.57	-115.57	-156.51	-156.51	-268.49	-321.30	-321.30	-321.30	-369.99	58.93

Note: Cost of production estimates are based on 2024 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 8.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-220	-208	-197	-186	-174	-163	-151	-140	-128	-117	-106
			-287	-276	-264	-253	-242	-230	-219	-207	-196	-184	-173
60	25.20	bu	-187	-173	-159	-146	-132	-118	-105	-91	-77	-63	-50
			-254	-240	-227	-213	-199	-186	-172	-158	-145	-131	-117
70	29.40	bu	-154	-138	-122	-106	-90	-74	-58	-42	-26	-10	5
			-221	-205	-189	-173	-157	-141	-125	-109	-93	-77	-61
80	33.60	bu	-121	-102	-84	-66	-48	-29	-11	6	24	43	61
			-188	-170	-152	-133	-115	-97	-79	-60	-42	-24	-6
90	37.80	bu	-88	-67	-47	-26	-6	14	35	55	76	96	117
			-155	-135	-114	-93	-73	-52	-32	-11	8	29	49
100	42.00	bu	-55	-32	-9	13	36	58	81	104	127	150	173
			-122	-99	-76	-54	-31	-8	14	37	60	82	105
110	46.20	bu	-22	2	28	53	78	103	128	153	178	203	228
			-89	-64	-39	-14	10	35	61	86	111	136	161
120	50.40	bu	10	38	65	93	120	147	175	202	229	257	284
			-56	-29	-1	25	52	80	107	135	162	189	217
130	54.60	bu	43	73	103	132	162	192	221	251	281	310	340
			-23	6	35	65	95	124	154	184	213	243	273
140	58.80	bu	76	108	140	172	204	236	268	300	332	364	396
			9	41	73	105	137	169	201	233	265	297	329
150	63.00	bu	109	144	178	212	246	281	315	349	383	418	452
			42	76	110	145	179	213	247	282	316	350	384

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 2024 input prices.

Table 9.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	5.0000	40.25	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	96.0000	11.52	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
Zidua WG	oz	7.30	1.5000	10.95	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
IRRIGATION SUPPLIES					
Roll-Out Pipe	ft	0.24	33.0000	7.92	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	60.0000	17.40	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.3601	6.73	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0235	0.44	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	18.67	0.3512	6.56	_____
DIESEL FUEL					
Tractors	gal	2.86	5.0744	14.50	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.2993	0.86	_____
Roll-Out Pipe Irr.	gal	2.86	7.3316	20.97	_____
REPAIR & MAINTENANCE					
Implements	acre	8.73	1.0000	8.73	_____
Tractors	acre	4.03	1.0000	4.03	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.44	1.0000	0.44	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	20.37	1.0000	20.37	_____
TOTAL DIRECT EXPENSES				483.84	_____
FIXED EXPENSES					
Implements	acre	25.21	1.0000	25.21	_____
Tractors	acre	31.32	1.0000	31.32	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	3.52	1.0000	3.52	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				157.37	_____
TOTAL SPECIFIED EXPENSES				641.21	_____

Note: Cost of production estimates are based on 2024 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 9.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	60.0000	652.20	_____
TOTAL INCOME				652.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.25	1.0000	40.25	_____
HARVEST AIDS	acre	10.16	1.0000	10.16	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	27.14	1.0000	27.14	_____
HERBICIDES	acre	102.36	1.0000	102.36	_____
INSECTICIDES	acre	13.06	1.0000	13.06	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	17.40	1.0000	17.40	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	0.0625	0.56	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	18.69	0.4687	8.76	_____
UNALLOCATED LABOR	hour	18.67	0.3512	6.56	_____
DIESEL FUEL	gal	2.86	14.1298	40.40	_____
REPAIR & MAINTENANCE	acre	25.13	1.0000	25.13	_____
INTEREST ON OP. CAP.	acre	20.37	1.0000	20.37	_____
TOTAL DIRECT EXPENSES				483.84	_____
RETURNS ABOVE DIRECT EXPENSES				168.36	_____
TOTAL FIXED EXPENSES				157.37	_____
TOTAL SPECIFIED EXPENSES				641.21	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				10.99	_____

Note: Cost of production estimates are based on 2024 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 9.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

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				
Subsoiler	3 shank	MFWD 300	0.204	0.20	Oct		0.04	0.04	0.04	0.03
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
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
App by Air (5 gal)	appl			1.00	Feb	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Select Max	pt					1.0000				
Valor SX	oz					2.0000				
Surfactant	pt					0.4000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Apr		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					32.0000				
Surfactant	pt					0.4000				
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				
Engenia	oz					12.8000				
Dual Magnum	pt					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				
Zidua WG	oz					1.5000				
App by Air (5 gal)	appl			1.00	Jul	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				
Incidental Pest				1.00	Aug					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					60.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
Roll-Out Pipe Irr.	acre				Jul	1.0000	0.07	0.07	0.44	
TOTALS							0.46	0.44	0.89	0.35

Note: Cost of production estimates are based on 2024 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 9.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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
Subsoiler	3 shank		1.80	0.58	1.45		0.32	4.15	4.15	8.30
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
Bed/Lister-Roll-Fo	16R-30		2.68	1.67	2.15		0.54	7.04	8.84	15.88
App by Air (5 gal)	appl	8.05					0.44	8.49		8.49
Glyphosate 3lbs a.e	oz	3.84					0.21	4.05		4.05
2,4-D Amine 4	pt	4.46					0.25	4.71		4.71
Select Max	pt	15.01					0.83	15.84		15.84
Valor SX	oz	6.12					0.34	6.46		6.46
Surfactant	pt	1.32					0.07	1.39		1.39
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Seed RR2X	lb	58.00					2.39	60.39		60.39
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Engenia	oz	13.57					0.47	14.04		14.04
Dual Magnum	pt	10.11					0.35	10.46		10.46
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Zidua WG	oz	10.95					0.38	11.33		11.33
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Miravis Top	oz	20.00					0.41	20.41		20.41
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Acephate 90SP	lb	5.06					0.07	5.13		5.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	17.40					0.12	17.52		17.52
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
Roll-Out Pipe Irr.	acre	7.92	23.04	8.00	4.77		1.23	44.96	81.12	126.08
TOTALS		378.76	40.40	25.13	19.18	0.00	20.37	483.84	157.37	641.21

Note: Cost of production estimates are based on 2024 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 9.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

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	652.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	8.05	24.15	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	20.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	29.43	0.00	30.62	42.31	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	13.06	0.00
IRRIGATION SUPPLIES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.33	0.66	0.00
CUSTOM FERTILIZE	9.00	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	17.40
CUSTOM LIME	17.11	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
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	1.55	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	8.14	0.00	0.00	0.00	0.00	0.00	2.26	1.17	2.91	0.23	0.00	4.47
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	10.31	0.00	0.00	0.00	0.00	0.00	2.24	0.86	14.52	6.99	0.00	5.48
REPAIR & MAINTENANCE	6.22	0.00	0.00	0.00	0.00	0.00	4.43	0.44	5.98	1.40	0.00	6.66
INTEREST ON OP. CAP.	9.52	0.00	0.00	0.00	2.14	0.00	4.42	1.77	0.86	0.76	0.66	0.24
TOTAL DIRECT EXPENSES	124.98	0.00	0.00	0.00	40.94	0.00	111.98	53.05	32.19	37.76	48.69	34.25
NET INCOME	-124.98	0.00	0.00	0.00	-40.94	0.00	-111.98	-53.05	-32.19	-37.76	-48.69	617.95
NET INCOME TO DATE	-124.98	-124.98	-124.98	-124.98	-165.92	-165.92	-277.90	-330.95	-363.14	-400.90	-449.59	168.36

Note: Cost of production estimates are based on 2024 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 9.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-230	-214	-197	-181	-165	-148	-132	-116	-100	-83	-67
			-387	-371	-355	-338	-322	-306	-290	-273	-257	-241	-224
60	36.00	bu	-183	-163	-144	-124	-105	-85	-65	-46	-26	-7	12
			-340	-321	-301	-282	-262	-242	-223	-203	-184	-164	-145
70	42.00	bu	-136	-113	-90	-67	-44	-22	0	23	46	69	92
			-293	-270	-247	-225	-202	-179	-156	-133	-110	-88	-65
80	48.00	bu	-89	-62	-36	-10	15	41	67	93	119	145	171
			-246	-220	-194	-168	-142	-115	-89	-63	-37	-11	14
90	54.00	bu	-41	-12	16	46	75	104	134	163	192	222	251
			-199	-169	-140	-111	-81	-52	-23	6	35	64	94
100	60.00	bu	5	37	70	103	135	168	200	233	266	298	331
			-152	-119	-86	-54	-21	10	43	76	108	141	174
110	66.00	bu	52	88	124	160	195	231	267	303	339	375	411
			-104	-69	-33	2	38	74	110	146	182	217	253
120	72.00	bu	99	138	177	217	256	295	334	373	412	451	490
			-57	-18	20	59	98	137	177	216	255	294	333
130	78.00	bu	146	189	231	273	316	358	401	443	485	528	570
			-10	31	74	116	159	201	243	286	328	370	413
140	84.00	bu	193	239	285	330	376	422	467	513	559	604	650
			36	82	127	173	219	264	310	356	401	447	493
150	90.00	bu	241	290	338	387	436	485	534	583	632	681	730
			83	132	181	230	279	328	377	426	475	523	572

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 2024 input prices.

Table 10.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
Sodium Chlorate 5L	gal	8.40	0.6000	5.04	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	96.0000	11.52	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	53.0000	15.37	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.3362	6.27	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0352	0.66	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3125	2.82	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR	hour	18.69	0.2284	4.27	_____
DIESEL FUEL					
Tractors	gal	2.86	3.8348	10.98	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.4490	1.29	_____
Contour Flood Irr.	gal	2.86	10.9974	31.44	_____
REPAIR & MAINTENANCE					
Implements	acre	7.09	1.0000	7.09	_____
Tractors	acre	3.02	1.0000	3.02	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.66	1.0000	0.66	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	19.31	1.0000	19.31	_____

TOTAL DIRECT EXPENSES				460.76	_____
FIXED EXPENSES					
Implements	acre	18.03	1.0000	18.03	_____
Tractors	acre	23.26	1.0000	23.26	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	5.28	1.0000	5.28	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____

TOTAL FIXED EXPENSES				128.16	_____

TOTAL SPECIFIED EXPENSES				588.92	_____

Note: Cost of production estimates are based on 2024 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 10.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	53.0000	576.11	_____
TOTAL INCOME				576.11	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
HARVEST AIDS	acre	10.16	1.0000	10.16	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	27.14	1.0000	27.14	_____
HERBICIDES	acre	86.95	1.0000	86.95	_____
INSECTICIDES	acre	13.06	1.0000	13.06	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	15.37	1.0000	15.37	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	18.69	0.4566	8.52	_____
UNALLOCATED LABOR	hour	18.69	0.2284	4.27	_____
DIESEL FUEL	gal	2.86	16.7057	47.78	_____
REPAIR & MAINTENANCE	acre	29.85	1.0000	29.85	_____
INTEREST ON OP. CAP.	acre	19.31	1.0000	19.31	_____
TOTAL DIRECT EXPENSES				460.76	_____
RETURNS ABOVE DIRECT EXPENSES				115.35	_____
TOTAL FIXED EXPENSES				128.16	_____
TOTAL SPECIFIED EXPENSES				588.92	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-12.81	_____

Note: Cost of production estimates are based on 2024 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 10.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Soil Test	acre			0.33	Nov	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Nov		0.06	0.06	0.06	0.05
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				
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				
Valor SX	oz					2.0000				
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				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					32.0000				
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				
App by Air (5 gal)	appl			1.00	Jul	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				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Sodium Chlorate 5L	gal					0.6000				
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					53.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
Contour Flood Irr.	acre				Jul	1.0000	0.20	0.20	0.51	
TOTALS							0.45	0.42	0.83	0.22

Note: Cost of production estimates are based on 2024 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 10.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST: 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
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Lime (Spread)	ton	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.07	1.19	1.76	2.95
Glyphosate 3lbs a.e	oz	3.84					0.24	4.08		4.08
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Valor SX	oz	6.12					0.38	6.50		6.50
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Seed RR2X	lb	58.00					2.39	60.39		60.39
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Inoculant -Soybean	acre	1.55					0.06	1.61		1.61
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Glyphosate 3lbs a.e	oz	3.84					0.16	4.00		4.00
Engenia	oz	13.57					0.56	14.13		14.13
Dual Magnum	pt	10.11					0.42	10.53		10.53
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
App by Air (5 gal)	appl	8.05					0.22	8.27		8.27
Miravis Top	oz	20.00					0.55	20.55		20.55
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Sodium Chlorate 5L	gal	5.04					0.07	5.11		5.11
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	15.37					0.11	15.48		15.48
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
Contour Flood Irr.	acre	2.25	36.53	16.06	6.59		1.74	63.17	71.48	134.65
TOTALS		347.60	47.78	29.85	16.22	0.00	19.31	460.76	128.16	588.92

Note: Cost of production estimates are based on 2024 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 10.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

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	576.11
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.05	8.05	16.10	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.16	0.00
FERTILIZERS	61.35	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	7.14	0.00	20.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	24.97	0.00	0.00	58.14	3.84	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	5.06	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	9.00	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	15.37
SURVEY & MARK LEVEES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
CUSTOM LIME	17.11	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	1.55	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	2.18	0.00	0.00	0.47	0.00	0.00	3.18	2.64	1.87	1.87	0.23	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	2.71	0.00	0.00	0.43	0.00	0.00	2.67	12.77	11.94	11.94	0.31	5.01
REPAIR & MAINTENANCE	2.24	0.00	0.00	0.22	0.00	0.00	4.65	9.58	3.30	3.30	0.10	6.46
INTEREST ON OP. CAP.	8.07	0.00	0.00	1.70	0.00	0.00	5.90	1.07	1.25	0.61	0.49	0.22
TOTAL DIRECT EXPENSES	105.99	0.00	0.00	29.11	0.00	0.00	149.05	32.15	46.74	30.83	36.05	30.84
NET INCOME	-105.99	0.00	0.00	-29.11	0.00	0.00	-149.05	-32.15	-46.74	-30.83	-36.05	545.27
NET INCOME TO DATE	-105.99	-105.99	-105.99	-135.10	-135.10	-135.10	-284.15	-316.30	-363.04	-393.87	-429.92	115.35

Note: Cost of production estimates are based on 2024 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 10.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-236	-222	-208	-193	-179	-164	-150	-136	-121	-107	-92
			-365	-350	-336	-321	-307	-293	-278	-264	-249	-235	-221
60	31.80	bu	-195	-178	-160	-143	-126	-108	-91	-74	-57	-39	-22
			-323	-306	-288	-271	-254	-237	-219	-202	-185	-167	-150
70	37.10	bu	-153	-133	-113	-93	-73	-52	-32	-12	7	27	47
			-281	-261	-241	-221	-201	-180	-160	-140	-120	-100	-80
80	42.40	bu	-111	-88	-65	-42	-19	3	26	49	72	95	118
			-240	-217	-194	-171	-147	-124	-101	-78	-55	-32	-9
90	47.70	bu	-70	-44	-18	7	33	59	85	111	137	162	188
			-198	-172	-146	-120	-94	-68	-42	-17	8	34	60
100	53.00	bu	-28	0	28	57	86	115	144	172	201	230	259
			-156	-128	-99	-70	-41	-12	15	44	73	102	131
110	58.30	bu	12	44	76	108	139	171	203	234	266	298	329
			-115	-83	-51	-20	11	43	74	106	138	169	201
120	63.60	bu	54	89	123	158	192	227	262	296	331	365	400
			-73	-38	-4	30	64	99	133	168	203	237	272
130	68.90	bu	96	133	171	208	246	283	320	358	395	433	470
			-31	5	43	80	117	155	192	230	267	305	342
140	74.20	bu	137	178	218	258	299	339	379	420	460	500	541
			9	50	90	130	171	211	251	292	332	372	413
150	79.50	bu	179	222	266	309	352	395	438	482	525	568	611
			51	94	137	181	224	267	310	353	397	440	483

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 2024 input prices.

Table 11.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, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	4.0000	32.20	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
Miravis Top	oz	1.46	13.7000	20.00	_____
HERBICIDES					
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Glyphosate 3lbs a.e	oz	0.12	32.0000	3.84	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
Prevathon	oz	1.47	14.0000	20.58	_____
Bifenthrin	oz	0.48	6.4000	3.07	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	50.0000	14.50	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.0720	1.35	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0117	0.22	_____
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	18.72	0.1452	2.72	_____
DIESEL FUEL					
Tractors	gal	2.86	1.1121	3.18	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.1496	0.43	_____
1/2-mi Pivot Irr.	gal	2.86	16.4057	46.93	_____
REPAIR & MAINTENANCE					
Implements	acre	5.24	1.0000	5.24	_____
Tractors	acre	0.88	1.0000	0.88	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.22	1.0000	0.22	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	15.89	1.0000	15.89	_____
TOTAL DIRECT EXPENSES				427.98	_____
FIXED EXPENSES					
Implements	acre	11.97	1.0000	11.97	_____
Tractors	acre	6.82	1.0000	6.82	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	1.76	1.0000	1.76	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				99.85	_____
TOTAL SPECIFIED EXPENSES				527.83	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	50.0000	543.50	_____
TOTAL INCOME				543.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.20	1.0000	32.20	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	27.14	1.0000	27.14	_____
HERBICIDES	acre	58.14	1.0000	58.14	_____
INSECTICIDES	acre	36.71	1.0000	36.71	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	14.50	1.0000	14.50	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.1689	3.16	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL	gal	2.86	19.0919	54.61	_____
REPAIR & MAINTENANCE	acre	23.11	1.0000	23.11	_____
INTEREST ON OP. CAP.	acre	15.89	1.0000	15.89	_____
TOTAL DIRECT EXPENSES				427.98	_____
RETURNS ABOVE DIRECT EXPENSES				115.52	_____
TOTAL FIXED EXPENSES				99.85	_____
TOTAL SPECIFIED EXPENSES				527.83	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.67	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					32.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt $8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS							0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2025

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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.23		0.31	9.21	14.00	23.21
Soybean Seed RR2X	lb	58.00					1.99	59.99		59.99
CruiserMaxx Vibrance	oz	7.14					0.25	7.39		7.39
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	20.38					0.70	21.08		21.08
Gramoxone SL 2.0	oz	10.24					0.35	10.59		10.59
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.46		0.03	1.14	1.76	2.90
Glyphosate 3lbs a.e	oz	3.84					0.11	3.95		3.95
Engenia	oz	13.57					0.37	13.94		13.94
Dual Magnum	pt	10.11					0.28	10.39		10.39
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Miravis Top	oz	20.00					0.41	20.41		20.41
Surfactant	pt	0.33					0.01	0.34		0.34
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Prevathon	oz	20.58					0.42	21.00		21.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.07					0.06	3.13		3.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.07	5.90	2.96		0.09	13.02	24.96	37.98
Haul Soybeans	bu	14.50					0.10	14.60		14.60
Grain Cart Soybean	700 bu		0.94	0.56	0.74		0.02	2.26	2.68	4.94
1/2-mi Pivot Irr.	acre		46.93	12.00	0.47		1.70	61.10	56.45	117.55
TOTALS		327.51	54.61	23.11	6.86	0.00	15.89	427.98	99.85	527.83

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2025

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	543.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.15	8.05	0.00
FERTILIZERS	61.35	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	7.14	0.00	20.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.62	27.52	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.71	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	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	9.00	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	14.50
CUSTOM LIME	17.11	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	2.27	0.51	0.04	0.00	3.70
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	16.32	19.20	14.08	0.00	5.01
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84	1.13	0.68	0.00	6.46
INTEREST ON OP. CAP.	7.48	0.00	0.00	0.00	0.00	0.00	0.28	4.55	1.33	1.82	0.22	0.21
TOTAL DIRECT EXPENSES	98.27	0.00	0.00	0.00	0.00	0.00	7.12	136.61	49.69	90.14	16.27	29.88
NET INCOME	-98.27	0.00	0.00	0.00	0.00	0.00	-7.12	-136.61	-49.69	-90.14	-16.27	513.62
NET INCOME TO DATE	-98.27	-98.27	-98.27	-98.27	-98.27	-98.27	-105.39	-242.00	-291.69	-381.83	-398.10	115.52

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	25.00	bu	-216	-203	-189	-176	-162	-148	-135	-121	-108	-94	-80
			-316	-303	-289	-275	-262	-248	-235	-221	-208	-194	-180
60	30.00	bu	-177	-161	-144	-128	-112	-96	-79	-63	-47	-30	-14
			-277	-261	-244	-228	-212	-195	-179	-163	-146	-130	-114
70	35.00	bu	-138	-119	-100	-81	-62	-43	-24	-5	13	32	51
			-238	-219	-200	-181	-162	-143	-123	-104	-85	-66	-47
80	40.00	bu	-98	-77	-55	-33	-12	9	31	53	74	96	118
			-198	-177	-155	-133	-111	-90	-68	-46	-24	-3	18
90	45.00	bu	-59	-35	-10	13	38	62	87	111	136	160	184
			-159	-135	-110	-86	-61	-37	-12	11	36	60	85
100	50.00	bu	-20	6	33	61	88	115	142	169	197	224	251
			-120	-93	-65	-38	-11	15	42	70	97	124	151
110	55.00	bu	18	48	78	108	138	168	198	228	258	287	317
			-80	-51	-21	8	38	68	98	128	158	188	218
120	60.00	bu	58	90	123	156	188	221	253	286	319	351	384
			-41	-8	23	56	88	121	154	186	219	251	284
130	65.00	bu	97	132	168	203	238	274	309	344	380	415	450
			-2	33	68	103	139	174	209	244	280	315	350
140	70.00	bu	136	174	212	250	289	327	365	403	441	479	517
			37	75	113	151	189	227	265	303	341	379	417
150	75.00	bu	176	216	257	298	339	379	420	461	502	543	583
			76	117	157	198	239	280	320	361	402	443	483

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 2024 input prices.

Table 12.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	2.0000	16.10	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.6600	19.21	_____
Potash (60% K2O)	cwt	27.09	1.0000	27.09	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	96.0000	11.52	_____
2,4-D Amine 4	pt	2.23	2.0000	4.46	_____
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	43.0000	12.47	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.1764	3.30	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0352	0.66	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR	hour	18.67	0.2671	4.99	_____
DIESEL FUEL					
Tractors	gal	2.86	2.7243	7.79	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.4490	1.29	_____
REPAIR & MAINTENANCE					
Implements	acre	7.02	1.0000	7.02	_____
Tractors	acre	2.16	1.0000	2.16	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.66	1.0000	0.66	_____
INTEREST ON OP. CAP.	acre	14.19	1.0000	14.19	_____

TOTAL DIRECT EXPENSES				311.46	_____
FIXED EXPENSES					
Implements	acre	18.75	1.0000	18.75	_____
Tractors	acre	16.72	1.0000	16.72	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	5.28	1.0000	5.28	_____

TOTAL FIXED EXPENSES				63.60	_____

TOTAL SPECIFIED EXPENSES				375.06	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	43.0000	467.41	_____
TOTAL INCOME				467.41	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.10	1.0000	16.10	_____
HARVEST AIDS	acre	5.12	1.0000	5.12	_____
FERTILIZERS	acre	46.30	1.0000	46.30	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	70.28	1.0000	70.28	_____
INSECTICIDES	acre	5.06	1.0000	5.06	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	12.47	1.0000	12.47	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.2968	5.55	_____
UNALLOCATED LABOR	hour	18.67	0.2671	4.99	_____
DIESEL FUEL	gal	2.86	4.5978	13.15	_____
REPAIR & MAINTENANCE	acre	14.61	1.0000	14.61	_____
INTEREST ON OP. CAP.	acre	14.19	1.0000	14.19	_____
TOTAL DIRECT EXPENSES				311.46	_____
RETURNS ABOVE DIRECT EXPENSES				155.95	_____
TOTAL FIXED EXPENSES				63.60	_____
TOTAL SPECIFIED EXPENSES				375.06	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				92.35	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	16R-30	MFWD 300	0.047	1.00	Apr		0.04	0.04	0.09	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					32.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.29	0.26	0.36	0.26

Note: Cost of production estimates are based on 2024 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, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	19.21					1.58	20.79		20.79
Potash (60% K2O)	cwt	27.09					2.23	29.32		29.32
Disk Harrow	32'		2.71	2.24	2.18		0.59	7.72	9.76	17.48
Field Cultivate Fld	32'		2.06	1.31	1.65		0.41	5.43	8.34	13.77
App by Air (5 gal)	appl	8.05					0.39	8.44		8.44
Glyphosate 3lbs a.e	oz	3.84					0.18	4.02		4.02
2,4-D Amine 4	pt	4.46					0.21	4.67		4.67
Plant - Folding	16R-30		2.08	3.94	2.10		0.33	8.45	12.58	21.03
Soybean Seed RR2X	lb	58.00					2.39	60.39		60.39
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Engenia	oz	13.57					0.47	14.04		14.04
Dual Magnum	pt	10.11					0.35	10.46		10.46
Soybeans Consultant	acre	6.50					0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.02	1.14	1.76	2.90
Acephate 90SP	lb	5.06					0.07	5.13		5.13
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	12.47					0.09	12.56		12.56
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		258.39	13.15	14.61	11.12	0.00	14.19	311.46	63.60	375.06

Note: Cost of production estimates are based on 2024 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, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

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	467.41
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00	0.00	8.05	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00
FERTILIZERS	46.30	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	8.30	30.62	31.36	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	5.06	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	58.00	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	9.00	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	12.47
CUSTOM LIME	17.11	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	3.83	0.00	0.00	0.00	0.00	0.00	2.10	0.94	0.00	0.00	0.47	3.78
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	4.77	0.00	0.00	0.00	0.00	0.00	2.08	0.86	0.00	0.00	0.43	5.01
REPAIR & MAINTENANCE	3.55	0.00	0.00	0.00	0.00	0.00	3.94	0.44	0.00	0.00	0.22	6.46
INTEREST ON OP. CAP.	7.23	0.00	0.00	0.00	0.00	0.78	4.32	1.38	0.00	0.00	0.28	0.20
TOTAL DIRECT EXPENSES	95.12	0.00	0.00	0.00	0.00	17.13	109.52	41.48	0.00	0.00	20.29	27.92
NET INCOME	-95.12	0.00	0.00	0.00	0.00	-17.13	-109.52	-41.48	0.00	0.00	-20.29	439.49
NET INCOME TO DATE	-95.12	-95.12	-95.12	-95.12	-95.12	-112.25	-221.77	-263.25	-263.25	-263.25	-283.54	155.95

Note: Cost of production estimates are based on 2024 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 12.F Estimated returns for various price/yield combinations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	21.50	bu	-129	-118	-106	-94	-83	-71	-59	-48	-36	-24	-13
			-193	-181	-170	-158	-146	-135	-123	-111	-100	-88	-76
60	25.80	bu	-96	-82	-68	-54	-40	-25	-11	2	16	30	44
			-159	-145	-131	-117	-103	-89	-75	-61	-47	-33	-19
70	30.10	bu	-62	-45	-29	-13	3	19	35	52	68	84	101
			-125	-109	-93	-76	-60	-44	-27	-11	4	21	37
80	34.40	bu	-28	-9	8	27	46	64	83	102	121	139	158
			-92	-73	-54	-36	-17	1	20	38	57	76	94
90	38.70	bu	5	26	47	68	89	110	131	152	173	194	215
			-58	-37	-16	4	25	46	67	88	109	130	152
100	43.00	bu	39	62	85	109	132	155	179	202	226	249	272
			-24	-1	22	45	68	92	115	139	162	185	209
110	47.30	bu	72	98	124	150	175	201	227	252	278	304	329
			9	35	60	86	112	137	163	189	214	240	266
120	51.60	bu	106	134	162	190	218	246	274	303	331	359	387
			43	71	99	127	155	183	211	239	267	295	323
130	55.90	bu	140	170	201	231	262	292	322	353	383	413	444
			76	107	137	168	198	228	259	289	319	350	380
140	60.20	bu	174	207	239	272	305	337	370	403	436	468	501
			110	143	176	208	241	274	307	339	372	405	437
150	64.50	bu	208	243	278	313	348	383	418	453	488	523	558
			144	179	214	249	284	319	354	389	424	459	495

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 2024 input prices.

Table 13.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	1.0000	8.05	_____
HARVEST AIDS					
Gramoxone SL	oz	0.32	16.0000	5.12	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.6600	19.21	_____
Potash (60% K2O)	cwt	27.09	1.0000	27.09	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.12	96.0000	11.52	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.32	64.0000	20.48	_____
Boundary	pt	10.19	2.0000	20.38	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Dimilin 2L	oz	2.45	1.0000	2.45	_____
Bifenthrin	oz	0.48	1.0500	0.50	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	40.0000	11.60	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.2407	4.50	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0587	1.10	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR	hour	18.69	0.3461	6.47	_____
DIESEL FUEL					
Tractors	gal	2.86	3.7171	10.63	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.7484	2.14	_____
REPAIR & MAINTENANCE					
Implements	acre	8.40	1.0000	8.40	_____
Tractors	acre	2.94	1.0000	2.94	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	1.10	1.0000	1.10	_____
INTEREST ON OP. CAP.	acre	12.62	1.0000	12.62	_____

TOTAL DIRECT EXPENSES				359.14	_____
FIXED EXPENSES					
Implements	acre	22.92	1.0000	22.92	_____
Tractors	acre	22.81	1.0000	22.81	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	8.80	1.0000	8.80	_____

TOTAL FIXED EXPENSES				77.38	_____

TOTAL SPECIFIED EXPENSES				436.52	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	40.0000	434.80	_____
TOTAL INCOME				434.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.05	1.0000	8.05	_____
HARVEST AIDS	acre	5.12	1.0000	5.12	_____
FERTILIZERS	acre	46.30	1.0000	46.30	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	118.20	1.0000	118.20	_____
INSECTICIDES	acre	2.95	1.0000	2.95	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	11.60	1.0000	11.60	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.3846	7.19	_____
UNALLOCATED LABOR	hour	18.69	0.3461	6.47	_____
DIESEL FUEL	gal	2.86	5.8899	16.84	_____
REPAIR & MAINTENANCE	acre	17.21	1.0000	17.21	_____
INTEREST ON OP. CAP.	acre	12.62	1.0000	12.62	_____
TOTAL DIRECT EXPENSES				359.14	_____
RETURNS ABOVE DIRECT EXPENSES				75.66	_____
TOTAL FIXED EXPENSES				77.38	_____
TOTAL SPECIFIED EXPENSES				436.52	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-1.72	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							----------hours----------			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
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					32.0000				
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					32.0000				
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 2024 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, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Soil Test	acre	3.33					0.02	3.35		3.35
Lime (Spread)	ton	17.11					0.12	17.23		17.23
Disk Harrow	32'		2.71	2.24	2.18		0.05	7.18	9.76	16.94
Field Cultivate Fld	32'		2.06	1.31	1.65		0.03	5.05	8.34	13.39
Bed/Lister-Roll-Fo	16R-30		2.68	1.67	2.15		0.04	6.54	8.84	15.38
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.07	1.19	1.76	2.95
Glyphosate 3lbs a.e	oz	3.84					0.24	4.08		4.08
Select Max	pt	15.01					0.93	15.94		15.94
Surfactant	pt	1.32					0.08	1.40		1.40
Custom Apply Fert	acre	9.00					0.43	9.43		9.43
Phosphorus(46% P2O5)	cwt	19.21					0.92	20.13		20.13
Potash (60% K2O)	cwt	27.09					1.30	28.39		28.39
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Fierce	oz	27.13					1.31	28.44		28.44
Gramoxone SL 2.0	oz	10.24					0.49	10.73		10.73
Surfactant	pt	1.32					0.06	1.38		1.38
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.26		0.37	9.30	14.00	23.30
Soybean Seed RR2X	lb	58.00					2.39	60.39		60.39
CruiserMaxx Vibrance	oz	7.14					0.29	7.43		7.43
Boundary	pt	20.38					0.84	21.22		21.22
Gramoxone SL 2.0	oz	10.24					0.42	10.66		10.66
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.05	1.17	1.76	2.93
Glyphosate 3lbs a.e	oz	3.84					0.16	4.00		4.00
Engenia	oz	13.57					0.56	14.13		14.13
Dual Magnum	pt	10.11					0.42	10.53		10.53
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.47		0.04	1.16	1.76	2.92
Glyphosate 3lbs a.e	oz	3.84					0.13	3.97		3.97
Sprayer 600-825gal	90' 250hp		0.21	0.11	0.24		0.02	0.58	0.88	1.46
Dimilin 2L	oz	2.45					0.07	2.52		2.52
Surfactant	pt	0.17						0.17		0.17
Sprayer 600-825gal	90' 250hp		0.21	0.11	0.24		0.01	0.57	0.88	1.45
Bifenthrin	oz	0.50					0.01	0.51		0.51
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
Gramoxone SL	oz	5.12					0.07	5.19		5.19
Surfactant	pt	0.66					0.01	0.67		0.67
Header -Soybean	30' Flex		4.07	5.90	3.02		0.09	13.08	24.96	38.04
Haul Soybeans	bu	11.60					0.08	11.68		11.68
Grain Cart Soybean	700 bu		0.94	0.56	0.76		0.02	2.28	2.68	4.96
TOTALS		298.09	16.84	17.21	14.38	0.00	12.62	359.14	77.38	436.52

Note: Cost of production estimates are based on 2024 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, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

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	434.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.05	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.12	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	46.30	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	7.14	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	18.85	0.00	37.37	58.14	3.84	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	2.45	0.50	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	58.00	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	9.00	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	11.60
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.11
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	0.47	0.00	0.47	2.73	0.47	0.24	0.24	0.00	9.76
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	0.43	0.00	0.43	2.67	0.43	0.21	0.21	0.00	12.46
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.22	0.00	0.22	4.65	0.22	0.11	0.11	0.00	11.68
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.32	0.00	4.56	5.82	0.17	0.09	0.02	0.19	0.45
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	22.61	0.00	99.67	146.97	5.13	3.27	1.08	14.02	66.39
NET INCOME	0.00	0.00	0.00	-22.61	0.00	-99.67	-146.97	-5.13	-3.27	-1.08	-14.02	368.41
NET INCOME TO DATE	0.00	0.00	0.00	-22.61	-22.61	-122.28	-269.25	-274.38	-277.65	-278.73	-292.75	75.66

Note: Cost of production estimates are based on 2024 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, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	20.00	bu	-190	-179	-168	-157	-146	-135	-125	-114	-103	-92	-81
			-267	-256	-245	-235	-224	-213	-202	-191	-180	-169	-158
60	24.00	bu	-158	-145	-132	-119	-106	-93	-80	-67	-54	-41	-28
			-236	-223	-210	-197	-184	-170	-157	-144	-131	-118	-105
70	28.00	bu	-127	-112	-96	-81	-66	-51	-36	-20	-5	9	24
			-204	-189	-174	-159	-143	-128	-113	-98	-83	-67	-52
80	32.00	bu	-95	-78	-61	-43	-26	-8	8	25	43	60	77
			-173	-155	-138	-121	-103	-86	-68	-51	-34	-16	0
90	36.00	bu	-64	-44	-25	-5	13	33	52	72	92	111	131
			-141	-122	-102	-83	-63	-44	-24	-4	14	34	53
100	40.00	bu	-33	-11	10	32	53	75	97	119	140	162	184
			-110	-88	-66	-45	-23	-1	20	41	63	85	106
110	44.00	bu	-1	22	46	70	94	117	141	165	189	213	237
			-78	-55	-31	-7	16	40	64	88	112	136	160
120	48.00	bu	29	55	82	108	134	160	186	212	238	264	290
			-47	-21	4	30	56	82	108	135	161	187	213
130	52.00	bu	61	89	117	146	174	202	230	259	287	315	343
			-16	12	40	68	96	125	153	181	210	238	266
140	56.00	bu	92	123	153	184	214	244	275	305	336	366	397
			15	45	76	106	137	167	197	228	258	289	319
150	60.00	bu	124	156	189	222	254	287	319	352	385	417	450
			46	79	112	144	177	209	242	275	307	340	372

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 2024 input prices.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.05	3.0000	24.15	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	29.10	0.8700	25.32	_____
Potash (60% K2O)	cwt	27.09	1.3300	36.03	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	4.46	1.6000	7.14	_____
HERBICIDES					
Boundary	pt	10.19	2.0000	20.38	_____
Gramoxone SL 2.0	oz	0.32	32.0000	10.24	_____
Glyphosate 3lbs a.e	oz	0.12	32.0000	3.84	_____
Engenia	oz	1.06	12.8000	13.57	_____
Dual Magnum	pt	10.11	1.0000	10.11	_____
INSECTICIDES					
Acephate 90SP	lb	6.75	0.7500	5.06	_____
Prevathon	oz	1.47	14.0000	20.58	_____
Bifenthrin	oz	0.48	6.4000	3.07	_____
IncidentalPestTrt $8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.16	50.0000	58.00	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	9.00	1.0000	9.00	_____
HAULING					
Haul Soybeans	bu	0.29	25.0000	7.25	_____
CUSTOM LIME					
Lime (Spread)	ton	51.39	0.3330	17.11	_____
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	18.69	0.0720	1.35	_____
Harvesters	hour	18.69	0.0851	1.59	_____
Self-Propelled	hour	18.69	0.0117	0.22	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL					
Tractors	gal	2.86	1.1121	3.18	_____
Harvesters	gal	2.86	1.4243	4.07	_____
Self-Propelled	gal	2.86	0.1496	0.43	_____
REPAIR & MAINTENANCE					
Implements	acre	5.24	1.0000	5.24	_____
Tractors	acre	0.88	1.0000	0.88	_____
Harvesters	acre	4.77	1.0000	4.77	_____
Self-Propelled	acre	0.22	1.0000	0.22	_____
INTEREST ON OP. CAP.	acre	13.55	1.0000	13.55	_____

TOTAL DIRECT EXPENSES				330.61	_____
FIXED EXPENSES					
Implements	acre	11.97	1.0000	11.97	_____
Tractors	acre	6.82	1.0000	6.82	_____
Harvesters	acre	22.85	1.0000	22.85	_____
Self-Propelled	acre	1.76	1.0000	1.76	_____

TOTAL FIXED EXPENSES				43.40	_____

TOTAL SPECIFIED EXPENSES				374.01	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	10.87	25.0000	271.75	_____
TOTAL INCOME				271.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.15	1.0000	24.15	_____
FERTILIZERS	acre	61.35	1.0000	61.35	_____
FUNGICIDES	acre	7.14	1.0000	7.14	_____
HERBICIDES	acre	58.14	1.0000	58.14	_____
INSECTICIDES	acre	36.71	1.0000	36.71	_____
SEED/PLANTS	acre	58.00	1.0000	58.00	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	9.00	1.0000	9.00	_____
HAULING	acre	7.25	1.0000	7.25	_____
CUSTOM LIME	acre	17.11	1.0000	17.11	_____
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	18.69	0.1689	3.16	_____
UNALLOCATED LABOR	hour	18.72	0.1452	2.72	_____
DIESEL FUEL	gal	2.86	2.6861	7.68	_____
REPAIR & MAINTENANCE	acre	11.11	1.0000	11.11	_____
INTEREST ON OP. CAP.	acre	13.55	1.0000	13.55	_____
TOTAL DIRECT EXPENSES				330.61	_____
RETURNS ABOVE DIRECT EXPENSES				-58.86	_____
TOTAL FIXED EXPENSES				43.40	_____
TOTAL SPECIFIED EXPENSES				374.01	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-102.26	_____

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							hours			
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					32.0000				
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 2024 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, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

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	17.11					1.41	18.52		18.52
Custom Apply Fert	acre	9.00					0.74	9.74		9.74
Phosphorus(46% P2O5)	cwt	25.32					2.09	27.41		27.41
Potash (60% K2O)	cwt	36.03					2.97	39.00		39.00
Soybeans Consultant	acre	6.50					0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.24	4.43	2.23		0.31	9.21	14.00	23.21
Soybean Seed RR2X	lb	58.00					1.99	59.99		59.99
CruiserMaxx Vibrance	oz	7.14					0.25	7.39		7.39
Inoculant -Soybean	acre	1.55					0.05	1.60		1.60
Boundary	pt	20.38					0.70	21.08		21.08
Gramoxone SL 2.0	oz	10.24					0.35	10.59		10.59
Surfactant	pt	1.32					0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.43	0.22	0.46		0.03	1.14	1.76	2.90
Glyphosate 3lbs a.e	oz	3.84					0.11	3.95		3.95
Engenia	oz	13.57					0.37	13.94		13.94
Dual Magnum	pt	10.11					0.28	10.39		10.39
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Acephate 90SP	lb	5.06					0.10	5.16		5.16
App by Air (5 gal)	appl	8.05					0.17	8.22		8.22
Prevathon	oz	20.58					0.42	21.00		21.00
Surfactant	pt	0.33					0.01	0.34		0.34
Bifenthrin	oz	3.07					0.06	3.13		3.13
Incidental Pest										
App by Air (5 gal)	appl	8.05					0.11	8.16		8.16
IncidentalPestTrt $8	acre	8.00					0.11	8.11		8.11
Header -Soybean	30' Flex		4.07	5.90	2.96		0.09	13.02	24.96	37.98
Haul Soybeans	bu	7.25					0.05	7.30		7.30
Grain Cart Soybean	700 bu		0.94	0.56	0.74		0.02	2.26	2.68	4.94
TOTALS		291.88	7.68	11.11	6.39	0.00	13.55	330.61	43.40	374.01

Note: Cost of production estimates are based on 2024 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, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

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	271.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.10	8.05	0.00
FERTILIZERS	61.35	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	7.14	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.62	27.52	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.71	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.00	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	9.00	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	7.25
CUSTOM LIME	17.11	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	2.23	0.46	0.00	0.00	3.70
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	2.24	0.43	0.00	0.00	5.01
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.43	0.22	0.00	0.00	6.46
INTEREST ON OP. CAP.	7.48	0.00	0.00	0.00	0.00	0.00	0.27	3.70	0.79	0.93	0.22	0.16
TOTAL DIRECT EXPENSES	98.27	0.00	0.00	0.00	0.00	0.00	6.77	111.23	29.42	46.07	16.27	22.58
NET INCOME	-98.27	0.00	0.00	0.00	0.00	0.00	-6.77	-111.23	-29.42	-46.07	-16.27	249.17
NET INCOME TO DATE	-98.27	-98.27	-98.27	-98.27	-98.27	-98.27	-105.04	-216.27	-245.69	-291.76	-308.03	-58.86

Note: Cost of production estimates are based on 2024 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 14.F Estimated returns for various price/yield combinations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2025

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			8.15	8.69	9.23	9.78	10.32	10.87	11.41	11.95	12.50	13.04	13.58
PERCENT	YIELD	UNIT	dollars										
50	12.50	bu	-225	-218	-211	-204	-197	-191	-184	-177	-170	-163	-157
			-268	-261	-254	-248	-241	-234	-227	-220	-214	-207	-200
60	15.00	bu	-205	-197	-189	-180	-172	-164	-156	-148	-140	-132	-123
			-248	-240	-232	-224	-216	-208	-199	-191	-183	-175	-167
70	17.50	bu	-185	-176	-166	-157	-147	-138	-128	-119	-109	-100	-90
			-229	-219	-210	-200	-191	-181	-172	-162	-153	-143	-134
80	20.00	bu	-166	-155	-144	-133	-122	-111	-100	-90	-79	-68	-57
			-209	-198	-187	-176	-166	-155	-144	-133	-122	-111	-100
90	22.50	bu	-146	-134	-121	-109	-97	-85	-73	-60	-48	-36	-24
			-189	-177	-165	-153	-140	-128	-116	-104	-92	-79	-67
100	25.00	bu	-126	-113	-99	-86	-72	-58	-45	-31	-18	-4	9
			-170	-156	-143	-129	-115	-102	-88	-75	-61	-47	-34
110	27.50	bu	-107	-92	-77	-62	-47	-32	-17	-2	12	27	42
			-150	-135	-120	-105	-90	-75	-60	-45	-30	-16	-1
120	30.00	bu	-87	-71	-54	-38	-22	-5	10	26	42	59	75
			-130	-114	-98	-81	-65	-49	-33	-16	-0	15	32
130	32.50	bu	-67	-50	-32	-14	2	20	38	55	73	91	108
			-111	-93	-75	-58	-40	-22	-5	12	30	47	65
140	35.00	bu	-48	-29	-10	8	27	46	65	84	103	123	142
			-91	-72	-53	-34	-15	3	22	41	60	79	98
150	37.50	bu	-28	-8	12	32	52	73	93	114	134	154	175
			-71	-51	-31	-10	9	29	50	70	91	111	131

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 2024 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, 2025

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	18.69	39.01	48.22	105.92	230.93	336.86
Combine (300-349 hp)	325 hp	538,000	300	8	16.73	18.69	47.84	56.04	122.57	268.33	390.91
Combine (350-399 hp)	355 hp	556,000	300	8	18.27	18.69	52.25	57.91	128.85	277.31	406.17
Combine (400-449 hp)	425 hp	562,000	300	8	21.87	18.69	62.56	58.54	139.79	280.30	420.10
Combine (450-499hp)	475 hp	592,000	300	8	24.44	18.69	69.92	61.66	150.28	295.27	445.55
Tractor(20-39hp)CB	MFWD 30	38,500	600	8	1.54	18.69	4.41	1.20	24.30	9.00	33.31
Tractor(20-39hp)RB	MFWD 30	28,100	600	8	1.54	18.69	4.41	0.87	23.98	6.57	30.55
Tractor(40-59hp)CB	2WD 50	39,900	600	8	2.57	18.69	7.36	1.24	27.29	9.33	36.63
Tractor(40-59hp)CB	MFWD 50	50,600	600	8	2.57	18.69	7.36	1.58	27.63	11.84	39.47
Tractor(40-59hp)RB	2WD 50	29,100	600	8	2.57	18.69	7.36	0.90	26.95	6.80	33.76
Tractor(40-59hp)RB	MFWD 50	33,800	600	8	2.57	18.69	7.36	1.05	27.10	7.90	35.01
Tractor(60-89hp)CB	2WD 75	69,500	600	8	3.86	18.69	11.04	2.17	31.90	16.26	48.16
Tractor(60-89hp)CB	MFWD 75	79,000	600	8	3.86	18.69	11.04	2.46	32.19	18.48	50.68
Tractor(60-89hp)RB	2WD 75	60,100	600	8	3.86	18.69	11.04	1.87	31.60	14.06	45.67
Tractor(60-89hp)RB	MFWD 75	53,400	600	8	3.86	18.69	11.04	1.66	31.39	12.49	43.89
Tractor(90-119hp)CB	2WD 105	96,900	600	8	5.40	18.69	15.45	3.02	37.17	22.67	59.84
Tractor(90-119hp)CB	MFWD 105	109,900	600	8	5.40	18.69	15.45	3.43	37.58	25.71	63.29
Tractor(90-119hp)RB	2WD 105	91,600	600	8	5.40	18.69	15.45	2.86	37.00	21.43	58.44
Tractor(90-119hp)RB	MFWD 105	97,400	600	8	5.40	18.69	15.45	3.04	37.19	22.79	59.98
Tractor(120-139hp)CB	2WD 130	127,900	600	8	6.69	18.69	19.13	3.99	41.82	29.92	71.75
Tractor(120-139hp)CB	MFWD 130	165,700	600	8	6.69	18.69	19.13	5.17	43.00	38.77	81.77
Tractor(140-159hp)	2WD 150	152,300	600	8	7.72	18.69	22.08	4.75	45.53	35.63	81.16
Tractor(140-159hp)CB	MFWD 150	179,700	600	8	7.72	18.69	22.08	5.61	46.38	42.04	88.43
Tractor(160-179hp)CB	MFWD 170	217,000	600	8	8.75	18.69	25.02	6.78	50.49	52.44	102.94
Tractor(180-199hp)CB	MFWD 190	274,000	600	8	9.77	18.69	27.97	8.56	55.22	66.22	121.44
Tractor(200-249hp)CB	MFWD 225	327,000	600	8	11.58	18.69	33.12	10.21	62.03	79.03	141.06
Tractor(250-349hp)CB	4WD 300	452,000	600	8	15.44	18.69	44.16	14.12	76.97	109.24	186.22
Tractor(250-349hp)CB	MFWD 300	392,000	600	8	15.44	18.69	44.16	12.25	75.10	94.74	169.84
Tractor(250-349hp)CB	Track 300	329,000	600	8	15.44	18.69	44.16	10.28	73.13	79.51	152.65
Tractor(350-449hp)	Track 400	635,000	600	8	20.58	18.69	58.88	19.84	97.41	153.47	250.89
Tractor(350-449hp)CB	4WD 400	501,000	600	8	20.58	18.69	58.88	15.65	93.23	121.08	214.31
Tractor(450-550hp)CB	4WD 500	577,000	600	8	25.73	18.69	73.60	18.03	110.32	139.45	249.78
Tractor(450-550hp)CB	Track 500	683,000	600	8	25.73	18.69	73.60	21.34	113.63	165.07	278.71
Utility Vehicle	800 CC	12,200	200	8	0.70	18.69	2.07	1.90	22.66	9.12	31.79
Utility Vehicle	900 CC	18,700	200	8	1.00	18.69	2.96	2.92	24.57	13.99	38.56

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, 2025

Item Name	Size	Purchase Price	Annual Use	Useful Life	Fuel Use	Perf Rate	Labor	Fuel	R&M	Total Direct	Fixed	Total Cost
		dollars	hours	years	gal/hr	hr/ac	$/acre					
Cotton Picker	4R-38(250)	268,000	200	8	12.86	0.257	7.15	9.48	10.79	27.43	51.68	79.12
Cotton Picker	4R-38(350)	351,000	200	8	18.01	0.257	7.15	13.28	14.13	34.57	67.69	102.26
Cotton Picker	4R2x1(350)	357,000	200	8	18.01	0.172	4.78	8.87	9.61	23.27	46.02	69.29
Cotton Picker	6R-30(355)	465,000	200	8	18.27	0.218	6.05	11.40	15.85	33.31	75.92	109.24
Cotton Picker	6R-38(355)	465,000	200	8	18.27	0.172	4.78	9.00	12.51	26.30	59.94	86.25
Cotton Picker/Modu	4R-38(365)	536,000	200	8	20.58	0.257	7.15	15.17	21.58	43.92	103.37	147.29
Cotton Picker/Module	6R-30(500)	1,081,000	200	8	25.73	0.218	6.05	16.06	36.86	58.98	176.51	235.49
Cotton Picker/Module	6R-38(500)	1,084,000	200	8	25.73	0.172	4.78	12.68	29.18	46.64	139.74	186.39
Dry Applicator SP	70'300cuft	491,000	350	8	16.98	0.015	0.35	0.73	0.39	1.48	3.17	4.65
Sprayer 600-750gal	60' 175hp	216,000	350	8	9.00	0.017	0.40	0.45	0.20	1.06	1.62	2.69
Sprayer 600-825gal	80' 175hp	273,000	350	8	11.81	0.013	0.30	0.44	0.19	0.94	1.54	2.48
Sprayer 600-825gal	90' 250hp	351,000	350	8	12.73	0.011	0.27	0.42	0.22	0.92	1.76	2.68
Sprayer 800gal	100' 250hp	383,000	350	8	14.15	0.010	0.24	0.42	0.21	0.89	1.73	2.62
Sprayer 800gal	80' 250hp	287,000	350	8	12.86	0.013	0.30	0.48	0.20	0.99	1.62	2.61
Sprayer 1000-1400gal	90' 275hp	381,000	350	8	14.15	0.010	0.24	0.42	0.21	0.88	1.72	2.61
Sprayer 1000gal	100' 300hp	528,000	350	8	15.44	0.010	0.24	0.46	0.29	1.01	2.38	3.40
Sprayer 1200+gal	120' 300hp	519,000	350	8	15.44	0.008	0.20	0.38	0.24	0.83	1.95	2.79

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, 2025

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.81	6.76	2.05	2.08	14.72	4.57	16.14	35.44
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	3.00	5.32	1.61	1.64	11.59	3.60	12.71	27.91
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	2.00	3.56	1.47	1.09	8.14	3.29	8.49	19.93
Bed-Rip/Disk Fold.	8R-38	MFWD 190	71,000	300	20	0.073	1.36	2.04	0.25	0.62	4.29	1.72	4.83	10.85
Bed-Rip/Disk Fold.	12R-30	MFWD 225	100,200	300	20	0.061	1.15	2.04	0.30	0.62	4.13	2.04	4.87	11.04
Bed-Rip/Disk Fold.	12R-38	MFWD 225	100,200	300	20	0.046	0.86	1.53	0.23	0.47	3.09	1.53	3.65	8.28
Bed-Rip/Disk Rigid	4R-30	MFWD 190	31,500	300	20	0.184	3.45	5.17	0.29	1.58	10.50	1.93	12.24	24.67
Bed-Rip/Disk Rigid	4R-38	MFWD 190	31,500	300	20	0.146	2.74	4.10	0.23	1.25	8.33	1.53	9.71	19.58
Bed-Rip/Disk Rigid	6R-30	MFWD 190	43,600	300	20	0.123	2.30	3.44	0.26	1.05	7.07	1.78	8.16	17.01
Bed-Rip/Disk Rigid	6R-38	MFWD 190	43,600	300	20	0.097	1.81	2.72	0.21	0.83	5.58	1.40	6.44	13.43
Bed-Rip/Disk Rigid	8R-30	MFWD 190	57,800	300	20	0.139	2.59	3.88	0.40	1.19	8.07	2.66	9.20	19.94
Bed-Rip/Disk Rigid	8R-38	MFWD 190	57,800	300	20	0.073	1.36	2.04	0.21	0.62	4.24	1.40	4.83	10.48
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	43,600	150	12	0.107	2.00	3.56	1.69	1.09	8.36	3.77	8.49	20.63
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	57,800	150	12	0.080	1.50	2.67	1.68	0.82	6.69	3.75	6.38	16.83
Bed-Subsoil Fold	8R-38	MFWD 225	71,000	150	12	0.080	1.50	2.67	2.07	0.82	7.08	4.61	6.38	18.08
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	100,200	150	12	0.053	1.00	1.78	1.94	0.54	5.28	4.33	4.24	13.86
Bed-Subsoil Fold	12R-38	MFWD 225	100,200	150	12	0.053	1.00	1.78	1.94	0.54	5.28	4.33	4.24	13.86
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.81	6.76	1.92	2.08	14.60	4.29	16.14	35.04
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	3.00	5.32	1.61	1.64	11.59	3.60	12.71	27.91
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.54	4.51	1.78	1.39	10.23	3.98	10.76	24.98
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	2.00	3.56	1.46	1.09	8.13	3.26	8.49	19.89
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.90	3.38	1.78	1.04	8.12	3.99	8.07	20.19
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.50	2.67	1.46	0.82	6.47	3.25	6.38	16.11
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.75	3.26	0.57	0.82	7.42	1.91	6.20	15.55
Bed/Disk (Hipper)	6R-38	MFWD 170	23,600	160	10	0.098	1.84	2.46	0.58	0.66	5.56	1.92	5.17	12.66
Bed/Disk (Hipper)	8R-30	MFWD 190	32,600	160	10	0.093	1.75	2.62	0.76	0.80	5.94	2.52	6.20	14.67
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	114,000	160	10	0.049	0.92	1.38	1.40	0.42	4.13	4.64	3.26	12.04
Bed/Disk (Hipper)	12R-30	MFWD 225	87,500	160	10	0.062	1.16	2.07	1.36	0.63	5.24	4.51	4.93	14.70
Bed/Disk (Hipper)	12R-38	MFWD 225	114,000	160	10	0.049	0.92	1.63	1.40	0.50	4.46	4.64	3.89	13.01
Bed/Disk (Hipper)	16R40	MFWD 300	135,000	160	10	0.035	0.66	1.56	1.19	0.43	3.85	3.94	3.35	11.14
Bed/Disk (Hipper)Fl	8R-38	MFWD 190	45,800	160	10	0.074	1.38	2.07	0.84	0.63	4.94	2.80	4.90	12.65
Bed/Disk (Hipper)Rd	8R-38	MFWD 190	33,800	160	10	0.074	1.38	2.07	0.62	0.63	4.71	2.06	4.90	11.69
Bed/Disk w/roller	8R-30	MFWD 190	59,900	160	10	0.093	1.75	2.62	1.40	0.80	6.58	4.63	6.20	17.42
Bed/Disk w/roller	8R-38	MFWD 190	68,500	160	10	0.074	1.38	2.07	1.26	0.63	5.36	4.19	4.90	14.46
Bed/Disk w/roller	12R-30/40	MFWD 225	113,000	160	10	0.062	1.16	2.07	1.76	0.63	5.64	5.83	4.93	16.41
Bed/Lister	4R-38	MFWD 150	31,900	160	8	0.228	4.26	5.04	1.70	1.28	12.30	6.60	9.60	28.50
Bed/Lister	6R-38	MFWD 150	36,000	160	8	0.120	2.24	2.65	1.01	0.67	6.58	3.92	5.05	15.56
Bed/Lister	8R-30	MFWD 190	48,300	160	8	0.114	2.13	3.19	1.29	0.97	7.59	4.99	7.56	20.15
Bed/Lister	8R-38	MFWD 190	48,700	160	8	0.090	1.68	2.52	1.03	0.77	6.01	3.98	5.97	15.97
Bed/Lister	8R-38 2x1	MFWD 190	81,500	160	8	0.060	1.12	1.68	1.14	0.51	4.46	4.43	3.98	12.88
Bed/Lister	12R-38	MFWD 225	81,500	160	8	0.060	1.12	1.99	1.14	0.61	4.87	4.43	4.74	14.06
Bed/Lister	16R-30	MFWD 225	94,300	160	8	0.035	0.65	1.16	0.77	0.35	2.95	3.00	2.77	8.73
Bed/Lister	16R40	MFWD 300	99,200	160	8	0.043	0.80	1.90	1.00	0.52	4.23	3.87	4.08	12.19
Bed/Lister-Roll-Fo	8R-38	MFWD 190	31,400	160	10	0.095	1.79	2.68	0.75	0.82	6.04	2.48	6.35	14.88
Bed/Lister-Roll-Fo	12R-30	MFWD 225	65,100	160	10	0.080	1.51	2.67	1.31	0.82	6.33	4.34	6.39	17.07
Bed/Lister-Roll-Fo	12R-38	MFWD 225	48,700	160	10	0.063	1.19	2.11	0.77	0.65	4.73	2.56	5.04	12.35
Bed/Lister-Roll-Fo	16R-30	MFWD 225	61,600	160	10	0.060	1.13	2.00	0.93	0.61	4.69	3.08	4.79	12.57
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.79	2.68	0.59	0.82	5.89	1.98	6.35	14.22
Blade-Box	6'-7'	MFWD 105	2,080	200	20	0.020	0.37	0.30	0.01	0.06	0.76	0.02	0.45	1.24
Blade-Box	8'-10'	MFWD 105	3,790	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Box	12'-16'	MFWD 105	7,580	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	6'-7'	MFWD 105	1,760	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	8'-10'	MFWD 105	5,840	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Blade-Scraper	12'-16'	MFWD 105	12,200	200	20	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boll Buggy	4R-38(250)	MFWD 190	30,500	200	10	0.257	4.81	7.21	1.96	2.20	16.20	5.06	17.07	38.33
Boll Buggy	4R-38(350)	MFWD 190	30,500	200	10	0.257	4.81	7.21	1.96	2.20	16.20	5.06	17.07	38.33
Boll Buggy	4R2x1(350)	MFWD 190	30,500	200	10	0.172	3.22	4.81	1.31	1.47	10.82	3.38	11.41	25.62
Boll Buggy	6R-30(355)	MFWD 190	30,500	200	10	0.218	4.07	6.10	1.66	1.86	13.71	4.28	14.45	32.45
Boll Buggy	6R-38(355)	MFWD 190	30,500	200	10	0.172	3.22	4.81	1.31	1.47	10.82	3.38	11.41	25.62
Chisel Plow-Folding	24'	MFWD 190	59,800	150	12	0.076	1.42	2.13	1.65	0.65	5.87	3.68	5.06	14.61
Chisel Plow-Folding	32'	MFWD 225	76,500	150	12	0.057	1.07	1.91	1.59	0.59	5.17	3.55	4.56	13.30
Chisel Plow-Folding	42'	MFWD 225	88,600	150	12	0.044	0.82	1.45	1.40	0.44	4.13	3.14	3.47	10.75
Chisel Plow-Folding	50'	MFWD 225	113,000	150	12	0.036	0.69	1.22	1.50	0.37	3.80	3.36	2.92	10.08
Chisel Plow-Folding	61'	MFWD 225	141,000	150	12	0.030	0.56	1.00	1.54	0.30	3.42	3.44	2.39	9.26
Chisel Plow-Rigid	10'	MFWD 170	16,100	150	12	0.184	3.45	4.62	1.07	1.25	10.41	2.39	9.69	22.50
Chisel Plow-Rigid	15'	2WD 130	20,100	150	12	0.123	2.30	2.35	0.89	0.49	6.04	1.99	3.68	11.73
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.91	3.40	0.49	1.04	6.86	1.10	8.11	16.09
Cultivate	4R-30	2WD 105	21,500	150	10	0.206	3.85	3.18	1.18	0.62	8.84	3.90	4.67	17.43
Cultivate	4R-38	2WD 105	21,500	150	10	0.162	3.03	2.51	0.93	0.46	6.94	3.07	3.48	13.49
Cultivate	6R-30	MFWD 150	28,100	150	10	0.137	2.56	3.03	1.03	0.77	7.40	3.40	5.78	16.59
Cultivate	6R-38	MFWD 150	28,000	150	10	0.108	2.02	2.39	0.81	0.60	5.84	2.67	4.56	13.08
Cultivate	8R-30	MFWD 190	36,300	150	10	0.103	1.92	2.88	0.99	0.88	6.69	3.29	6.82	16.82
Cultivate	8R-38	MFWD 190	43,200	150	10	0.073	1.37	2.06	0.84	0.63	4.91	2.80	4.87	12.59
Cultivate	8R-38 2x1	MFWD 190	60,200	150	10	0.054	1.01	1.51	0.87	0.46	3.86	2.87	3.59	10.34
Cultivate	12R-30	MFWD 225	62,000	150	10	0.068	1.28	2.27	1.13	0.70	5.40	3.75	5.43	14.59
Cultivate	12R-38	MFWD 225	60,200	150	10	0.054	1.01	1.79	0.87	0.55	4.23	2.87	4.28	11.40
Cultivate	16R-30	MFWD 225	83,400	150	10	0.051	0.96	1.70	1.14	0.52	4.34	3.78	4.07	12.20
Cultivate & Post	4R-30	2WD 105	27,300	150	10	0.220	5.10	3.40	1.60	0.62	10.74	5.29	4.71	20.74
Cultivate & Post	4R-38	2WD 105	27,300	150	10	0.173	4.02	2.67	1.26	0.49	8.45	4.16	3.71	16.33
Cultivate & Post	6R-30	MFWD 150	33,900	150	10	0.146	3.40	3.23	1.32	0.82	8.79	4.38	6.16	19.34
Cultivate & Post	6R-38	MFWD 150	33,800	150	10	0.115	2.68	2.55	1.04	0.65	6.93	3.44	4.86	15.25
Cultivate & Post	8R-30	MFWD 190	44,100	150	10	0.110	2.55	3.07	1.29	0.94	7.86	4.27	7.28	19.42
Cultivate & Post	8R-38	MFWD 190	49,100	150	10	0.086	2.01	2.43	1.13	0.74	6.33	3.76	5.75	15.85

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Cultivate & Post	8R-38 2x1	MFWD 190	66,000	150	10	0.057	1.34	1.61	1.01	0.49	4.47	3.36	3.83	11.67
Cultivate & Post	12R-30	MFWD 225	67,800	150	10	0.073	1.70	2.42	1.32	0.74	6.20	4.38	5.79	16.38
Cultivate & Post	12R-38	MFWD 225	66,000	150	10	0.057	1.34	1.91	1.01	0.59	4.87	3.36	4.57	12.81
Cultivate & Post	16R-30	MFWD 225	89,200	150	10	0.055	1.27	1.82	1.30	0.56	4.96	4.32	4.34	13.63
Disk & Incorporate	14'	2WD 130	42,100	200	10	0.149	3.47	2.86	1.89	0.59	8.82	4.16	4.47	17.47
Disk & Incorporate	20'	MFWD 190	83,300	200	10	0.092	2.14	2.58	2.31	0.79	7.83	5.08	6.12	19.04
Disk & Incorporate	24'	MFWD 190	71,800	200	10	0.087	2.02	2.44	1.88	0.74	7.09	4.14	5.78	17.02
Disk & Incorporate	28'	MFWD 225	82,000	200	10	0.074	1.73	2.47	1.84	0.76	6.82	4.05	5.91	16.79
Disk & Incorporate	32'	MFWD 225	93,300	200	10	0.065	1.52	2.16	1.83	0.66	6.19	4.03	5.17	15.40
Disk Harrow	14'	2WD 130	36,300	180	10	0.140	2.62	2.68	1.41	0.56	7.28	3.74	4.19	15.22
Disk Harrow	20'	MFWD 190	77,500	180	10	0.098	1.83	2.74	2.11	0.84	7.53	5.58	6.50	19.63
Disk Harrow	24'	MFWD 190	65,900	180	10	0.081	1.52	2.28	1.49	0.70	6.01	3.96	5.42	15.39
Disk Harrow	28'	MFWD 225	76,200	180	10	0.070	1.31	2.32	1.48	0.71	5.83	3.92	5.54	15.30
Disk Harrow	32'	MFWD 225	87,500	180	10	0.061	1.14	2.03	1.49	0.62	5.29	3.94	4.85	14.09
Disk Harrow	42'	MFWD 225	139,000	180	10	0.046	0.87	1.54	1.80	0.47	4.70	4.77	3.69	13.17
Disk Harrow 40-100hp	14'	2WD 75	24,600	180	10	0.140	2.62	1.54	0.95	0.26	5.39	2.53	1.97	9.90
Disk Heavy	14'	MFWD 150	36,300	180	10	0.145	2.72	3.22	1.47	0.81	8.24	3.89	6.13	18.26
Disk Heavy	20'	MFWD 190	77,500	180	10	0.097	1.81	2.72	2.09	0.83	7.46	5.53	6.44	19.44
Disk Heavy	28'	MFWD 225	76,200	180	10	0.075	1.41	2.50	1.60	0.77	6.29	4.23	5.98	16.51
Disk Ripper	15'	MFWD 225	68,600	180	10	0.136	2.54	4.51	2.59	1.39	11.04	6.86	10.76	28.67
Ditcher		2WD 130	6,720	200	10	0.020	0.37	0.38	0.05	0.07	0.89	0.08	0.59	1.57
Ditcher (1m/160a)		2WD 130	6,720	200	10	0.009	0.17	0.17	0.02	0.03	0.41	0.04	0.28	0.73
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.59	3.41	2.61	0.86	10.49	3.67	6.50	20.67
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	3.04	3.27	2.20	0.88	9.41	3.10	6.86	19.38
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.40	2.58	1.74	0.70	7.43	2.44	5.42	15.30
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.28	2.74	1.72	0.84	7.59	2.41	6.50	16.51
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.80	2.17	1.52	0.66	6.16	2.14	5.14	13.45
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.20	1.44	1.13	0.44	4.22	1.59	3.42	9.23
Fert Appl (Liquid)	12R-30	MFWD 225	36,200	150	8	0.078	1.82	2.60	1.89	0.80	7.12	2.66	6.20	15.99
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.20	1.71	1.07	0.52	4.51	1.50	4.08	10.10
Field Cult & Inc	42'	MFWD 225	97,800	100	10	0.037	0.87	1.25	0.92	0.38	3.43	4.88	2.98	11.30
Field Cult & Inc	50'	MFWD 225	105,000	100	10	0.031	0.73	1.05	0.83	0.32	2.94	4.40	2.50	9.85
Field Cult & Inc Fld	24'	MFWD 170	47,900	100	10	0.066	1.53	1.65	0.79	0.44	4.42	4.18	3.46	12.08
Field Cult & Inc Fld	32'	MFWD 190	69,400	100	10	0.049	1.15	1.38	0.86	0.42	3.82	4.54	3.28	11.65
Field Cult & Inc Rdg	12'	2WD 150	23,200	100	10	0.132	3.06	2.91	0.76	0.62	7.38	4.05	4.71	16.15
Field Cultivate Fld	24'	MFWD 170	42,100	100	10	0.062	1.16	1.55	0.65	0.42	3.79	3.46	3.26	10.52
Field Cultivate Fld	32'	MFWD 190	63,600	100	10	0.046	0.87	1.30	0.74	0.39	3.31	3.92	3.08	10.33
Field Cultivate Fld	42'	MFWD 225	87,500	100	10	0.035	0.66	1.17	0.77	0.36	2.98	4.11	2.80	9.90
Field Cultivate Fld	50'	MFWD 225	95,700	100	10	0.029	0.55	0.98	0.71	0.30	2.56	3.77	2.35	8.70
Field Cultivate Rdg	12'	2WD 150	17,400	100	10	0.124	2.32	2.74	0.54	0.59	6.20	2.86	4.43	13.50
Grain Cart Corn	500 bu	MFWD 190	36,400	200	12	0.025	0.47	0.70	0.24	0.21	1.64	0.55	1.67	3.87
Grain Cart Corn	700 bu	MFWD 190	52,400	200	12	0.025	0.47	0.70	0.35	0.21	1.75	0.80	1.67	4.23
Grain Cart Corn	1000 bu	MFWD 225	72,800	200	12	0.025	0.47	0.83	0.49	0.25	2.06	1.11	1.99	5.18
Grain Cart Rice	500 bu	MFWD 190	36,400	200	12	0.062	1.16	1.74	0.61	0.53	4.06	1.37	4.13	9.58
Grain Cart Rice	700 bu	MFWD 190	52,400	200	12	0.055	1.02	1.53	0.78	0.47	3.81	1.74	3.64	9.20
Grain Cart Rice	1000 bu	MFWD 190	72,800	200	12	0.045	0.85	1.28	0.90	0.39	3.43	2.01	3.03	8.48
Grain Cart Soybean	500 bu	MFWD 190	36,400	200	12	0.025	0.47	0.71	0.25	0.21	1.65	0.56	1.68	3.90
Grain Cart Soybean	700 bu	MFWD 190	52,400	200	12	0.021	0.39	0.59	0.30	0.18	1.47	0.67	1.40	3.55
Grain Cart Soybean	1000 bu	MFWD 190	72,800	200	12	0.021	0.39	0.59	0.41	0.18	1.59	0.93	1.40	3.93
Grain Cart Wht/Sor	500 bu	MFWD 190	36,400	200	12	0.025	0.47	0.71	0.25	0.21	1.65	0.56	1.68	3.90
Grain Cart Wht/Sor	700 bu	MFWD 190	52,400	200	12	0.021	0.39	0.59	0.30	0.18	1.47	0.67	1.40	3.55
Grain Cart Wht/Sor	1000 bu	MFWD 190	72,800	200	12	0.021	0.39	0.59	0.41	0.18	1.59	0.93	1.40	3.93
Grain Drill	10'	2WD 130	46,400	150	8	0.188	5.23	3.60	3.28	0.75	12.87	7.92	5.64	26.44
Grain Drill	12'	2WD 130	55,400	150	8	0.157	4.36	3.00	3.26	0.62	11.26	7.88	4.70	23.84
Grain Drill	15'	MFWD 150	49,900	150	8	0.125	3.48	2.77	2.35	0.70	9.32	5.67	5.28	20.28
Grain Drill	20'	MFWD 170	55,100	150	8	0.094	2.61	2.35	1.94	0.63	7.56	4.70	4.94	17.21
Grain Drill	24'	MFWD 190	86,500	150	8	0.078	2.18	2.19	2.54	0.67	7.59	6.15	5.20	18.95
Grain Drill	30'	MFWD 225	101,500	150	8	0.062	1.74	2.08	2.39	0.64	6.86	5.77	4.96	17.60
Grain Drill	35'	MFWD 225	117,000	150	8	0.053	1.49	1.78	2.36	0.55	6.19	5.70	4.25	16.15
Grain Drill & Pre	10'	2WD 130	52,200	150	8	0.203	5.63	3.88	3.97	0.81	14.30	9.59	6.07	29.98
Grain Drill & Pre	12'	2WD 130	61,200	150	8	0.169	4.69	3.23	3.88	0.67	12.49	9.37	5.06	26.93
Grain Drill & Pre	15'	MFWD 150	55,700	150	8	0.135	3.75	2.98	2.82	0.76	10.33	6.82	5.69	22.85
Grain Drill & Pre	20'	MFWD 170	60,900	150	8	0.101	2.81	2.54	2.31	0.68	8.36	5.59	5.32	19.28
Grain Drill & Pre	24'	MFWD 190	92,300	150	8	0.084	2.34	2.36	2.92	0.72	8.36	7.07	5.60	21.04
Grain Drill & Pre	30'	MFWD 225	107,000	150	8	0.067	1.87	2.24	2.71	0.69	7.52	6.55	5.34	19.43
Grain Drill & Pre	35'	MFWD 225	123,000	150	8	0.058	1.61	1.92	2.67	0.59	6.80	6.46	4.58	17.84
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.74	2.08	1.34	0.64	5.81	3.24	4.96	14.02
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.20	1.80	0.31	0.55	3.88	0.59	4.28	8.76
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.96	1.44	0.27	0.44	3.13	0.52	3.42	7.08
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.72	1.08	0.28	0.33	2.43	0.54	2.57	5.55
Harrow - Folding	48'	MFWD 225	36,000	200	10	0.032	0.60	1.07	0.40	0.33	2.41	0.76	2.55	5.74
Header - Corn	6R-30	265 hp	75,500	300	8	0.170	3.18	6.64	3.21	8.21	21.25	6.01	39.32	66.59
Header - Corn	6R-38	265 hp	76,200	300	8	0.134	2.51	5.24	2.56	6.48	16.80	4.79	31.04	52.63
Header - Corn	8R-30	265 hp	101,000	300	8	0.127	2.38	4.98	3.22	6.15	16.75	6.03	29.49	52.28
Header - Corn	8R-38	325 hp	90,100	300	8	0.100	1.88	4.83	2.27	5.65	14.64	4.25	27.09	45.99
Header - Corn	12R-20	325 hp	152,000	300	8	0.127	2.38	6.11	4.85	7.15	20.50	9.08	34.26	63.86
Header - Corn	12R-30	325 hp	145,000	300	8	0.085	1.59	4.07	3.08	4.77	13.52	5.77	22.84	42.14
Header - Draper (CL)	25' Rigid	265 hp	83,200	300	8	0.203	3.79	7.92	3.87	9.79	25.38	7.64	46.89	79.92
Header - Draper (CL)	30' Rigid	325 hp	85,600	300	8	0.169	3.16	8.09	3.31	9.48	24.06	6.55	45.41	76.03
Header - Draper (CL)	36' Rigid	355 hp	89,900	300	8	0.141	2.63	7.36	2.90	8.16	21.07	5.73	39.11	65.92
Header - Draper (CL)	40' Rigid	425 hp	95,200	300	8	0.126	2.37	7.94	2.76	7.43	20.51	5.46	35.57	61.55
Header - Draper (SL)	25' Rigid	325 hp	83,200	300	8	0.176	3.28	8.42	3.35	9.86	24.92	6.62	47.22	78.78
Header - Draper (SL)	30' Rigid	325 hp	85,600	300	8	0.146	2.74	7.01	2.87	8.21	20.85	5.68	39.35	65.89

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Header - Draper (SL)	36' Rigid	355 hp	89,900	300	8	0.122	2.28	6.38	2.51	7.07	18.26	4.97	33.89	57.13
Header - Draper (SL)	40' Rigid	425 hp	95,200	300	8	0.110	2.05	6.88	2.39	6.43	17.77	4.73	30.83	53.35
Header -RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	4.74	9.90	3.21	12.24	30.10	6.01	58.62	94.73
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.95	10.12	2.85	11.85	28.78	5.34	56.76	90.89
Header -RiceStrp(CL)	32'	325 hp	70,800	300	8	0.158	2.96	7.59	2.80	8.89	22.25	5.25	42.57	70.08
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	4.11	8.58	2.78	10.61	26.08	5.20	50.80	82.10
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	3.42	8.77	2.47	10.27	24.94	4.63	49.19	78.77
Header -RiceStrp(SL)	32'	325 hp	70,800	300	8	0.137	2.56	6.57	2.43	7.70	19.28	4.55	36.89	60.74
Header -Soybean	22' Flex	265 hp	44,600	300	8	0.116	2.16	4.52	1.29	5.59	13.59	2.42	26.81	42.82
Header -Soybean	25' Flex	325 hp	43,700	300	8	0.102	1.90	4.88	1.11	5.72	13.64	2.08	27.41	43.14
Header -Soybean	30' Flex	325 hp	52,900	300	8	0.085	1.59	4.07	1.12	4.77	11.56	2.10	22.84	36.51
Header -Soybean	35' Flex	355 hp	60,400	300	8	0.072	1.36	3.81	1.10	4.22	10.50	2.06	20.23	32.80
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	2.16	4.52	0.57	5.59	12.87	1.07	26.81	40.76
Header Wheat/Sorghum	25' Rigid	325 hp	41,800	300	8	0.102	1.90	4.88	1.06	5.72	13.59	1.99	27.41	43.00
Header Wheat/Sorghum	30' Rigid	325 hp	55,100	300	8	0.085	1.59	4.07	1.17	4.77	11.60	2.19	22.84	36.65
Land Plane	50'x16'	MFWD 190	13,500	200	10	0.151	2.83	4.24	0.40	1.29	8.78	1.35	10.04	20.17
Levee Pull & Seed	8 Blade	MFWD 170	17,600	100	10	0.003	0.06	0.08	0.01	0.02	0.19	0.08	0.18	0.46
Levee Pull (1m/80a)	8 blade	MFWD 170	12,300	100	10	0.003	0.06	0.08	0.00	0.02	0.18	0.05	0.18	0.43
Levee Splitter (1/80	32"	MFWD 150	9,220	100	10	0.004	0.07	0.09	0.00	0.02	0.20	0.05	0.17	0.42
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	7.15	7.21	2.23	2.20	18.80	5.76	17.07	41.63
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	7.15	7.21	2.23	2.20	18.80	5.76	17.07	41.63
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	4.78	4.81	1.49	1.47	12.57	3.85	11.41	27.83
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	6.05	6.10	1.89	1.86	15.92	4.87	14.45	35.25
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	4.78	4.81	1.49	1.47	12.57	3.85	11.41	27.83
NT Grain Drill	10'	2WD 130	47,600	150	8	0.235	6.54	4.51	4.20	0.94	16.20	10.15	7.05	33.41
NT Grain Drill	12'	2WD 130	63,700	150	8	0.163	4.54	3.13	3.91	0.65	12.23	9.43	4.89	26.57
NT Grain Drill	15'	MFWD 150	76,100	150	8	0.130	3.63	2.89	3.73	0.73	10.99	9.02	5.50	25.52
NT Grain Drill	20'	MFWD 170	101,000	150	8	0.098	2.72	2.45	3.71	0.66	9.56	8.97	5.15	23.69
NT Grain Drill	24'	MFWD 190	111,300	150	8	0.081	2.27	2.28	3.41	0.70	8.67	8.24	5.42	22.34
NT Grain Drill	30'	MFWD 225	110,200	150	8	0.065	1.81	2.16	2.70	0.66	7.36	6.53	5.17	19.06
NT Grain Drill & Pre	10'	2WD 130	53,400	150	8	0.211	5.87	4.04	4.23	0.84	15.00	10.22	6.33	31.55
NT Grain Drill & Pre	12'	2WD 130	69,500	150	8	0.176	4.89	3.37	4.59	0.70	13.56	11.09	5.27	29.93
NT Grain Drill & Pre	15'	MFWD 150	81,900	150	8	0.141	3.91	3.11	4.33	0.79	12.15	10.45	5.93	28.53
NT Grain Drill & Pre	20'	MFWD 170	107,000	150	8	0.105	2.93	2.64	4.24	0.71	10.54	10.24	5.54	26.33
NT Grain Drill & Pre	24'	MFWD 190	117,000	150	8	0.088	2.44	2.46	3.86	0.75	9.53	9.33	5.83	24.70
NT Grain Drill & Pre	30'	MFWD 225	116,000	150	8	0.070	1.95	2.33	3.06	0.72	8.07	7.40	5.57	21.05
NT Plant&Pre-Folding	8R-38	MFWD 170	86,700	150	8	0.083	2.32	2.09	2.71	0.56	7.69	6.56	4.38	18.64
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	123,000	150	8	0.055	1.54	1.39	2.56	0.37	5.88	6.19	2.91	15.00
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.93	2.95	3.28	0.90	10.08	7.92	7.00	25.01
NT Plant&Pre-Folding	12R-30	MFWD 190	110,000	150	8	0.070	1.95	1.97	2.90	0.60	7.44	7.02	4.66	19.13
NT Plant&Pre-Folding	12R-38	MFWD 190	123,000	150	8	0.055	1.54	1.55	2.56	0.47	6.14	6.19	3.68	16.03
NT Plant&Pre-Folding	16R-30	MFWD 190	217,000	150	8	0.052	1.46	1.47	4.30	0.45	7.70	10.38	3.50	21.59
NT Plant&Pre-Folding	23R-15	MFWD 190	218,000	150	8	0.073	2.03	2.05	6.00	0.62	10.72	14.49	4.86	30.08
NT Plant&Pre-Folding	24R-20	MFWD 190	268,000	150	8	0.052	1.46	1.47	5.31	0.45	8.71	12.82	3.50	25.04
NT Plant&Pre-Folding	24R-30	MFWD 190	227,000	150	8	0.035	0.97	0.98	3.00	0.30	5.26	7.24	2.33	14.84
NT Plant&Pre-Folding	31R-15	MFWD 225	267,000	150	8	0.054	1.51	1.81	5.47	0.55	9.35	13.21	4.31	26.88
NT Plant&Pre-Folding	32R-15	MFWD 225	272,000	150	8	0.052	1.46	1.75	5.39	0.54	9.15	13.02	4.17	26.35
NT Plant&Pre-Rigid	4R-30	2WD 130	43,200	150	8	0.211	5.87	4.04	3.42	0.84	14.19	8.27	6.33	28.79
NT Plant&Pre-Rigid	4R-38	2WD 130	38,100	150	8	0.166	4.62	3.18	2.37	0.66	10.85	5.74	4.98	21.58
NT Plant&Pre-Rigid	6R-30	MFWD 150	52,300	150	8	0.141	3.91	3.11	2.76	0.79	10.58	6.67	5.93	23.19
NT Plant&Pre-Rigid	6R-38	MFWD 150	47,900	150	8	0.111	3.08	2.45	1.99	0.62	8.17	4.82	4.68	17.68
NT Plant&Pre-Rigid	8R-30	MFWD 170	67,600	150	8	0.105	2.93	2.64	2.68	0.71	8.98	6.47	5.54	21.00
NT Plant&Pre-Rigid	8R-38	MFWD 170	64,100	150	8	0.083	2.32	2.09	2.00	0.56	6.98	4.85	4.38	16.22
NT Plant&Pre-Rigid	11R-15	MFWD 170	70,800	150	8	0.143	3.99	3.60	3.82	0.97	12.39	9.22	7.54	29.16
NT Plant&Pre-Rigid	11R-20	MFWD 170	75,500	150	8	0.115	3.20	2.89	3.27	0.78	10.15	7.89	6.06	24.11
NT Plant&Pre-Rigid	12R-20	MFWD 190	80,500	150	8	0.105	2.93	2.95	3.19	0.90	9.99	7.70	7.00	24.70
NT Plant&Pre-Rigid	12R-30	MFWD 190	100,400	150	8	0.070	1.95	1.97	2.65	0.60	7.18	6.40	4.66	18.26
NT Plant&Pre-Rigid	15R-15	MFWD 190	98,900	150	8	0.113	3.13	3.16	4.19	0.96	11.46	10.12	7.49	29.08
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.54	1.84	3.61	0.56	7.56	8.71	4.39	20.68
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	135,300	150	8	0.083	2.32	2.76	4.24	0.85	10.18	10.24	6.60	27.03
NT Plant-Folding	8R-38	MFWD 170	80,900	150	8	0.077	2.15	1.94	2.35	0.52	6.97	5.68	4.07	16.73
NT Plant-Folding	8R-38 2x1	MFWD 170	113,000	150	8	0.051	1.43	1.29	2.19	0.35	5.26	5.28	2.71	13.26
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.72	2.74	2.85	0.84	9.16	6.88	6.50	22.56
NT Plant-Folding	12R-30	MFWD 190	99,800	150	8	0.065	1.81	1.83	2.45	0.56	6.65	5.91	4.33	16.91
NT Plant-Folding	12R-38	MFWD 190	113,000	150	8	0.051	1.43	1.44	2.19	0.44	5.51	5.28	3.42	14.22
NT Plant-Folding	16R-30	MFWD 190	206,000	150	8	0.049	1.36	1.37	3.79	0.42	6.95	9.15	3.25	19.36
NT Plant-Folding	23R-15	MFWD 190	207,000	150	8	0.068	1.89	1.90	5.29	0.58	9.67	12.77	4.51	26.97
NT Plant-Folding	24R-20	MFWD 190	258,000	150	8	0.049	1.36	1.37	4.75	0.42	7.90	11.46	3.25	22.62
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.90	0.91	2.55	0.28	4.65	6.16	2.16	12.99
NT Plant-Folding	31R-15	MFWD 225	256,000	150	8	0.050	1.40	1.68	4.87	0.51	8.48	11.76	4.01	24.25
NT Plant-Folding	32R-15	MFWD 225	261,000	150	8	0.049	1.36	1.62	4.80	0.50	8.29	11.60	3.88	23.78
NT Plant-Rigid	4R-30	2WD 130	37,400	150	8	0.196	5.45	3.75	2.75	0.78	12.75	6.65	5.87	25.27
NT Plant-Rigid	4R-38	2WD 130	32,300	150	8	0.154	4.29	2.95	1.87	0.61	9.74	4.52	4.62	18.89
NT Plant-Rigid	6R-30	MFWD 150	46,500	150	8	0.130	3.63	2.89	2.28	0.73	9.54	5.51	5.50	20.56
NT Plant-Rigid	6R-38	MFWD 150	42,100	150	8	0.103	2.86	2.28	1.63	0.58	7.36	3.93	4.34	15.65
NT Plant-Rigid	8R-30	MFWD 170	61,800	150	8	0.098	2.72	2.45	2.27	0.66	8.12	5.49	5.15	18.77
NT Plant-Rigid	8R-38	MFWD 170	58,300	150	8	0.077	2.15	1.94	1.69	0.52	6.32	4.09	4.07	14.49
NT Plant-Rigid	11R-15	MFWD 170	65,000	150	8	0.133	3.70	3.34	3.25	0.90	11.21	7.86	7.00	26.08
NT Plant-Rigid	11R-20	MFWD 170	69,700	150	8	0.107	2.97	2.68	2.80	0.72	9.19	6.77	5.62	21.60
NT Plant-Rigid	12R-20	MFWD 190	74,700	150	8	0.098	2.72	2.74	2.75	0.84	9.06	6.64	6.50	22.20
NT Plant-Rigid	12R-30	MFWD 190	90,000	150	8	0.065	1.81	1.83	2.20	0.56	6.41	5.33	4.33	16.09
NT Plant-Rigid	15R-15	MFWD 190	88,600	150	8	0.105	2.91	2.93	3.48	0.89	10.24	8.42	6.95	25.62
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.43	1.71	3.15	0.52	6.83	7.62	4.08	18.54

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	----------$/acre----------							
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	2.15	2.57	3.78	0.79	9.30	9.13	6.13	24.57
Peanut Cond.& Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.86	2.79	0.25	0.85	5.77	0.51	6.62	12.91
Peanut Conditioner	6-Row	MFWD 190	25,200	300	20	0.100	1.86	2.79	0.50	0.85	6.02	0.80	6.62	13.44
Peanut Dig/Invertor	4R-30	MFWD 190	45,800	300	15	0.235	4.40	6.59	2.68	2.01	15.71	4.14	15.61	35.47
Peanut Dig/Invertor	4R-38	MFWD 190	45,800	300	15	0.186	3.48	5.20	2.12	1.59	12.40	3.27	12.33	28.01
Peanut Dig/Invertor	6R-38	MFWD 190	64,700	300	15	0.124	2.31	3.47	1.40	1.06	8.26	3.07	8.21	19.55
Peanut Dump Cart	6-Row	MFWD 190	70,000	300	20	0.310	5.79	8.67	1.26	2.65	18.38	7.19	20.52	46.10
Peanut Harvester	4R-30	MFWD 225	181,000	300	20	0.849	15.88	28.15	8.71	8.68	61.44	48.89	67.17	177.51
Peanut Harvester	4R-38	MFWD 225	181,000	300	20	0.934	17.46	30.95	9.58	9.55	67.55	54.92	73.86	196.34
Peanut Harvester	6R-38	MFWD 225	197,000	300	20	0.625	11.68	20.70	5.95	6.38	44.72	39.97	49.39	134.09
Peanut Lifter	6-Row	MFWD 225	10,100	300	20	0.100	1.86	3.31	0.20	1.02	6.41	0.32	7.90	14.63
Peanut Plt&Pre Fold.	12R-38	MFWD 190	111,000	150	8	0.080	2.23	2.24	3.34	0.68	8.51	8.07	5.32	21.92
Peanut Plt&Pre Rigid	8R-30	MFWD 190	59,400	150	8	0.152	4.23	4.27	3.40	1.30	13.22	8.21	10.11	31.55
Peanut Plt&Pre Rigid	8R-38	MFWD 190	56,000	150	8	0.120	3.35	3.37	2.53	1.03	10.29	6.12	7.99	24.41
Peanut Ptlt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	3.35	3.37	5.75	1.03	13.51	13.88	7.99	35.39
Pipe Spool 160ac	1/4m roll	2WD 130	6,480	15	12	0.003	0.11	0.05	0.01	0.01	0.19	0.16	0.09	0.45
Pipe Trailer 1m/160a	30'	2WD 130	2,200	100	15	0.003	0.20	0.07	0.00	0.01	0.29	0.00	0.11	0.41
Plant & Pre-Folding	8R-38	MFWD 170	78,600	150	8	0.080	2.22	2.00	2.36	0.54	7.14	5.71	4.20	17.06
Plant & Pre-Folding	8R-38 2x1	MFWD 170	111,000	150	8	0.053	1.48	1.33	2.22	0.36	5.40	5.36	2.80	13.57
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.81	2.84	2.68	0.86	9.21	6.48	6.72	22.42
Plant & Pre-Folding	12R-30	MFWD 190	97,900	150	8	0.067	1.87	1.89	2.48	0.57	6.83	5.99	4.48	17.31
Plant & Pre-Folding	12R-38	MFWD 190	111,000	150	8	0.053	1.48	1.49	2.22	0.45	5.65	5.36	3.53	14.56
Plant & Pre-Folding	16R-30	MFWD 190	200,000	150	8	0.050	1.40	1.42	3.80	0.43	7.07	9.19	3.36	19.62
Plant & Pre-Folding	23R-15	MFWD 190	194,000	150	8	0.070	1.95	1.97	5.12	0.60	9.66	12.38	4.66	26.71
Plant & Pre-Folding	24R-20	MFWD 190	244,000	150	8	0.050	1.40	1.42	4.64	0.43	7.90	11.21	3.36	22.48
Plant & Pre-Folding	24R-30	MFWD 190	202,000	150	8	0.033	0.93	0.94	2.56	0.28	4.74	6.18	2.24	13.17
Plant & Pre-Folding	31R-15	MFWD 225	235,000	150	8	0.052	1.45	1.73	4.62	0.53	8.35	11.16	4.14	23.66
Plant & Pre-Folding	32R-15	MFWD 225	239,000	150	8	0.050	1.40	1.68	4.55	0.51	8.15	10.98	4.01	23.15
Plant & Pre-Rigid	4R-30	2WD 130	39,200	150	8	0.203	5.63	3.88	2.98	0.81	13.31	7.20	6.07	26.60
Plant & Pre-Rigid	4R-38	2WD 130	34,100	150	8	0.159	4.43	3.06	2.04	0.63	10.18	4.93	4.78	19.90
Plant & Pre-Rigid	6R-30	MFWD 150	46,200	150	8	0.135	3.75	2.98	2.34	0.76	9.85	5.66	5.69	21.20
Plant & Pre-Rigid	6R-38	MFWD 150	41,700	150	8	0.106	2.96	2.36	1.67	0.60	7.59	4.03	4.49	16.12
Plant & Pre-Rigid	8R-30	MFWD 170	59,400	150	8	0.101	2.81	2.54	2.26	0.68	8.30	5.45	5.32	19.09
Plant & Pre-Rigid	8R-38	MFWD 170	56,000	150	8	0.080	2.22	2.00	1.68	0.54	6.46	4.06	4.20	14.74
Plant & Pre-Rigid	11R-15	MFWD 170	59,600	150	8	0.148	4.11	3.70	3.31	1.00	12.14	7.99	7.77	27.91
Plant & Pre-Rigid	11R-20	MFWD 170	64,300	150	8	0.110	3.07	2.77	2.67	0.75	9.28	6.45	5.82	21.56
Plant & Pre-Rigid	12R-20	MFWD 190	68,300	150	8	0.101	2.81	2.84	2.60	0.86	9.12	6.27	6.72	22.13
Plant & Pre-Rigid	12R-30	MFWD 190	88,100	150	8	0.067	1.87	1.89	2.23	0.57	6.58	5.39	4.48	16.46
Plant & Pre-Rigid	15R-15	MFWD 190	83,600	150	8	0.108	3.01	3.03	3.40	0.92	10.38	8.21	7.19	25.79
Plant & Pre-TwinRow	12R-30/40	MFWD 225	161,000	150	8	0.053	1.48	1.77	3.22	0.54	7.02	7.78	4.22	19.03
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	2.22	2.65	3.82	0.82	9.52	9.22	6.34	25.10
Plant - Folding	8R-38	MFWD 170	72,800	150	8	0.074	2.06	1.86	2.03	0.50	6.47	4.91	3.90	15.29
Plant - Folding	8R-38 2x1	MFWD 170	100,000	150	8	0.049	1.37	1.24	1.86	0.33	4.81	4.49	2.60	11.91
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.61	2.63	2.30	0.80	8.36	5.56	6.24	20.17
Plant - Folding	12R-30	MFWD 190	87,500	150	8	0.062	1.74	1.75	2.06	0.53	6.10	4.97	4.16	15.24
Plant - Folding	12R-38	MFWD 190	100,000	150	8	0.049	1.37	1.38	1.86	0.42	5.05	4.49	3.28	12.82
Plant - Folding	16R-30	MFWD 190	190,000	150	8	0.047	1.30	1.31	3.35	0.40	6.38	8.10	3.12	17.61
Plant - Folding	23R-15	MFWD 190	184,000	150	8	0.065	1.81	1.83	4.51	0.56	8.72	10.90	4.33	23.96
Plant - Folding	24R-20	MFWD 190	234,000	150	8	0.047	1.30	1.31	4.13	0.40	7.16	9.98	3.12	20.27
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.87	0.87	2.16	0.26	4.18	5.23	2.08	11.50
Plant - Folding	31R-15	MFWD 225	225,000	150	8	0.048	1.35	1.61	4.11	0.49	7.57	9.92	3.85	21.35
Plant - Folding	32R-15	MFWD 225	229,000	150	8	0.047	1.30	1.56	4.04	0.48	7.39	9.77	3.72	20.89
Plant - Rigid	4R-30	2WD 130	33,400	150	8	0.188	5.23	3.60	2.36	0.75	11.95	5.70	5.64	23.30
Plant - Rigid	4R-38	2WD 130	28,200	150	8	0.148	4.12	2.84	1.57	0.59	9.12	3.79	4.44	17.35
Plant - Rigid	6R-30	MFWD 150	40,400	150	8	0.125	3.48	2.77	1.90	0.70	8.87	4.59	5.28	18.75
Plant - Rigid	6R-38	MFWD 150	35,900	150	8	0.099	2.75	2.19	1.33	0.55	6.83	3.22	4.17	14.23
Plant - Rigid	8R-30	MFWD 170	53,600	150	8	0.094	2.61	2.35	1.89	0.63	7.51	4.57	4.94	17.03
Plant - Rigid	8R-38	MFWD 170	50,200	150	8	0.074	2.06	1.86	1.40	0.50	5.84	3.38	3.90	13.13
Plant - Rigid	11R-15	MFWD 170	53,800	150	8	0.137	3.81	3.44	2.77	0.93	10.97	6.70	7.21	24.89
Plant - Rigid	11R-20	MFWD 170	58,500	150	8	0.103	2.85	2.57	2.26	0.69	8.39	5.45	5.40	19.25
Plant - Rigid	12R-20	MFWD 190	62,500	150	8	0.094	2.61	2.63	2.20	0.80	8.27	5.33	6.24	19.84
Plant - Rigid	12R-30	MFWD 190	77,800	150	8	0.062	1.74	1.75	1.83	0.53	5.87	4.42	4.16	14.46
Plant - Rigid	15R-15	2WD 150	73,300	150	8	0.094	2.61	2.08	2.59	0.44	7.73	6.25	3.36	17.35
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.37	1.64	2.79	0.50	6.31	6.73	3.92	16.97
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	2.06	2.46	3.38	0.76	8.68	8.16	5.89	22.73
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	2.32	2.38	0.21	0.49	5.42	0.38	3.72	9.52
Roller/Cultipacker	20'	MFWD 150	13,500	300	12	0.074	1.39	1.64	0.23	0.41	3.70	0.41	3.13	7.25
Roller/Cultipacker	30'	MFWD 170	21,100	300	12	0.049	0.93	1.24	0.24	0.33	2.76	0.43	2.61	5.80
Roller/Cultipacker	38'	MFWD 225	27,500	300	12	0.039	0.73	1.30	0.25	0.40	2.69	0.44	3.10	6.24
Roller/Stubble	20'	2WD 50	15,900	300	12	0.074	1.39	0.54	0.28	0.06	2.29	0.48	0.50	3.28
Roller/Stubble	32'	MFWD 225	23,700	300	12	0.046	0.87	1.54	0.26	0.47	3.15	0.45	3.68	7.29
Rotary Cutter	7'	MFWD 130	6,740	185	10	0.168	3.14	3.22	0.92	0.87	8.16	0.81	6.52	15.50
Rotary Cutter	12'	2WD 150	21,100	185	10	0.098	1.83	2.16	1.68	0.46	6.15	1.48	3.49	11.13
Rotary Cutter-Flex	15'	MFWD 150	27,500	185	10	0.078	1.46	1.73	1.75	0.44	5.39	1.54	3.30	10.24
Rotary Cutter-Flex	20'	MFWD 150	42,200	185	10	0.058	1.10	1.30	2.01	0.33	4.74	1.77	2.47	9.00
Row Cond & Inc-Fold.	26'	MFWD 190	37,600	100	10	0.063	1.47	1.77	0.59	0.54	4.38	3.15	4.20	11.74
Row Cond & Inc-Fold.	38'	MFWD 225	49,800	100	10	0.043	1.00	1.43	0.54	0.44	3.43	2.85	3.43	9.72
Row Cond & Inc-Rigid	13'	2WD 130	18,700	100	10	0.126	2.94	2.42	0.59	0.50	6.47	3.13	3.79	13.41
Row Cond & Inc-Rigid	21'	2WD 170	26,900	100	10	0.078	1.82	1.96	0.52	0.29	4.61	2.79	2.25	9.66
Row Cond & Inc-Rigid	26'	MFWD 190	29,300	100	10	0.026	0.61	0.74	0.19	0.22	1.78	1.03	1.76	4.57
Row Cond Folding	26'	MFWD 225	31,900	100	10	0.059	1.11	1.97	0.47	0.61	4.18	2.51	4.72	11.42
Row Cond Folding	38'	MFWD 225	40,100	100	10	0.040	0.76	1.35	0.40	0.41	2.94	2.16	3.23	8.34
Row Cond Rigid	13'	2WD 130	12,900	100	10	0.119	2.23	2.28	0.38	0.47	5.38	2.03	3.57	10.99

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2025 (continued)

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---- Imp.	P.U.	Total Direct	--Fixed--- Imp.	P.U.	Total Cost
			dollars	hours	years	hr/ac	$/acre							
Row Cond Rigid	21'	2WD 170	21,200	100	10	0.073	1.38	1.85	0.39	0.27	3.89	2.07	2.12	8.09
Row Cond Rigid	26'	MFWD 190	23,600	100	10	0.059	1.11	1.67	0.35	0.51	3.65	1.86	3.95	9.46
Row Cond./Roll-Fol	30'	MFWD 190	69,000	160	10	0.062	1.16	1.74	1.07	0.53	4.52	3.56	4.13	12.23
Row Cond./Roll-Fold.	26'	MFWD 190	38,000	160	10	0.072	1.34	2.01	0.68	0.61	4.66	2.26	4.77	11.70
Row Cond./Roll-Fold.	40'	MFWD 225	57,100	160	10	0.046	0.87	1.55	0.66	0.47	3.57	2.21	3.70	9.49
Row Cond./Roll-Rig	21'	MFWD 190	38,400	160	10	0.089	1.66	2.49	0.85	0.76	5.78	2.83	5.91	14.53
Row Cond./Roll-Rig	26'	MFWD 190	42,300	160	10	0.072	1.34	2.01	0.76	0.61	4.74	2.52	4.77	12.04
Spin Spreader	5 ton	MFWD 190	14,500	100	8	0.042	1.16	1.17	0.34	0.36	3.04	0.85	2.78	6.69
Spray (ATV Ropewick)	75"	800 CC	730	200	8	0.260	6.04	0.53	0.08	0.49	7.17	0.13	2.37	9.67
Spray (ATV)	20'	800 CC	1,440	200	8	0.084	1.96	0.17	0.05	0.16	2.35	0.08	0.77	3.21
Spray (Band)	27' Fold	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Band)	40' Fold	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Band)	50' Fold	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Band)	60' Fold	MFWD 170	18,600	200	8	0.028	0.65	0.70	0.24	0.19	1.79	0.36	1.47	3.64
Spray (Bcast/HB)	13' Rigid	MFWD 150	9,170	200	8	0.130	3.02	2.87	0.55	0.73	7.18	0.83	5.47	13.49
Spray (Bcast/HB)	20' Rigid	MFWD 150	10,700	200	8	0.084	1.96	1.86	0.42	0.47	4.73	0.63	3.55	8.92
Spray (Bcast/HB)	27' Fold	MFWD 170	13,600	200	8	0.062	1.45	1.56	0.39	0.42	3.84	0.59	3.28	7.73
Spray (Bcast/HB)	27' Rigid	MFWD 170	12,600	200	8	0.062	1.45	1.56	0.37	0.42	3.81	0.55	3.28	7.66
Spray (Bcast/HB)	30' Fold	MFWD 170	19,400	200	8	0.056	1.30	1.41	0.51	0.38	3.61	0.76	2.95	7.34
Spray (Bcast/HB)	40' Fold	MFWD 170	23,200	200	8	0.042	0.98	1.05	0.46	0.28	2.78	0.68	2.21	5.69
Spray (Broadcast)	27'	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Broadcast)	40'	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Broadcast)	50'	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Broadcast)	60'	MFWD 170	18,600	200	8	0.028	0.65	0.70	0.24	0.19	1.79	0.36	1.47	3.64
Spray (Direct/Hood)	8R-30	MFWD 170	19,800	200	8	0.084	1.96	2.11	0.78	0.57	5.44	1.17	4.43	11.05
Spray (Direct/Hood)	8R-38	MFWD 170	20,600	200	8	0.066	1.55	1.67	0.64	0.45	4.32	0.96	3.50	8.80
Spray (Direct/Hood)	12R-30	MFWD 170	27,100	200	8	0.056	1.30	1.41	0.71	0.38	3.82	1.07	2.95	7.85
Spray (Direct/Hood)	12R-38	MFWD 170	28,200	200	8	0.044	1.03	1.11	0.58	0.30	3.03	0.88	2.33	6.25
Spray (Direct/Layby)	8R-30	MFWD 170	19,500	200	8	0.084	1.96	2.11	0.77	0.57	5.42	1.15	4.43	11.02
Spray (Direct/Layby)	8R-38	MFWD 170	19,500	200	8	0.066	1.55	1.67	0.61	0.45	4.29	0.91	3.50	8.71
Spray (Direct/Layby)	8R-38 2x1	MFWD 170	29,500	200	8	0.044	1.03	1.11	0.61	0.30	3.06	0.92	2.33	6.32
Spray (Direct/Layby)	12R-30	MFWD 170	29,500	200	8	0.056	1.30	1.41	0.78	0.38	3.88	1.16	2.95	8.01
Spray (Direct/Layby)	12R-38	MFWD 170	29,500	200	8	0.044	1.03	1.11	0.61	0.30	3.06	0.92	2.33	6.32
Spray (Direct/Layby)	16R-20/30	MFWD 225	34,600	200	8	0.062	1.45	2.07	1.01	0.64	5.18	1.52	4.95	11.66
Spray (Levee Leaper)	50'	MFWD 225	22,200	200	8	0.033	0.78	1.12	0.35	0.34	2.60	0.52	2.67	5.80
Spray (Pull Type)	60'	MFWD 225	75,100	200	8	0.028	0.65	0.93	0.99	0.28	2.87	1.48	2.22	6.58
Spray (Pull Type)	80'	MFWD 225	69,400	200	8	0.021	0.49	0.70	0.68	0.21	2.09	1.03	1.67	4.79
Spray (Pull Type)	90'	MFWD 225	70,400	200	8	0.018	0.43	0.62	0.62	0.19	1.87	0.92	1.48	4.28
Spray (Pull Type)	120'	MFWD 225	127,000	200	8	0.014	0.32	0.46	0.83	0.14	1.77	1.25	1.11	4.14
Spray (Ropewick)	20'	MFWD 190	3,630	200	8	0.084	1.96	2.36	0.14	0.72	5.20	0.21	5.60	11.01
Spray (Spot)	27'	MFWD 170	5,810	200	8	0.062	1.45	1.56	0.17	0.42	3.61	0.25	3.28	7.16
Spray (Spot)	40'	MFWD 170	10,350	200	8	0.042	0.98	1.05	0.20	0.28	2.53	0.30	2.21	5.05
Spray (Spot)	50'	MFWD 170	9,670	200	8	0.033	0.78	0.84	0.15	0.22	2.01	0.22	1.77	4.02
Spray (Spot)	60'	MFWD 225	18,600	200	8	0.028	0.65	0.93	0.24	0.28	2.12	0.36	2.22	4.72
Stalk Shredder	14'	MFWD 150	37,500	200	10	0.117	2.20	2.60	3.86	0.66	9.33	2.92	4.95	17.21
Stalk Shredder Flex	20'	MFWD 150	33,100	200	10	0.082	1.54	1.82	2.38	0.46	6.21	1.80	3.46	11.49
Stalk Shredder-Flail	12'	MFWD 150	32,200	200	10	0.137	2.56	3.03	3.87	0.77	10.25	2.92	5.78	18.96
Stalk Shredder-Flail	15'	MFWD 150	35,700	200	10	0.110	2.05	2.42	3.43	0.61	8.53	2.59	4.62	15.75
Stalk Shredder-Flail	18'	MFWD 150	53,400	200	10	0.091	1.71	2.02	4.28	0.51	8.53	3.23	3.85	15.62
Stalk Shredder-Flail	20'	MFWD 150	47,500	200	10	0.082	1.54	1.82	3.42	0.46	7.25	2.59	3.46	13.31
Stalk Shredder-Flail	25'	MFWD 150	72,200	200	10	0.066	1.23	1.45	4.16	0.37	7.23	3.14	2.77	13.15
Strip Till	8R-38	MFWD 225	71,400	150	10	0.061	1.15	2.04	1.90	0.62	5.72	3.87	4.87	14.47
Strip Till	12R-30	MFWD 225	121,000	150	10	0.061	1.15	2.04	3.23	0.62	7.05	6.57	4.87	18.49
Strip Till	12R-40	MFWD 225	122,000	150	10	0.046	0.86	1.53	2.44	0.47	5.31	4.96	3.65	13.93
Subsoiler	3 shank	MFWD 190	6,140	100	15	0.204	3.81	5.71	0.41	1.74	11.70	1.37	13.53	26.61
Subsoiler	4 shank	MFWD 225	15,100	100	15	0.153	2.87	5.08	0.77	1.56	10.30	2.54	12.14	24.99
Subsoiler	5 shank	MFWD 225	18,600	100	15	0.122	2.28	4.05	0.75	1.25	8.34	2.49	9.67	20.51
Subsoiler low-till	6 shank	MFWD 225	28,200	100	15	0.102	1.90	3.38	0.96	1.04	7.29	3.16	8.07	18.53
Subsoiler low-till	8 shank	MFWD 225	25,700	100	15	0.076	1.43	2.53	0.65	0.78	5.40	2.15	6.04	13.61

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
		dollars
ADJUVANTS		
Agri-Dex	pt	4.03
AMS SuperMax	pt	3.81
Class Act NG	pt	5.00
Crop Oil Conc.(Pet.)	pt	2.86
Crop Oil Conc.(Veg.)	pt	2.90
Dyne-A-Pak	pt	4.17
Fire-Zone	pt	5.33
Herbimax	pt	2.75
Induce	pt	4.27
MSO	pt	3.50
Penetrator Plus	pt	2.18
Surfactant	pt	3.30
CLEANING		
Cleaning Peanuts	ton	18.00
CROP CONSULTANT		
Corn Consultant	acre	6.00
Cotton Consultant	acre	8.00
Peanut Consultant	acre	9.25
Rice Consultant	acre	8.00
Sorghum Consultant	acre	6.00
Soybeans Consultant	acre	6.50
Wheat Consultant	acre	5.50
CUSTOM FERTILIZE		
App Fert by Air	cwt	13.60
App Fert by Air(Mi	appl	13.60
Custom Apply Fert	acre	9.00
CUSTOM LIME		
Lime (Spread)	ton	51.39
CUSTOM PLANT		
Custom Plant	acre	7.50
Custom Plant Air	cwt	8.43
CUSTOM SPRAY		
App by Air (3 gal)	appl	7.50
App by Air (5 gal)	appl	8.05
App by Air (10 gal)	appl	9.50
Custom Spray Ground	acre	8.65
DRYING		
Dry Corn	bu	0.19
Dry Grain Sorghum	cwt	0.25
Dry Peanuts	ton	24.00
Dry Rice	bu	0.40
ERADICATION FEE		
Eradication	acre	1.00
FERTILIZERS		
Agrotain Ultra	pt	12.50
Amm Sulfate (21% N)	cwt	22.40
Boron Plus	pt	3.77
DAP	cwt	36.68
Fert 10-34-0	cwt	33.00
Fert 10-34-0	gal	3.85
Fert 11-37-0	cwt	33.00
Fert 41-0-0-4	cwt	38.00
Lime	ton	41.39
NBPT	pt	18.00
Phosphorus(46% P2O5)	cwt	29.10
Potash (60% K2O)	cwt	27.09
Sulfur Plus	pt	2.62
UAN (32% N)	cwt	21.78
UAN (32%)	gal	2.41
UAN + Sulfur (28%)	cwt	24.80
UAN + Sulfur (28%)	gal	2.76
Urea, Solid (46% N)	cwt	25.98
Zinc Plus	pt	3.63
FUNGICIDES		
Abound	oz	1.29
Alfa Guard	lb	1.67
Allegiance Flowabl	oz	6.33
Ameristar Top	oz	2.76
Approach Prima	pt	34.65
Apron Maxx RTA	oz	1.01
Artisan	oz	0.70
Avaris	oz	1.96
Avicta 500 Soybean	oz	2.14
Bravo Weather Stick	pt	3.49
Captan 4L	pt	4.50
Convoy	oz	1.02
Cotton Seed Trt.	acre	20.00
CruiserMaxx Vibrance	oz	4.46
Elatus	oz	3.65
Flint Extra	oz	10.11
Headline EC	oz	1.32
Miravis Ace	oz	1.48
Miravis Top	oz	1.46
Priaxor Xemium	oz	4.26
Propimax EC	pt	18.20
Prosaro	oz	1.81
Provost Optimum	oz	2.17
Provost Silver	oz	1.52
Quadris	oz	1.70
Quadris Top	oz	3.20
Quadris Top SBX	oz	3.68
Quilt	pt	4.00
Quilt XCEL	pt	26.69
Stratego	pt	22.50
Stratego YLD	oz	3.32
Tilt 3.6 EC	oz	0.87
Tilt/ Bravo SE	oz	0.87
Trivapro	oz	1.47
GINNING		
Gin & Haul	lb	0.11
GROWTH REGULATORS		
Mepex	oz	0.09
Mepichlor 4.2%	oz	0.09
Mepiquat	oz	0.05
Mepstar 6	oz	0.53
Palisade	oz	1.48
Pentia	oz	0.41
Pix WSG	oz	1.16
Stance	oz	1.50
Veto	oz	0.07
HARVEST AIDS		
Adios	oz	0.99
Boll Buster	oz	0.34
Def/Folex	pt	7.75
Defol 5	gal	8.40
Display	oz	10.59
Ethephon 6E	pt	4.76
Finish 6	pt	11.17
Folex 6EC	pt	7.75
Freefall SC	oz	1.09
Ginstar EC	pt	29.72
Gramoxone SL	oz	0.32
Sharpen	oz	7.46
Sodium Chlorate 5L	gal	8.40
SuperBoll	oz	0.33
Thidiazuron 4lb	oz	1.09
Tribufos 6lb	pt	14.70
Vacate	oz	1.39
HAULING		
Haul Corn	bu	0.31
Haul Peanuts	ton	14.50
Haul Rice	bu	0.30
Haul Sorghum	bu	0.35
Haul Soybeans	bu	0.29
Haul Wheat	bu	0.30
HERBICIDES		
2,4-D Amine 4	pt	2.23
2,4-D Ester	pt	3.14
AAtrex 4L	pt	2.98
Accent Q	oz	24.48
Acuron	oz	0.57

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2025 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Aim	oz	7.34	Halomax	oz	21.28
Aim 2EC	oz	7.34	Harmony Extra SG	oz	14.64
Anthem Flex	oz	6.68	Helmet	oz	0.61
Anthem Maxx	oz	4.79	HighCard	oz	1.14
Armezon Pro	oz	1.22	Huskie	oz	0.91
Atrazine 4L	pt	2.18	Impact	oz	16.26
Atrazine 90DF	lb	4.32	Intimidator	oz	0.64
Authority First	lb	48.45	Leadoff	oz	6.55
Authority Elite	pt	14.50	League	oz	4.61
Authority Maxx	lb	43.48	Lexar	pt	5.16
Authority MTZ	lb	19.75	Liberty 280	oz	0.46
Avatar	pt	8.04	Loyant	oz	2.64
Avenger	pt	13.75	Makaze	oz	0.17
Axial XL	oz	1.71	Metolachlor	pt	5.66
Axiom	oz	2.25	Metribuzin 4L	pt	12.60
Banvel	pt	3.86	Metribuzin 75	lb	9.05
Barrage	pt	3.83	MSMA	pt	3.97
Basagran	pt	5.43	Newpath	oz	4.50
Boundary	pt	10.19	Obey	oz	1.12
Brake	oz	1.39	Osprey	oz	4.70
Broadaxe	pt	13.50	Outlook	pt	14.94
Broadhead	lb	58.21	Panther Pro	oz	3.46
Bucaneer Plus	pt	2.16	Parallel	pt	4.52
Buctril	pt	4.28	Paraquat	oz	0.13
Butyrac 200 (2,4-DB)	pt	3.38	Parazone 3SL	oz	0.61
Cadre	oz	2.20	Permit	oz	23.42
Callisto	oz	2.99	Permit Plus	oz	23.86
Canopy	oz	3.25	PowerFlex	oz	8.02
Caparol	pt	5.00	Preface	oz	0.55
Capreno	oz	4.10	Prefix	pt	7.54
Cinch	pt	14.18	Provisia	oz	0.92
Cinch ATZ	pt	6.26	Prowl 3.3 EC	pt	6.63
Clarity	pt	15.00	Quelex	oz	9.52
Classic	oz	20.19	RealmQ	oz	4.97
Clearpath	oz	4.46	RebelEx	oz	2.23
Clethodim 2E	oz	0.23	Reflex	pt	8.18
Clincher SF	oz	2.69	Regiment	oz	48.18
Cobra	oz	0.75	Resicore	oz	0.41
Command 3ME	pt	14.95	Resource	oz	2.30
Corvus	oz	6.07	RiceBeaux	pt	6.72
Cotoran	pt	7.34	Riceshot	pt	4.68
Cotton Pro	pt	3.45	Ricestar HT	pt	27.50
Dicamba	pt	4.20	Ringside	pt	5.44
Direx	pt	3.22	Roundup Power Max	oz	0.18
Diuron	pt	3.09	Roundup PowerMax	pt	2.85
Dual II Magnum	pt	12.64	Roundup PowerMax ii	oz	0.31
Dual Magnum	pt	10.11	Roundup Pro	pt	0.20
Duet	pt	6.03	Scepter 70 DG	oz	6.04
Engenia	oz	1.06	Select Max	pt	15.01
Enlist Duo	pt	6.89	Sencor/Tricor.Metrib	lb	10.53
Enlist One	pt	7.57	Sequence	pt	7.72
Envive	oz	3.99	Sharpen	oz	7.46
Envoke	oz	100.77	Sinister	pt	11.75
Facet L	pt	17.36	Sonic	oz	3.80
Fierce	oz	7.75	Stalwart	pt	6.39
Fierce XLT	oz	4.74	Stam 80 EDF	lb	9.45
Finesse	oz	15.75	Stam M4	qt	7.85
Firestorm	pt	3.44	Staple LX	oz	8.28
First Rate	oz	34.50	Storm	pt	12.97
Flexstar	pt	8.98	Strada	oz	7.34
Flexstar GT	pt	6.75	Strada Pro	oz	7.49
Fusilade DX	oz	1.06	Strada XT2	oz	3.26
Gambit	oz	18.07	Superwham	qt	9.39
Glyphosate 3lbs a.e	pt	1.85	Suprend	lb	13.52
Glyphosate 3lbs a.e	oz	0.12	SureStart II	oz	0.45
Goal 2XL	pt	8.40	Surveil	oz	6.70
Gramoxone SL 2.0	oz	0.32	Synchrony XP	oz	12.00
Grandstand R	pt	21.42	Tavium	gal	76.16
Grasp	oz	13.56	Tempest	pt	27.52
Grasp Xtra	oz	1.72	Touchdown Total	qt	10.21
Halex GT	pt	6.11			

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2025 (continued)

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
Treflan	pt	3.65	Mustang Max	oz	1.48
Trifluralin	pt	3.65	Nuprid 4F	oz	1.16
Triflurex	pt	3.47	Oberon	oz	3.67
Ultra Blazer	pt	5.44	Orthene 97	lb	27.26
Valor EZ	oz	5.27	Permethrin	oz	0.58
Valor SX	oz	3.06	Portal XLO	oz	0.74
Valor XLT	oz	3.59	Pounce 25WP	lb	19.96
Vamos	pt	6.49	Prevathon	oz	1.47
Verdict	oz	1.54	Python WDG	oz	19.25
Veritas	pt	7.49	Radiant	oz	6.87
Villain	pt	5.24	Sevin SL	pt	12.25
Volunteer	pt	10.63	Sevin XLR Plus	qt	19.25
Warrant	pt	4.60	Sivanto Prime	oz	3.18
XtendiMax	oz	0.92	Tempest	oz	1.72
Zidua SC	oz	5.51	Tenchu SG	oz	1.19
Zidua WG	oz	7.30	Transform WG	oz	9.34
INOCULANT			Up-Cyde	oz	0.84
Inoculant -Soybean	acre	1.55	Warrior II ZT	oz	3.02
Optimize LIFT	oz	0.58	Zeal	oz	7.91
INSECTICIDES			IRRIGATION SUPPLIES		
Abamectin .15EC	oz	0.31	Roll-Out Pipe	ft	0.24
Acephate 90%	lb	6.75	SEED/PLANTS		
Acephate 90SP	lb	6.75	Corn Seed BtRR	thous	3.61
Admire Pro	oz	2.19	Corn Seed Conv.	thous	3.80
Agri-Mek	oz	3.24	Corn Seed Op Leptra	thous	4.95
Asana .66 XL	oz	0.51	Corn Seed RR2	thous	4.55
Avenger	oz	0.86	Corn Seed VT2P	thous	3.79
Baythroid XL	oz	1.22	Cot. Seed B3XF/W3FE	thous	3.23
Belt	oz	6.41	Cotton Seed B3TXF	thous	3.27
Besiege	oz	2.91	Cotton Seed GLB2	thous	1.89
Bidrin 8EC	oz	1.60	Cotton Seed ThryvOn	thous	3.64
Bifenthrin	oz	0.48	Cotton Seed W3FE	thous	3.18
Bifenture 2EC	oz	0.47	Cotton Seed W3RF	thous	1.50
Brigade EC	pt	20.45	Peanut Seed	lb	1.15
Capture LFR	oz	1.32	Rice Conv Hyb Trt	lb	6.31
Centric 40WG	oz	7.29	Rice Fullpage Hyb Tr	lb	6.34
Cypermethrin	oz	0.65	Rice Seed CF(Levees)	lb	1.30
Declare	oz	1.73	Rice Seed Clearfield	lb	1.28
Diamond .83EC	oz	2.25	Rice Seed Conv.	lb	0.33
Dimethoate 4E	pt	8.51	Rice Seed Cv(Levees)	lb	0.33
Dimilin 2L	oz	2.45	Rice Seed CvH(Levee)	lb	1.93
Endigo	oz	2.04	Rice Seed FPH(Levee)	lb	6.34
Force 3G	lb	7.28	Rice Seed Max-Ace	lb	8.89
Hero	oz	1.36	Rice Seed Provisia	lb	1.32
Imidacloprid 4F	oz	0.48	Rice Seed Trt/Insect	lbseed	0.29
Imidan 70 WSB	oz	1.55	Sorghum Concept	lb	4.20
IncidentalPestTrt $8	acre	8.00	Sorghum Concept+ Po	lb	4.16
IncidentalPestTrt$15	acre	15.00	Soybean Enlist E3	lb	1.03
IncidentalPestTrt$22	acre	22.00	Soybean Seed LL	lb	1.32
IncidentalPestTrt$30	acre	30.00	Soybean Seed RR2	lb	1.15
Intrepid 2F	oz	2.28	Soybean Seed RR2X	lb	1.16
Intruder 70WSP	oz	1.13	Wheat Seed Private	lb	0.24
LambdaT	oz	2.10	SOIL TEST		
Lannate LV	pt	8.60	Soil Test	acre	10.00
Macho	oz	0.66	SURVEY & MARK LEVEES		
Malathion 8E	pt	9.84	Survey & Mark Levees	acre	4.50
			Survey & Mark Levees	acre	4.50

Appendix Table 5. Estimated fuel prices and interest rates, Mississippi, 2025

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	2.86
Gasoline	gal	2.96
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, 2025

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	18.69
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, 2025

Crop	unit	Futures Contract Month	Futures Contract Price[a]	Basis[b]	Forward Contract Price[c]	Loan Rate[d]	Budget Price[e]
Corn	bu	Dec '25	4.57	-0.08	4.49	2.35	4.49
Cotton Lint	lb	Dec '25	0.7352	-0.0151	0.7201	0.52	0.7201
Cottonseed	lb						0.11[f]
Grain Sorghum	bu				4.27	4.09	4.27
Peanuts	ton				475.00	354.89	475.00
Soybeans	bu	Nov '25	10.88	-0.01	10.87	6.41[5]	10.87
Rice	bu	Nov '25	6.16	-0.16	6.00	3.21	6.00
Wheat	bu	Jul '25	6.41	-0.14	6.27	3.60	6.27

[a] Average of the daily closing futures contract prices during the first 5 trading days in October 2024 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 2024 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 2024 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2024 Farm-stored Loan Rate for long grain rough rice. National 2024 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 2008-2024.

Appendix Table 8. Estimated costs for field operations, per acre
Full-season soybeans irrigated with roll-out pipe
160-acre system, 9 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	OP INPUT	DIRECT COST FUEL	R&M	LABOR	LEASE	INTER	TOTAL	FIXED COST	TOTAL COST
			dollars							
Land Plane	50'x16'		1.06	0.42	0.71		0.18	2.37	2.85	5.22
Set Up Engine										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Ditcher (1m/160a)			0.23	0.09	0.18		0.01	0.51	0.53	1.04
Roll-Out Pipe	ft	7.92					0.22	8.14		8.14
Lay Roll-out Pipe										
Pipe Spool 160ac	1/4m roll		0.31	0.13	0.46		0.02	0.92	1.31	2.23
IRRIGATE LABOR	hour				1.81		0.05	1.86		1.86
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23		0.01	0.24		0.24
Apply Water										
IRRIGATE LABOR	hour				0.23			0.23		0.23
Pick Up Pipe										
Pipe Spool 160ac	1/4m roll		0.47	0.20	0.69		0.01	1.37	1.96	3.33
Land Forming ($450)	each								43.97	43.97
Well & Pump, Furrow	each			2.96			0.08	3.04	12.03	15.07
Main Line Pipe	each								6.65	6.65
Engine, RPF, ESB	each								11.82	11.82
1st June Irrigation	ac-in		6.99	1.40			0.23	8.62		8.62
2nd June Irrigation	ac-in		6.99	1.40			0.23	8.62		8.62
July Irrigation	ac-in		6.99	1.40			0.17	8.56		8.56
TOTALS		7.92	23.04	8.00	4.77	0.00	1.23	44.96	81.12	126.08

Note: Cost of production estimates are based on 2024 input prices.

Appendix Table 9 Estimated costs for field operations, per acre
Irrigation with a contour flood system
80-acre system, 13.5 ac-in., Delta Area, Mississippi, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.45		0.02	0.47		0.47
Build Outside Levee										
Levee Pull (1m/80a)	8 blade		0.40	0.15	0.30		0.03	0.88	1.10	1.98
Survey & Mark Levees	acre	2.25					0.08	2.33		2.33
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.54	0.20	0.40		0.04	1.18	1.47	2.65
Butt Levees										
Blade-Box	6'-7'		0.50	0.16	0.37		0.04	1.07	1.07	2.14
IRRIGATE LABOR	hour				0.68		0.02	0.70		0.70
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.42	0.14	0.31		0.03	0.90	1.07	1.97
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.54	0.20	0.40		0.03	1.17	1.47	2.64
Butt Levees										
Blade-Box	6'-7'		0.50	0.16	0.37		0.03	1.06	1.07	2.13
IRRIGATE LABOR	hour				0.68		0.02	0.70		0.70
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.42	0.14	0.31		0.02	0.89	1.07	1.96
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.54	0.20	0.40		0.02	1.16	1.47	2.63
Butt Levees										
Blade-Box	6'-7'		0.50	0.16	0.37		0.02	1.05	1.07	2.12
IRRIGATE LABOR	hour				0.68		0.01	0.69		0.69
Apply Water										
IRRIGATE LABOR	hour				0.11			0.11		0.11
Tear Down Levees										
Levee Splitter (1/80	32"		0.42	0.14	0.31		0.02	0.89	1.07	1.96
Tear Down Levees										
Levee Splitter (1/80	32"		0.31	0.10	0.23		0.01	0.65	0.81	1.46
Land Forming ($113)	each								11.04	11.04
Well & Pump, Flood	each			5.91			0.20	6.11	24.06	30.17
Engine, CF, 75	each								23.64	23.64
June Irrigation	ac-in		10.48	2.80			0.46	13.74		13.74
July Irrigation	ac-in		10.48	2.80			0.37	13.65		13.65
August Irrigation	ac-in		10.48	2.80			0.27	13.55		13.55
TOTALS		2.25	36.53	16.06	6.59	0.00	1.74	63.17	71.48	134.65

Note: Cost of production estimates are based on 2024 input prices.

Appendix Table 10 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, 2025

OPERATION/ OPERATING INPUT	SIZE/ UNIT	DIRECT COST							FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL		
		dollars								
Set Up Engine										
IRRIGATE LABOR	hour				0.07			0.07		0.07
Maintenance										
IRRIGATE LABOR	hour				0.27		0.01	0.28		0.28
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Apply Water										
IRRIGATE LABOR	hour				0.05			0.05		0.05
Apply Water										
IRRIGATE LABOR	hour				0.04			0.04		0.04
Pivot, 1/2 CP	each			8.60			0.30	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		14.08	0.68			0.51	15.27		15.27
July Irr. 4app@.75"	ac-in		18.77	0.91			0.54	20.22		20.22
Aug Irr. 3app@.75"	ac-in		14.08	0.68			0.30	15.06		15.06
TOTALS		0.00	46.93	12.00	0.47	0.00	1.70	61.10	56.45	117.55

Note: Cost of production estimates are based on 2024 input prices.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.

2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.

3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968.".

4. Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961

5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.

6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.

7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.

8. "Corn, Grain Sorghum & Wheat 2024 Planning Budgets." Budget Report No. 2023-03, Department of Agricultural Economics, Mississippi State University, November 2023.

9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.

9

10. "Cotton 2024 Planning Budgets." Budget Report No. 2023-01, Department of Agricultural Economics, Mississippi State University, November 2023.

11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.

12. "Forage 2025 Planning Budgets." Budget Report No. 2024-08, Department of Agricultural Economics, Mississippi State University, April 2024.

13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.

14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.

15. "Peanuts 2024 Planning Budgets." Budget Report No. 2023-07, Department of Agricultural Economics, Mississippi State University, November 2023.

16. "Rice 2024 Planning Budgets." Budget Report No. 2023-04, Department of Agricultural Economics, Mississippi State University, November 2023.

17. "Soybeans 2024 Planning Budgets." Budget Report No. 2023-02, Department of Agricultural Economics, Mississippi State University, November 2023.

18." United States Department of Agriculture Farm Service Agency. *Commodity Loan Rates*. https://www.fsa.usda.gov/programs-and-services/price-support/commodity-loan-rates/index. Accessed October 22,2021.

19. "Vegetables 2018 Planning Budgets." Budget Report No. 2017-09, Department of Agricultural Economics, Mississippi State University December 2017.

Mark E. Keenum, President

Division of Agriculture, Forestry, and Veterinary Medicine
Keith H. Coble, Vice President

Department of Agricultural Economics
Sean Fox, Department Head