

**SOYBEANS
2024
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2023-02**

November 2023

Foreword

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

Acknowledgments

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

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.

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

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2024 Planning Budgets

Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

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

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

Machinery

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

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2023 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

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

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2209	3.96	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR					
	hour	17.90	0.2966	5.31	_____
DIESEL FUEL					
Tractors	gal	3.44	3.4114	11.74	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
INTEREST ON OP. CAP.	acre	21.10	1.0000	21.10	_____
TOTAL DIRECT EXPENSES				452.44	_____
FIXED EXPENSES					
Implements	acre	18.85	1.0000	18.85	_____
Tractors	acre	19.07	1.0000	19.07	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
TOTAL FIXED EXPENSES				63.75	_____
TOTAL SPECIFIED EXPENSES				516.19	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 1.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	42.0000	532.14	_____

TOTAL INCOME				532.14	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	127.02	1.0000	127.02	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
OPERATOR LABOR	hour	17.94	0.3295	5.91	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL	gal	3.44	5.1352	17.66	_____
REPAIR & MAINTENANCE	acre	14.62	1.0000	14.62	_____
INTEREST ON OP. CAP.	acre	21.10	1.0000	21.10	_____

TOTAL DIRECT EXPENSES				452.44	_____
RETURNS ABOVE DIRECT EXPENSES				79.70	_____
TOTAL FIXED EXPENSES				63.75	_____

TOTAL SPECIFIED EXPENSES				516.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				15.95	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 1.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
							-----hours-----				
Soil Test	acre			0.33	Oct	0.3330					
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					48.0000					
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 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 1.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39			0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus (46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59			0.44	5.75	7.82	13.57
App by Air (5 gal)	appl	8.11						0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00						0.44	8.44		8.44
2,4-D Amine 4	pt	5.44						0.30	5.74		5.74
Select Max	pt	15.01						0.83	15.84		15.84
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50						2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Enlist Duo	pt	20.72						0.71	21.43		21.43
Dual Magnum	pt	10.75						0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Zidua WG	oz	13.14						0.45	13.59		13.59
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Acephate 90SP	lb	6.19						0.09	6.28		6.28
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	11.34						0.08	11.42		11.42
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
TOTALS		387.28	17.66	14.62	11.78	0.00	21.10	452.44	63.75	516.19	

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

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

Table 1.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	532.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	52.61	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	14.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
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	5.07	0.00	0.00	0.00	0.00	0.00	2.19	0.90	0.00	0.00	0.00	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.91	0.00	0.00	0.00	0.00	0.00	2.70	1.02	0.00	0.00	0.00	6.03
REPAIR & MAINTENANCE	3.98	0.00	0.00	0.00	0.00	0.00	3.94	0.42	0.00	0.00	0.00	6.28
INTEREST ON OP. CAP.	10.87	0.00	0.00	0.00	2.43	0.00	4.82	2.11	0.00	0.00	0.68	0.19
TOTAL DIRECT EXPENSES	142.61	0.00	0.00	0.00	46.43	0.00	122.07	63.56	0.00	0.00	50.31	27.46
NET INCOME	-142.61	0.00	0.00	0.00	-46.43	0.00	-122.07	-63.56	0.00	0.00	-50.31	504.68
NET INCOME TO DATE	-142.61	-142.61	-142.61	-142.61	-189.04	-189.04	-311.11	-374.67	-374.67	-374.67	-424.98	79.70

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

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

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
 Non-irrigated, Delta Area, Mississippi, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-247 -310	-233 -297	-220 -284	-207 -271	-193 -257	-180 -244	-167 -231	-154 -217	-140 -204	-127 -191	-114 -177
60	25.20	bu	-208 -272	-192 -256	-176 -240	-160 -224	-144 -208	-128 -192	-112 -176	-96 -160	-80 -144	-64 -128	-48 -112
70	29.40	bu	-169 -233	-151 -214	-132 -196	-113 -177	-95 -158	-76 -140	-57 -121	-39 -103	-20 -84	-2 -65	16 -47
80	33.60	bu	-130 -194	-109 -173	-88 -152	-67 -130	-45 -109	-24 -88	-3 -66	18 -45	39 -24	60 -3	81 18
90	37.80	bu	-92 -155	-68 -131	-44 -107	-20 -84	3 -60	27 -36	51 -12	75 11	99 35	123 59	147 83
100	42.00	bu	-53 -117	-26 -90	-0 -63	26 -37	53 -10	79 15	106 42	132 69	159 95	186 122	212 148
110	46.20	bu	-14 -78	14 -49	43 -19	73 9	102 38	131 68	161 97	190 126	219 155	248 185	278 214
120	50.40	bu	24 -39	56 -7	88 24	119 56	151 88	183 120	215 152	247 183	279 215	311 247	343 279
130	54.60	bu	62 -0	97 33	132 68	166 102	201 137	235 172	270 206	305 241	339 275	374 310	408 345
140	58.80	bu	101 37	138 75	176 112	213 149	250 186	287 224	325 261	362 298	399 335	436 373	474 410
150	63.00	bu	140 76	180 116	220 156	260 196	300 236	340 276	379 316	419 356	459 396	499 435	539 475

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 2.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.0000	40.55	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
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	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	60.0000	16.20	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3601	6.46	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL					
Tractors	gal	3.44	5.0744	17.46	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
Roll-Out Pipe Irr.	gal	3.44	7.3316	25.23	_____
REPAIR & MAINTENANCE					
Implements	acre	8.14	1.0000	8.14	_____
Tractors	acre	3.70	1.0000	3.70	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	23.66	1.0000	23.66	_____
TOTAL DIRECT EXPENSES				544.27	_____
FIXED EXPENSES					
Implements	acre	23.72	1.0000	23.72	_____
Tractors	acre	28.53	1.0000	28.53	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				152.55	_____
TOTAL SPECIFIED EXPENSES				696.82	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	60.0000	760.20	_____

TOTAL INCOME				760.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.55	1.0000	40.55	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	127.02	1.0000	127.02	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	16.20	1.0000	16.20	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.4687	8.41	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL	gal	3.44	14.1298	48.61	_____
REPAIR & MAINTENANCE	acre	24.12	1.0000	24.12	_____
INTEREST ON OP. CAP.	acre	23.66	1.0000	23.66	_____

TOTAL DIRECT EXPENSES				544.27	_____
RETURNS ABOVE DIRECT EXPENSES				215.93	_____
TOTAL FIXED EXPENSES				152.55	_____

TOTAL SPECIFIED EXPENSES				696.82	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				63.38	_____

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
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					48.0000				
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 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39			0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59			0.44	5.75	7.82	13.57
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07			0.56	7.39	8.08	15.47
App by Air (5 gal)	appl	8.11						0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00						0.44	8.44		8.44
2,4-D Amine 4	pt	5.44						0.30	5.74		5.74
Select Max	pt	15.01						0.83	15.84		15.84
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50						2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Enlist Duo	pt	20.72						0.71	21.43		21.43
Dual Magnum	pt	10.75						0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Zidua WG	oz	13.14						0.45	13.59		13.59
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Miravis Top	oz	20.82						0.43	21.25		21.25
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Acephate 90SP	lb	6.19						0.09	6.28		6.28
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	16.20						0.11	16.31		16.31
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
Roll-Out Pipe Irr.	acre	7.92	27.73	7.96	4.71			1.36	49.68	80.72	130.40
TOTALS		429.32	48.61	24.12	18.56	0.00	23.66	544.27	152.55	696.82	

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	760.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	52.61	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	14.19	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	53.50	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	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
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	7.82	0.00	0.00	0.00	0.00	0.00	2.19	1.13	2.89	0.23	0.00	4.30
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	12.41	0.00	0.00	0.00	0.00	0.00	2.70	1.02	17.48	8.41	0.00	6.59
REPAIR & MAINTENANCE	5.91	0.00	0.00	0.00	0.00	0.00	3.94	0.42	5.98	1.40	0.00	6.47
INTEREST ON OP. CAP.	11.62	0.00	0.00	0.00	2.43	0.00	4.82	2.12	0.95	0.81	0.68	0.23
TOTAL DIRECT EXPENSES	152.54	0.00	0.00	0.00	46.43	0.00	122.07	63.80	35.22	40.11	50.31	33.79
NET INCOME	-152.54	0.00	0.00	0.00	-46.43	0.00	-122.07	-63.80	-35.22	-40.11	-50.31	726.41
NET INCOME TO DATE	-152.54	-152.54	-152.54	-152.54	-198.97	-198.97	-321.04	-384.84	-420.06	-460.17	-510.48	215.93

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT			PERCENT										
			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	30.00	bu	-251 -403	-232 -384	-213 -365	-194 -346	-175 -327	-156 -308	-137 -289	-118 -270	-99 -251	-79 -232	-60 -213
60	36.00	bu	-195 -348	-172 -325	-150 -302	-127 -279	-104 -256	-81 -234	-58 -211	-36 -188	-13 -165	9 -142	32 -120
70	42.00	bu	-140 -292	-113 -266	-87 -239	-60 -213	-33 -186	-7 -159	19 -133	45 -106	72 -79	99 -53	125 -26
80	48.00	bu	-84 -237	-54 -207	-24 -176	6 -146	36 -115	67 -85	97 -54	127 -24	158 5	188 36	219 66
90	54.00	bu	-29 -182	4 -147	38 -113	73 -79	107 -45	141 -11	175 23	209 57	244 91	278 125	312 160
100	60.00	bu	25 -126	63 -88	101 -50	139 -12	177 25	215 63	253 101	291 139	329 177	367 215	405 253
110	66.00	bu	81 -71	123 -29	164 12	206 54	248 95	290 137	332 179	373 221	415 263	457 305	499 346
120	72.00	bu	136 -15	182 29	227 75	273 120	319 166	364 212	410 257	455 303	501 348	547 394	592 440
130	78.00	bu	192 39	241 88	290 138	340 187	389 237	439 286	488 335	537 385	587 434	636 484	686 533
140	84.00	bu	247 94	300 148	353 201	407 254	460 307	513 360	566 414	619 467	673 520	726 573	779 627
150	90.00	bu	302 150	359 207	416 264	473 321	530 378	587 435	644 492	701 549	758 606	815 663	872 720

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 3.A Estimated costs per acre
Soybeans, full-season, Enlist E3, stale seedbed, 16R30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3362	6.02	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
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	17.90	0.2284	4.09	_____
DIESEL FUEL					
Tractors	gal	3.44	3.8348	13.17	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
Contour Flood Irr.	gal	3.44	10.9974	37.83	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	2.75	1.0000	2.75	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	22.51	1.0000	22.51	_____
TOTAL DIRECT EXPENSES				519.65	_____
FIXED EXPENSES					
Implements	acre	16.51	1.0000	16.51	_____
Tractors	acre	21.36	1.0000	21.36	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____
TOTAL FIXED EXPENSES				124.10	_____
TOTAL SPECIFIED EXPENSES				643.75	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	53.0000	671.51	_____

TOTAL INCOME				671.51	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	108.44	1.0000	108.44	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	17.94	0.4566	8.18	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL	gal	3.44	16.7057	57.43	_____
REPAIR & MAINTENANCE	acre	28.94	1.0000	28.94	_____
INTEREST ON OP. CAP.	acre	22.51	1.0000	22.51	_____

TOTAL DIRECT EXPENSES				519.65	_____
RETURNS ABOVE DIRECT EXPENSES				151.86	_____
TOTAL FIXED EXPENSES				124.10	_____

TOTAL SPECIFIED EXPENSES				643.75	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				27.76	_____

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Nov	0.3330				
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					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
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 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus (46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00						0.50	8.50		8.50
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50						2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.05	1.22	1.66	2.88
Enlist Duo	pt	20.72						0.85	21.57		21.57
Dual Magnum	pt	10.75						0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
App by Air (5 gal)	appl	8.11						0.22	8.33		8.33
Miravis Top	oz	20.82						0.57	21.39		21.39
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	14.31						0.10	14.41		14.41
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
Contour Flood Irr.	acre	2.25	43.91	15.89	6.45			1.92	70.42	70.30	140.72
TOTALS		395.07	57.43	28.94	15.70	0.00	22.51	519.65	124.10	643.75	

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

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

Table 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, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	8.11	16.22	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	29.13	0.00	0.00	71.31	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
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	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	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	2.09	0.00	0.00	0.45	0.00	0.00	3.09	2.57	1.83	1.83	0.22	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.26	0.00	0.00	0.51	0.00	0.00	3.21	15.34	14.35	14.35	0.38	6.03
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.21	0.00	0.00	4.15	9.50	3.25	3.25	0.10	6.28
INTEREST ON OP. CAP.	10.09	0.00	0.00	1.96	0.00	0.00	6.45	1.29	1.33	0.69	0.49	0.21
TOTAL DIRECT EXPENSES	132.42	0.00	0.00	33.58	0.00	0.00	163.29	38.95	50.02	34.42	36.52	30.45
NET INCOME	-132.42	0.00	0.00	-33.58	0.00	0.00	-163.29	-38.95	-50.02	-34.42	-36.52	641.06
NET INCOME TO DATE	-132.42	-132.42	-132.42	-166.00	-166.00	-166.00	-329.29	-368.24	-418.26	-452.68	-489.20	151.86

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-260 -384	-243 -367	-227 -351	-210 -334	-193 -317	-176 -300	-159 -284	-143 -267	-126 -250	-109 -233	-92 -216
60	31.80	bu	-211 -335	-191 -315	-171 -295	-151 -275	-131 -255	-110 -235	-90 -214	-70 -194	-50 -174	-30 -154	-10 -134
70	37.10	bu	-162 -286	-139 -263	-115 -239	-92 -216	-68 -192	-45 -169	-21 -145	1 -122	25 -98	48 -75	72 -51
80	42.40	bu	-113 -237	-87 -211	-60 -184	-33 -157	-6 -130	20 -103	47 -76	74 -49	101 -23	127 3	154 30
90	47.70	bu	-64 -189	-34 -158	-4 -128	25 -98	55 -68	86 -37	116 -7	146 22	176 52	207 82	237 113
100	53.00	bu	-16 -140	17 -106	51 -72	84 -39	118 -5	151 27	185 61	219 94	252 128	286 162	319 195
110	58.30	bu	32 -91	69 -54	106 -17	143 19	180 56	217 93	254 130	291 167	328 204	365 241	402 278
120	63.60	bu	81 -42	122 -1	162 38	202 78	242 118	283 159	323 199	363 239	404 280	444 320	484 360
130	68.90	bu	130 6	174 50	218 93	261 137	305 181	348 224	392 268	436 312	479 355	523 399	567 443
140	74.20	bu	179 55	226 102	273 149	320 196	367 243	414 290	461 337	508 384	555 431	602 478	649 525
150	79.50	bu	228 104	278 154	329 205	379 255	430 305	480 356	530 406	581 457	631 507	681 557	732 608

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 4.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____
TOTAL DIRECT EXPENSES				474.29	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				571.89	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____

TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.52	1.0000	18.52	_____

TOTAL DIRECT EXPENSES				474.29	_____
RETURNS ABOVE DIRECT EXPENSES				159.21	_____
TOTAL FIXED EXPENSES				97.60	_____

TOTAL SPECIFIED EXPENSES				571.89	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				61.61	_____

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Miravis Top	oz					13.7000				
Surfactant	pt					0.1000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					50.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05	
TOTALS						-----				
						0.16	0.15	0.27	0.14	

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Soybeans Consultant	acre	6.50						0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15			0.30	9.09	12.51	21.60
Soybean Enlist E3	lb	53.50						1.84	55.34		55.34
CruiserMaxx Vibrance	oz	12.21						0.42	12.63		12.63
Inoculant -Soybean	acre	1.55						0.05	1.60		1.60
Boundary	pt	24.00						0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84						0.54	16.38		16.38
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44			0.03	1.19	1.66	2.85
Enlist Duo	pt	20.72						0.57	21.29		21.29
Dual Magnum	pt	10.75						0.30	11.05		11.05
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Miravis Top	oz	20.82						0.43	21.25		21.25
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Prevathon	oz	14.70						0.30	15.00		15.00
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	3.58						0.07	3.65		3.65
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84			0.09	13.56	24.45	38.01
Haul Soybeans	bu	13.50						0.09	13.59		13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71			0.02	2.41	2.53	4.94
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47			1.97	70.87	56.45	127.32
TOTALS			361.06	65.67	22.43	6.61	0.00	18.52	474.29	97.60	571.89

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.19	0.49	0.04	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	4.98	1.55	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	149.57	57.71	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-149.57	-57.71	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-280.94	-338.65	-428.40	-444.73	159.21

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices..

Table 5.A Estimated costs per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.1764	3.17	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
	hour	17.89	0.2671	4.78	_____
DIESEL FUEL					
Tractors	gal	3.44	2.7243	9.37	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
INTEREST ON OP. CAP.	acre	16.79	1.0000	16.79	_____
TOTAL DIRECT EXPENSES				357.92	_____
FIXED EXPENSES					
Implements	acre	17.54	1.0000	17.54	_____
Tractors	acre	15.23	1.0000	15.23	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
TOTAL FIXED EXPENSES				60.26	_____
TOTAL SPECIFIED EXPENSES				418.18	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 5.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2024

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

TOTAL INCOME				544.81	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.22	1.0000	16.22	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	92.75	1.0000	92.75	_____
INSECTICIDES	acre	6.19	1.0000	6.19	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0647	0.58	_____
OPERATOR LABOR	hour	17.94	0.2968	5.33	_____
UNALLOCATED LABOR	hour	17.89	0.2671	4.78	_____
DIESEL FUEL	gal	3.44	4.5978	15.80	_____
REPAIR & MAINTENANCE	acre	13.81	1.0000	13.81	_____
INTEREST ON OP. CAP.	acre	16.79	1.0000	16.79	_____

TOTAL DIRECT EXPENSES				357.92	_____
RETURNS ABOVE DIRECT EXPENSES				186.89	_____
TOTAL FIXED EXPENSES				60.26	_____

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

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 5.C Estimated resource use for field operations, per acre Soybeans, full-season, Enlist E3, April planted, 16R30" Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	16R-30	MFWD 300	0.047	1.00	Apr		0.04	0.04	0.09	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	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 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 5.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	25.91						2.14	28.05		28.05
Potash (60% K2O)	cwt	36.20						2.99	39.19		39.19
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59			0.44	5.75	7.82	13.57
App by Air (5 gal)	appl	8.11						0.39	8.50		8.50
Glyphosate 3lbs a.e	oz	8.00						0.39	8.39		8.39
2,4-D Amine 4	pt	5.44						0.26	5.70		5.70
Plant - Folding	16R-30		2.50	3.46	2.04			0.33	8.33	11.15	19.48
Soybean Enlist E3	lb	53.50						2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Enlist Duo	pt	20.72						0.71	21.43		21.43
Dual Magnum	pt	10.75						0.37	11.12		11.12
Soybeans Consultant	acre	6.50						0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.02	1.19	1.66	2.85
Acephate 90SP	lb	6.19						0.09	6.28		6.28
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	11.61						0.08	11.69		11.69
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
TOTALS		300.83	15.80	13.81	10.69	0.00	16.79	357.92	60.26	418.18	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 5.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	544.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	62.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	13.44	39.84	39.47	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.68	0.00	0.00	0.00	0.00	0.00	2.04	0.90	0.00	0.00	0.45	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.74	0.00	0.00	0.00	0.00	0.00	2.50	1.02	0.00	0.00	0.51	6.03
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.00	0.00	3.46	0.42	0.00	0.00	0.21	6.28
INTEREST ON OP. CAP.	8.87	0.00	0.00	0.00	0.00	1.04	4.73	1.66	0.00	0.00	0.30	0.19
TOTAL DIRECT EXPENSES	116.32	0.00	0.00	0.00	0.00	22.59	119.60	49.97	0.00	0.00	21.71	27.73
NET INCOME	-116.32	0.00	0.00	0.00	0.00	-22.59	-119.60	-49.97	0.00	0.00	-21.71	517.08
NET INCOME TO DATE	-116.32	-116.32	-116.32	-116.32	-116.32	-138.91	-258.51	-308.48	-308.48	-308.48	-330.19	186.89

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

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

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, April planted, 16R30"
 Non-Delta Area, Mississippi, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 6.A Estimated costs per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	64.0000	16.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.33	96.0000	31.68	_____
Boundary	pt	12.00	2.0000	24.00	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	0.56	1.0500	0.59	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2407	4.32	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0587	1.06	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
	hour	17.88	0.3461	6.19	_____
DIESEL FUEL					
Tractors	gal	3.44	3.7171	12.79	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.7484	2.56	_____
REPAIR & MAINTENANCE					
Implements	acre	7.81	1.0000	7.81	_____
Tractors	acre	2.69	1.0000	2.69	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	1.04	1.0000	1.04	_____
INTEREST ON OP. CAP.	acre	14.57	1.0000	14.57	_____
TOTAL DIRECT EXPENSES				408.17	_____
FIXED EXPENSES					
Implements	acre	21.44	1.0000	21.44	_____
Tractors	acre	20.77	1.0000	20.77	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				481.19	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	40.0000	506.80	_____

TOTAL INCOME				506.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	145.29	1.0000	145.29	_____
INSECTICIDES	acre	2.22	1.0000	2.22	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0801	0.72	_____
OPERATOR LABOR	hour	17.94	0.3846	6.91	_____
UNALLOCATED LABOR	hour	17.88	0.3461	6.19	_____
DIESEL FUEL	gal	3.44	5.8899	20.25	_____
REPAIR & MAINTENANCE	acre	16.24	1.0000	16.24	_____
INTEREST ON OP. CAP.	acre	14.57	1.0000	14.57	_____

TOTAL DIRECT EXPENSES				408.17	_____
RETURNS ABOVE DIRECT EXPENSES				98.63	_____
TOTAL FIXED EXPENSES				73.02	_____

TOTAL SPECIFIED EXPENSES				481.19	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				25.61	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
						-----hours-----					
Soil Test	acre			0.33	Oct	0.3330					
Lime (Spread)	ton			0.33	Oct	0.3330					
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05	
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04	
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05	
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01	
Glyphosate 3lbs a.e	oz					32.0000					
Select Max	pt					1.0000					
Surfactant	pt					0.4000					
Custom Apply Fert	acre			1.00	Apr	1.0000					
Phosphorus(46% P2O5)	cwt					0.6600					
Potash (60% K2O)	cwt					1.0000					
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.01	
Fierce	oz					3.5000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Soybeans Consultant	acre			1.00	May	1.0000					
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04	
Soybean Enlist E3	lb					50.0000					
CruiserMaxx Vibrance	oz					1.6000					
Boundary	pt					2.0000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01	
Enlist Duo	pt					3.5000					
Dual Magnum	pt					1.0000					
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01	
Glyphosate 3lbs a.e	oz					32.0000					
Sprayer 600-825gal	90' 250hp		0.011	0.50	Jul			0.00	0.00	0.00	
Dimilin 2L	oz					1.0000					
Surfactant	pt					0.0500					
Sprayer 600-825gal	90' 250hp		0.011	0.50	Aug			0.00	0.00	0.00	
Bifenthrin	oz					1.0500					
App by Air (5 gal)	appl			1.00	Sep	1.0000					
Gramoxone SL	oz					16.0000					
Surfactant	pt					0.2000					
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07	
Haul Soybeans	bu					40.0000					
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01	
TOTALS								0.38	0.32	0.46	0.34

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.02	3.35		3.35
Lime (Spread)	ton	21.65						0.15	21.80		21.80
Disk Harrow	32'		3.26	2.20	2.09			0.05	7.60	9.33	16.93
Field Cultivate Fld	32'		2.48	1.24	1.59			0.04	5.35	7.82	13.17
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07			0.05	6.88	8.08	14.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00						0.50	8.50		8.50
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	7.50						0.36	7.86		7.86
Phosphorus (46% P2O5)	cwt	25.91						1.25	27.16		27.16
Potash (60% K2O)	cwt	36.20						1.74	37.94		37.94
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.06	1.23	1.66	2.89
Fierce	oz	27.13						1.31	28.44		28.44
Gramoxone SL 2.0	oz	15.84						0.76	16.60		16.60
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Enlist E3	lb	53.50						2.21	55.71		55.71
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.05	1.22	1.66	2.88
Enlist Duo	pt	20.72						0.85	21.57		21.57
Dual Magnum	pt	10.75						0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23			0.02	0.61	0.83	1.44
Dimilin 2L	oz	1.63						0.04	1.67		1.67
Surfactant	pt	0.17							0.17		0.17
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23			0.01	0.60	0.83	1.43
Bifenthrin	oz	0.59						0.01	0.60		0.60
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	10.80						0.07	10.87		10.87
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
TOTALS		343.29	20.25	16.24	13.82	0.00	14.57	408.17	73.02	481.19	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 6.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	506.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	62.11	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	23.01	0.00	42.97	71.31	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.59	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.65
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.45	0.00	0.45	2.64	0.45	0.23	0.23	0.00	9.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.51	0.00	0.51	3.21	0.51	0.26	0.26	0.00	14.99
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.21	0.00	0.21	4.15	0.21	0.10	0.10	0.00	11.26
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.58	0.00	5.54	6.37	0.32	0.06	0.02	0.19	0.49
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	27.08	0.00	120.61	161.21	9.49	2.45	1.20	14.24	71.89
NET INCOME	0.00	0.00	0.00	-27.08	0.00	-120.61	-161.21	-9.49	-2.45	-1.20	-14.24	434.91
NET INCOME TO DATE	0.00	0.00	0.00	-27.08	-27.08	-147.69	-308.90	-318.39	-320.84	-322.04	-336.28	98.63

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

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

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, May planted, 16R30"
 Non-Delta Area, Mississippi, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 7.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Enlist Duo	pt	5.92	3.5000	20.72	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Enlist E3	lb	1.07	50.0000	53.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____
TOTAL DIRECT EXPENSES				366.76	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				407.91	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____

TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	71.31	1.0000	71.31	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	53.50	1.0000	53.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.90	1.0000	15.90	_____

TOTAL DIRECT EXPENSES				366.76	_____
RETURNS ABOVE DIRECT EXPENSES				-50.01	_____
TOTAL FIXED EXPENSES				41.15	_____

TOTAL SPECIFIED EXPENSES				407.91	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-91.16	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus(46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Enlist E3	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Enlist Duo	pt					3.5000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Soybeans Consultant	acre	6.50						0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15			0.30	9.09	12.51	21.60
Soybean Enlist E3	lb	53.50						1.84	55.34		55.34
CruiserMaxx Vibrance	oz	12.21						0.42	12.63		12.63
Inoculant -Soybean	acre	1.55						0.05	1.60		1.60
Boundary	pt	24.00						0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84						0.54	16.38		16.38
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44			0.03	1.19	1.66	2.85
Enlist Duo	pt	20.72						0.57	21.29		21.29
Dual Magnum	pt	10.75						0.30	11.05		11.05
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Prevathon	oz	14.70						0.30	15.00		15.00
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	3.58						0.07	3.65		3.65
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84			0.09	13.56	24.45	38.01
Haul Soybeans	bu	6.75						0.05	6.80		6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71			0.02	2.41	2.53	4.94
TOTALS		325.05	9.24	10.43	6.14	0.00	15.90	366.76	41.15	407.91	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 7.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	31.47	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.44	0.00	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.03	0.90	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	121.24	33.53	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-121.24	-33.53	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-252.26	-285.79	-327.66	-343.99	-50.01

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

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

Table 7.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Non-irrigated, All Areas, Mississippi, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 8.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	42.0000	11.34	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2209	3.96	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR					
	hour	17.90	0.2966	5.31	_____
DIESEL FUEL					
Tractors	gal	3.44	3.4114	11.74	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
REPAIR & MAINTENANCE					
Implements	acre	7.03	1.0000	7.03	_____
Tractors	acre	2.47	1.0000	2.47	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
INTEREST ON OP. CAP.	acre	21.18	1.0000	21.18	_____
TOTAL DIRECT EXPENSES				454.04	_____
FIXED EXPENSES					
Implements	acre	18.85	1.0000	18.85	_____
Tractors	acre	19.07	1.0000	19.07	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
TOTAL FIXED EXPENSES				63.75	_____
TOTAL SPECIFIED EXPENSES				517.79	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	42.0000	532.14	_____

TOTAL INCOME				532.14	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	124.54	1.0000	124.54	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.30	1.0000	3.30	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.34	1.0000	11.34	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
OPERATOR LABOR	hour	17.94	0.3295	5.91	_____
UNALLOCATED LABOR	hour	17.90	0.2966	5.31	_____
DIESEL FUEL	gal	3.44	5.1352	17.66	_____
REPAIR & MAINTENANCE	acre	14.62	1.0000	14.62	_____
INTEREST ON OP. CAP.	acre	21.18	1.0000	21.18	_____

TOTAL DIRECT EXPENSES				454.04	_____
RETURNS ABOVE DIRECT EXPENSES				78.10	_____
TOTAL FIXED EXPENSES				63.75	_____

TOTAL SPECIFIED EXPENSES				517.79	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				14.35	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Oct	0.3330				
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					48.0000				
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 2023 input prices.

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

Table 8.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39			0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus (46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59			0.44	5.75	7.82	13.57
App by Air (5 gal)	appl	8.11						0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00						0.44	8.44		8.44
2,4-D Amine 4	pt	5.44						0.30	5.74		5.74
Select Max	pt	15.01						0.83	15.84		15.84
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50						2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Engenia	oz	10.24						0.35	10.59		10.59
Dual Magnum	pt	10.75						0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Zidua WG	oz	13.14						0.45	13.59		13.59
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Acephate 90SP	lb	6.19						0.09	6.28		6.28
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	11.34						0.08	11.42		11.42
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
TOTALS		388.80	17.66	14.62	11.78	0.00	21.18	454.04	63.75	517.79	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 8.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Non-irrigated, Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	532.14
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	50.13	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	14.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	1.32	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
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	5.07	0.00	0.00	0.00	0.00	0.00	2.19	0.90	0.00	0.00	0.00	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	7.91	0.00	0.00	0.00	0.00	0.00	2.70	1.02	0.00	0.00	0.00	6.03
REPAIR & MAINTENANCE	3.98	0.00	0.00	0.00	0.00	0.00	3.94	0.42	0.00	0.00	0.00	6.28
INTEREST ON OP. CAP.	10.87	0.00	0.00	0.00	2.43	0.00	4.98	2.03	0.00	0.00	0.68	0.19
TOTAL DIRECT EXPENSES	142.61	0.00	0.00	0.00	46.43	0.00	126.23	61.00	0.00	0.00	50.31	27.46
NET INCOME	-142.61	0.00	0.00	0.00	-46.43	0.00	-126.23	-61.00	0.00	0.00	-50.31	504.68
NET INCOME TO DATE	-142.61	-142.61	-142.61	-142.61	-189.04	-189.04	-315.27	-376.27	-376.27	-376.27	-426.58	78.10

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	dollars										
50	21.00	bu	-248 -312	-235 -299	-222 -285	-208 -272	-195 -259	-182 -246	-168 -232	-155 -219	-142 -206	-129 -192	-115 -179
60	25.20	bu	-210 -273	-194 -257	-178 -241	-162 -225	-146 -209	-130 -193	-114 -177	-98 -162	-82 -146	-66 -130	-50 -114
70	29.40	bu	-171 -234	-152 -216	-133 -197	-115 -179	-96 -160	-78 -141	-59 -123	-40 -104	-22 -85	-3 -67	15 -48
80	33.60	bu	-132 -196	-111 -174	-89 -153	-68 -132	-47 -111	-26 -89	-4 -68	16 -47	37 -25	59 -4	80 16
90	37.80	bu	-93 -157	-69 -133	-45 -109	-21 -85	2 -61	26 -37	49 -13	73 10	97 34	121 58	145 82
100	42.00	bu	-54 -118	-28 -92	-1 -65	24 -38	51 -12	78 14	104 40	131 67	157 94	184 120	211 147
110	46.20	bu	-16 -79	13 -50	42 -21	71 7	100 37	130 66	159 95	188 124	217 154	247 183	276 212
120	50.40	bu	22 -41	54 -9	86 22	118 54	150 86	182 118	214 150	246 182	278 214	309 246	341 278
130	54.60	bu	61 -2	95 32	130 66	165 101	199 135	234 170	268 205	303 239	338 274	372 308	407 343
140	58.80	bu	100 36	137 73	174 110	211 148	249 185	286 222	323 259	360 297	398 334	435 371	472 408
150	63.00	bu	138 75	178 115	218 154	258 194	298 234	338 274	378 314	418 354	458 394	498 434	538 474

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 9.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Furrow irrigated, 9 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	5.0000	40.55	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
Zidua WG	oz	8.76	1.5000	13.14	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
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	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	60.0000	16.20	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3601	6.46	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0235	0.42	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.3000	2.73	_____
Implements	hour	9.06	0.0625	0.57	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0117	0.10	_____
UNALLOCATED LABOR					
	hour	17.90	0.3512	6.29	_____
DIESEL FUEL					
Tractors	gal	3.44	5.0744	17.46	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.2993	1.02	_____
Roll-Out Pipe Irr.	gal	3.44	7.3316	25.23	_____
REPAIR & MAINTENANCE					
Implements	acre	8.14	1.0000	8.14	_____
Tractors	acre	3.70	1.0000	3.70	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.42	1.0000	0.42	_____
Roll-Out Pipe Irr.	acre	7.16	1.0000	7.16	_____
INTEREST ON OP. CAP.	acre	23.74	1.0000	23.74	_____
TOTAL DIRECT EXPENSES				545.87	_____
FIXED EXPENSES					
Implements	acre	23.72	1.0000	23.72	_____
Tractors	acre	28.53	1.0000	28.53	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	3.32	1.0000	3.32	_____
Roll-Out Pipe Irr.	acre	74.47	1.0000	74.47	_____
TOTAL FIXED EXPENSES				152.55	_____
TOTAL SPECIFIED EXPENSES				698.42	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	60.0000	760.20	_____

TOTAL INCOME				760.20	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	40.55	1.0000	40.55	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	124.54	1.0000	124.54	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
IRRIGATION SUPPLIES	acre	7.92	1.0000	7.92	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	16.20	1.0000	16.20	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0625	0.56	_____
IRRIGATE LABOR	hour	9.06	0.3625	3.30	_____
OPERATOR LABOR	hour	17.94	0.4687	8.41	_____
UNALLOCATED LABOR	hour	17.90	0.3512	6.29	_____
DIESEL FUEL	gal	3.44	14.1298	48.61	_____
REPAIR & MAINTENANCE	acre	24.12	1.0000	24.12	_____
INTEREST ON OP. CAP.	acre	23.74	1.0000	23.74	_____

TOTAL DIRECT EXPENSES				545.87	_____
RETURNS ABOVE DIRECT EXPENSES				214.33	_____
TOTAL FIXED EXPENSES				152.55	_____

TOTAL SPECIFIED EXPENSES				698.42	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				61.78	_____

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
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					48.0000				
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 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Subsoiler	3 shank		2.17	0.54	1.39			0.34	4.44	3.79	8.23
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus (46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Field Cultivate Fld	32'		2.48	1.24	1.59			0.44	5.75	7.82	13.57
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07			0.56	7.39	8.08	15.47
App by Air (5 gal)	appl	8.11						0.45	8.56		8.56
Glyphosate 3lbs a.e	oz	8.00						0.44	8.44		8.44
2,4-D Amine 4	pt	5.44						0.30	5.74		5.74
Select Max	pt	15.01						0.83	15.84		15.84
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50						2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Soybeans Consultant	acre	6.50						0.22	6.72		6.72
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Engenia	oz	10.24						0.35	10.59		10.59
Dual Magnum	pt	10.75						0.37	11.12		11.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Zidua WG	oz	13.14						0.45	13.59		13.59
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Miravis Top	oz	20.82						0.43	21.25		21.25
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Acephate 90SP	lb	6.19						0.09	6.28		6.28
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	16.20						0.11	16.31		16.31
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
Roll-Out Pipe Irr.	acre	7.92	27.73	7.96	4.71			1.36	49.68	80.72	130.40
TOTALS		430.84	48.61	24.12	18.56	0.00	23.74	545.87	152.55	698.42	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	760.20
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	24.33	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	34.57	0.00	39.84	50.13	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	14.19	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	57.50	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	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.20
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
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	7.82	0.00	0.00	0.00	0.00	0.00	2.19	1.13	2.89	0.23	0.00	4.30
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	12.41	0.00	0.00	0.00	0.00	0.00	2.70	1.02	17.48	8.41	0.00	6.59
REPAIR & MAINTENANCE	5.91	0.00	0.00	0.00	0.00	0.00	3.94	0.42	5.98	1.40	0.00	6.47
INTEREST ON OP. CAP.	11.62	0.00	0.00	0.00	2.43	0.00	4.98	2.04	0.95	0.81	0.68	0.23
TOTAL DIRECT EXPENSES	152.54	0.00	0.00	0.00	46.43	0.00	126.23	61.24	35.22	40.11	50.31	33.79
NET INCOME	-152.54	0.00	0.00	0.00	-46.43	0.00	-126.23	-61.24	-35.22	-40.11	-50.31	726.41
NET INCOME TO DATE	-152.54	-152.54	-152.54	-152.54	-198.97	-198.97	-325.20	-386.44	-421.66	-461.77	-512.08	214.33

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

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
-----			-----PRODUCT PRICE-----										
Soybeans			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	-----dollars-----										
50	30.00	bu	-252	-233	-214	-195	-176	-157	-138	-119	-100	-81	-62
			-405	-386	-367	-348	-329	-310	-291	-272	-253	-234	-215
60	36.00	bu	-197	-174	-151	-128	-106	-83	-60	-37	-14	7	30
			-349	-327	-304	-281	-258	-235	-212	-190	-167	-144	-121
70	42.00	bu	-141	-115	-88	-62	-35	-8	17	44	70	97	124
			-294	-267	-241	-214	-187	-161	-134	-108	-81	-54	-28
80	48.00	bu	-86	-56	-25	4	35	65	95	126	156	187	217
			-239	-208	-178	-147	-117	-86	-56	-26	4	34	65
90	54.00	bu	-31	3	37	71	105	139	174	208	242	276	310
			-183	-149	-115	-81	-46	-12	21	55	90	124	158
100	60.00	bu	24	62	100	138	176	214	252	290	328	366	404
			-128	-90	-52	-14	23	61	99	137	175	213	251
110	66.00	bu	79	121	163	205	246	288	330	372	414	455	497
			-72	-31	10	52	94	136	177	219	261	303	345
120	72.00	bu	135	180	226	271	317	363	408	454	499	545	591
			-17	28	73	119	164	210	256	301	347	393	438
130	78.00	bu	190	239	289	338	388	437	486	536	585	635	684
			37	87	136	186	235	284	334	383	433	482	532
140	84.00	bu	245	299	352	405	458	511	565	618	671	724	777
			93	146	199	252	306	359	412	465	518	572	625
150	90.00	bu	301	358	415	472	529	586	643	700	757	814	871
			148	205	262	319	376	433	490	547	604	661	718

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 10.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, stale seedbed, 16R 30"
Flood irrigated, 13.5 ac-in., Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
Sodium Chlorate 5L	gal	8.61	0.6000	5.17	_____
FERTILIZERS					
Phosphorus(46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Valor SX	oz	3.06	2.0000	6.12	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.1000	3.63	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	53.0000	14.31	_____
SURVEY & MARK LEVEES					
Survey & Mark Levees	acre	4.50	0.5000	2.25	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.3362	6.02	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
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	17.90	0.2284	4.09	_____
DIESEL FUEL					
Tractors	gal	3.44	3.8348	13.17	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
Contour Flood Irr.	gal	3.44	10.9974	37.83	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	2.75	1.0000	2.75	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
Contour Flood Irr.	acre	14.31	1.0000	14.31	_____
INTEREST ON OP. CAP.	acre	22.57	1.0000	22.57	_____
TOTAL DIRECT EXPENSES				521.23	_____
FIXED EXPENSES					
Implements	acre	16.51	1.0000	16.51	_____
Tractors	acre	21.36	1.0000	21.36	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
Contour Flood Irr.	acre	58.74	1.0000	58.74	_____
TOTAL FIXED EXPENSES				124.10	_____
TOTAL SPECIFIED EXPENSES				645.33	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	53.0000	671.51	_____

TOTAL INCOME				671.51	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
HARVEST AIDS	acre	10.45	1.0000	10.45	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	105.96	1.0000	105.96	_____
INSECTICIDES	acre	14.19	1.0000	14.19	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	3.63	1.0000	3.63	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	14.31	1.0000	14.31	_____
SURVEY & MARK LEVEES	acre	2.25	1.0000	2.25	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0683	0.61	_____
IRRIGATE LABOR	hour	9.06	0.3125	2.82	_____
OPERATOR LABOR	hour	17.94	0.4566	8.18	_____
UNALLOCATED LABOR	hour	17.90	0.2284	4.09	_____
DIESEL FUEL	gal	3.44	16.7057	57.43	_____
REPAIR & MAINTENANCE	acre	28.94	1.0000	28.94	_____
INTEREST ON OP. CAP.	acre	22.57	1.0000	22.57	_____

TOTAL DIRECT EXPENSES				521.23	_____
RETURNS ABOVE DIRECT EXPENSES				150.28	_____
TOTAL FIXED EXPENSES				124.10	_____

TOTAL SPECIFIED EXPENSES				645.33	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				26.18	_____

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
-----hours-----										
Soil Test	acre			0.33	Nov	0.3330				
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					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
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 2023 input prices.

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

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Disk Harrow	32'		3.26	2.20	2.09			0.62	8.17	9.33	17.50
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus (46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00						0.50	8.50		8.50
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50						2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Inoculant -Soybean	acre	1.55						0.06	1.61		1.61
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.05	1.22	1.66	2.88
Glyphosate 3lbs a.e	oz	8.00						0.33	8.33		8.33
Engenia	oz	10.24						0.42	10.66		10.66
Dual Magnum	pt	10.75						0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
App by Air (5 gal)	appl	8.11						0.22	8.33		8.33
Miravis Top	oz	20.82						0.57	21.39		21.39
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Sodium Chlorate 5L	gal	5.17						0.07	5.24		5.24
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	14.31						0.10	14.41		14.41
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
Contour Flood Irr.	acre	2.25	43.91	15.89	6.45			1.92	70.42	70.30	140.72
TOTALS		396.59	57.43	28.94	15.70	0.00	22.57	521.23	124.10	645.33	

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

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

Table 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, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671.51
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	8.11	16.22	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	29.13	0.00	0.00	68.83	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	0.00	1.32	0.00	0.33	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.31
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	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	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	2.09	0.00	0.00	0.45	0.00	0.00	3.09	2.57	1.83	1.83	0.22	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	3.26	0.00	0.00	0.51	0.00	0.00	3.21	15.34	14.35	14.35	0.38	6.03
REPAIR & MAINTENANCE	2.20	0.00	0.00	0.21	0.00	0.00	4.15	9.50	3.25	3.25	0.10	6.28
INTEREST ON OP. CAP.	10.09	0.00	0.00	1.96	0.00	0.00	6.51	1.29	1.33	0.69	0.49	0.21
TOTAL DIRECT EXPENSES	132.42	0.00	0.00	33.58	0.00	0.00	164.87	38.95	50.02	34.42	36.52	30.45
NET INCOME	-132.42	0.00	0.00	-33.58	0.00	0.00	-164.87	-38.95	-50.02	-34.42	-36.52	641.06
NET INCOME TO DATE	-132.42	-132.42	-132.42	-166.00	-166.00	-166.00	-330.87	-369.82	-419.84	-454.26	-490.78	150.28

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT	PERCENT												
	75	80	85	90	95	100	105	110	115	120	125		
PRODUCT	PRICE												
Soybeans	9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83		
PERCENT	YIELD	UNIT	dollars										
50	26.50	bu	-262	-245	-228	-211	-195	-178	-161	-144	-127	-111	-94
			-386	-369	-352	-335	-319	-302	-285	-268	-252	-235	-218
60	31.80	bu	-213	-193	-172	-152	-132	-112	-92	-72	-52	-31	-11
			-337	-317	-297	-276	-256	-236	-216	-196	-176	-156	-135
70	37.10	bu	-164	-140	-117	-93	-70	-46	-23	0	23	47	70
			-288	-264	-241	-217	-194	-170	-147	-123	-100	-76	-53
80	42.40	bu	-115	-88	-61	-34	-8	18	45	72	99	126	153
			-239	-212	-185	-158	-132	-105	-78	-51	-24	2	29
90	47.70	bu	-66	-36	-6	24	54	84	114	145	175	205	235
			-190	-160	-130	-99	-69	-39	-9	20	51	81	111
100	53.00	bu	-17	15	49	83	116	150	183	217	251	284	318
			-141	-108	-74	-40	-7	26	59	93	126	160	194
110	58.30	bu	31	68	105	142	179	215	252	289	326	363	400
			-92	-55	-18	18	54	91	128	165	202	239	276
120	63.60	bu	80	120	160	201	241	281	321	362	402	442	483
			-43	-3	36	77	117	157	197	238	278	318	359
130	68.90	bu	129	172	216	260	303	347	391	434	478	522	565
			5	48	92	136	179	223	266	310	354	397	441
140	74.20	bu	178	225	272	319	366	413	460	507	554	601	648
			53	100	148	195	242	289	336	383	430	477	524
150	79.50	bu	227	277	327	378	428	478	529	579	629	680	730
			102	153	203	254	304	354	405	455	505	556	606

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 11.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	4.0000	32.44	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
Miravis Top	oz	1.52	13.7000	20.82	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt \$8	acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	50.0000	13.50	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
IRRIGATE LABOR					
Special Labor	hour	9.06	0.0518	0.47	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
1/2-mi Pivot Irr.	gal	3.44	16.4057	56.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
1/2-mi Pivot Irr.	acre	12.00	1.0000	12.00	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____
TOTAL DIRECT EXPENSES				475.88	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
1/2-mi Pivot Irr.	acre	56.45	1.0000	56.45	_____
TOTAL FIXED EXPENSES				97.60	_____
TOTAL SPECIFIED EXPENSES				573.48	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	50.0000	633.50	_____

TOTAL INCOME				633.50	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	32.44	1.0000	32.44	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	33.03	1.0000	33.03	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	13.50	1.0000	13.50	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
IRRIGATE LABOR	hour	9.06	0.0518	0.47	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	19.0919	65.67	_____
REPAIR & MAINTENANCE	acre	22.43	1.0000	22.43	_____
INTEREST ON OP. CAP.	acre	18.59	1.0000	18.59	_____

TOTAL DIRECT EXPENSES				475.88	_____
RETURNS ABOVE DIRECT EXPENSES				157.62	_____
TOTAL FIXED EXPENSES				97.60	_____

TOTAL SPECIFIED EXPENSES				573.48	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				60.02	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR	
							-----hours-----				
Soil Test	acre			0.33	Nov	0.3330					
Lime (Spread)	ton			0.33	Nov	0.3330					
Custom Apply Fert	acre			1.00	Nov	1.0000					
Phosphorus (46% P2O5)	cwt					0.8700					
Potash (60% K2O)	cwt					1.3300					
Soybeans Consultant	acre			1.00	May	1.0000					
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04	
Soybean Seed RR2X	lb					50.0000					
CruiserMaxx Vibrance	oz					1.6000					
Inoculant -Soybean	acre					1.0000					
Boundary	pt					2.0000					
Gramoxone SL 2.0	oz					48.0000					
Surfactant	pt					0.4000					
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01	
Glyphosate 3lbs a.e	oz					32.0000					
Engenia	oz					12.8000					
Dual Magnum	pt					1.0000					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Miravis Top	oz					13.7000					
Surfactant	pt					0.1000					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Acephate 90SP	lb					0.7500					
App by Air (5 gal)	appl			1.00	Aug	1.0000					
Prevathon	oz					14.0000					
Surfactant	pt					0.1000					
Bifenthrin	oz					6.4000					
Incidental Pest				1.00	Sep						
App by Air (5 gal)	appl					1.0000					
IncidentalPestTrt \$8	acre					1.0000					
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07	
Haul Soybeans	bu					50.0000					
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01	
1/2-mi Pivot Irr.	acre				Jul	1.0000			0.05		
TOTALS								0.16	0.15	0.27	0.14

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
1/2 mile pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Soybeans Consultant	acre	6.50						0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15			0.30	9.09	12.51	21.60
Soybean Seed RR2X	lb	57.50						1.98	59.48		59.48
CruiserMaxx Vibrance	oz	12.21						0.42	12.63		12.63
Inoculant -Soybean	acre	1.55						0.05	1.60		1.60
Boundary	pt	24.00						0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84						0.54	16.38		16.38
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44			0.03	1.19	1.66	2.85
Glyphosate 3lbs a.e	oz	8.00						0.22	8.22		8.22
Engenia	oz	10.24						0.28	10.52		10.52
Dual Magnum	pt	10.75						0.30	11.05		11.05
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Miravis Top	oz	20.82						0.43	21.25		21.25
Surfactant	pt	0.33						0.01	0.34		0.34
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Prevathon	oz	14.70						0.30	15.00		15.00
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	3.58						0.07	3.65		3.65
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84			0.09	13.56	24.45	38.01
Haul Soybeans	bu	13.50						0.09	13.59		13.59
Grain Cart Soybean	700 bu		1.13	0.55	0.71			0.02	2.41	2.53	4.94
1/2-mi Pivot Irr.	acre		56.43	12.00	0.47			1.97	70.87	56.45	127.32
TOTALS		362.58	65.67	22.43	6.61	0.00	18.59	475.88	97.60	573.48	

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 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, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	633.50
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.33	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	20.82	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.66	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.19	0.49	0.04	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.63	23.08	16.93	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.35	1.12	0.68	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.28	5.12	1.48	1.82	0.22	0.20
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	7.12	153.71	55.16	89.75	16.33	29.56
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-7.12	-153.71	-55.16	-89.75	-16.33	603.94
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.37	-285.08	-340.24	-429.99	-446.32	157.62

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 12.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	2.0000	16.22	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
2,4-D Amine 4	pt	2.72	2.0000	5.44	_____
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.6000	1.98	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	43.0000	11.61	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.1764	3.17	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0352	0.63	_____
HAND LABOR					
Implements	hour	9.06	0.0471	0.43	_____
Self-Propelled	hour	9.06	0.0176	0.15	_____
UNALLOCATED LABOR					
	hour	17.89	0.2671	4.78	_____
DIESEL FUEL					
Tractors	gal	3.44	2.7243	9.37	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.4490	1.53	_____
REPAIR & MAINTENANCE					
Implements	acre	6.51	1.0000	6.51	_____
Tractors	acre	1.97	1.0000	1.97	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.63	1.0000	0.63	_____
INTEREST ON OP. CAP.	acre	16.87	1.0000	16.87	_____
TOTAL DIRECT EXPENSES				359.52	_____
FIXED EXPENSES					
Implements	acre	17.54	1.0000	17.54	_____
Tractors	acre	15.23	1.0000	15.23	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	4.98	1.0000	4.98	_____
TOTAL FIXED EXPENSES				60.26	_____
TOTAL SPECIFIED EXPENSES				419.78	_____

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2024

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

TOTAL INCOME				544.81	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	16.22	1.0000	16.22	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	90.27	1.0000	90.27	_____
INSECTICIDES	acre	6.19	1.0000	6.19	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.98	1.0000	1.98	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	11.61	1.0000	11.61	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0647	0.58	_____
OPERATOR LABOR	hour	17.94	0.2968	5.33	_____
UNALLOCATED LABOR	hour	17.89	0.2671	4.78	_____
DIESEL FUEL	gal	3.44	4.5978	15.80	_____
REPAIR & MAINTENANCE	acre	13.81	1.0000	13.81	_____
INTEREST ON OP. CAP.	acre	16.87	1.0000	16.87	_____

TOTAL DIRECT EXPENSES				359.52	_____
RETURNS ABOVE DIRECT EXPENSES				185.29	_____
TOTAL FIXED EXPENSES				60.26	_____

TOTAL SPECIFIED EXPENSES				419.78	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				125.03	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
							-----hours-----			
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Custom Apply Fert	acre			1.00	Oct	1.0000				
Phosphorus (46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
App by Air (5 gal)	appl			1.00	Mar	1.0000				
Glyphosate 3lbs a.e	oz					32.0000				
2,4-D Amine 4	pt					2.0000				
Plant - Folding	16R-30	MFWD 300	0.047	1.00	Apr		0.04	0.04	0.09	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Soybeans Consultant	acre			1.00	May	1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Aug			0.01	0.01	0.01
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Sep		0.08	0.08	0.08	0.07
Haul Soybeans	bu					43.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Sep		0.02	0.02	0.02	0.01
TOTALS							0.29	0.26	0.36	0.26

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2024

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

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2024

ITEM	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	544.81
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	8.11	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	62.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	13.44	39.84	36.99	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.19	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.66	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	3.68	0.00	0.00	0.00	0.00	0.00	2.04	0.90	0.00	0.00	0.45	3.62
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	5.74	0.00	0.00	0.00	0.00	0.00	2.50	1.02	0.00	0.00	0.51	6.03
REPAIR & MAINTENANCE	3.44	0.00	0.00	0.00	0.00	0.00	3.46	0.42	0.00	0.00	0.21	6.28
INTEREST ON OP. CAP.	8.87	0.00	0.00	0.00	0.00	1.04	4.89	1.58	0.00	0.00	0.30	0.19
TOTAL DIRECT EXPENSES	116.32	0.00	0.00	0.00	0.00	22.59	123.76	47.41	0.00	0.00	21.71	27.73
NET INCOME	-116.32	0.00	0.00	0.00	0.00	-22.59	-123.76	-47.41	0.00	0.00	-21.71	517.08
NET INCOME TO DATE	-116.32	-116.32	-116.32	-116.32	-116.32	-138.91	-262.67	-310.08	-310.08	-310.08	-331.79	185.29

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

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

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, April planted, 16R 30"
 Non-Delta Area, Mississippi, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 13.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	1.0000	8.11	_____
HARVEST AIDS					
Gramoxone SL	oz	0.33	16.0000	5.28	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.6600	25.91	_____
Potash (60% K2O)	cwt	36.20	1.0000	36.20	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Glyphosate 3lbs a.e	oz	0.25	96.0000	24.00	_____
Select Max	pt	15.01	1.0000	15.01	_____
Fierce	oz	7.75	3.5000	27.13	_____
Gramoxone SL 2.0	oz	0.33	96.0000	31.68	_____
Boundary	pt	12.00	2.0000	24.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Dimilin 2L	oz	1.63	1.0000	1.63	_____
Bifenthrin	oz	0.56	1.0500	0.59	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.4500	4.79	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	40.0000	10.80	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.2407	4.32	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0587	1.06	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0293	0.26	_____
UNALLOCATED LABOR					
	hour	17.88	0.3461	6.19	_____
DIESEL FUEL					
Tractors	gal	3.44	3.7171	12.79	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.7484	2.56	_____
REPAIR & MAINTENANCE					
Implements	acre	7.81	1.0000	7.81	_____
Tractors	acre	2.69	1.0000	2.69	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	1.04	1.0000	1.04	_____
INTEREST ON OP. CAP.	acre	14.63	1.0000	14.63	_____
TOTAL DIRECT EXPENSES				409.75	_____
FIXED EXPENSES					
Implements	acre	21.44	1.0000	21.44	_____
Tractors	acre	20.77	1.0000	20.77	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	8.30	1.0000	8.30	_____
TOTAL FIXED EXPENSES				73.02	_____
TOTAL SPECIFIED EXPENSES				482.77	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	40.0000	506.80	_____

TOTAL INCOME				506.80	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	8.11	1.0000	8.11	_____
HARVEST AIDS	acre	5.28	1.0000	5.28	_____
FERTILIZERS	acre	62.11	1.0000	62.11	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	142.81	1.0000	142.81	_____
INSECTICIDES	acre	2.22	1.0000	2.22	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	4.79	1.0000	4.79	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	10.80	1.0000	10.80	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0801	0.72	_____
OPERATOR LABOR	hour	17.94	0.3846	6.91	_____
UNALLOCATED LABOR	hour	17.88	0.3461	6.19	_____
DIESEL FUEL	gal	3.44	5.8899	20.25	_____
REPAIR & MAINTENANCE	acre	16.24	1.0000	16.24	_____
INTEREST ON OP. CAP.	acre	14.63	1.0000	14.63	_____

TOTAL DIRECT EXPENSES				409.75	_____
RETURNS ABOVE DIRECT EXPENSES				97.05	_____
TOTAL FIXED EXPENSES				73.02	_____

TOTAL SPECIFIED EXPENSES				482.77	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				24.03	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre..

Table 13.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Oct	0.3330				
Lime (Spread)	ton			0.33	Oct	0.3330				
Disk Harrow	32'	MFWD 300	0.061	1.00	Oct		0.06	0.06	0.06	0.05
Field Cultivate Fld	32'	MFWD 300	0.046	1.00	Oct		0.04	0.04	0.04	0.04
Bed/Lister-Roll-Fo	16R-30	MFWD 300	0.060	1.00	Oct		0.06	0.06	0.06	0.05
Sprayer 600-825gal	90' 250hp		0.011	1.00	Feb			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Select Max	pt					1.0000				
Surfactant	pt					0.4000				
Custom Apply Fert	acre			1.00	Apr	1.0000				
Phosphorus(46% P2O5)	cwt					0.6600				
Potash (60% K2O)	cwt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Apr			0.01	0.01	0.01
Fierce	oz					3.5000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	May		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	May			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jun			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Jul			0.00	0.00	0.00
Dimilin 2L	oz					1.0000				
Surfactant	pt					0.0500				
Sprayer 600-825gal	90' 250hp		0.011	0.50	Aug			0.00	0.00	0.00
Bifenthrin	oz					1.0500				
App by Air (5 gal)	appl			1.00	Sep	1.0000				
Gramoxone SL	oz					16.0000				
Surfactant	pt					0.2000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					40.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.38	0.32	0.46	0.34

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.02	3.35		3.35
Lime (Spread)	ton	21.65						0.15	21.80		21.80
Disk Harrow	32'		3.26	2.20	2.09			0.05	7.60	9.33	16.93
Field Cultivate Fld	32'		2.48	1.24	1.59			0.04	5.35	7.82	13.17
Bed/Lister-Roll-Fo	16R-30		3.22	1.54	2.07			0.05	6.88	8.08	14.96
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.07	1.24	1.66	2.90
Glyphosate 3lbs a.e	oz	8.00						0.50	8.50		8.50
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	7.50						0.36	7.86		7.86
Phosphorus (46% P2O5)	cwt	25.91						1.25	27.16		27.16
Potash (60% K2O)	cwt	36.20						1.74	37.94		37.94
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.06	1.23	1.66	2.89
Fierce	oz	27.13						1.31	28.44		28.44
Gramoxone SL 2.0	oz	15.84						0.76	16.60		16.60
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		2.70	3.94	2.19			0.36	9.19	12.51	21.70
Soybean Seed RR2X	lb	57.50						2.37	59.87		59.87
CruiserMaxx Vibrance	oz	12.21						0.50	12.71		12.71
Boundary	pt	24.00						0.99	24.99		24.99
Gramoxone SL 2.0	oz	15.84						0.65	16.49		16.49
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.05	1.22	1.66	2.88
Glyphosate 3lbs a.e	oz	8.00						0.33	8.33		8.33
Engenia	oz	10.24						0.42	10.66		10.66
Dual Magnum	pt	10.75						0.44	11.19		11.19
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.45			0.04	1.21	1.66	2.87
Glyphosate 3lbs a.e	oz	8.00						0.28	8.28		8.28
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23			0.02	0.61	0.83	1.44
Dimilin 2L	oz	1.63						0.04	1.67		1.67
Surfactant	pt	0.17							0.17		0.17
Sprayer 600-825gal	90' 250hp		0.26	0.10	0.23			0.01	0.60	0.83	1.43
Bifenthrin	oz	0.59						0.01	0.60		0.60
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
Gramoxone SL	oz	5.28						0.07	5.35		5.35
Surfactant	pt	0.66						0.01	0.67		0.67
Header -Soybean	30' Flex		4.90	5.73	2.90			0.09	13.62	24.45	38.07
Haul Soybeans	bu	10.80						0.07	10.87		10.87
Grain Cart Soybean	700 bu		1.13	0.55	0.72			0.02	2.42	2.53	4.95
TOTALS			344.81	20.25	16.24	13.82	0.00	14.63	409.75	73.02	482.77

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	506.80
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.11	0.00
HARVEST AIDS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00
FERTILIZERS	0.00	0.00	0.00	0.00	0.00	62.11	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	23.01	0.00	42.97	68.83	8.00	0.00	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.59	0.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	1.32	0.00	1.32	1.32	0.00	0.17	0.00	0.66	0.00
CUSTOM FERTILIZE	0.00	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80
CUSTOM LIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.65
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
SOIL TEST	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33
LABOR	0.00	0.00	0.00	0.45	0.00	0.45	2.64	0.45	0.23	0.23	0.00	9.37
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.51	0.00	0.51	3.21	0.51	0.26	0.26	0.00	14.99
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.21	0.00	0.21	4.15	0.21	0.10	0.10	0.00	11.26
INTEREST ON OP. CAP.	0.00	0.00	0.00	1.58	0.00	5.54	6.43	0.32	0.06	0.02	0.19	0.49
TOTAL DIRECT EXPENSES	0.00	0.00	0.00	27.08	0.00	120.61	162.79	9.49	2.45	1.20	14.24	71.89
NET INCOME	0.00	0.00	0.00	-27.08	0.00	-120.61	-162.79	-9.49	-2.45	-1.20	-14.24	434.91
NET INCOME TO DATE	0.00	0.00	0.00	-27.08	-27.08	-147.69	-310.48	-319.97	-322.42	-323.62	-337.86	97.05

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

These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd 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, 2024

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

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM SPRAY					
App by Air (5 gal)	appl	8.11	3.0000	24.33	_____
FERTILIZERS					
Phosphorus (46% P2O5)	cwt	39.25	0.8700	34.15	_____
Potash (60% K2O)	cwt	36.20	1.3300	48.15	_____
FUNGICIDES					
CruiserMaxx Vibrance	oz	7.63	1.6000	12.21	_____
HERBICIDES					
Boundary	pt	12.00	2.0000	24.00	_____
Gramoxone SL 2.0	oz	0.33	48.0000	15.84	_____
Glyphosate 3lbs a.e	oz	0.25	32.0000	8.00	_____
Engenia	oz	0.80	12.8000	10.24	_____
Dual Magnum	pt	10.75	1.0000	10.75	_____
INSECTICIDES					
Acephate 90SP	lb	8.25	0.7500	6.19	_____
Prevathon	oz	1.05	14.0000	14.70	_____
Bifenthrin	oz	0.56	6.4000	3.58	_____
IncidentalPestTrt	\$8 acre	8.00	1.0000	8.00	_____
SEED/PLANTS					
Soybean Seed RR2X	lb	1.15	50.0000	57.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.5000	1.65	_____
CUSTOM FERTILIZE					
Custom Apply Fert	acre	7.50	1.0000	7.50	_____
HAULING					
Haul Soybeans	bu	0.27	25.0000	6.75	_____
CUSTOM LIME					
Lime (Spread)	ton	65.00	0.3330	21.65	_____
CROP CONSULTANT					
Soybeans Consultant	acre	6.50	1.0000	6.50	_____
INOCULANT					
Inoculant -Soybean	acre	1.55	1.0000	1.55	_____
SOIL TEST					
Soil Test	acre	10.00	0.3330	3.33	_____
OPERATOR LABOR					
Tractors	hour	17.94	0.0720	1.29	_____
Harvesters	hour	17.94	0.0851	1.53	_____
Self-Propelled	hour	17.94	0.0117	0.21	_____
HAND LABOR					
Implements	hour	9.06	0.0507	0.46	_____
Self-Propelled	hour	9.06	0.0058	0.05	_____
UNALLOCATED LABOR					
	hour	17.89	0.1452	2.60	_____
DIESEL FUEL					
Tractors	gal	3.44	1.1121	3.83	_____
Harvesters	gal	3.44	1.4243	4.90	_____
Self-Propelled	gal	3.44	0.1496	0.51	_____
REPAIR & MAINTENANCE					
Implements	acre	4.71	1.0000	4.71	_____
Tractors	acre	0.81	1.0000	0.81	_____
Harvesters	acre	4.70	1.0000	4.70	_____
Self-Propelled	acre	0.21	1.0000	0.21	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____
TOTAL DIRECT EXPENSES				368.35	_____
FIXED EXPENSES					
Implements	acre	10.77	1.0000	10.77	_____
Tractors	acre	6.21	1.0000	6.21	_____
Harvesters	acre	22.51	1.0000	22.51	_____
Self-Propelled	acre	1.66	1.0000	1.66	_____
TOTAL FIXED EXPENSES				41.15	_____
TOTAL SPECIFIED EXPENSES				409.50	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Soybeans	bu	12.67	25.0000	316.75	_____

TOTAL INCOME				316.75	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	24.33	1.0000	24.33	_____
FERTILIZERS	acre	82.30	1.0000	82.30	_____
FUNGICIDES	acre	12.21	1.0000	12.21	_____
HERBICIDES	acre	68.83	1.0000	68.83	_____
INSECTICIDES	acre	32.47	1.0000	32.47	_____
SEED/PLANTS	acre	57.50	1.0000	57.50	_____
ADJUVANTS	acre	1.65	1.0000	1.65	_____
CUSTOM FERTILIZE	acre	7.50	1.0000	7.50	_____
HAULING	acre	6.75	1.0000	6.75	_____
CUSTOM LIME	acre	21.65	1.0000	21.65	_____
CROP CONSULTANT	acre	6.50	1.0000	6.50	_____
INOCULANT	acre	1.55	1.0000	1.55	_____
SOIL TEST	acre	3.33	1.0000	3.33	_____
HAND LABOR	hour	9.06	0.0566	0.51	_____
OPERATOR LABOR	hour	17.94	0.1689	3.03	_____
UNALLOCATED LABOR	hour	17.89	0.1452	2.60	_____
DIESEL FUEL	gal	3.44	2.6861	9.24	_____
REPAIR & MAINTENANCE	acre	10.43	1.0000	10.43	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____

TOTAL DIRECT EXPENSES				368.35	_____
RETURNS ABOVE DIRECT EXPENSES				-51.60	_____
TOTAL FIXED EXPENSES				41.15	_____

TOTAL SPECIFIED EXPENSES				409.50	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				-92.75	_____

Note: Cost of production estimates are based on 2023 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	INPUT AMOUNT	POWER IMPLEMENT	POWER UNIT	ALLOC LABOR	UNALL LABOR
						-----hours-----				
Soil Test	acre			0.33	Nov	0.3330				
Lime (Spread)	ton			0.33	Nov	0.3330				
Custom Apply Fert	acre			1.00	Nov	1.0000				
Phosphorus (46% P2O5)	cwt					0.8700				
Potash (60% K2O)	cwt					1.3300				
Soybeans Consultant	acre			1.00	May	1.0000				
Plant & Pre-Folding	16R-30	MFWD 300	0.050	1.00	Jun		0.05	0.05	0.10	0.04
Soybean Seed RR2X	lb					50.0000				
CruiserMaxx Vibrance	oz					1.6000				
Inoculant -Soybean	acre					1.0000				
Boundary	pt					2.0000				
Gramoxone SL 2.0	oz					48.0000				
Surfactant	pt					0.4000				
Sprayer 600-825gal	90' 250hp		0.011	1.00	Jul			0.01	0.01	0.01
Glyphosate 3lbs a.e	oz					32.0000				
Engenia	oz					12.8000				
Dual Magnum	pt					1.0000				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Acephate 90SP	lb					0.7500				
App by Air (5 gal)	appl			1.00	Aug	1.0000				
Prevathon	oz					14.0000				
Surfactant	pt					0.1000				
Bifenthrin	oz					6.4000				
Incidental Pest				1.00	Sep					
App by Air (5 gal)	appl					1.0000				
IncidentalPestTrt \$8	acre					1.0000				
Header -Soybean	30' Flex	325 hp	0.085	1.00	Oct		0.08	0.08	0.08	0.07
Haul Soybeans	bu					25.0000				
Grain Cart Soybean	700 bu	MFWD 300	0.021	1.00	Oct		0.02	0.02	0.02	0.01
TOTALS							0.16	0.15	0.22	0.14

Note: Cost of production estimates are based on 2023 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Soil Test	acre	3.33						0.27	3.60		3.60
Lime (Spread)	ton	21.65						1.79	23.44		23.44
Custom Apply Fert	acre	7.50						0.62	8.12		8.12
Phosphorus(46% P2O5)	cwt	34.15						2.82	36.97		36.97
Potash (60% K2O)	cwt	48.15						3.97	52.12		52.12
Soybeans Consultant	acre	6.50						0.27	6.77		6.77
Plant & Pre-Folding	16R-30		2.70	3.94	2.15			0.30	9.09	12.51	21.60
Soybean Seed RR2X	lb	57.50						1.98	59.48		59.48
CruiserMaxx Vibrance	oz	12.21						0.42	12.63		12.63
Inoculant -Soybean	acre	1.55						0.05	1.60		1.60
Boundary	pt	24.00						0.83	24.83		24.83
Gramoxone SL 2.0	oz	15.84						0.54	16.38		16.38
Surfactant	pt	1.32						0.05	1.37		1.37
Sprayer 600-825gal	90' 250hp		0.51	0.21	0.44			0.03	1.19	1.66	2.85
Glyphosate 3lbs a.e	oz	8.00						0.22	8.22		8.22
Engenia	oz	10.24						0.28	10.52		10.52
Dual Magnum	pt	10.75						0.30	11.05		11.05
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Acephate 90SP	lb	6.19						0.13	6.32		6.32
App by Air (5 gal)	appl	8.11						0.17	8.28		8.28
Prevathon	oz	14.70						0.30	15.00		15.00
Surfactant	pt	0.33						0.01	0.34		0.34
Bifenthrin	oz	3.58						0.07	3.65		3.65
Incidental Pest											
App by Air (5 gal)	appl	8.11						0.11	8.22		8.22
IncidentalPestTrt \$8	acre	8.00						0.11	8.11		8.11
Header -Soybean	30' Flex		4.90	5.73	2.84			0.09	13.56	24.45	38.01
Haul Soybeans	bu	6.75						0.05	6.80		6.80
Grain Cart Soybean	700 bu		1.13	0.55	0.71			0.02	2.41	2.53	4.94
TOTALS			326.57	9.24	10.43	6.14	0.00	15.97	368.35	41.15	409.50

Note: Cost of production estimates are based on 2023 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.**The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2024

ITEM	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
-----dollars-----												
TOTAL INCOME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	316.75
DIRECT EXPENSES												
CUSTOM SPRAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.22	8.11	0.00
FERTILIZERS	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUNGICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.21	0.00	0.00	0.00	0.00
HERBICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.84	28.99	0.00	0.00	0.00
INSECTICIDES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.47	8.00	0.00
SEED/PLANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.50	0.00	0.00	0.00	0.00
ADJUVANTS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.33	0.00	0.00
CUSTOM FERTILIZE	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75
CUSTOM LIME	21.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CROP CONSULTANT	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00
INOCULANT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
SOIL TEST	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LABOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.44	0.00	0.00	3.55
LEASE *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.51	0.00	0.00	6.03
REPAIR & MAINTENANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	0.21	0.00	0.00	6.28
INTEREST ON OP. CAP.	9.47	0.00	0.00	0.00	0.00	0.00	0.27	4.17	0.83	0.85	0.22	0.16
TOTAL DIRECT EXPENSES	124.25	0.00	0.00	0.00	0.00	0.00	6.77	125.38	30.98	41.87	16.33	22.77
NET INCOME	-124.25	0.00	0.00	0.00	0.00	0.00	-6.77	-125.38	-30.98	-41.87	-16.33	293.98
NET INCOME TO DATE	-124.25	-124.25	-124.25	-124.25	-124.25	-124.25	-131.02	-256.40	-287.38	-329.25	-345.58	-51.60

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

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

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

* Lease costs are based on hourly usage costs.

Table 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, 2024

PRODUCT			PERCENT										
-----			75	80	85	90	95	100	105	110	115	120	125
-----			PRODUCT PRICE-----										
-----			9.50	10.13	10.76	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83
PERCENT	YIELD	UNIT	-----dollars-----										
50	12.50	bu	-246	-238	-230	-222	-214	-206	-198	-190	-182	-174	-166
			-287	-279	-271	-263	-255	-247	-239	-231	-223	-216	-208
60	15.00	bu	-223	-213	-204	-194	-185	-175	-166	-156	-147	-137	-128
			-264	-254	-245	-235	-226	-216	-207	-197	-188	-178	-169
70	17.50	bu	-200	-188	-177	-166	-155	-144	-133	-122	-111	-100	-89
			-241	-230	-218	-207	-196	-185	-174	-163	-152	-141	-130
80	20.00	bu	-176	-164	-151	-138	-126	-113	-100	-88	-75	-62	-50
			-218	-205	-192	-180	-167	-154	-142	-129	-116	-104	-91
90	22.50	bu	-153	-139	-125	-111	-96	-82	-68	-54	-39	-25	-11
			-195	-180	-166	-152	-137	-123	-109	-95	-80	-66	-52
100	25.00	bu	-130	-114	-99	-83	-67	-51	-35	-19	-4	11	27
			-171	-156	-140	-124	-108	-92	-76	-61	-45	-29	-13
110	27.50	bu	-107	-90	-72	-55	-38	-20	-3	14	31	49	66
			-148	-131	-114	-96	-79	-61	-44	-26	-9	7	25
120	30.00	bu	-84	-65	-46	-27	-8	10	29	48	67	86	105
			-125	-106	-87	-68	-49	-30	-11	7	26	45	64
130	32.50	bu	-61	-40	-20	0	20	41	61	82	103	123	144
			-102	-82	-61	-40	-20	0	20	41	62	82	103
140	35.00	bu	-38	-16	5	28	50	72	94	116	138	161	183
			-79	-57	-35	-13	9	31	53	75	97	119	142
150	37.50	bu	-15	8	32	55	79	103	127	150	174	198	222
			-56	-32	-9	14	38	62	85	109	133	157	181

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2023 input prices.

APPENDIX

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

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

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

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

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

Notes:

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

Direct: Does not include interest on operating capital.

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---	Total Imp.	---Fixed---	Total Cost		
			dollars	hours	years	hr/ac	-----\$/acre-----							
Bed-Paratill w/ro	4R-30	MFWD 225	27,800	150	12	0.204	3.66	8.14	2.05	1.97	15.83	4.57	15.25	35.66
Bed-Paratill w/ro	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Paratill w/ro	6R-38	MFWD 225	38,000	150	12	0.107	1.92	4.28	1.47	1.03	8.72	3.29	8.03	20.05
Bed-Rip/Disk Fold.	8R-38	MFWD 190	71,000	300	20	0.073	1.31	2.45	0.25	0.56	4.59	1.72	4.34	10.65
Bed-Rip/Disk Fold.	12R-30	MFWD 225	100,200	300	20	0.061	1.10	2.45	0.30	0.59	4.46	2.04	4.60	11.11
Bed-Rip/Disk Fold.	12R-38	MFWD 225	100,200	300	20	0.046	0.82	1.84	0.23	0.44	3.34	1.53	3.45	8.33
Bed-Rip/Disk Rigid	4R-30	MFWD 190	31,500	300	20	0.184	3.31	6.21	0.29	1.42	11.24	1.93	10.99	24.17
Bed-Rip/Disk Rigid	4R-38	MFWD 190	31,500	300	20	0.146	2.63	4.93	0.23	1.12	8.92	1.53	8.72	19.18
Bed-Rip/Disk Rigid	6R-30	MFWD 190	43,600	300	20	0.123	2.21	4.14	0.26	0.94	7.57	1.78	7.32	16.68
Bed-Rip/Disk Rigid	6R-38	MFWD 190	43,600	300	20	0.097	1.74	3.27	0.21	0.74	5.97	1.40	5.78	13.17
Bed-Rip/Disk Rigid	8R-30	MFWD 190	57,800	300	20	0.139	2.49	4.67	0.40	1.06	8.64	2.66	8.26	19.56
Bed-Rip/Disk Rigid	8R-38	MFWD 190	57,800	300	20	0.073	1.31	2.45	0.21	0.56	4.54	1.40	4.34	10.28
Bed-Rip/Disk/Cond.	6-Row	MFWD 225	43,600	150	12	0.107	1.92	4.28	1.69	1.03	8.94	3.77	8.03	20.75
Bed-Rip/Disk/Cond.	8-Row	MFWD 225	49,300	150	12	0.080	1.44	3.21	1.43	0.77	6.88	3.20	6.03	16.12
Bed-Subsoil Fold	8R-38	MFWD 225	71,000	150	12	0.080	1.44	3.21	2.07	0.77	7.51	4.61	6.03	18.16
Bed-Subsoil Fold	8R-38 2x1	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Fold	12R-38	MFWD 225	100,200	150	12	0.053	0.96	2.14	1.94	0.51	5.57	4.33	4.01	13.92
Bed-Subsoil Rigid	4R-30	MFWD 225	26,100	150	12	0.204	3.66	8.14	1.92	1.97	15.70	4.29	15.25	35.26
Bed-Subsoil Rigid	4R-38	MFWD 225	27,800	150	12	0.160	2.88	6.40	1.61	1.55	12.46	3.60	12.01	28.08
Bed-Subsoil Rigid	6R-30	MFWD 225	36,300	150	12	0.136	2.44	5.42	1.78	1.31	10.97	3.98	10.17	25.12
Bed-Subsoil Rigid	6R-38	MFWD 225	37,700	150	12	0.107	1.92	4.28	1.46	1.03	8.71	3.26	8.03	20.01
Bed-Subsoil Rigid	8R-30	MFWD 225	48,500	150	12	0.102	1.83	4.07	1.78	0.98	8.67	3.99	7.63	20.30
Bed-Subsoil Rigid	8R-38	MFWD 225	50,100	150	12	0.080	1.44	3.21	1.46	0.77	6.90	3.25	6.03	16.19
Bed/Disk (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.64	3.92	0.57	0.78	7.93	1.91	5.90	15.76
Bed/Disk (Hipper)	6R-38	MFWD 170	23,900	160	10	0.098	1.77	2.97	0.58	0.61	5.95	1.94	4.79	12.69
Bed/Disk (Hipper)	8R-30	MFWD 190	33,100	160	10	0.093	1.68	3.15	0.77	0.72	6.33	2.56	5.57	14.47
Bed/Disk (Hipper)	8R-38 2x1	MFWD 190	114,000	160	10	0.049	0.88	1.65	1.40	0.37	4.33	4.64	2.93	11.91
Bed/Disk (Hipper)	12R-30	MFWD 225	87,500	160	10	0.062	1.12	2.48	1.36	0.60	5.58	4.51	4.66	14.76
Bed/Disk (Hipper)	12R-38	MFWD 225	114,000	160	10	0.049	0.88	1.96	1.40	0.47	4.73	4.64	3.68	13.06
Bed/Disk (Hipper)	16R-40	MFWD 300	135,000	160	10	0.035	0.63	1.87	1.19	0.39	4.10	3.94	3.05	11.10
Bed/Disk (Hipper) Fl	8R-38	MFWD 190	45,800	160	10	0.074	1.32	2.49	0.84	0.56	5.24	2.80	4.40	12.45
Bed/Disk (Hipper) Rd	8R-38	MFWD 190	36,100	160	10	0.074	1.32	2.49	0.66	0.56	5.06	2.21	4.40	11.67
Bed/Disk w/roller	8R-30	MFWD 190	59,900	160	10	0.093	1.68	3.15	1.40	0.72	6.96	4.63	5.57	17.17
Bed/Disk w/roller	8R-38	MFWD 190	68,500	160	10	0.074	1.32	2.49	1.26	0.56	5.66	4.19	4.40	14.26
Bed/Disk w/roller	12R-30/40	MFWD 225	113,000	160	10	0.062	1.12	2.48	1.76	0.60	5.98	5.83	4.66	16.48
Bed/Lister	4R-38	MFWD 150	31,900	160	8	0.228	4.09	6.06	1.70	1.22	13.09	6.60	9.13	28.83
Bed/Lister	6R-38	MFWD 150	36,000	160	8	0.120	2.15	3.19	1.01	0.64	7.00	3.92	4.80	15.73
Bed/Lister	8R-30	MFWD 190	48,300	160	8	0.114	2.04	3.84	1.29	0.87	8.06	4.99	6.78	19.84
Bed/Lister	8R-38	MFWD 190	48,700	160	8	0.090	1.61	3.03	1.03	0.69	6.38	3.98	5.36	15.73
Bed/Lister	8R-38 2x1	MFWD 190	81,500	160	8	0.060	1.07	2.02	1.14	0.46	4.71	4.43	3.57	12.72
Bed/Lister	12R-38	MFWD 225	81,500	160	8	0.060	1.07	2.39	1.14	0.58	5.20	4.43	4.48	14.12
Bed/Lister	16R-30	MFWD 225	94,300	160	8	0.035	0.63	1.39	0.77	0.33	3.14	3.00	2.62	8.77
Bed/Lister	16R40	MFWD 300	99,200	160	8	0.043	0.77	2.28	1.00	0.48	4.54	3.87	3.71	12.13
Bed/Lister-Roll-Fo	8R-38	MFWD 190	30,100	160	10	0.095	1.72	3.22	0.72	0.73	6.40	2.38	5.70	14.49
Bed/Lister-Roll-Fo	12R-30	MFWD 225	65,100	160	10	0.080	1.45	3.22	1.31	0.78	6.77	4.34	6.04	17.16
Bed/Lister-Roll-Fo	12R-38	MFWD 225	48,400	160	10	0.063	1.14	2.54	0.77	0.61	5.07	2.55	4.76	12.39
Bed/Lister-Roll-Fo	16R-30	MFWD 225	56,800	160	10	0.060	1.08	2.41	0.86	0.58	4.95	2.84	4.53	12.32
Bed/Lister-Roll-Ri	8R-38	MFWD 190	25,000	160	10	0.095	1.72	3.22	0.59	0.73	6.28	1.98	5.70	13.96
Blade-Box	6'-7'	MFWD 105	2,080	200	20	0.020	0.35	0.37	0.01	0.05	0.80	0.02	0.42	1.25
Boll Buggy	4R-38 (250)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R-38 (350)	MFWD 190	30,500	200	10	0.257	4.62	8.67	1.96	1.98	17.24	5.06	15.32	37.63
Boll Buggy	4R2x1 (350)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Boll Buggy	6R-30 (355)	MFWD 190	30,500	200	10	0.218	3.91	7.34	1.66	1.67	14.59	4.28	12.97	31.86
Boll Buggy	6R-38 (355)	MFWD 190	30,500	200	10	0.172	3.09	5.79	1.31	1.32	11.52	3.38	10.24	25.15
Chisel Plow-Folding	24'	MFWD 190	57,300	150	12	0.076	1.37	2.57	1.58	0.58	6.11	3.52	4.54	14.18
Chisel Plow-Folding	32'	MFWD 225	72,800	150	12	0.057	1.03	2.30	1.51	0.55	5.41	3.38	4.31	13.11
Chisel Plow-Folding	42'	MFWD 225	86,400	150	12	0.044	0.78	1.75	1.37	0.42	4.34	3.06	3.28	10.69
Chisel Plow-Folding	50'	MFWD 225	108,100	150	12	0.036	0.66	1.47	1.44	0.35	3.93	3.21	2.76	9.91
Chisel Plow-Folding	61'	MFWD 225	135,400	150	12	0.030	0.54	1.20	1.48	0.29	3.52	3.30	2.26	9.09
Chisel Plow-Rigid	10'	MFWD 170	15,300	150	12	0.184	3.31	5.56	1.02	1.16	11.06	2.27	8.98	22.32
Chisel Plow-Rigid	15'	2WD 130	20,300	150	12	0.123	2.21	2.83	0.90	0.52	6.47	2.01	3.90	12.39
Chisel Plow-Rigid	20'	MFWD 225	13,400	150	12	0.102	1.84	4.09	0.49	0.99	7.42	1.10	7.67	16.20
Cultivate	4R-30	2WD 105	21,500	150	10	0.206	3.70	3.83	1.18	0.60	9.32	3.90	4.55	17.78
Cultivate	4R-38	2WD 105	21,500	150	10	0.162	2.91	3.01	0.93	0.42	7.29	3.07	3.19	13.55
Cultivate	6R-30	MFWD 150	28,100	150	10	0.137	2.46	3.65	1.03	0.73	7.88	3.40	5.50	16.79
Cultivate	6R-38	MFWD 150	28,000	150	10	0.108	1.94	2.88	0.81	0.58	6.22	2.67	4.34	13.24
Cultivate	8R-30	MFWD 190	38,400	150	10	0.103	1.85	3.46	1.05	0.79	7.16	3.48	6.13	16.79
Cultivate	8R-38	MFWD 190	38,300	150	10	0.073	1.32	2.47	0.75	0.56	5.11	2.48	4.37	11.98
Cultivate	8R-38 2x1	MFWD 190	59,100	150	10	0.054	0.97	1.82	0.85	0.41	4.07	2.82	3.22	10.12
Cultivate	12R-30	MFWD 225	62,000	150	10	0.068	1.23	2.73	1.13	0.66	5.77	3.75	5.13	14.66
Cultivate	12R-38	MFWD 225	59,100	150	10	0.054	0.97	2.16	0.85	0.52	4.51	2.82	4.05	11.39
Cultivate	16R-30	MFWD 225	83,400	150	10	0.051	0.92	2.05	1.14	0.49	4.62	3.78	3.85	12.26
Cultivate & Post	4R-30	2WD 105	27,300	150	10	0.220	4.94	4.09	1.60	0.57	11.21	5.29	4.32	20.82
Cultivate & Post	4R-38	2WD 105	27,300	150	10	0.173	3.89	3.22	1.26	0.45	8.82	4.16	3.40	16.40
Cultivate & Post	6R-30	MFWD 150	33,900	150	10	0.146	3.29	3.89	1.32	0.78	9.30	4.38	5.86	19.55
Cultivate & Post	6R-38	MFWD 150	33,800	150	10	0.115	2.60	3.07	1.04	0.61	7.33	3.44	4.63	15.42
Cultivate & Post	8R-30	MFWD 190	44,200	150	10	0.110	2.47	3.70	1.29	0.84	8.31	4.28	6.54	19.13
Cultivate & Post	8R-38	MFWD 190	44,100	150	10	0.086	1.95	2.92	1.02	0.66	6.57	3.37	5.17	15.12
Cultivate & Post	8R-38 2x1	MFWD 190	64,900	150	10	0.057	1.30	1.94	1.00	0.44	4.69	3.31	3.44	11.44

(continued)

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Cultivate & Post	12R-30	MFWD 225	67,800	150	10	0.073	1.64	2.92	1.32	0.70	6.60	4.38	5.47	16.46
Cultivate & Post	12R-38	MFWD 225	64,900	150	10	0.057	1.30	2.30	1.00	0.55	5.16	3.31	4.32	12.80
Cultivate & Post	16R-30	MFWD 225	89,200	150	10	0.055	1.23	2.19	1.30	0.53	5.26	4.32	4.10	13.69
Disk & Incorporate	14'	2WD 130	45,300	200	10	0.149	3.36	3.44	2.03	0.63	9.47	4.48	4.74	18.69
Disk & Incorporate	20'	MFWD 190	96,900	200	10	0.092	2.07	3.10	2.68	0.71	8.58	5.92	5.49	20.00
Disk & Incorporate	24'	MFWD 190	77,700	200	10	0.087	1.96	2.93	2.03	0.67	7.60	4.48	5.19	17.27
Disk & Incorporate	28'	MFWD 225	80,500	200	10	0.074	1.68	2.98	1.80	0.72	7.19	3.98	5.58	16.76
Disk & Incorporate	32'	MFWD 225	95,100	200	10	0.065	1.47	2.60	1.86	0.63	6.58	4.11	4.89	15.58
Disk Harrow	14'	2WD 130	39,400	180	10	0.140	2.51	3.22	1.53	0.59	7.87	4.05	4.44	16.38
Disk Harrow	20'	MFWD 190	91,100	180	10	0.098	1.76	3.30	2.48	0.75	8.30	6.57	5.83	20.71
Disk Harrow	24'	MFWD 190	71,900	180	10	0.081	1.46	2.75	1.63	0.62	6.48	4.32	4.86	15.67
Disk Harrow	28'	MFWD 225	74,700	180	10	0.070	1.25	2.79	1.45	0.67	6.18	3.84	5.23	15.27
Disk Harrow	32'	MFWD 225	89,300	180	10	0.061	1.10	2.44	1.52	0.59	5.66	4.02	4.58	14.27
Disk Harrow	42'	MFWD 225	145,000	180	10	0.046	0.83	1.86	1.88	0.45	5.03	4.98	3.49	13.51
Disk Harrow 40-100hp	14'	2WD 75	23,100	180	10	0.140	2.51	1.86	0.90	0.26	5.54	2.38	1.96	9.88
Disk Heavy	14'	MFWD 150	39,400	180	10	0.145	2.61	3.87	1.59	0.77	8.87	4.22	5.83	18.93
Disk Heavy	20'	MFWD 190	91,100	180	10	0.097	1.74	3.27	2.46	0.74	8.22	6.50	5.78	20.52
Disk Heavy	28'	MFWD 225	74,700	180	10	0.075	1.35	3.01	1.57	0.73	6.67	4.15	5.65	16.47
Disk Ripper	15'	MFWD 225	60,400	180	10	0.136	2.44	5.42	2.28	1.31	11.47	6.04	10.17	27.68
Ditcher		2WD 130	8,760	200	10	0.020	0.35	0.46	0.07	0.08	0.97	0.11	0.63	1.72
Ditcher (1m/160a)		2WD 130	8,760	200	10	0.009	0.16	0.21	0.03	0.03	0.45	0.05	0.29	0.80
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.47	4.10	2.61	0.82	11.02	3.67	6.18	20.89
Fert Appl (Liquid)	6R-30	MFWD 170	25,300	150	8	0.130	2.94	3.94	2.20	0.82	9.91	3.10	6.36	19.37
Fert Appl (Liquid)	6R-38	MFWD 170	25,300	150	8	0.103	2.32	3.11	1.74	0.64	7.82	2.44	5.02	15.29
Fert Appl (Liquid)	8R-30	MFWD 190	26,300	150	8	0.098	2.20	3.30	1.72	0.75	7.98	2.41	5.83	16.24
Fert Appl (Liquid)	8R-38	MFWD 190	29,500	150	8	0.077	1.74	2.61	1.52	0.59	6.48	2.14	4.61	13.24
Fert Appl (Liquid)	8R-38 2x1	MFWD 190	32,900	150	8	0.051	1.16	1.73	1.13	0.39	4.43	1.59	3.07	9.09
Fert Appl (Liquid)	12R-30	MFWD 225	28,800	150	8	0.078	1.76	3.13	1.50	0.75	7.16	2.11	5.86	15.14
Fert Appl (Liquid)	12R-38	MFWD 225	31,100	150	8	0.051	1.16	2.05	1.07	0.49	4.79	1.50	3.86	10.15
Field Cult & Inc	42'	MFWD 225	91,300	100	10	0.037	0.84	1.50	0.86	0.36	3.58	4.55	2.82	10.95
Field Cult & Inc	50'	MFWD 225	92,600	100	10	0.031	0.71	1.26	0.73	0.30	3.01	3.88	2.36	9.27
Field Cult & Inc Fld	24'	MFWD 170	44,400	100	10	0.066	1.48	1.98	0.73	0.41	4.62	3.88	3.21	11.71
Field Cult & Inc Fld	32'	MFWD 190	67,200	100	10	0.049	1.11	1.66	0.83	0.38	3.99	4.40	2.94	11.34
Field Cult & Inc Rdg	12'	2WD 150	23,000	100	10	0.132	2.97	3.51	0.76	0.56	7.81	4.01	4.25	16.08
Field Cultivate Fld	24'	MFWD 170	38,600	100	10	0.062	1.11	1.87	0.60	0.39	3.98	3.17	3.02	10.17
Field Cultivate Fld	32'	MFWD 190	61,400	100	10	0.046	0.83	1.56	0.71	0.35	3.48	3.78	2.77	10.04
Field Cultivate Fld	42'	MFWD 225	80,900	100	10	0.035	0.63	1.41	0.71	0.34	3.11	3.80	2.65	9.57
Field Cultivate Fld	50'	MFWD 225	82,900	100	10	0.029	0.53	1.18	0.61	0.28	2.63	3.27	2.23	8.13
Field Cultivate Rdg	12'	2WD 150	17,200	100	10	0.124	2.23	3.30	0.53	0.53	6.60	2.82	4.00	13.43
Grain Cart Corn	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.74	0.53	1.50	3.78
Grain Cart Corn	700 bu	MFWD 190	54,400	200	12	0.025	0.45	0.85	0.37	0.19	1.87	0.83	1.50	4.20
Grain Cart Corn	1000 bu	MFWD 225	74,000	200	12	0.025	0.45	1.00	0.50	0.24	2.21	1.13	1.88	5.23
Grain Cart Rice	500 bu	MFWD 190	35,100	200	12	0.062	1.12	2.10	0.59	0.48	4.29	1.32	3.71	9.33
Grain Cart Rice	700 bu	MFWD 190	54,400	200	12	0.055	0.98	1.85	0.81	0.42	4.07	1.80	3.27	9.14
Grain Cart Rice	1000 bu	MFWD 190	74,000	200	12	0.045	0.82	1.54	0.91	0.35	3.63	2.04	2.72	8.40
Grain Cart Soybean	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Soybean	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Soybean	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Cart Wht/Sor	500 bu	MFWD 190	35,100	200	12	0.025	0.45	0.85	0.24	0.19	1.75	0.54	1.51	3.81
Grain Cart Wht/Sor	700 bu	MFWD 190	54,400	200	12	0.021	0.38	0.71	0.31	0.16	1.57	0.69	1.26	3.53
Grain Cart Wht/Sor	1000 bu	MFWD 190	74,000	200	12	0.021	0.38	0.71	0.42	0.16	1.68	0.94	1.26	3.89
Grain Drill	10'	2WD 130	42,700	150	8	0.188	5.09	4.34	3.01	0.79	13.24	7.28	5.97	26.51
Grain Drill	12'	2WD 130	51,400	150	8	0.157	4.24	3.61	3.02	0.66	11.55	7.31	4.97	23.84
Grain Drill	15'	MFWD 150	46,800	150	8	0.125	3.39	3.33	2.20	0.67	9.61	5.32	5.03	19.96
Grain Drill	20'	MFWD 170	53,500	150	8	0.094	2.54	2.83	1.89	0.59	7.86	4.56	4.58	17.01
Grain Drill	24'	MFWD 190	80,300	150	8	0.078	2.12	2.64	2.36	0.60	7.73	5.71	4.67	18.11
Grain Drill	30'	MFWD 225	96,600	150	8	0.062	1.69	2.50	2.27	0.60	7.08	5.49	4.69	17.27
Grain Drill	35'	MFWD 225	114,000	150	8	0.053	1.45	2.14	2.30	0.52	6.42	5.56	4.02	16.00
Grain Drill & Pre	10'	2WD 130	48,500	150	8	0.203	5.48	4.67	3.69	0.85	14.71	8.91	6.43	30.06
Grain Drill & Pre	12'	2WD 130	57,200	150	8	0.169	4.56	3.89	3.62	0.71	12.81	8.76	5.36	26.93
Grain Drill & Pre	15'	MFWD 150	52,600	150	8	0.135	3.65	3.59	2.67	0.72	10.64	6.44	5.41	22.50
Grain Drill & Pre	20'	MFWD 170	59,300	150	8	0.101	2.74	3.05	2.25	0.63	8.69	5.45	4.93	19.07
Grain Drill & Pre	24'	MFWD 190	86,100	150	8	0.084	2.28	2.84	2.73	0.65	8.51	6.59	5.03	20.14
Grain Drill & Pre	30'	MFWD 225	102,000	150	8	0.067	1.82	2.69	2.58	0.65	7.76	6.24	5.05	19.07
Grain Drill & Pre	35'	MFWD 225	120,000	150	8	0.058	1.56	2.31	2.61	0.56	7.04	6.30	4.33	17.68
Grain Drill & Pre T	8R-38	MFWD 225	57,000	150	8	0.062	1.69	2.50	1.34	0.60	6.15	3.24	4.69	14.09
Harrow - Folding	24'	MFWD 190	13,800	200	10	0.064	1.16	2.17	0.31	0.49	4.14	0.59	3.84	8.58
Harrow - Folding	30'	MFWD 190	15,300	200	10	0.051	0.92	1.74	0.27	0.39	3.34	0.52	3.07	6.94
Harrow - Folding	40'	MFWD 190	21,300	200	10	0.038	0.69	1.30	0.28	0.29	2.59	0.54	2.30	5.44
Harrow - Folding	48'	MFWD 225	26,000	200	10	0.032	0.58	1.28	0.29	0.31	2.47	0.55	2.41	5.44
Header - Corn	6R-30	265 hp	72,300	300	8	0.170	3.05	7.98	3.07	8.21	22.33	5.76	39.32	67.41
Header - Corn	6R-38	265 hp	73,500	300	8	0.134	2.41	6.30	2.47	6.48	17.67	4.62	31.04	53.34
Header - Corn	8R-30	265 hp	99,100	300	8	0.127	2.29	5.99	3.16	6.15	17.60	5.92	29.49	53.02
Header - Corn	8R-38	325 hp	87,300	300	8	0.100	1.81	5.81	2.20	5.57	15.39	4.12	26.68	46.21
Header - Corn	12R-20	325 hp	148,000	300	8	0.127	2.29	7.34	4.72	7.05	21.41	8.84	33.76	64.02
Header - Corn	12R-30	325 hp	135,000	300	8	0.085	1.52	4.89	2.87	4.70	14.00	5.37	22.50	41.88
Header - Draper (CL)	25' Rigid	265 hp	83,200	300	8	0.203	3.64	9.52	3.87	9.79	26.83	7.64	46.89	81.38
Header - Draper (CL)	30' Rigid	325 hp	85,600	300	8	0.169	3.03	9.73	3.31	9.34	25.43	6.55	44.73	76.73

(continued)

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
Header - Draper (CL)	36' Rigid	355 hp	89,900	300	8	0.141	2.53	8.86	2.90	8.06	22.36	5.73	38.61	66.72
Header - Draper (CL)	40' Rigid	425 hp	95,200	300	8	0.126	2.27	9.55	2.76	7.40	22.00	5.46	35.45	62.91
Header - Draper (SL)	25' Rigid	325 hp	83,200	300	8	0.176	3.15	10.12	3.35	9.71	26.35	6.62	46.52	79.51
Header - Draper (SL)	30' Rigid	325 hp	85,600	300	8	0.146	2.63	8.44	2.87	8.09	22.04	5.68	38.77	66.50
Header - Draper (SL)	36' Rigid	355 hp	89,900	300	8	0.122	2.19	7.68	2.51	6.98	19.38	4.97	33.46	57.82
Header - Draper (SL)	40' Rigid	425 hp	95,200	300	8	0.110	1.97	8.27	2.39	6.41	19.06	4.73	30.72	54.53
Header -RiceStrp(CL)	20'	265 hp	50,600	300	8	0.253	4.55	11.91	3.21	12.24	31.91	6.01	58.62	96.55
Header -RiceStrp(CL)	24'	325 hp	54,000	300	8	0.211	3.79	12.17	2.85	11.67	30.50	5.34	55.92	91.77
Header -RiceStrp(CL)	32'	325 hp	70,800	300	8	0.158	2.84	9.13	2.80	8.75	23.54	5.25	41.93	70.73
Header -RiceStrp(SL)	20'	265 hp	50,600	300	8	0.220	3.94	10.32	2.78	10.61	27.66	5.20	50.80	83.67
Header -RiceStrp(SL)	24'	325 hp	54,000	300	8	0.183	3.28	10.55	2.47	10.12	26.43	4.63	48.46	79.53
Header -RiceStrp(SL)	32'	325 hp	70,800	300	8	0.137	2.46	7.91	2.43	7.59	20.40	4.55	36.34	61.30
Header -Soybean	22' Flex	265 hp	42,600	300	8	0.116	2.08	5.44	1.23	5.59	14.36	2.31	26.81	43.49
Header -Soybean	25' Flex	325 hp	42,000	300	8	0.102	1.83	5.88	1.07	5.64	14.42	2.00	27.00	43.44
Header -Soybean	30' Flex	325 hp	48,600	300	8	0.085	1.52	4.89	1.03	4.70	12.16	1.93	22.50	36.60
Header -Soybean	35' Flex	355 hp	58,300	300	8	0.072	1.30	4.58	1.06	4.17	11.13	1.99	19.98	33.10
Header Wheat/Sorghum	22' Rigid	265 hp	19,800	300	8	0.116	2.08	5.44	0.57	5.59	13.70	1.07	26.81	41.59
Header Wheat/Sorghum	25' Rigid	325 hp	41,800	300	8	0.102	1.83	5.88	1.06	5.64	14.42	1.99	27.00	43.42
Header Wheat/Sorghum	30' Rigid	325 hp	55,100	300	8	0.085	1.52	4.89	1.17	4.70	12.30	2.19	22.50	37.00
Land Plane	50'x16'	MFWD 190	13,500	200	10	0.151	2.72	5.10	0.40	1.16	9.39	1.35	9.01	19.76
Levee Pull & Seed	8 Blade	MFWD 170	17,600	100	10	0.003	0.06	0.10	0.01	0.02	0.20	0.08	0.17	0.46
Levee Pull (1m/80a)	8 blade	MFWD 170	8,370	100	10	0.003	0.06	0.10	0.00	0.02	0.19	0.03	0.17	0.41
Levee Splitter (1/80	32"	MFWD 150	9,220	100	10	0.004	0.07	0.11	0.00	0.02	0.21	0.05	0.16	0.43
Module Builder	4R-38(250)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R-38(350)	MFWD 190	34,700	200	10	0.257	6.96	8.67	2.23	1.98	19.85	5.76	15.32	40.93
Module Builder	4R2x1(350)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
Module Builder	6R-30(355)	MFWD 190	34,700	200	10	0.218	5.89	7.34	1.89	1.67	16.80	4.87	12.97	34.66
Module Builder	6R-38(355)	MFWD 190	34,700	200	10	0.172	4.65	5.79	1.49	1.32	13.26	3.85	10.24	27.36
NT Grain Drill	10'	2WD 130	42,400	150	8	0.235	6.36	5.42	3.74	0.99	16.53	9.04	7.46	33.04
NT Grain Drill	12'	2WD 130	57,200	150	8	0.163	4.41	3.76	3.51	0.69	12.39	8.47	5.18	26.05
NT Grain Drill	15'	MFWD 150	73,300	150	8	0.130	3.53	3.47	3.59	0.69	11.31	8.68	5.23	25.24
NT Grain Drill	20'	MFWD 170	98,900	150	8	0.098	2.65	2.95	3.64	0.61	9.86	8.79	4.77	23.43
NT Grain Drill	24'	MFWD 190	111,300	150	8	0.081	2.20	2.75	3.41	0.62	9.00	8.24	4.86	22.12
NT Grain Drill	30'	MFWD 225	110,200	150	8	0.065	1.76	2.60	2.70	0.63	7.71	6.53	4.89	19.13
NT Grain Drill & Pre	10'	2WD 130	48,200	150	8	0.211	5.71	4.86	3.82	0.89	15.29	9.22	6.70	31.23
NT Grain Drill & Pre	12'	2WD 130	63,000	150	8	0.176	4.75	4.05	4.16	0.74	13.72	10.05	5.58	29.36
NT Grain Drill & Pre	15'	MFWD 150	79,100	150	8	0.141	3.80	3.74	4.18	0.75	12.49	10.09	5.64	28.23
NT Grain Drill & Pre	20'	MFWD 170	105,000	150	8	0.105	2.85	3.18	4.16	0.66	10.86	10.05	5.13	26.06
NT Grain Drill & Pre	24'	MFWD 190	117,000	150	8	0.088	2.37	2.96	3.86	0.67	9.88	9.33	5.24	24.46
NT Grain Drill & Pre	30'	MFWD 225	116,000	150	8	0.070	1.90	2.80	3.06	0.68	8.46	7.40	5.26	21.13
NT Plant&Pre-Folding	8R-38	MFWD 170	83,600	150	8	0.083	2.25	2.51	2.62	0.52	7.92	6.32	4.06	18.30
NT Plant&Pre-Folding	8R-38 2x1	MFWD 170	119,000	150	8	0.055	1.50	1.67	2.48	0.34	6.01	5.99	2.70	14.71
NT Plant&Pre-Folding	12R-20	MFWD 190	82,800	150	8	0.105	2.85	3.55	3.28	0.81	10.51	7.92	6.28	24.72
NT Plant&Pre-Folding	12R-30	MFWD 190	108,000	150	8	0.070	1.90	2.37	2.85	0.54	7.67	6.89	4.19	18.75
NT Plant&Pre-Folding	12R-38	MFWD 190	119,000	150	8	0.055	1.50	1.87	2.48	0.42	6.28	5.99	3.30	15.59
NT Plant&Pre-Folding	16R-30	MFWD 190	193,000	150	8	0.052	1.42	1.77	3.82	0.40	7.44	9.23	3.14	19.82
NT Plant&Pre-Folding	23R-15	MFWD 190	218,000	150	8	0.073	1.98	2.47	6.00	0.56	11.02	14.49	4.36	29.88
NT Plant&Pre-Folding	24R-20	MFWD 190	254,000	150	8	0.052	1.42	1.77	5.03	0.40	8.65	12.15	3.14	23.95
NT Plant&Pre-Folding	24R-30	MFWD 190	227,000	150	8	0.035	0.95	1.18	3.00	0.27	5.41	7.24	2.09	14.75
NT Plant&Pre-Folding	31R-15	MFWD 225	267,000	150	8	0.054	1.47	2.17	5.47	0.52	9.65	13.21	4.08	26.94
NT Plant&Pre-Folding	32R-15	MFWD 225	272,000	150	8	0.052	1.42	2.10	5.39	0.51	9.43	13.02	3.94	26.40
NT Plant&Pre-Rigid	4R-30	2WD 130	41,900	150	8	0.211	5.71	4.86	3.32	0.89	14.79	8.02	6.70	29.52
NT Plant&Pre-Rigid	4R-38	2WD 130	37,500	150	8	0.166	4.49	3.83	2.34	0.70	11.37	5.65	5.27	22.31
NT Plant&Pre-Rigid	6R-30	MFWD 150	50,800	150	8	0.141	3.80	3.74	2.68	0.75	10.99	6.48	5.64	23.12
NT Plant&Pre-Rigid	6R-38	MFWD 150	49,500	150	8	0.111	3.00	2.95	2.06	0.59	8.62	4.98	4.45	18.06
NT Plant&Pre-Rigid	8R-30	MFWD 170	65,200	150	8	0.105	2.85	3.18	2.58	0.66	9.29	6.24	5.13	20.67
NT Plant&Pre-Rigid	8R-38	MFWD 170	62,300	150	8	0.083	2.25	2.51	1.95	0.52	7.25	4.71	4.06	16.02
NT Plant&Pre-Rigid	11R-15	MFWD 170	70,000	150	8	0.143	3.88	4.33	3.77	0.90	12.89	9.11	6.99	29.00
NT Plant&Pre-Rigid	11R-20	MFWD 170	73,800	150	8	0.115	3.12	3.47	3.19	0.72	10.52	7.72	5.61	23.86
NT Plant&Pre-Rigid	12R-20	MFWD 190	78,700	150	8	0.105	2.85	3.55	3.12	0.81	10.34	7.53	6.28	24.17
NT Plant&Pre-Rigid	12R-30	MFWD 190	100,400	150	8	0.070	1.90	2.37	2.65	0.54	7.47	6.40	4.19	18.07
NT Plant&Pre-Rigid	15R-15	MFWD 190	96,800	150	8	0.113	3.05	3.80	4.10	0.86	11.83	9.91	6.72	28.47
NT Plant&Pre-TwinRow	12R-30/40	MFWD 225	173,000	150	8	0.055	1.50	2.21	3.61	0.53	7.87	8.71	4.15	20.74
NT Plant&Pre-TwinRow	8R-30/40	MFWD 225	135,300	150	8	0.083	2.25	3.33	4.24	0.80	10.63	10.24	6.24	27.12
NT Plant-Folding	8R-38	MFWD 170	77,700	150	8	0.077	2.09	2.33	2.26	0.48	7.18	5.46	3.77	16.41
NT Plant-Folding	8R-38 2x1	MFWD 170	109,000	150	8	0.051	1.39	1.55	2.11	0.32	5.38	5.10	2.51	13.00
NT Plant-Folding	12R-20	MFWD 190	77,500	150	8	0.098	2.65	3.30	2.85	0.75	9.56	6.88	5.83	22.29
NT Plant-Folding	12R-30	MFWD 190	97,600	150	8	0.065	1.76	2.20	2.39	0.50	6.87	5.78	3.89	16.54
NT Plant-Folding	12R-38	MFWD 190	109,000	150	8	0.051	1.39	1.73	2.11	0.39	5.64	5.10	3.07	13.81
NT Plant-Folding	16R-30	MFWD 190	182,000	150	8	0.049	1.32	1.65	3.35	0.37	6.70	8.09	2.91	17.71
NT Plant-Folding	23R-15	MFWD 190	207,000	150	8	0.068	1.84	2.29	5.29	0.52	9.95	12.77	4.05	26.78
NT Plant-Folding	24R-20	MFWD 190	244,000	150	8	0.049	1.32	1.65	4.49	0.37	7.84	10.84	2.91	21.61
NT Plant-Folding	24R-30	MFWD 190	208,000	150	8	0.032	0.88	1.10	2.55	0.25	4.79	6.16	1.94	12.90
NT Plant-Folding	31R-15	MFWD 225	256,000	150	8	0.050	1.37	2.02	4.87	0.49	8.75	11.76	3.79	24.30
NT Plant-Folding	32R-15	MFWD 225	261,000	150	8	0.049	1.32	1.95	4.80	0.47	8.56	11.60	3.66	23.83
NT Plant-Rigid	4R-30	2WD 130	36,100	150	8	0.196	5.30	4.52	2.65	0.83	13.31	6.41	6.22	25.95
NT Plant-Rigid	4R-38	2WD 130	31,600	150	8	0.154	4.17	3.56	1.83	0.65	10.22	4.42	4.90	19.54
NT Plant-Rigid	6R-30	MFWD 150	45,000	150	8	0.130	3.53	3.47	2.20	0.69	9.92	5.33	5.23	20.49
NT Plant-Rigid	6R-38	MFWD 150	43,600	150	8	0.103	2.79	2.74	1.69	0.55	7.77	4.08	4.13	15.99

(continued)

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

Item Name	Size	Power Unit	Purchase Price	Annual Use	Useful Life	Perf Rate	Labor	Fuel	---R&M---		Total Direct	--Fixed--		Total Cost
									Imp.	P.U.		Imp.	P.U.	
			dollars	hours	years	hr/ac	-----\$/acre-----							
NT Plant-Rigid	8R-30	MFWD 170	59,400	150	8	0.098	2.65	2.95	2.18	0.61	8.41	5.28	4.77	18.46
NT Plant-Rigid	8R-38	MFWD 170	56,500	150	8	0.077	2.09	2.33	1.64	0.48	6.56	3.97	3.77	14.30
NT Plant-Rigid	11R-15	MFWD 170	64,200	150	8	0.133	3.60	4.02	3.21	0.83	11.68	7.76	6.49	25.94
NT Plant-Rigid	11R-20	MFWD 170	68,000	150	8	0.107	2.89	3.23	2.73	0.67	9.54	6.60	5.21	21.36
NT Plant-Rigid	12R-20	MFWD 190	72,900	150	8	0.098	2.65	3.30	2.68	0.75	9.39	6.48	5.83	21.71
NT Plant-Rigid	12R-30	MFWD 190	90,000	150	8	0.065	1.76	2.20	2.20	0.50	6.68	5.33	3.89	15.91
NT Plant-Rigid	15R-15	MFWD 190	86,500	150	8	0.105	2.83	3.53	3.40	0.80	10.58	8.22	6.24	25.05
NT Plant-TwinRow	12R-30/40	MFWD 225	163,000	150	8	0.051	1.39	2.05	3.15	0.49	7.11	7.62	3.86	18.60
NT Plant-TwinRow	8R-30/40	MFWD 225	130,000	150	8	0.077	2.09	3.09	3.78	0.74	9.72	9.13	5.79	24.65
Peanut Cond. & Lifter	6-Row	MFWD 190	15,200	300	20	0.100	1.79	3.36	0.25	0.76	6.18	0.51	5.94	12.64
Peanut Conditioner	6-Row	MFWD 190	24,800	300	20	0.100	1.79	3.36	0.49	0.76	6.42	0.78	5.94	13.15
Peanut Dig/Invertor	4R-30	MFWD 190	45,300	300	15	0.235	4.23	7.93	2.65	1.81	16.63	4.09	14.02	34.75
Peanut Dig/Invertor	4R-38	MFWD 190	45,300	300	15	0.186	3.34	6.26	2.09	1.43	13.13	3.23	11.07	27.44
Peanut Dig/Invertor	6R-38	MFWD 190	64,100	300	15	0.124	2.22	4.17	1.39	0.95	8.74	3.05	7.37	19.17
Peanut Dump Cart	6-Row	MFWD 190	70,000	300	20	0.310	5.56	10.42	1.26	2.38	19.63	7.19	18.43	45.26
Peanut Harvester	4R-30	MFWD 225	175,000	300	20	0.849	15.24	33.86	8.42	8.20	65.74	47.27	63.48	176.50
Peanut Harvester	4R-38	MFWD 225	175,000	300	20	0.934	16.76	37.23	9.26	9.02	72.29	53.10	69.79	195.18
Peanut Harvester	6R-38	MFWD 225	194,000	300	20	0.625	11.21	24.89	5.86	6.03	48.00	39.36	46.67	134.05
Peanut Lifter	6-Row	MFWD 225	9,960	300	20	0.100	1.79	3.98	0.20	0.96	6.94	0.31	7.46	14.73
Peanut Plt&Pre Fold.	12R-38	MFWD 190	107,000	150	8	0.080	2.17	2.70	3.22	0.61	8.72	7.78	4.78	21.29
Peanut Plt&Pre Rigid	8R-30	MFWD 190	57,100	150	8	0.152	4.12	5.13	3.27	1.17	13.71	7.89	9.08	30.69
Peanut Plt&Pre Rigid	8R-38	MFWD 190	54,200	150	8	0.120	3.26	4.06	2.45	0.92	10.70	5.92	7.18	23.81
Peanut Plt&PreTwin	8R-30/40	MFWD 190	127,000	150	8	0.120	3.26	4.06	5.75	0.92	14.00	13.88	7.18	35.06
Pipe Spool 160ac	1/4m roll	2WD 130	6,480	15	12	0.003	0.11	0.07	0.01	0.01	0.20	0.16	0.09	0.47
Pipe Trailer 1m/160a	30'	2WD 130	2,700	100	15	0.003	0.20	0.08	0.00	0.01	0.30	0.01	0.11	0.43
Plant & Pre-Folding	8R-38	MFWD 170	75,400	150	8	0.080	2.16	2.41	2.26	0.50	7.35	5.47	3.89	16.73
Plant & Pre-Folding	8R-38 2x1	MFWD 170	107,000	150	8	0.053	1.44	1.60	2.14	0.33	5.53	5.17	2.59	13.30
Plant & Pre-Folding	12R-20	MFWD 190	70,600	150	8	0.101	2.74	3.41	2.68	0.78	9.62	6.48	6.03	22.15
Plant & Pre-Folding	12R-30	MFWD 190	95,700	150	8	0.067	1.82	2.27	2.42	0.52	7.05	5.86	4.02	16.94
Plant & Pre-Folding	12R-38	MFWD 190	107,000	150	8	0.053	1.44	1.79	2.14	0.41	5.79	5.17	3.17	14.14
Plant & Pre-Folding	16R-30	MFWD 190	177,000	150	8	0.050	1.37	1.70	3.36	0.39	6.83	8.13	3.01	17.99
Plant & Pre-Folding	23R-15	MFWD 190	194,000	150	8	0.070	1.90	2.37	5.12	0.54	9.94	12.38	4.19	26.52
Plant & Pre-Folding	24R-20	MFWD 190	229,000	150	8	0.050	1.37	1.70	4.35	0.39	7.82	10.52	3.01	21.37
Plant & Pre-Folding	24R-30	MFWD 190	202,000	150	8	0.033	0.91	1.13	2.56	0.26	4.87	6.18	2.01	13.07
Plant & Pre-Folding	31R-15	MFWD 225	235,000	150	8	0.052	1.41	2.09	4.62	0.50	8.63	11.16	3.91	23.71
Plant & Pre-Folding	32R-15	MFWD 225	239,000	150	8	0.050	1.37	2.02	4.55	0.49	8.43	10.98	3.79	23.20
Plant & Pre-Rigid	4R-30	2WD 130	37,800	150	8	0.203	5.48	4.67	2.87	0.85	13.89	6.94	6.43	27.27
Plant & Pre-Rigid	4R-38	2WD 130	33,400	150	8	0.159	4.31	3.68	2.00	0.67	10.67	4.83	5.06	20.57
Plant & Pre-Rigid	6R-30	MFWD 150	44,700	150	8	0.135	3.65	3.59	2.26	0.72	10.24	5.47	5.41	21.13
Plant & Pre-Rigid	6R-38	MFWD 150	43,300	150	8	0.106	2.88	2.83	1.73	0.57	8.03	4.18	4.27	16.49
Plant & Pre-Rigid	8R-30	MFWD 170	57,100	150	8	0.101	2.74	3.05	2.17	0.63	8.61	5.24	4.93	18.79
Plant & Pre-Rigid	8R-38	MFWD 170	54,200	150	8	0.080	2.16	2.41	1.63	0.50	6.71	3.93	3.89	14.55
Plant & Pre-Rigid	11R-15	MFWD 170	58,800	150	8	0.148	4.00	4.46	3.26	0.93	12.66	7.88	7.20	27.75
Plant & Pre-Rigid	11R-20	MFWD 170	62,600	150	8	0.110	2.99	3.34	2.60	0.69	9.63	6.28	5.39	21.31
Plant & Pre-Rigid	12R-20	MFWD 190	66,500	150	8	0.101	2.74	3.41	2.53	0.78	9.47	6.11	6.03	21.61
Plant & Pre-Rigid	12R-30	MFWD 190	88,100	150	8	0.067	1.82	2.27	2.23	0.52	6.86	5.39	4.02	16.28
Plant & Pre-Rigid	15R-15	MFWD 190	81,500	150	8	0.108	2.93	3.65	3.31	0.83	10.73	8.01	6.45	25.20
Plant & Pre-TwinRow	12R-30/40	MFWD 225	161,000	150	8	0.053	1.44	2.12	3.22	0.51	7.31	7.78	3.99	19.09
Plant & Pre-TwinRow	8R-30/40	MFWD 225	127,000	150	8	0.080	2.16	3.19	3.82	0.77	9.96	9.22	5.99	25.18
Plant - Folding	8R-38	MFWD 170	69,600	150	8	0.074	2.01	2.24	1.94	0.46	6.66	4.69	3.62	14.98
Plant - Folding	8R-38 2x1	MFWD 170	96,500	150	8	0.049	1.33	1.49	1.79	0.31	4.94	4.33	2.41	11.68
Plant - Folding	12R-20	MFWD 190	65,200	150	8	0.094	2.54	3.17	2.30	0.72	8.74	5.56	5.60	19.91
Plant - Folding	12R-30	MFWD 190	85,400	150	8	0.062	1.69	2.11	2.01	0.48	6.30	4.85	3.73	14.90
Plant - Folding	12R-38	MFWD 190	96,500	150	8	0.049	1.33	1.66	1.79	0.38	5.18	4.33	2.95	12.47
Plant - Folding	16R-30	MFWD 190	166,000	150	8	0.047	1.27	1.58	2.93	0.36	6.15	7.08	2.80	16.04
Plant - Folding	23R-15	MFWD 190	184,000	150	8	0.065	1.76	2.20	4.51	0.50	8.99	10.90	3.89	23.79
Plant - Folding	24R-20	MFWD 190	219,000	150	8	0.047	1.27	1.58	3.87	0.36	7.09	9.34	2.80	19.24
Plant - Folding	24R-30	MFWD 190	184,000	150	8	0.031	0.84	1.05	2.16	0.24	4.31	5.23	1.86	11.41
Plant - Folding	31R-15	MFWD 225	225,000	150	8	0.048	1.31	1.94	4.11	0.47	7.83	9.92	3.63	21.40
Plant - Folding	32R-15	MFWD 225	229,000	150	8	0.047	1.27	1.87	4.04	0.45	7.65	9.77	3.52	20.94
Plant - Rigid	4R-30	2WD 130	32,000	150	8	0.188	5.09	4.34	2.26	0.79	12.49	5.46	5.97	23.92
Plant - Rigid	4R-38	2WD 130	27,600	150	8	0.148	4.00	3.41	1.53	0.62	9.59	3.70	4.70	18.00
Plant - Rigid	6R-30	MFWD 150	38,900	150	8	0.125	3.39	3.33	1.83	0.67	9.23	4.42	5.03	18.69
Plant - Rigid	6R-38	MFWD 150	37,500	150	8	0.099	2.67	2.63	1.39	0.53	7.24	3.36	3.97	14.58
Plant - Rigid	8R-30	MFWD 170	51,300	150	8	0.094	2.54	2.83	1.81	0.59	7.79	4.37	4.58	16.74
Plant - Rigid	8R-38	MFWD 170	48,400	150	8	0.074	2.01	2.24	1.35	0.46	6.07	3.26	3.62	12.96
Plant - Rigid	11R-15	MFWD 170	53,000	150	8	0.137	3.71	4.14	2.73	0.86	11.45	6.60	6.68	24.74
Plant - Rigid	11R-20	MFWD 170	56,800	150	8	0.103	2.78	3.10	2.19	0.64	8.72	5.29	5.00	19.02
Plant - Rigid	12R-20	MFWD 190	60,700	150	8	0.094	2.54	3.17	2.14	0.72	8.58	5.18	5.60	19.37
Plant - Rigid	12R-30	MFWD 190	77,800	150	8	0.062	1.69	2.11	1.83	0.48	6.12	4.42	3.73	14.29
Plant - Rigid	15R-15	2WD 150	71,200	150	8	0.094	2.54	2.50	2.51	0.40	7.97	6.07	3.03	17.08
Plant - TwinRow	12R-30/40	MFWD 225	150,000	150	8	0.049	1.33	1.97	2.79	0.47	6.58	6.73	3.70	17.03
Plant - TwinRow	8R-30/40	MFWD 225	121,000	150	8	0.074	2.01	2.96	3.38	0.71	9.08	8.16	5.56	22.81
Roller/Cultipacker	12'	2WD 130	7,470	300	12	0.124	2.23	2.86	0.21	0.52	5.84	0.38	3.94	10.16
Roller/Cultipacker	20'	MFWD 150	13,500	300	12	0.074	1.33	1.98	0.23	0.39	3.95	0.41	2.98	7.36
Roller/Cultipacker	30'	MFWD 170	21,100	300	12	0.049	0.89	1.49	0.24	0.31	2.95	0.43	2.41	5.80
Roller/Cultipacker	38'	MFWD 225	27,500	300	12	0.039	0.70	1.56	0.25	0.37	2.90	0.44	2.93	6.28
Roller/Stubble	20'	2WD 50	15,900	300	12	0.074	1.33	0.66	0.28	0.06	2.34	0.48	0.49	3.32
Roller/Stubble	32'	MFWD 225	23,700	300	12	0.046	0.83	1.85	0.26	0.45	3.40	0.45	3.48	7.34

(continued)

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

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

Notes:

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

Total Direct: Does not include interest on operating capital.

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

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Avicta 500 Soybean	oz	2.14
Agri-Dex	pt	3.00	Bravo Weather Stick	pt	5.62
AMS SuperMax	pt	3.81	Captan 4L	pt	4.50
Class Act NG	pt	5.00	Convoy	oz	1.44
Crop Oil Conc. (Pet.)	pt	2.86	Cotton Seed Trt.	acre	20.00
Crop Oil Conc. (Veg.)	pt	2.90	CruiserMaxx Vibrance	oz	7.63
Dyne-A-Pak	pt	6.88	Elatus	oz	3.81
Fire-Zone	pt	3.94	Flint Extra	oz	10.11
Herbimax	pt	2.75	Headline EC	oz	5.98
Induce	pt	5.00	Miravis Ace	oz	1.78
MSO	pt	1.34	Miravis Top	oz	1.52
Penetrator Plus	pt	2.32	Priaxor Xemium	oz	4.06
Surfactant	pt	3.30	Propimax EC	pt	12.50
CLEANING			Prosaro	oz	1.89
Cleaning Peanuts	ton	18.00	Provost Optimum	oz	2.17
CROP CONSULTANT			Provost Silver	oz	1.52
Corn Consultant	acre	6.00	Quadris	oz	6.25
Cotton Consultant	acre	8.00	Quadris Top	oz	3.00
Peanut Consultant	acre	9.25	Quadris Top SBX	oz	3.13
Rice Consultant	acre	8.00	Quilt	pt	4.00
Sorghum Consultant	acre	6.00	Quilt XCEL	pt	21.75
Soybeans Consultant	acre	6.50	Stratego	pt	22.50
Wheat Consultant	acre	5.50	Stratego YLD	oz	2.65
CUSTOM FERTILIZE			Tilt 3.6 EC	oz	1.02
App Fert by Air	cwt	8.00	Tilt/ Bravo SE	oz	0.81
App Fert by Air (Mi)	appl	8.00	Trivapro	oz	1.48
Custom Apply Fert	acre	7.50	GINNING		
CUSTOM LIME			Gin & Haul	lb	0.11
Lime (Spread)	ton	65.00	GROWTH REGULATORS		
CUSTOM PLANT			Mepex	oz	0.09
Custom Plant	acre	7.50	Mepichlor 4.2%	oz	0.17
Custom Plant Air	cwt	8.43	Mepiquat	oz	0.07
CUSTOM SPRAY			Mepstar 6	oz	0.09
App by Air (3 gal)	appl	6.87	Palisade	oz	1.47
App by Air (5 gal)	appl	8.11	Pentia	oz	0.41
App by Air (10 gal)	appl	10.57	Pix WSG	oz	1.36
Custom Spray Ground	acre	7.00	Stance	oz	1.40
DRYING			Veto	oz	0.07
Dry Corn	bu	0.19	HARVEST AIDS		
Dry Grain Sorghum	cwt	0.25	Adios	oz	0.99
Dry Peanuts	ton	24.00	Boll Buster	oz	0.34
Dry Rice	bu	0.40	Def/Folex	pt	11.25
ERADICATION FEE			Defol 5	gal	8.61
Eradication	acre	1.00	Display	oz	10.59
FERTILIZERS			Ethephon 6E	pt	3.38
Agrotain Ultra	pt	12.50	Finish 6	pt	10.93
Amm Sulfate (21% N)	cwt	26.00	Folex 6EC	pt	11.25
Boron Plus	pt	5.10	Freefall SC	oz	0.89
DAP	cwt	47.21	Ginstar EC	pt	29.72
Fert 10-34-0	cwt	40.00	Gramoxone SL	oz	0.33
Fert 10-34-0	gal	4.66	Sharpen	oz	7.91
Fert 11-37-0	cwt	41.25	Sodium Chlorate 5L	gal	8.61
Fert 41-0-0-4	cwt	38.00	SuperBoll	oz	0.18
Lime	ton	55.00	Thidiazuron 4lb	oz	1.14
NBPT	pt	18.00	Tribufos 6lb	pt	11.25
Phosphorus (46% P2O5)	cwt	39.25	Vacate	oz	1.39
Potash (60% K2O)	cwt	36.20	HAULING		
Sulfur Plus	pt	2.62	Haul Corn	bu	0.23
UAN (32% N)	cwt	36.15	Haul Peanuts	ton	14.50
UAN (32%)	gal	4.00	Haul Rice	bu	0.35
UAN + Sulfur (28%)	cwt	31.10	Haul Sorghum	bu	0.25
UAN + Sulfur (28%)	gal	3.46	Haul Soybeans	bu	0.27
Urea, Solid (46% N)	cwt	31.69	Haul Wheat	bu	0.26
Zinc Plus	pt	3.50	HERBICIDES		
FUNGICIDES			2,4-D Amine 4	pt	2.72
Abound	oz	1.87	2,4-D Ester	pt	4.87
Alfa Guard	lb	1.62	AAtrex 4L	pt	3.00
Allegiance Flowabl	oz	6.33	Accent Q	oz	23.39
Ameristar Top	oz	2.52	Acuron	oz	0.56
Approach Prima	pt	34.50	Aim	oz	8.13
Apron Maxx RTA	oz	1.02			(continued)
Artisan	oz	0.70			
Avaris	oz	1.41			

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

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

(continued)

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

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

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

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

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

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

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

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

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

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

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

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

^e Price used in MSU Extension Service Planning Budgets.

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

Appendix Table 8. Estimated costs for field operations, per acre
 Full-season soybeans irrigated with roll-out pipe
 160-acre system, 9 ac-in., Delta Area, Mississippi, 2024

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Land Plane	50'x16'		1.28	0.39	0.68			0.19	2.54	2.59	5.13
Set Up Engine											
IRRIGATE LABOR	hour				0.23			0.01	0.24		0.24
Ditcher (1m/160a)			0.28	0.09	0.17			0.01	0.55	0.51	1.06
Roll-Out Pipe	ft	7.92						0.22	8.14		8.14
Lay Roll-out Pipe											
Pipe Spool 160ac	1/4m roll		0.38	0.13	0.45			0.03	0.99	1.26	2.25
IRRIGATE LABOR	hour				1.81			0.05	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		0.56	0.19	0.68			0.01	1.44	1.89	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		8.41	1.40				0.27	10.08		10.08
2nd June Irrigation	ac-in		8.41	1.40				0.27	10.08		10.08
July Irrigation	ac-in		8.41	1.40				0.20	10.01		10.01
TOTALS		7.92	27.73	7.96	4.71	0.00		1.36	49.68	80.72	130.40

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

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		0.48	0.13	0.29		0.03	0.93	0.96	1.89
Survey & Mark Levees	acre	2.25					0.08	2.33		2.33
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.04	1.23	1.28	2.51
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.04	1.15	0.99	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"		0.50	0.13	0.30		0.03	0.96	1.01	1.97
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.03	1.22	1.28	2.50
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.03	1.14	0.99	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"		0.50	0.13	0.30		0.03	0.96	1.01	1.97
Build Inside Levees										
Levee Pull (1m/80a)	8 blade		0.64	0.17	0.38		0.02	1.21	1.28	2.49
Butt Levees										
Blade-Box	6'-7'		0.60	0.15	0.36		0.02	1.13	0.99	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"		0.50	0.13	0.30		0.02	0.95	1.01	1.96
Tear Down Levees										
Levee Splitter (1/80)	32"		0.38	0.10	0.22		0.01	0.71	0.76	1.47
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		12.61	2.80			0.53	15.94		15.94
July Irrigation	ac-in		12.61	2.80			0.42	15.83		15.83
August Irrigation	ac-in		12.61	2.80			0.32	15.73		15.73
TOTALS		2.25	43.91	15.89	6.45	0.00	1.92	70.42	70.30	140.72

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

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----						FIXED COST	TOTAL COST
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER		
-----dollars-----									
Set Up Engine									
IRRIGATE LABOR	hour				0.07			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
Well & Pump, 1/2 CP	each			1.13			0.04	1.17	4.61
Engine, 1/2 CP, 174	each								6.38
June Irr. 3app@.75"	ac-in		16.93	0.68			0.61	18.22	18.22
July Irr. 4app@.75"	ac-in		22.57	0.91			0.65	24.13	24.13
Aug Irr. 3app@.75"	ac-in		16.93	0.68			0.36	17.97	17.97
TOTALS		0.00	56.43	12.00	0.47	0.00	1.97	70.87	56.45

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

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