

**FORAGE
2027
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2026-08**

April 2026

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staff, lending agencies, and others in agriculture. Estimated costs for land, management, and general farm overhead are not included in this report.

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 farm supply dealers, equipment dealers, custom operators, and chemical companies who provided prices for crop production inputs.

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

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2027 Planning Budgets

Budgets for Agricultural Enterprises

This publication provides economic and technical information in the form of enterprise budgets for forage crops 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 for each enterprise (14). The purpose of this section is to present the methods and procedures used to calculate costs 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 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 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 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 individual and collective judgment of the committee members. Quantities of materials listed in each budget are based on generally accepted recommendations.

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by the 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 2025. (Appendix Tables 1 and 2).

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 costs 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 the 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 the 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 short-term capital (Appendix Tables 4 and 5).

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

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 that 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:

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

$$CRCPA = CRCPH \times PR$$

where:

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

Enterprise Budgets

Table 1A. Estimated resource use and costs for field operations, per acre
 Conventional Alfalfa hay establishment, prepared
 seedbed, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Apr							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	May							2.0000	63.67	127.34	127.34
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	2.00	Aug	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Aug	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Pursuit	oz											3.0000	3.53	10.59	10.59
Clethodim	oz											8.0000	0.23	1.84	1.84
Surfactant	pt											0.3000	3.30	0.99	0.99
Disk Harrow	14'	2WD 75	0.140	1.00	Sep	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Alfalfa Seed	lb											20.0000	4.41	88.20	88.20
Custom Spread(Truck) appl				1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.3000	25.56	33.23	33.23
Boron Plus	gal											2.0000	30.16	60.32	60.32
Molybdenum	lb											1.0000	14.37	14.37	14.37
TOTALS						13.50	12.72	8.80	21.83	1.07	18.88			381.43	457.16
INTEREST ON OPERATING CAPITAL															14.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															471.42

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Table 1B. Estimated costs per acre
 Conventional Alfalfa hay establishment, prepared
 seedbed, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.3000	33.23	_____
Boron Plus	gal	30.16	2.0000	60.32	_____
Molybdenum	lb	14.37	1.0000	14.37	_____
HERBICIDE					
Pursuit	oz	3.53	3.0000	10.59	_____
Clethodim	oz	0.23	8.0000	1.84	_____
SEED/PLANTS					
Alfalfa Seed	lb	4.41	20.0000	88.20	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	1.0000	9.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
CUSTOM LIME					
Lime (Spread)	ton	63.67	2.0000	127.34	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.8911	17.18	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	3.4402	11.80	_____
REPAIR & MAINTENANCE					
Implements	acre	8.80	1.0000	8.80	_____
Tractors	acre	1.70	1.0000	1.70	_____
INTEREST ON OP. CAP.	acre	14.26	1.0000	14.26	_____
TOTAL DIRECT EXPENSES				436.87	_____
FIXED EXPENSES					
Implements	acre	21.83	1.0000	21.83	_____
Tractors	acre	12.72	1.0000	12.72	_____
TOTAL FIXED EXPENSES				34.55	_____
TOTAL SPECIFIED EXPENSES				471.42	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.

Table 2A. Estimated resource use and costs for field operations, per acre
 Conventional Alfalfa hay maintenance,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Nov							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Nov							0.5000	63.67	31.84	31.84
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Nov	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Metribuzin 75	lb											1.0000	9.99	9.99	9.99
Custom Spread(Truck)	appl			1.00	Mar							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											2.0000	32.25	64.50	64.50
Potash (60% K2O)	cwt											1.5000	25.56	38.34	38.34
Boron Plus	gal											0.5000	30.16	15.08	15.08
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Pursuit	oz											3.0000	3.53	10.59	10.59
Surfactant	pt											0.3000	3.30	0.99	0.99
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Mustang Max	oz											4.0000	1.30	5.20	5.20
Hay Cut-Cond	9'	2WD 75	0.229	1.00	May	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Tedder	17'	2WD 75	0.101	1.00	May	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	May	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Square	2WD 75	0.229	1.00	May	3.47	3.27	4.46	7.29	0.22	4.42				22.91
Twine	bun											0.0800	42.50	3.40	3.40
Hay Trailer	20'	2WD 75	0.090	1.00	May	1.36	1.28	0.12	0.25	0.09	1.74				4.75
Hay Haul (Conv)	ton											1.5000	25.00	37.50	37.50
Spray (Broadcast)	27'	2WD 75	0.062	1.00	May	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Gramoxone SL 2.0	oz											12.0000	0.32	3.84	3.84
Surfactant	pt											0.3000	3.30	0.99	0.99
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Jun	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Mustang Max	oz											4.0000	1.30	5.20	5.20
Hay Cut-Cond	9'	2WD 75	0.229	1.00	Jun	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Tedder	17'	2WD 75	0.101	1.00	Jun	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Jun	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Square	2WD 75	0.229	1.00	Jun	3.47	3.27	4.46	7.29	0.22	4.42				22.91
Twine	bun											0.0800	42.50	3.40	3.40
Hay Trailer	20'	2WD 75	0.090	1.00	Jun	1.36	1.28	0.12	0.25	0.09	1.74				4.75
Hay Haul (Conv)	ton											1.5000	25.00	37.50	37.50
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Jun	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Gramoxone SL 2.0	oz											12.0000	0.32	3.84	3.84
Surfactant	pt											0.3000	3.30	0.99	0.99
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Jun	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Poast	pt											1.0000	20.50	20.50	20.50
Crop Oil (veg)	pt											2.0000	2.90	5.80	5.80
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Potash (60% K2O)	cwt											1.5000	25.56	38.34	38.34
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Aug	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Mustang Max	oz											4.0000	1.30	5.20	5.20
Hay Cut-Cond	9'	2WD 75	0.229	1.00	Aug	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Tedder	17'	2WD 75	0.101	1.00	Aug	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Aug	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Square	2WD 75	0.229	1.00	Aug	3.47	3.27	4.46	7.29	0.22	4.42				22.91
Twine	bun											0.0500	42.50	2.13	2.13
Hay Trailer	20'	2WD 75	0.090	1.00	Aug	1.36	1.28	0.12	0.25	0.09	1.74				4.75
Hay Haul (Conv)	ton											1.0000	25.00	25.00	25.00
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Aug	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Gramoxone SL 2.0	oz											12.0000	0.32	3.84	3.84
Surfactant	pt											0.3000	3.30	0.99	0.99
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Mustang Max	oz											4.0000	1.30	5.20	5.20
Hay Cut-Cond	9'	2WD 75	0.229	1.00	Sep	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Tedder	17'	2WD 75	0.101	1.00	Sep	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Sep	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Square	2WD 75	0.229	1.00	Sep	3.47	3.27	4.46	7.29	0.22	4.42				22.91
Twine	bun											0.0500	42.50	2.13	2.13
Hay Trailer	20'	2WD 75	0.090	1.00	Sep	1.36	1.28	0.12	0.25	0.09	1.74				4.75
Hay Haul (Conv)	ton											1.0000	25.00	25.00	25.00
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Gramoxone SL 2.0	oz											12.0000	0.32	3.84	3.84
Surfactant	pt											0.3000	3.30	0.99	0.99
Prorated Est Cost	acre				Sep							1.0000			49.82
TOTALS						62.15	59.34	46.82	69.73	4.44	82.11			433.45	803.42
INTEREST ON OPERATING CAPITAL															8.80
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															812.22

Note: Cost of production estimates are based on 2025 input prices.
 Fertilization and lime decisions should be based on soil test recommendations.

Table 2B. Estimated costs per acre
 Conventional Alfalfa hay maintenance,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	2.0000	64.50	_____
Potash (60% K2O)	cwt	25.56	3.0000	76.68	_____
Boron Plus	gal	30.16	0.5000	15.08	_____
HERBICIDE					
Metribuzin 75	lb	9.99	1.0000	9.99	_____
Pursuit	oz	3.53	3.0000	10.59	_____
Gramoxone SL 2.0	oz	0.32	48.0000	15.36	_____
Poast	pt	20.50	1.0000	20.50	_____
INSECTICIDE					
Mustang Max	oz	1.30	16.0000	20.80	_____
HAUL					
Hay Haul (Conv)	ton	25.00	5.0000	125.00	_____
OTHER					
Twine	bun	42.50	0.2600	11.05	_____
ADJUVANTS					
Surfactant	pt	3.30	1.5000	4.95	_____
Crop Oil (veg)	pt	2.90	2.0000	5.80	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
CUSTOM LIME					
Lime (Spread)	ton	63.67	0.5000	31.84	_____
OPERATOR LABOR					
Tractors	hour	19.28	4.0960	79.03	_____
HAND LABOR					
Implements	hour	9.06	0.3447	3.08	_____
DIESEL FUEL					
Tractors	gal	3.43	15.8123	54.21	_____
REPAIR & MAINTENANCE					
Implements	acre	46.82	1.0000	46.82	_____
Tractors	acre	7.94	1.0000	7.94	_____
INTEREST ON OP. CAP.	acre	8.80	1.0000	8.80	_____
TOTAL DIRECT EXPENSES				633.33	_____
FIXED EXPENSES					
Implements	acre	69.73	1.0000	69.73	_____
Tractors	acre	59.34	1.0000	59.34	_____
Prorated Est Cost	acre	49.82	1.0000	49.82	_____
TOTAL FIXED EXPENSES				178.89	_____
TOTAL SPECIFIED EXPENSES				812.22	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.

Table 3A. Estimated resource use and costs for field operations, per acre
 Bahiagrass establishment, broadcast,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90	3.90
Surfactant	pt											1.0000	3.30	3.30	3.30
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Section Harrow	13'	2WD 75	0.119	1.00	Apr	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Cyclone Spin	750Lb	2WD 75	0.200	1.00	Apr	3.03	2.85	0.28	1.23	0.30	4.77				12.16
Bahiagrass Seed	lb											20.0000	5.03	100.60	100.60
Cultipacker	12'	2WD 75	0.124	1.00	Apr	1.89	1.78	0.22	0.38	0.12	2.40				6.67
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						15.43	14.69	6.30	13.27	1.14	20.79			270.00	340.48
INTEREST ON OPERATING CAPITAL															13.55
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															354.03

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 3B. Estimated costs per acre
 Bahiagrass establishment, broadcast,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Bahiagrass Seed	lb	5.03	20.0000	100.60	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	1.0163	19.60	_____
HAND LABOR					
Implements	hour	9.06	0.1313	1.19	_____
DIESEL FUEL					
Tractors	gal	3.43	3.9235	13.46	_____
REPAIR & MAINTENANCE					
Implements	acre	6.30	1.0000	6.30	_____
Tractors	acre	1.97	1.0000	1.97	_____
INTEREST ON OP. CAP.	acre	13.55	1.0000	13.55	_____
TOTAL DIRECT EXPENSES				326.07	_____
FIXED EXPENSES					
Implements	acre	13.27	1.0000	13.27	_____
Tractors	acre	14.69	1.0000	14.69	_____
TOTAL FIXED EXPENSES				27.96	_____
TOTAL SPECIFIED EXPENSES				354.03	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 4A. Estimated resource use and costs for field operations, per acre
Bahigrass establishment, drilled on prepared seedbed,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Soil Testing	acre			0.33	Feb								0.3300	10.00	3.30	3.30
Lime (Spread)	ton			0.33	Mar									63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52					9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49					3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90		3.90
Surfactant	pt											1.0000	3.30	3.30		3.30
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Section Harrow	13'	2WD 75	0.119	1.00	Apr	1.81	1.71	0.13	0.25	0.11	2.30					6.20
Grain Drill	12'	2WD 75	0.157	1.00	Apr	2.38	2.24	3.26	7.88	0.31	4.45					20.21
Bahigrass Seed	lb											20.0000	5.03	100.60		100.60
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00		9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38		48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56		25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89					7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
TOTALS						12.87	12.11	9.06	19.54	1.03	18.07			270.00		341.65
INTEREST ON OPERATING CAPITAL																15.52
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																357.17

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 4B. Estimated costs per acre
 Bahiagrass establishment, drilled on prepared seedbed,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Bahiagrass Seed	lb	5.03	20.0000	100.60	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.8490	16.37	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	3.2777	11.24	_____
REPAIR & MAINTENANCE					
Implements	acre	9.06	1.0000	9.06	_____
Tractors	acre	1.63	1.0000	1.63	_____
INTEREST ON OP. CAP.	acre	15.52	1.0000	15.52	_____
TOTAL DIRECT EXPENSES				325.52	_____
FIXED EXPENSES					
Implements	acre	19.54	1.0000	19.54	_____
Tractors	acre	12.11	1.0000	12.11	_____
TOTAL FIXED EXPENSES				31.65	_____
TOTAL SPECIFIED EXPENSES				357.17	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 5A. Estimated resource use and costs for field operations, per acre
Bahigrass establishment, no-till,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			0.33	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90	3.90
Surfactant	pt											1.0000	3.30	3.30	3.30
NT Grain Drill	12'	2WD 75	0.196	1.00	Apr	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Bahigrass Seed	lb											20.0000	5.03	100.60	100.60
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						5.41	5.09	6.55	13.08	0.58	8.95			270.00	309.08
INTEREST ON OPERATING CAPITAL															14.45
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															323.53

Note: Cost of production estimates are based on 2025 input prices.
Bahigrass planted to increase the production of an existing stand.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 5B. Estimated costs per acre
Bahigrass establishment, no-till,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Bahigrass Seed	lb	5.03	20.0000	100.60	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3573	6.89	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3793	4.73	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	0.68	1.0000	0.68	_____
INTEREST ON OP. CAP.	acre	14.45	1.0000	14.45	_____
TOTAL DIRECT EXPENSES				305.36	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	5.09	1.0000	5.09	_____
TOTAL FIXED EXPENSES				18.17	_____
TOTAL SPECIFIED EXPENSES				323.53	_____

Note: Cost of production estimates are based on 2025 input prices.
Bahigrass planted to increase the production of an existing stand.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 6A. Estimated resource use and costs for field operations, per acre
 Bahiagrass establishment, no-till pasture renovation,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			0.33	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Gramoxone SL 2.0	oz											16.0000	0.32	5.12	5.12
Surfactant	pt											0.3000	3.30	0.99	0.99
NT Grain Drill	12'	2WD 75	0.196	1.00	Apr	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Bahiagrass Seed	lb											20.0000	5.03	100.60	100.60
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						5.41	5.09	6.55	13.08	0.58	8.95			268.91	307.99
INTEREST ON OPERATING CAPITAL															14.39
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															322.38

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 6B. Estimated costs per acre
 Bahiagrass establishment, no-till pasture renovation,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Gramoxone SL 2.0	oz	0.32	16.0000	5.12	_____
SEED/PLANTS					
Bahiagrass Seed	lb	5.03	20.0000	100.60	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
CUSTOM FERT					
Custom Spread (Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3573	6.89	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3793	4.73	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	0.68	1.0000	0.68	_____
INTEREST ON OP. CAP.	acre	14.39	1.0000	14.39	_____
TOTAL DIRECT EXPENSES				304.21	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	5.09	1.0000	5.09	_____
TOTAL FIXED EXPENSES				18.17	_____
TOTAL SPECIFIED EXPENSES				322.38	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle

Table 7A. Estimated resource use and costs for field operations, per acre
Seeded bermudagrass establishment, broadcast seed,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Soil Testing	acre			0.33	Feb								0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar									63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52					9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49					3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90		3.90
Surfactant	pt											1.0000	3.30	3.30		3.30
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Section Harrow	13'	2WD 75	0.119	1.00	Apr	1.81	1.71	0.13	0.25	0.11	2.30					6.20
Cyclone Spin	750Lb	2WD 75	0.200	1.00	Apr	3.03	2.85	0.28	1.23	0.30	4.77					12.16
Common Bermuda Seed	lb											10.0000	7.65	76.50		76.50
Cultipacker	12'	2WD 75	0.124	1.00	Apr	1.89	1.78	0.22	0.38	0.12	2.40					6.67
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00		9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38		48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56		25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89					7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
TOTALS						15.41	14.50	6.30	13.27	1.14	20.79				245.90	316.17
INTEREST ON OPERATING CAPITAL																12.39
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																328.56

Note: Cost of production estimates are based on 2025 input prices.

If using coated bermuda seed, increase seeding rate to 15 pounds per acre.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 7B. Estimated costs per acre
Seeded bermudagrass establishment, broadcast seed,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Common Bermuda Seed	lb	7.65	10.0000	76.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	1.0163	19.60	_____
HAND LABOR					
Implements	hour	9.06	0.1313	1.19	_____
DIESEL FUEL					
Tractors	gal	3.43	3.9235	13.46	_____
REPAIR & MAINTENANCE					
Implements	acre	6.30	1.0000	6.30	_____
Tractors	acre	1.95	1.0000	1.95	_____
INTEREST ON OP. CAP.	acre	12.39	1.0000	12.39	_____
TOTAL DIRECT EXPENSES				300.79	_____
FIXED EXPENSES					
Implements	acre	13.27	1.0000	13.27	_____
Tractors	acre	14.50	1.0000	14.50	_____
TOTAL FIXED EXPENSES				27.77	_____
TOTAL SPECIFIED EXPENSES				328.56	_____

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 8A. Estimated resource use and costs for field operations, per acre
Seeded bermudagrass establishment, no-till,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			0.33	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90	3.90
Surfactant	pt											1.0000	3.30	3.30	3.30
NT Grain Drill	12'	2WD 75	0.196	1.00	Apr	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Common Bermuda Seed	lb											10.0000	7.65	76.50	76.50
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						5.41	5.09	6.55	13.08	0.58	8.95			245.90	284.98
INTEREST ON OPERATING CAPITAL															13.13
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															298.11

Note: Cost of production estimates are based on 2025 input prices.

If using coated bermuda seed, increase seeding rate to 15 pounds per acre.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 8B. Estimated costs per acre
 Seeded bermudagrass establishment, no-till,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Common Bermuda Seed	lb	7.65	10.0000	76.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3573	6.89	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3793	4.73	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	0.68	1.0000	0.68	_____
INTEREST ON OP. CAP.	acre	13.13	1.0000	13.13	_____
TOTAL DIRECT EXPENSES				279.94	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	5.09	1.0000	5.09	_____
TOTAL FIXED EXPENSES				18.17	_____
TOTAL SPECIFIED EXPENSES				298.11	_____

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 9A. Estimated resource use and costs for field operations, per acre
 Seeded bermudagrass establishment, no-till pasture renovation,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			0.33	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Gramoxone SL 2.0	oz											16.0000	0.32	5.12	5.12
Surfactant	pt											0.3000	3.30	0.99	0.99
NT Grain Drill	12'	2WD 75	0.196	1.00	Apr	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Common Bermuda Seed	lb											10.0000	7.65	76.50	76.50
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						5.41	5.09	6.55	13.08	0.58	8.95			244.81	283.89
INTEREST ON OPERATING CAPITAL															13.07
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															296.96

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 9B. Estimated costs per acre
 Seeded bermudagrass establishment, no-till pasture renovation,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Gramoxone SL 2.0	oz	0.32	16.0000	5.12	_____
SEED/PLANTS					
Common Bermuda Seed	lb	7.65	10.0000	76.50	_____
ADJUVANTS					
Surfactant	pt	3.30	0.3000	0.99	_____
CUSTOM FERT					
Custom Spread (Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3573	6.89	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3793	4.73	_____
REPAIR & MAINTENANCE					
Implements	acre	6.55	1.0000	6.55	_____
Tractors	acre	0.68	1.0000	0.68	_____
INTEREST ON OP. CAP.	acre	13.07	1.0000	13.07	_____
TOTAL DIRECT EXPENSES				278.79	_____
FIXED EXPENSES					
Implements	acre	13.08	1.0000	13.08	_____
Tractors	acre	5.09	1.0000	5.09	_____
TOTAL FIXED EXPENSES				18.17	_____
TOTAL SPECIFIED EXPENSES				296.96	_____

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle

Table 10A. Estimated resource use and costs for field operations, per acre
Seeded bermudagrass, drill in prepared seedbed,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Soil Testing	acre			0.33	Feb								0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar									63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52					9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49					3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90		3.90
Surfactant	pt											1.0000	3.30	3.30		3.30
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71					12.04
Section Harrow	13'	2WD 75	0.119	1.00	Apr	1.81	1.71	0.13	0.25	0.11	2.30					6.20
Grain Drill	12'	2WD 75	0.157	1.00	Apr	2.38	2.24	3.26	7.88	0.31	4.45					20.21
Common Bermuda Seed	lb											10.0000	7.65	76.50		76.50
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00		9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38		48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56		25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89					7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.0700	27.08	28.98		28.98
TOTALS						12.87	12.11	9.06	19.54	1.03	18.07				245.90	317.55
INTEREST ON OPERATING CAPITAL																12.27
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																329.82

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 10B. Estimated costs per acre
Seeded bermudagrass, drill in prepared seedbed,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Common Bermuda Seed	lb	7.65	10.0000	76.50	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.8490	16.37	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	3.2777	11.24	_____
REPAIR & MAINTENANCE					
Implements	acre	9.06	1.0000	9.06	_____
Tractors	acre	1.63	1.0000	1.63	_____
INTEREST ON OP. CAP.	acre	12.27	1.0000	12.27	_____
TOTAL DIRECT EXPENSES				298.17	_____
FIXED EXPENSES					
Implements	acre	19.54	1.0000	19.54	_____
Tractors	acre	12.11	1.0000	12.11	_____
TOTAL FIXED EXPENSES				31.65	_____
TOTAL SPECIFIED EXPENSES				329.82	_____

Note: Cost of production estimates are based on 2025 input prices.
If using coated bermuda seed, increase seeding rate to 15 pounds per acre.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle

Table 11A. Estimated resource use and costs for field operations, per acre
 Permanent summer pasture maintenance (i.e. bahiagrass,
 bermudagrass, dallisgrass, mixed grasses), Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
GrazonNext	pt											1.5000	7.58	11.37	11.37
Surfactant	pt											1.0000	3.30	3.30	3.30
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Aug	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Lime (Spread)	ton			1.00	Aug								63.67		
Prorated Est Cost	acre				Aug							1.0000			37.41
TOTALS						2.44	2.29	1.86	1.75	0.19	3.38			151.74	200.87
INTEREST ON OPERATING CAPITAL															7.26
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															208.13

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 11B Estimated costs per acre
 Permanent summer pasture maintenance (i.e. bahiagrass,
 bermudagrass, dallisgrass, mixed grasses), Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	2.1400	57.95	_____
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
GrazonNext	pt	7.58	1.5000	11.37	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.1608	3.10	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	0.6210	2.13	_____
REPAIR & MAINTENANCE					
Implements	acre	1.86	1.0000	1.86	_____
Tractors	acre	0.31	1.0000	0.31	_____
INTEREST ON OP. CAP.	acre	7.26	1.0000	7.26	_____
TOTAL DIRECT EXPENSES				166.68	_____
FIXED EXPENSES					
Implements	acre	1.75	1.0000	1.75	_____
Tractors	acre	2.29	1.0000	2.29	_____
Prorated Est Cost	acre	37.41	1.0000	37.41	_____
TOTAL FIXED EXPENSES				41.45	_____
TOTAL SPECIFIED EXPENSES				208.13	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle

Table 12A. Estimated resource use and costs for field operations, per acre
 Permanent summer grass-white clover pasture maintenance,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.2500	27.08	6.77	6.77
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Lime (Spread)	ton			1.00	Jun								63.67		
Rotary Mower	12'	2WD 75	0.098	1.00	Sep	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Tailgate Seeder		2WD 75	0.200	1.00	Sep	3.03	2.85	0.57	0.74	0.20	3.86				11.05
White Clover Seed	lb											3.0000	5.35	16.05	16.05
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Prorated Est Cost	acre				Oct							1.0000			37.74
TOTALS						6.01	5.65	3.93	3.70	0.39	7.64			101.93	166.60
INTEREST ON OPERATING CAPITAL															3.10
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															169.70

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 12B. Estimated costs per acre
 Permanent summer grass-white clover pasture maintenance,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	0.2500	6.77	_____
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
SEED/PLANTS					
White Clover Seed	lb	5.35	3.0000	16.05	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3964	7.64	_____
DIESEL FUEL					
Tractors	gal	3.43	1.5303	5.25	_____
REPAIR & MAINTENANCE					
Implements	acre	3.93	1.0000	3.93	_____
Tractors	acre	0.76	1.0000	0.76	_____
INTEREST ON OP. CAP.	acre	3.10	1.0000	3.10	_____
TOTAL DIRECT EXPENSES				122.61	_____
FIXED EXPENSES					
Implements	acre	3.70	1.0000	3.70	_____
Tractors	acre	5.65	1.0000	5.65	_____
Prorated Est Cost	acre	37.74	1.0000	37.74	_____
TOTAL FIXED EXPENSES				47.09	_____
TOTAL SPECIFIED EXPENSES				169.70	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 13A Estimated resource use and costs for field operations, per acre
 Permanent summer grass-red clover pasture maintenance
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.2500	27.08	6.77	6.77
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Lime (Spread)	ton			1.00	Jun								63.67		
Rotary Mower	12'	2WD 75	0.098	1.00	Sep	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Tailgate Seeder		2WD 75	0.200	1.00	Sep	3.03	2.85	0.57	0.74	0.20	3.86				11.05
Red Clover Seed	lb											3.0000	3.40	10.20	10.20
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Prorated Est Cost	acre				Oct							1.0000			37.74
TOTALS						6.01	5.65	3.93	3.70	0.39	7.64			96.08	160.75
INTEREST ON OPERATING CAPITAL															2.90
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															163.65

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 13B Estimated costs per acre
 Permanent summer grass-red clover pasture maintenance
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	0.2500	6.77	_____
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
SEED/PLANTS					
Red Clover Seed	lb	3.40	3.0000	10.20	_____
CUSTOM FERT					
Custom Spread (Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3964	7.64	_____
DIESEL FUEL					
Tractors	gal	3.43	1.5303	5.25	_____
REPAIR & MAINTENANCE					
Implements	acre	3.93	1.0000	3.93	_____
Tractors	acre	0.76	1.0000	0.76	_____
INTEREST ON OP. CAP.	acre	2.90	1.0000	2.90	_____
TOTAL DIRECT EXPENSES				116.56	_____
FIXED EXPENSES					
Implements	acre	3.70	1.0000	3.70	_____
Tractors	acre	5.65	1.0000	5.65	_____
Prorated Est Cost	acre	37.74	1.0000	37.74	_____
TOTAL FIXED EXPENSES				47.09	_____
TOTAL SPECIFIED EXPENSES				163.65	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 14A. Estimated resource use and costs for field operations, per acre
Mixed grass hay maintenance,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
GrazonNext	pt											1.5000	7.58	11.37	11.37
Surfactant	pt											1.0000	3.30	3.30	3.30
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.5000	25.56	38.34	38.34
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jun	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Rake	8.5'	2WD 75	0.202	2.00	Jun	6.12	5.77	1.69	2.76	0.40	7.80				24.14
Hay Baler	Lg Round	2WD 75	0.211	1.00	Jun	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0080	264.00	2.11	2.11
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jun	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jul	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Rake	8.5'	2WD 75	0.202	2.00	Jul	6.12	5.77	1.69	2.76	0.40	7.80				24.14
Hay Baler	Lg Round	2WD 75	0.211	1.00	Jul	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0080	264.00	2.11	2.11
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jul	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Hay Baler	Lg Round	2WD 75	0.211	1.00	Oct	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0040	264.00	1.06	1.06
Hay Disc Mower	8'	2WD 75	0.257	1.00	Oct	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Rake	8.5'	2WD 75	0.202	2.00	Oct	6.12	5.77	1.69	2.76	0.40	7.80				24.14
Hay Mover	1B Lift	2WD 75	0.300	1.00	Oct	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Soil Testing	acre			0.33	Oct							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Oct								63.67		
Prorated Est Cost	acre				Oct							1.0000			37.41
TOTALS						54.23	51.14	39.15	56.91	3.61	69.38			230.52	538.74
INTEREST ON OPERATING CAPITAL															13.21
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															551.95

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay.

Table 14B. Estimated costs per acre
Mixed grass hay maintenance,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	4.0500	109.67	_____
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.5000	38.34	_____
HERBICIDE					
GrazonNext	pt	7.58	1.5000	11.37	_____
OTHER					
Net Wrap (9840ft)	roll	264.00	0.0200	5.28	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	3.5839	69.10	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	13.8356	47.42	_____
REPAIR & MAINTENANCE					
Implements	acre	39.15	1.0000	39.15	_____
Tractors	acre	6.81	1.0000	6.81	_____
INTEREST ON OP. CAP.	acre	13.21	1.0000	13.21	_____
TOTAL DIRECT EXPENSES				406.49	_____
FIXED EXPENSES					
Implements	acre	56.91	1.0000	56.91	_____
Tractors	acre	51.14	1.0000	51.14	_____
Prorated Est Cost	acre	37.41	1.0000	37.41	_____
TOTAL FIXED EXPENSES				145.46	_____
TOTAL SPECIFIED EXPENSES				551.95	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay

Table 15A. Estimated resource use and costs for field operations, per acre
Hybrid bermudagrass establishment, 1 cutting of hay,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	2.00	Apr	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Custom Sprig	acre			1.00	May							1.0000	100.00	100.00	100.00
Cultipacker	12'	2WD 75	0.124	1.00	May	1.89	1.78	0.22	0.38	0.12	2.40				6.67
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Spray (Broadcast)	27'	2WD 75	0.062	1.00	May	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Diuron 4L	pt											3.0000	3.27	9.81	9.81
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Aug	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Aug	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	1.00	Aug	1.53	1.44	0.41	0.68	0.10	1.95				6.01
Hay Baler	Lg Round	2WD 75	0.211	1.00	Aug	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0075	264.00	1.98	1.98
TOTALS						19.23	18.13	16.49	27.99	1.30	24.77			243.59	350.20
INTEREST ON OPERATING CAPITAL															11.49
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															361.69

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after hay cutting.

Table 15B. Estimated costs per acre
 Hybrid bermudagrass establishment, 1 cutting of hay,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	1.3500	36.56	_____
HERBICIDE					
Diuron 4L	pt	3.27	3.0000	9.81	_____
OTHER					
Net Wrap (9840ft)	roll	264.00	0.0075	1.98	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
CUSTOM PLANT					
Custom Sprig	acre	100.00	1.0000	100.00	_____
OPERATOR LABOR					
Tractors	hour	19.28	1.2702	24.49	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	4.9035	16.82	_____
REPAIR & MAINTENANCE					
Implements	acre	16.49	1.0000	16.49	_____
Tractors	acre	2.41	1.0000	2.41	_____
INTEREST ON OP. CAP.	acre	11.49	1.0000	11.49	_____
TOTAL DIRECT EXPENSES				315.57	_____
FIXED EXPENSES					
Implements	acre	27.99	1.0000	27.99	_____
Tractors	acre	18.13	1.0000	18.13	_____
TOTAL FIXED EXPENSES				46.12	_____
TOTAL SPECIFIED EXPENSES				361.69	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after hay cutting

Table 16A. Estimated resource use and costs for field operations, per acre
 Hybrid bermudagrass hay maintenance,
 4 cuttings of hay, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
GrazonNext	pt											1.5000	7.58	11.37	11.37
Surfactant	pt											1.0000	3.30	3.30	3.30
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											2.0000	25.56	51.12	51.12
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jun	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Jun	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Jun	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Lg Round	2WD 75	0.211	1.00	Jun	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0120	264.00	3.17	3.17
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jun	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jul	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Jul	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Jul	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Lg Round	2WD 75	0.211	1.00	Jul	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0120	264.00	3.17	3.17
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jul	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Soil Testing	acre			1.00	Aug							1.0000	10.00	10.00	10.00
Lime (Spread)	ton			1.00	Aug								63.67		
Hay Disc Mower	8'	2WD 75	0.257	1.00	Aug	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Aug	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Aug	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Lg Round	2WD 75	0.211	1.00	Aug	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0075	264.00	1.98	1.98
Hay Mover	1B Lift	2WD 75	0.300	1.00	Aug	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Aug							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.3500	27.08	36.56	36.56
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Sep	3.90	3.68	2.55	3.33	0.25	4.97				18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Sep	1.53	1.44	0.63	1.03	0.10	1.95				6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Sep	3.07	2.89	0.83	1.36	0.20	3.90				12.05
Hay Baler	Lg Round	2WD 75	0.211	1.00	Sep	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0075	264.00	1.98	1.98
Hay Mover	1B Lift	2WD 75	0.300	1.00	Sep	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Prorated Est Cost	acre				Sep							1.0000			38.22
TOTALS						65.91	62.13	51.22	74.31	4.38	84.21			342.27	718.27
INTEREST ON OPERATING CAPITAL															16.39
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															734.66

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay.

Table 16B. Estimated costs per acre
 Hybrid bermudagrass hay maintenance,
 4 cuttings of hay, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	5.4000	146.23	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	3.0000	76.68	_____
HERBICIDE					
GrazonNext	pt	7.58	1.5000	11.37	_____
OTHER					
Net Wrap (9840ft)	roll	264.00	0.0390	10.30	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	4.0000	36.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	19.28	4.3532	83.93	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	16.8054	57.63	_____
REPAIR & MAINTENANCE					
Implements	acre	51.22	1.0000	51.22	_____
Tractors	acre	8.28	1.0000	8.28	_____
INTEREST ON OP. CAP.	acre	16.39	1.0000	16.39	_____
TOTAL DIRECT EXPENSES				560.00	_____
FIXED EXPENSES					
Implements	acre	74.31	1.0000	74.31	_____
Tractors	acre	62.13	1.0000	62.13	_____
Prorated Est Cost	acre	38.22	1.0000	38.22	_____
TOTAL FIXED EXPENSES				174.66	_____
TOTAL SPECIFIED EXPENSES				734.66	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay

Table 17A. Estimated resource use and costs for field operations, per acre
 Hybrid bermudagrass hay maintenance,
 4 cuttings of hay, square baler, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49					3.78
GrazonNext	pt											1.5000	7.58	11.37		11.37
Surfactant	pt											1.0000	3.30	3.30		3.30
Custom Spread (Truck)	appl			1.00	May							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.3500	27.08	36.56		36.56
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38		48.38
Potash (60% K2O)	cwt											2.0000	25.56	51.12		51.12
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jun	3.90	3.68	2.55	3.33	0.25	4.97					18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Jun	1.53	1.44	0.63	1.03	0.10	1.95					6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Jun	3.07	2.89	0.83	1.36	0.20	3.90					12.05
Hay Baler	Square	2WD 75	0.229	1.00	Jun	3.47	3.27	4.46	7.29	0.22	4.42					22.91
Twine	bun											0.0600	42.50	2.55		2.55
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jun	4.54	4.28	0.05	0.15	0.30	5.78					14.80
Custom Spread (Truck)	appl			1.00	Jun							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.3500	27.08	36.56		36.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Jul	3.90	3.68	2.55	3.33	0.25	4.97					18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Jul	1.53	1.44	0.63	1.03	0.10	1.95					6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Jul	3.07	2.89	0.83	1.36	0.20	3.90					12.05
Hay Baler	Square	2WD 75	0.229	1.00	Jul	3.47	3.27	4.46	7.29	0.22	4.42					22.91
Twine	bun											0.0600	42.50	2.55		2.55
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jul	4.54	4.28	0.05	0.15	0.30	5.78					14.80
Custom Spread (Truck)	appl			1.00	Jul							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.3500	27.08	36.56		36.56
Soil Testing	acre			1.00	Aug							1.0000	10.00	10.00		10.00
Lime (Spread)	ton			1.00	Aug								63.67			
Hay Disc Mower	8'	2WD 75	0.257	1.00	Aug	3.90	3.68	2.55	3.33	0.25	4.97					18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Aug	1.53	1.44	0.63	1.03	0.10	1.95					6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Aug	3.07	2.89	0.83	1.36	0.20	3.90					12.05
Hay Baler	Square	2WD 75	0.229	1.00	Aug	3.47	3.27	4.46	7.29	0.22	4.42					22.91
Twine	bun											0.0300	42.50	1.27		1.27
Hay Mover	1B Lift	2WD 75	0.300	1.00	Aug	4.54	4.28	0.05	0.15	0.30	5.78					14.80
Custom Spread (Truck)	appl			1.00	Aug							1.0000	9.00	9.00		9.00
Nitrogen	cwt											1.3500	27.08	36.56		36.56
Potash (60% K2O)	cwt											1.0000	25.56	25.56		25.56
Hay Disc Mower	8'	2WD 75	0.257	1.00	Sep	3.90	3.68	2.55	3.33	0.25	4.97					18.43
Hay Tedder	17'	2WD 75	0.101	1.00	Sep	1.53	1.44	0.63	1.03	0.10	1.95					6.58
Hay Rake-Double	17'	2WD 75	0.101	2.00	Sep	3.07	2.89	0.83	1.36	0.20	3.90					12.05
Hay Baler	Square	2WD 75	0.229	1.00	Sep	3.47	3.27	4.46	7.29	0.22	4.42					22.91
Twine	bun											0.0300	42.50	1.27		1.27
Hay Mover	1B Lift	2WD 75	0.300	1.00	Sep	4.54	4.28	0.05	0.15	0.30	5.78					14.80
Prorated Est Cost	acre				Sep							1.0000				38.22
TOTALS						66.99	63.13	34.26	52.91	4.45	85.57			339.61		680.69
INTEREST ON OPERATING CAPITAL																15.97
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																696.66

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay.

Table 17B. Estimated costs per acre
 Hybrid bermudagrass hay maintenance,
 4 cuttings of hay, square baler, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	5.4000	146.23	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	3.0000	76.68	_____
HERBICIDE					
GrazonNext	pt	7.58	1.5000	11.37	_____
OTHER					
Twine	bun	42.50	0.1800	7.65	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	4.0000	36.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	1.0000	10.00	_____
OPERATOR LABOR					
Tractors	hour	19.28	4.4238	85.29	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	17.0776	58.55	_____
REPAIR & MAINTENANCE					
Implements	acre	34.26	1.0000	34.26	_____
Tractors	acre	8.44	1.0000	8.44	_____
INTEREST ON OP. CAP.	acre	15.97	1.0000	15.97	_____
TOTAL DIRECT EXPENSES				542.40	_____
FIXED EXPENSES					
Implements	acre	52.91	1.0000	52.91	_____
Tractors	acre	63.13	1.0000	63.13	_____
Prorated Est Cost	acre	38.22	1.0000	38.22	_____
TOTAL FIXED EXPENSES				154.26	_____
TOTAL SPECIFIED EXPENSES				696.66	_____

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices. This budget assumes 50 units of nitrogen being applied after emergence and 50 units applied after each cutting of hay

Table 18A. Estimated resource use and costs for field operations, per acre
Tall fescue-white clover pasture establishment,
prepared seedbed, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Disk Harrow	14'	2WD 75	0.140	2.00	Sep	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Fescue Seed	lb											20.0000	2.70	54.00	54.00
White Clover Seed	lb											3.0000	5.35	16.05	16.05
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
TOTALS						10.42	9.83	7.19	17.79	0.84	14.68			190.53	250.44
INTEREST ON OPERATING CAPITAL															9.65
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															260.09

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 18B. Estimated costs per acre
Tall fescue-white clover pasture establishment,
prepared seedbed, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	0.6000	16.25	_____
SEED/PLANTS					
Fescue Seed	lb	2.70	20.0000	54.00	_____
White Clover Seed	lb	5.35	3.0000	16.05	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.6881	13.26	_____
HAND LABOR					
Implements	hour	9.06	0.1571	1.42	_____
DIESEL FUEL					
Tractors	gal	3.43	2.6566	9.11	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	1.31	1.0000	1.31	_____
INTEREST ON OP. CAP.	acre	9.65	1.0000	9.65	_____
TOTAL DIRECT EXPENSES				232.47	_____
FIXED EXPENSES					
Implements	acre	17.79	1.0000	17.79	_____
Tractors	acre	9.83	1.0000	9.83	_____
TOTAL FIXED EXPENSES				27.62	_____
TOTAL SPECIFIED EXPENSES				260.09	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 19A. Estimated resource use and costs for field operations, per acre
Tall fescue-red clover pasture establishment,
prepared seedbed, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Disk Harrow	14'	2WD 75	0.140	2.00	Sep	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Fescue Seed	lb											20.0000	2.70	54.00	54.00
Red Clover Seed	lb											3.0000	3.40	10.20	10.20
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.2500	27.08	6.77	6.77
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
TOTALS						10.42	9.83	7.19	17.79	0.84	14.68			183.33	243.24
INTEREST ON OPERATING CAPITAL															9.32
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															252.56

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 19B. Estimated costs per acre
Tall fescue-red clover pasture establishment,
prepared seedbed, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	0.5500	14.89	_____
SEED/PLANTS					
Fescue Seed	lb	2.70	20.0000	54.00	_____
Red Clover Seed	lb	3.40	3.0000	10.20	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.6881	13.26	_____
HAND LABOR					
Implements	hour	9.06	0.1571	1.42	_____
DIESEL FUEL					
Tractors	gal	3.43	2.6566	9.11	_____
REPAIR & MAINTENANCE					
Implements	acre	7.19	1.0000	7.19	_____
Tractors	acre	1.31	1.0000	1.31	_____
INTEREST ON OP. CAP.	acre	9.32	1.0000	9.32	_____
TOTAL DIRECT EXPENSES				224.94	_____
FIXED EXPENSES					
Implements	acre	17.79	1.0000	17.79	_____
Tractors	acre	9.83	1.0000	9.83	_____
TOTAL FIXED EXPENSES				27.62	_____
TOTAL SPECIFIED EXPENSES				252.56	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 20A. Estimated resource use and costs for field operations, per acre
 Tall fescue-white clover pasture establishment,
 novel/endophyte-free, no till, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
NT Grain Drill	12'	2WD 75	0.196	1.00	Sep	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Fescue Seed	lb											20.0000	2.70	54.00	54.00
White Clover Seed	lb											3.0000	5.35	16.05	16.05
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.2500	27.08	6.77	6.77
TOTALS						3.92	3.69	4.87	11.60	0.48	7.06			185.06	216.20
INTEREST ON OPERATING CAPITAL															8.75
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															224.95

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 20B. Estimated costs per acre
 Tall fescue-white clover pasture establishment,
 novel/endophyte-free, no till, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	0.5500	14.89	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.5000	4.88	_____
SEED/PLANTS					
Fescue Seed	lb	2.70	20.0000	54.00	_____
White Clover Seed	lb	5.35	3.0000	16.05	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.2591	5.00	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.0002	3.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.87	1.0000	4.87	_____
Tractors	acre	0.49	1.0000	0.49	_____
INTEREST ON OP. CAP.	acre	8.75	1.0000	8.75	_____
TOTAL DIRECT EXPENSES				209.66	_____
FIXED EXPENSES					
Implements	acre	11.60	1.0000	11.60	_____
Tractors	acre	3.69	1.0000	3.69	_____
TOTAL FIXED EXPENSES				15.29	_____
TOTAL SPECIFIED EXPENSES				224.95	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 21A. Estimated resource use and costs for field operations, per acre
 Tall fescue-red clover pasture establishment,
 novel/endophyte-free, no till, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
NT Grain Drill	12'	2WD 75	0.196	1.00	Sep	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Fescue Seed	lb											20.0000	2.70	54.00	54.00
Red Clover Seed	lb											3.0000	3.40	10.20	10.20
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.2500	27.08	6.77	6.77
TOTALS						3.92	3.69	4.87	11.60	0.48	7.06			179.21	210.35
INTEREST ON OPERATING CAPITAL															8.47
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															218.82

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 21B. Estimated costs per acre
 Tall fescue-red clover pasture establishment,
 novel/endophyte-free, no till, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	0.5500	14.89	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.5000	4.88	_____
SEED/PLANTS					
Fescue Seed	lb	2.70	20.0000	54.00	_____
Red Clover Seed	lb	3.40	3.0000	10.20	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.2591	5.00	_____
HAND LABOR					
Implements	hour	9.06	0.2277	2.06	_____
DIESEL FUEL					
Tractors	gal	3.43	1.0002	3.43	_____
REPAIR & MAINTENANCE					
Implements	acre	4.87	1.0000	4.87	_____
Tractors	acre	0.49	1.0000	0.49	_____
INTEREST ON OP. CAP.	acre	8.47	1.0000	8.47	_____
TOTAL DIRECT EXPENSES				203.53	_____
FIXED EXPENSES					
Implements	acre	11.60	1.0000	11.60	_____
Tractors	acre	3.69	1.0000	3.69	_____
TOTAL FIXED EXPENSES				15.29	_____
TOTAL SPECIFIED EXPENSES				218.82	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 22A. Estimated resource use and costs for field operations, per acre
Tall fescue-white clover pasture maintenance,
Novel/endophyte-free, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Rotary Mower	12'	2WD 75	0.098	1.00	Aug	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Lime (Spread)	ton			1.00	Aug								63.67		
Tailgate Seeder		2WD 75	0.200	1.00	Oct	3.03	2.85	0.57	0.74	0.20	3.86				11.05
White Clover Seed	lb											2.0000	5.35	10.70	10.70
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
2,4-D amine	pt											1.5000	2.69	4.04	4.04
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Prorated Est Cost	acre				Oct							1.0000			23.77
TOTALS						5.47	5.14	2.43	2.49	0.39	7.24			126.22	172.76
INTEREST ON OPERATING CAPITAL															4.83
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															177.59

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 22B. Estimated costs per acre
Tall fescue-white clover pasture maintenance,
Novel/endophyte-free, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	0.6000	16.25	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.5000	4.04	_____
SEED/PLANTS					
White Clover Seed	lb	5.35	2.0000	10.70	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3608	6.96	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3931	4.78	_____
REPAIR & MAINTENANCE					
Implements	acre	2.43	1.0000	2.43	_____
Tractors	acre	0.69	1.0000	0.69	_____
INTEREST ON OP. CAP.	acre	4.83	1.0000	4.83	_____
TOTAL DIRECT EXPENSES				146.19	_____
FIXED EXPENSES					
Implements	acre	2.49	1.0000	2.49	_____
Tractors	acre	5.14	1.0000	5.14	_____
Prorated Est Cost	acre	23.77	1.0000	23.77	_____
TOTAL FIXED EXPENSES				31.40	_____
TOTAL SPECIFIED EXPENSES				177.59	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 23A. Estimated resource use and costs for field operations, per acre
 Tall fescue-red clover pasture maintenance
 Novel/endophyte-free, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Rotary Mower	12'	2WD 75	0.098	1.00	Aug	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Lime (Spread)	ton			1.00	Aug								63.67		
Tailgate Seeder		2WD 75	0.200	1.00	Oct	3.03	2.85	0.57	0.74	0.20	3.86				11.05
Red Clover Seed	lb											2.0000	3.40	6.80	6.80
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
2,4-D amine	pt											1.5000	2.69	4.04	4.04
Custom Spread(Truck)	appl			1.00	Apr							1.2500	9.00	11.25	11.25
Nitrogen	cwt											0.3000	27.08	8.12	8.12
Prorated Est Cost	acre				Oct							1.0000			26.69
TOTALS						5.47	5.14	2.43	2.49	0.39	7.24			124.57	174.03
INTEREST ON OPERATING CAPITAL															4.67
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															178.70

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 23B. Estimated costs per acre
 Tall fescue-red clover pasture maintenance
 Novel/endophyte-free, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	0.6000	16.25	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.5000	4.04	_____
SEED/PLANTS					
Red Clover Seed	lb	3.40	2.0000	6.80	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.2500	20.25	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3608	6.96	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3931	4.78	_____
REPAIR & MAINTENANCE					
Implements	acre	2.43	1.0000	2.43	_____
Tractors	acre	0.69	1.0000	0.69	_____
INTEREST ON OP. CAP.	acre	4.67	1.0000	4.67	_____
TOTAL DIRECT EXPENSES				144.38	_____
FIXED EXPENSES					
Implements	acre	2.49	1.0000	2.49	_____
Tractors	acre	5.14	1.0000	5.14	_____
Prorated Est Cost	acre	26.69	1.0000	26.69	_____
TOTAL FIXED EXPENSES				34.32	_____
TOTAL SPECIFIED EXPENSES				178.70	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 24A. Estimated resource use and costs for field operations, per acre
 No-till renovation of the old K-31 tall fescue pasture with
 novel endophyte/endophyte-free tall fescue, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Mar							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
Surfactant	pt											0.4000	3.30	1.32	1.32
NT Grain Drill	12'	2WD 75	0.196	1.00	May	2.97	2.80	4.69	11.33	0.39	5.57				27.36
SS, PM, FS Seed	lb											25.0000	1.31	32.75	32.75
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
NT Grain Drill	12'	2WD 75	0.196	1.00	Sep	2.97	2.80	4.69	11.33	0.39	5.57				27.36
White Clover Seed	lb											3.0000	5.35	16.05	16.05
Fescue Seed	lb											20.0000	2.70	54.00	54.00
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
TOTALS						7.84	7.38	9.74	23.20	0.97	14.12			236.20	298.48
INTEREST ON OPERATING CAPITAL															5.49
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															303.97

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
 Research suggests tall fescue renovation to novel endophyte fescue will
 require 2 years glyphosate applications to completely eliminate existing stand.
 SS = Sorghum x Sudan Hybrid, PM = Pearl Millet.

Table 24B. Estimated costs per acre
 No-till renovation of the old K-31 tall fescue pasture with
 novel endophyte/endophyte-free tall fescue, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	1.0000	27.08	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	5.0000	9.75	_____
SEED/PLANTS					
SS, PM, FS Seed	lb	1.31	25.0000	32.75	_____
White Clover Seed	lb	5.35	3.0000	16.05	_____
Fescue Seed	lb	2.70	20.0000	54.00	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.5182	10.00	_____
HAND LABOR					
Implements	hour	9.06	0.4555	4.12	_____
DIESEL FUEL					
Tractors	gal	3.43	2.0005	6.86	_____
REPAIR & MAINTENANCE					
Implements	acre	9.74	1.0000	9.74	_____
Tractors	acre	0.98	1.0000	0.98	_____
INTEREST ON OP. CAP.	acre	5.49	1.0000	5.49	_____
TOTAL DIRECT EXPENSES				273.39	_____
FIXED EXPENSES					
Implements	acre	23.20	1.0000	23.20	_____
Tractors	acre	7.38	1.0000	7.38	_____
TOTAL FIXED EXPENSES				30.58	_____
TOTAL SPECIFIED EXPENSES				303.97	_____

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Research suggests tall fescue renovation to novel endophyte fescue will require 2 years glyphosate applications to completely eliminate existing stand.

Table 25A. Estimated resource use and costs for field operations, per acre
 No-till renovation of the old K-31 tall fescue pasture with
 novel endophyte/endophyte-free tall fescue and red clover, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Mar							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Mar								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
Surfactant	pt											0.4000	3.30	1.32	1.32
NT Grain Drill	12'	2WD 75	0.196	1.00	May	2.97	2.80	4.69	11.33	0.39	5.57				27.36
SS, PM, FS Seed	lb											25.0000	1.31	32.75	32.75
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
NT Grain Drill	12'	2WD 75	0.196	1.00	Sep	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Red Clover Seed	lb											3.0000	3.40	10.20	10.20
Fescue Seed	lb											20.0000	2.70	54.00	54.00
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
TOTALS						7.84	7.38	9.74	23.20	0.97	14.12			230.35	292.63
INTEREST ON OPERATING CAPITAL															5.41
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															298.04

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Research suggests tall fescue renovation to novel endophyte fescue will require 2 years glyphosate applications to completely eliminate existing stand.

SS = Sorghum x Sudan Hybrid, PM = Pearl Millet.

Table 25B. Estimated costs per acre
 No-till renovation of the old K-31 tall fescue pasture with
 novel endophyte/endophyte-free tall fescue and red clover,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	1.0000	27.08	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	5.0000	9.75	_____
SEED/PLANTS					
SS, PM, FS Seed	lb	1.31	25.0000	32.75	_____
Red Clover Seed	lb	3.40	3.0000	10.20	_____
Fescue Seed	lb	2.70	20.0000	54.00	_____
ADJUVANTS					
Surfactant	pt	3.30	0.4000	1.32	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.5182	10.00	_____
HAND LABOR					
Implements	hour	9.06	0.4555	4.12	_____
DIESEL FUEL					
Tractors	gal	3.43	2.0005	6.86	_____
REPAIR & MAINTENANCE					
Implements	acre	9.74	1.0000	9.74	_____
Tractors	acre	0.98	1.0000	0.98	_____
INTEREST ON OP. CAP.	acre	5.41	1.0000	5.41	_____
TOTAL DIRECT EXPENSES				267.46	_____
FIXED EXPENSES					
Implements	acre	23.20	1.0000	23.20	_____
Tractors	acre	7.38	1.0000	7.38	_____
TOTAL FIXED EXPENSES				30.58	_____
TOTAL SPECIFIED EXPENSES				298.04	_____

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Research suggests tall fescue renovation to novel endophyte fescue will require 2 years glyphosate applications to completely eliminate existing stand.

Table 26A. Estimated resource use and costs for field operations, per acre
Tall fescue pasture establishment,
novel endophyte/endophyte-free, prepared seedbed, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Disk Harrow	14'	2WD 75	0.140	1.00	Aug	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.5000	1.95	4.88	4.88
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Fescue Seed	lb											20.0000	2.70	54.00	54.00
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
TOTALS						5.46	5.13	4.87	11.92	0.54	8.65			181.20	217.23
INTEREST ON OPERATING CAPITAL															2.95
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															220.18

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 26B. Estimated costs per acre
Tall fescue pasture establishment,
novel endophyte/endophyte-free, prepared seedbed,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	1.0000	27.08	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.5000	4.88	_____
SEED/PLANTS					
Fescue Seed	lb	2.70	20.0000	54.00	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3601	6.95	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	1.3902	4.77	_____
REPAIR & MAINTENANCE					
Implements	acre	4.87	1.0000	4.87	_____
Tractors	acre	0.69	1.0000	0.69	_____
INTEREST ON OP. CAP.	acre	2.95	1.0000	2.95	_____
TOTAL DIRECT EXPENSES				203.13	_____
FIXED EXPENSES					
Implements	acre	11.92	1.0000	11.92	_____
Tractors	acre	5.13	1.0000	5.13	_____
TOTAL FIXED EXPENSES				17.05	_____
TOTAL SPECIFIED EXPENSES				220.18	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 27A. Estimated resource use and costs for field operations, per acre
 Ryegrass annual pasture, prepared seedbed,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	2.00	Aug	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Ryegrass Seed	lb											25.0000	0.83	20.75	20.75
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Cultipacker	12'	2WD 75	0.124	1.00	Sep	1.89	1.78	0.22	0.38	0.12	2.40				6.67
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0000	27.08	27.08	27.08
Custom Spread(Truck)	appl			1.00	Dec							1.0000	9.00	9.00	9.00
Nitrogen	cwt											2.0000	27.08	54.16	54.16
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Dec	0.95	0.89	0.18	0.27	0.09	1.49				3.78
2,4-D amine	pt											1.0000	2.69	2.69	2.69
Custom Spread(Truck)	appl			1.00	Mar							1.0000	9.00	9.00	9.00
Nitrogen	cwt											2.0000	27.08	54.16	54.16
TOTALS						10.88	10.26	4.33	10.56	0.74	14.12			272.08	322.23
INTEREST ON OPERATING CAPITAL															10.20
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															332.43

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 27B. Estimated costs per acre
 Ryegrass annual pasture, prepared seedbed
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	5.0000	135.40	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.0000	2.69	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	25.0000	20.75	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	4.0000	36.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.7181	13.84	_____
HAND LABOR					
Implements	hour	9.06	0.0313	0.28	_____
DIESEL FUEL					
Tractors	gal	3.43	2.7723	9.51	_____
REPAIR & MAINTENANCE					
Implements	acre	4.33	1.0000	4.33	_____
Tractors	acre	1.37	1.0000	1.37	_____
INTEREST ON OP. CAP.	acre	10.20	1.0000	10.20	_____

TOTAL DIRECT EXPENSES				311.61	_____
FIXED EXPENSES					
Implements	acre	10.56	1.0000	10.56	_____
Tractors	acre	10.26	1.0000	10.26	_____

TOTAL FIXED EXPENSES				20.82	_____

TOTAL SPECIFIED EXPENSES				332.43	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 28A. Estimated resource use and costs for field operations, per acre
No-till ryegrass into volunteer summer annual grasses,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Aug	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90	3.90
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
NT Grain Drill	12'	2WD 75	0.196	1.00	Sep	2.97	2.80	4.69	11.33	0.39	5.57				27.36
Ryegrass Seed	lb											30.0000	0.83	24.90	24.90
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Sep	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Mustang Max	oz											0.1900	1.30	0.25	0.25
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0000	27.08	27.08	27.08
Custom Spread(Truck)	appl			1.00	Dec							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0000	27.08	27.08	27.08
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Dec	0.95	0.89	0.18	0.27	0.09	1.49				3.78
Gramoxone SL 2.0	oz											1.0000	0.32	0.32	0.32
Custom Spread(Truck)	appl			1.00	Mar							1.0000	9.00	9.00	9.00
Nitrogen	cwt											2.0000	27.08	54.16	54.16
TOTALS						5.82	5.47	5.23	12.14	0.67	10.04			234.80	273.50
INTEREST ON OPERATING CAPITAL															8.53
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															282.03

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 28B. Estimated costs per acre
 No-till ryegrass into volunteer summer annual grasses,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	4.0000	108.32	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
Gramoxone SL 2.0	oz	0.32	1.0000	0.32	_____
INSECTICIDE					
Mustang Max	oz	1.30	0.1900	0.25	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	30.0000	24.90	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	4.0000	36.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.3844	7.42	_____
HAND LABOR					
Implements	hour	9.06	0.2904	2.62	_____
DIESEL FUEL					
Tractors	gal	3.43	1.4842	5.09	_____
REPAIR & MAINTENANCE					
Implements	acre	5.23	1.0000	5.23	_____
Tractors	acre	0.73	1.0000	0.73	_____
INTEREST ON OP. CAP.	acre	8.53	1.0000	8.53	_____
TOTAL DIRECT EXPENSES				264.42	_____
FIXED EXPENSES					
Implements	acre	12.14	1.0000	12.14	_____
Tractors	acre	5.47	1.0000	5.47	_____
TOTAL FIXED EXPENSES				17.61	_____
TOTAL SPECIFIED EXPENSES				282.03	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 29A. Estimated resource use and costs for field operations, per acre
 No-till annual ryegrass perennial (bermuda and bahigrass) pasture maintenance,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Rotary Mower	12'	2WD 75	0.098	1.00	Aug	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Section Harrow	13'	2WD 75	0.119	1.00	Oct	1.81	1.71	0.13	0.25	0.11	2.30				6.20
NT Grain Drill	12'	2WD 75	0.196	1.00	Oct	3.05	3.39	4.69	11.33	0.39	5.57				28.03
Ryegrass Seed	lb											30.0000	0.83	24.90	24.90
Custom Spread(Truck)	appl			1.00	Dec							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.9000	27.08	24.37	24.37
Phosphate (46% P2O5)	cwt											2.0000	32.25	64.50	64.50
Potash (60% K2O)	cwt											1.5000	25.56	38.34	38.34
Custom Spread(Truck)	appl			1.00	Mar							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.2000	27.08	32.50	32.50
Prorated Est Cost	acre				Jun							1.0000			35.13
TOTALS						6.35	6.50	6.50	13.06	0.61	9.76			205.91	283.21
INTEREST ON OPERATING CAPITAL															6.05
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															289.26

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices

Table 29B. Estimated costs per acre
 No-till annual ryegrass perennial (bermuda and bahiagrass)
 pasture maintenance, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	2.1000	56.87	_____
Phosphate (46% P2O5)	cwt	32.25	2.0000	64.50	_____
Potash (60% K2O)	cwt	25.56	1.5000	38.34	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	30.0000	24.90	_____
CUSTOM FERT					
Custom Spread (Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.4141	7.98	_____
HAND LABOR					
Implements	hour	9.06	0.1964	1.78	_____
DIESEL FUEL					
Tractors	gal	3.43	1.5985	5.48	_____
REPAIR & MAINTENANCE					
Implements	acre	6.50	1.0000	6.50	_____
Tractors	acre	0.87	1.0000	0.87	_____
INTEREST ON OP. CAP.	acre	6.05	1.0000	6.05	_____
TOTAL DIRECT EXPENSES				234.57	_____
FIXED EXPENSES					
Implements	acre	13.06	1.0000	13.06	_____
Tractors	acre	6.50	1.0000	6.50	_____
Prorated Est Cost	acre	35.13	1.0000	35.13	_____
TOTAL FIXED EXPENSES				54.69	_____
TOTAL SPECIFIED EXPENSES				289.26	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 30A. Estimated resource use and costs for field operations, per acre
 Overseeded annual ryegrass perennial (bermuda and bahia
 grass) pasture maintenance, broadcast, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Rotary Mower	12'	2WD 75	0.098	1.00	Aug	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Section Harrow	13'	2WD 75	0.119	1.00	Oct	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Custom Spread + Seed appl				1.00	Oct							1.0000	5.00	5.00	5.00
Phosphate (46% P2O5)	cwt											2.0000	32.25	64.50	64.50
Potash (60% K2O)	cwt											1.5000	25.56	38.34	38.34
Ryegrass Seed	lb											35.0000	0.83	29.05	29.05
Custom Spread(Truck)	appl			1.00	Dec							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.9000	27.08	24.37	24.37
Custom Spread(Truck)	appl			1.00	Mar							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.2000	27.08	32.50	32.50
Prorated Est Cost	acre				Jun							1.0000			35.13
TOTALS						3.30	3.11	1.81	1.73	0.21	4.19			215.06	264.33
INTEREST ON OPERATING CAPITAL															7.30
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															271.63

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 30B. Estimated costs per acre
 Overseeded annual ryegrass perennial (bermuda and bahia
 grass) pasture maintenance, broadcast, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	2.0000	64.50	_____
Potash (60% K2O)	cwt	25.56	1.5000	38.34	_____
Nitrogen	cwt	27.08	2.1000	56.87	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	35.0000	29.05	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
CUSTOM PLANT					
Custom Spread + Seed	appl	5.00	1.0000	5.00	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.2176	4.19	_____
DIESEL FUEL					
Tractors	gal	3.43	0.8402	2.88	_____
REPAIR & MAINTENANCE					
Implements	acre	1.81	1.0000	1.81	_____
Tractors	acre	0.42	1.0000	0.42	_____
INTEREST ON OP. CAP.	acre	7.30	1.0000	7.30	_____
TOTAL DIRECT EXPENSES				231.66	_____
FIXED EXPENSES					
Implements	acre	1.73	1.0000	1.73	_____
Tractors	acre	3.11	1.0000	3.11	_____
Prorated Est Cost	acre	35.13	1.0000	35.13	_____
TOTAL FIXED EXPENSES				39.97	_____
TOTAL SPECIFIED EXPENSES				271.63	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 31A. Estimated resource use and costs for field operations, per acre
Sorghum x Sudan (SS), Pearl Millet (PM),
Forage Sorghum (FS) annual hay, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Apr								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Apr	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	2.00	Apr	4.25	4.01	2.85	7.54	0.28	5.41				24.06
Grain Drill	12'	2WD 75	0.157	1.00	May	2.38	2.24	3.26	7.88	0.31	4.45				20.21
SS, PM, FS Seed	lb											30.0000	1.31	39.30	39.30
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Spray (Broadcast)	27'	2WD 75	0.062	1.00	May	0.95	0.89	0.18	0.27	0.09	1.49				3.78
2,4-D amine	pt											1.5000	2.69	4.04	4.04
Custom Spread(Truck)	appl			1.00	May							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.5000	27.08	40.62	40.62
Hay Cut-Cond	9'	2WD 75	0.229	1.00	Jul	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Rake	8.5'	2WD 75	0.202	2.00	Jul	6.12	5.77	1.69	2.76	0.40	7.80				24.14
Hay Baler	Lg Round	2WD 75	0.211	1.00	Jul	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0160	264.00	4.22	4.22
Hay Mover	1B Lift	2WD 75	0.300	1.00	Jul	4.54	4.28	0.05	0.15	0.30	5.78				14.80
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.5000	27.08	40.62	40.62
Hay Cut-Cond	9'	2WD 75	0.229	1.00	Aug	3.47	3.27	5.17	6.76	0.22	4.42				23.09
Hay Rake	8.5'	2WD 75	0.202	2.00	Aug	6.12	5.77	1.69	2.76	0.40	7.80				24.14
Hay Baler	Lg Round	2WD 75	0.211	1.00	Aug	3.20	3.02	8.70	12.64	0.21	4.08				31.64
Net Wrap (9840ft)	roll											0.0160	264.00	4.22	4.22
Hay Mover	1B Lift	2WD 75	0.300	1.00	Aug	4.54	4.28	0.05	0.15	0.30	5.78				14.80
TOTALS						44.22	41.69	38.46	62.43	3.11	58.03			221.13	465.96
INTEREST ON OPERATING CAPITAL															14.68
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															480.64

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
2,4-D applied when sorghum/sudan is 4 to 6 inches tall.

Table 31B. Estimated costs per acre
 Sorghum x Sudan (SS), Pearl Millet (PM),
 Forage Sorghum (FS) annual hay, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	3.0000	81.24	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.5000	4.04	_____
SEED/PLANTS					
SS, PM, FS Seed	lb	1.31	30.0000	39.30	_____
OTHER					
Net Wrap (9840ft)	roll	264.00	0.0320	8.45	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	2.9216	56.33	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	11.2787	38.66	_____
REPAIR & MAINTENANCE					
Implements	acre	38.46	1.0000	38.46	_____
Tractors	acre	5.56	1.0000	5.56	_____
INTEREST ON OP. CAP.	acre	14.68	1.0000	14.68	_____

TOTAL DIRECT EXPENSES				376.52	_____
FIXED EXPENSES					
Implements	acre	62.43	1.0000	62.43	_____
Tractors	acre	41.69	1.0000	41.69	_____

TOTAL FIXED EXPENSES				104.12	_____

TOTAL SPECIFIED EXPENSES				480.64	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
2,4-D applied when sorghum/sudan is 4 to 6 inches tall.

Table 32A. Estimated resource use and costs for field operations, per acre
Sorghum x Sudan (SS), Pearl Millet (PM),
Forage Sorghum (FS) annual pasture, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF TIMES			POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST	
			RATE	OVER	MTH	DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Soil Testing	acre			0.33	Feb								0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Apr									63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Apr	1.98	1.87	0.95	2.12	0.13	2.52					9.44
Disk Harrow	14'	2WD 75	0.140	2.00	May	4.25	4.01	2.85	7.54	0.28	5.41					24.06
Spray (Broadcast)	27'	2WD 75	0.062	1.00	May	0.95	0.89	0.18	0.27	0.09	1.49					3.78
2,4-D amine	pt												1.5000	2.69	4.04	4.04
Grain Drill	12'	2WD 75	0.157	1.00	May	2.38	2.24	3.26	7.88	0.31	4.45					20.21
SS, PM, FS Seed	lb												30.0000	1.31	39.30	39.30
Custom Spread(Truck) appl				1.00	May								1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt												1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt												1.0000	25.56	25.56	25.56
Custom Spread(Truck) appl				1.00	Jun								1.0000	9.00	9.00	9.00
Nitrogen	cwt												0.4000	27.08	10.83	10.83
Custom Spread(Truck) appl				1.00	Jul								1.0000	9.00	9.00	9.00
Nitrogen	cwt												0.4000	27.08	10.83	10.83
TOTALS						9.56	9.01	7.24	17.81	0.81	13.87				153.11	210.60
INTEREST ON OPERATING CAPITAL																8.31
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																218.91

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
2,4-D applied when sorghum/sudan is 4 to 6 inches tall.

Table 32B. Estimated costs per acre
 Sorghum x Sudan (SS), Pearl Millet (PM),
 Forage Sorghum (FS) annual pasture, Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	0.8000	21.66	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.5000	4.04	_____
SEED/PLANTS					
SS, PM, FS Seed	lb	1.31	30.0000	39.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.6313	12.17	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	2.4374	8.36	_____
REPAIR & MAINTENANCE					
Implements	acre	7.24	1.0000	7.24	_____
Tractors	acre	1.20	1.0000	1.20	_____
INTEREST ON OP. CAP.	acre	8.31	1.0000	8.31	_____

TOTAL DIRECT EXPENSES				192.09	_____
FIXED EXPENSES					
Implements	acre	17.81	1.0000	17.81	_____
Tractors	acre	9.01	1.0000	9.01	_____

TOTAL FIXED EXPENSES				26.82	_____

TOTAL SPECIFIED EXPENSES				218.91	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
2,4-D applied when sorghum/sudan is 4 to 6 inches tall.

Table 33A. Estimated resource use and costs for field operations, per acre
Sorghum silage,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Sep							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Sep								63.67		
Chisel Plow	15'	2WD 75	0.130	2.00	Apr	3.97	3.74	1.90	4.24	0.26	5.05				18.90
Spin Spreader	5 Ton	2WD 75	0.042	1.00	May	0.64	0.60	0.34	0.86	0.08	1.19				3.63
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											2.0000	25.56	51.12	51.12
Field Cultivate	12'	2WD 75	0.124	1.00	May	1.89	1.78	0.55	2.93	0.12	2.40				9.55
Disk Bed (Hipper)	4R-38	2WD 75	0.147	1.00	May	2.23	2.11	0.58	1.91	0.14	2.85				9.68
Row Cond	13'	2WD 75	0.119	1.00	May	1.81	1.71	1.16	2.09	0.11	2.30				9.07
Plant & Pre Rigid	4R-38	2WD 75	0.153	1.00	May	2.33	2.19	1.98	4.77	0.30	4.35				15.62
Forage Sorghum Seed	lb											6.0000	1.06	6.36	6.36
Bicep 11 Magnum	qt											2.0000	12.41	24.82	24.82
Cultivate	4R-38	2WD 75	0.162	1.00	May	2.46	2.32	0.94	3.09	0.16	3.13				11.94
Spin Spreader	5 Ton	2WD 75	0.042	1.00	May	0.64	0.60	0.34	0.86	0.08	1.19				3.63
Nitrogen	cwt											2.6500	27.08	71.76	71.76
Cultivate	4R-38	2WD 75	0.162	1.00	Jun	2.46	2.32	0.94	3.09	0.16	3.13				11.94
Silage Harvester	2-Row	2WD 75	0.510	1.00	Sep	7.73	7.28	28.79	37.66	0.51	9.84				91.30
Silage Wagon 12T	12-Ton	2WD 75	0.510	1.00	Sep	7.73	7.28	3.37	9.69	0.51	9.84				37.91
TOTALS						33.89	31.93	40.89	71.19	2.47	45.27			234.72	457.89
INTEREST ON OPERATING CAPITAL															3.96
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															461.85

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 33B. Estimated costs per acre
Sorghum silage,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Nitrogen	cwt	27.08	3.7200	100.74	_____
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	2.0000	51.12	_____
HERBICIDE					
Bicep 11 Magnum	qt	12.41	2.0000	24.82	_____
SEED/PLANTS					
Forage Sorghum Seed	lb	1.06	6.0000	6.36	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	2.2365	43.12	_____
HAND LABOR					
Implements	hour	9.06	0.2379	2.15	_____
DIESEL FUEL					
Tractors	gal	3.43	8.6340	29.63	_____
REPAIR & MAINTENANCE					
Implements	acre	40.89	1.0000	40.89	_____
Tractors	acre	4.26	1.0000	4.26	_____
INTEREST ON OP. CAP.	acre	3.96	1.0000	3.96	_____
TOTAL DIRECT EXPENSES				358.73	_____
FIXED EXPENSES					
Implements	acre	71.19	1.0000	71.19	_____
Tractors	acre	31.93	1.0000	31.93	_____
TOTAL FIXED EXPENSES				103.12	_____
TOTAL SPECIFIED EXPENSES				461.85	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 34A. Estimated resource use and costs for field operations, per acre
 Ryegrass, Small Grains (oat, cereal rye, triticale),
 Annual Clover, Brassica mix annual pasture, prepared seedbed, Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT		TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE		COST
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Aug	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Custom Spread(Truck)	appl			1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Ryegrass Seed	lb											20.0000	0.83	16.60	16.60
Small Grains Seed	lb											50.0000	0.63	31.50	31.50
Brassica Seed	lb											2.0000	2.87	5.74	5.74
Balansa Clover	lb.											8.0000	2.76	22.08	22.08
Custom Spread(Truck)	appl			1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
Custom Spread(Truck)	appl			1.00	Feb							1.0000	9.00	9.00	9.00
Nitrogen	cwt											0.5000	27.08	13.54	13.54
TOTALS						8.30	7.82	5.77	14.02	0.70	11.98			191.11	239.00
INTEREST ON OPERATING CAPITAL															10.18
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															249.18

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 34B. Estimated costs per acre
 Ryegrass, Small Grains (oat, cereal rye, triticale),
 Annual Clover, Brassica mix annual pasture, prepared seedbed,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	1.0000	27.08	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	20.0000	16.60	_____
Small Grains Seed	lb	0.63	50.0000	31.50	_____
Brassica Seed	lb	2.87	2.0000	5.74	_____
Balansa Clover	lb.	2.76	8.0000	22.08	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.5478	10.56	_____
HAND LABOR					
Implements	hour	9.06	0.1571	1.42	_____
DIESEL FUEL					
Tractors	gal	3.43	2.1149	7.25	_____
REPAIR & MAINTENANCE					
Implements	acre	5.77	1.0000	5.77	_____
Tractors	acre	1.05	1.0000	1.05	_____
INTEREST ON OP. CAP.	acre	10.18	1.0000	10.18	_____

TOTAL DIRECT EXPENSES				227.34	_____
FIXED EXPENSES					
Implements	acre	14.02	1.0000	14.02	_____
Tractors	acre	7.82	1.0000	7.82	_____

TOTAL FIXED EXPENSES				21.84	_____

TOTAL SPECIFIED EXPENSES				249.18	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 35A. Estimated resource use and costs for field operations, per acre
 Ryegrass-Small grains annual pasture, prepared seedbed,
 Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Jul							0.3300	10.00	3.30	3.30
Lime (Spread)	ton			1.00	Aug								63.67		
Chisel Plow	15'	2WD 75	0.130	1.00	Aug	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Disk Harrow	14'	2WD 75	0.140	1.00	Aug	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Section Harrow	13'	2WD 75	0.119	1.00	Sep	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Grain Drill	12'	2WD 75	0.157	1.00	Sep	2.38	2.24	3.26	7.88	0.31	4.45				20.21
Ryegrass Seed	lb											20.0000	0.83	16.60	16.60
Small Grains Seed	lb											70.0000	0.63	44.10	44.10
Custom Spread(Truck) appl				1.00	Sep							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.0000	32.25	32.25	32.25
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck) appl				1.00	Oct							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Mar	0.95	0.89	0.18	0.27	0.09	1.49				3.78
2,4-D amine	pt											1.5000	2.69	4.04	4.04
TOTALS						9.25	8.71	5.95	14.29	0.79	13.47			172.83	224.50
INTEREST ON OPERATING CAPITAL															9.08
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															233.58

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 35B. Estimated costs per acre
 Ryegrass-Small grains annual pasture, prepared seedbed,
 Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.0000	32.25	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	1.0700	28.98	_____
HERBICIDE					
2,4-D amine	pt	2.69	1.5000	4.04	_____
SEED/PLANTS					
Ryegrass Seed	lb	0.83	20.0000	16.60	_____
Small Grains Seed	lb	0.63	70.0000	44.10	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	2.0000	18.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	0.6105	11.77	_____
HAND LABOR					
Implements	hour	9.06	0.1884	1.70	_____
DIESEL FUEL					
Tractors	gal	3.43	2.3569	8.08	_____
REPAIR & MAINTENANCE					
Implements	acre	5.95	1.0000	5.95	_____
Tractors	acre	1.17	1.0000	1.17	_____
INTEREST ON OP. CAP.	acre	9.08	1.0000	9.08	_____
TOTAL DIRECT EXPENSES				210.58	_____
FIXED EXPENSES					
Implements	acre	14.29	1.0000	14.29	_____
Tractors	acre	8.71	1.0000	8.71	_____
TOTAL FIXED EXPENSES				23.00	_____
TOTAL SPECIFIED EXPENSES				233.58	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

Table 36A. Estimated resource use and costs for field operations, per acre
Crabgrass establishment, broadcast,
Mississippi, 2027

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Soil Testing	acre			0.33	Feb							0.3300	10.00	3.30	3.30
Chisel Plow	15'	2WD 75	0.130	1.00	Mar	1.98	1.87	0.95	2.12	0.13	2.52				9.44
Lime (Spread)	ton			1.00	Apr								63.67		
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Spray (Broadcast)	27'	2WD 75	0.062	1.00	Apr	0.97	1.08	0.18	0.27	0.09	1.49				3.99
Glyphosate 3lbs a.e.	pt											2.0000	1.95	3.90	3.90
Surfactant	pt											1.0000	3.30	3.30	3.30
Disk Harrow	14'	2WD 75	0.140	1.00	Apr	2.13	2.00	1.43	3.77	0.14	2.71				12.04
Section Harrow	13'	2WD 75	0.119	1.00	Apr	1.81	1.71	0.13	0.25	0.11	2.30				6.20
Cyclone Spin	750Lb	2WD 75	0.200	1.00	Apr	3.03	2.85	0.28	1.23	0.30	4.77				12.16
Crabgrass seed	lb											10.0000	10.20	102.00	102.00
Cultipacker	12'	2WD 75	0.124	1.00	Apr	1.89	1.78	0.22	0.38	0.12	2.40				6.67
Custom Spread(Truck)	appl			1.00	Apr							1.0000	9.00	9.00	9.00
Phosphate (46% P2O5)	cwt											1.5000	32.25	48.38	48.38
Potash (60% K2O)	cwt											1.0000	25.56	25.56	25.56
Custom Spread(Truck)	appl			1.00	Jun							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
Rotary Mower	12'	2WD 75	0.098	1.00	Jun	1.49	1.40	1.68	1.48	0.09	1.89				7.94
Custom Spread(Truck)	appl			1.00	Jul							1.0000	9.00	9.00	9.00
Nitrogen	cwt											1.0700	27.08	28.98	28.98
TOTALS						15.43	14.69	6.30	13.27	1.14	20.79			271.40	341.88
INTEREST ON OPERATING CAPITAL															13.62
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															355.50

Note: Cost of production estimates are based on 2025 input prices.

Fertilization and lime decisions should be based on soil test recommendations.

Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.

This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Table 36B. Estimated costs per acre
Crabgrass establishment, broadcast,
Mississippi, 2027

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
FERTILIZER					
Phosphate (46% P2O5)	cwt	32.25	1.5000	48.38	_____
Potash (60% K2O)	cwt	25.56	1.0000	25.56	_____
Nitrogen	cwt	27.08	2.1400	57.95	_____
HERBICIDE					
Glyphosate 3lbs a.e.	pt	1.95	2.0000	3.90	_____
SEED/PLANTS					
Crabgrass seed	lb	10.20	10.0000	102.00	_____
ADJUVANTS					
Surfactant	pt	3.30	1.0000	3.30	_____
CUSTOM FERT					
Custom Spread(Truck)	appl	9.00	3.0000	27.00	_____
SERVICE FEE					
Soil Testing	acre	10.00	0.3300	3.30	_____
OPERATOR LABOR					
Tractors	hour	19.28	1.0163	19.60	_____
HAND LABOR					
Implements	hour	9.06	0.1313	1.19	_____
DIESEL FUEL					
Tractors	gal	3.43	3.9235	13.46	_____
REPAIR & MAINTENANCE					
Implements	acre	6.30	1.0000	6.30	_____
Tractors	acre	1.97	1.0000	1.97	_____
INTEREST ON OP. CAP.	acre	13.62	1.0000	13.62	_____
TOTAL DIRECT EXPENSES				327.54	_____
FIXED EXPENSES					
Implements	acre	13.27	1.0000	13.27	_____
Tractors	acre	14.69	1.0000	14.69	_____
TOTAL FIXED EXPENSES				27.96	_____
TOTAL SPECIFIED EXPENSES				355.50	_____

Note: Cost of production estimates are based on 2025 input prices.
Fertilization and lime decisions should be based on soil test recommendations.
Nitrogen price is an average of Urea, Ammonium Nitrate, and Ammonium Sulfate prices.
This budget assumes 40 units of nitrogen being applied after emergence and 40 units applied after the first grazing cycle.

Appendix

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2027

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-----					
Tractor (40-59hp) CAB	2WD 50	39,800	600	8	2.57	19.28	8.82	1.24	29.35	9.31	38.66
Tractor (40-59hp) CAB	MFWD 50	53,300	600	8	2.57	19.28	8.82	1.66	29.77	12.47	42.24
Tractor (40-59hp) RB	2WD 50	29,200	600	8	2.57	19.28	8.82	0.91	29.01	6.83	35.85
Tractor (40-59hp) RB	MFWD 50	34,300	600	8	2.57	19.28	8.82	1.07	29.17	8.02	37.20
Tractor (60-89hp) CAB	2WD 75	73,800	600	8	3.86	19.28	13.24	2.30	34.82	17.26	52.09
Tractor (60-89hp) CAB	MFWD 75	81,600	600	8	3.86	19.28	13.24	2.55	35.07	19.09	54.16
Tractor (60-89hp) RB	2WD 75	61,000	600	8	3.86	19.28	13.24	1.90	34.42	14.27	48.70
Tractor (60-89hp) RB	MFWD 75	53,300	600	8	3.86	19.28	13.24	1.66	34.18	12.47	46.65
Tractor (90-119hp) CB	2WD 105	113,000	600	8	5.40	19.28	18.53	3.53	41.34	26.44	67.79
Tractor (90-119hp) CB	MFWD 105	115,000	600	8	5.40	19.28	18.53	3.59	41.41	26.90	68.32
Tractor (90-119hp) RB	2WD 105	113,700	600	8	5.40	19.28	18.53	3.55	41.37	26.60	67.97
Tractor (90-119hp) RB	MFWD 105	111,000	600	8	5.40	19.28	18.53	3.46	41.28	25.97	67.26
Tractor (120-139hp) CB	2WD 130	144,300	600	8	6.69	19.28	22.95	4.50	46.74	33.76	80.50
Tractor (120-139hp) CB	MFWD 130	172,900	600	8	6.69	19.28	22.95	5.40	47.63	40.45	88.09
Tractor (140-159hp) CB	2WD 150	167,600	600	8	7.72	19.28	26.48	5.23	51.00	39.21	90.21
Tractor (140-159hp) CB	MFWD 150	193,900	600	8	7.72	19.28	26.48	6.05	51.82	45.37	97.19

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2 Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2027

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-----							
Chisel Plow	15'	2WD 130	20,100	150	12	0.130	2.52	3.00	0.95	0.59	7.07	2.11	4.42	13.61
Cult & Post	4R-38	2WD 105	27,700	150	10	0.162	3.86	3.01	1.19	0.57	8.65	3.96	4.32	16.93
Cult & Post	6R-30	MFWD 150	34,300	150	10	0.137	3.27	3.64	1.25	0.83	9.00	4.15	6.23	19.40
Cult & Post	6R-38	MFWD 150	34,200	150	10	0.108	2.58	2.87	0.98	0.65	7.10	3.27	4.92	15.30
Cult & Post	8R-30	MFWD 150	42,100	150	10	0.103	2.45	2.73	1.15	0.62	6.96	3.82	4.67	15.47
Cultipacker	12'	2WD 105	7,470	300	12	0.124	2.39	2.30	0.21	0.44	5.36	0.38	3.31	9.05
Cultipacker	20'	MFWD 150	13,500	300	12	0.074	1.43	1.97	0.23	0.45	4.10	0.41	3.38	7.90
Cultivate	4R-38	2WD 105	21,600	150	10	0.162	3.13	3.01	0.93	0.57	7.65	3.09	4.32	15.06
Cultivate	6R-30	MFWD 150	28,200	150	10	0.137	2.65	3.64	1.03	0.83	8.15	3.41	6.23	17.81
Cultivate	6R-38	MFWD 150	28,100	150	10	0.108	2.09	2.87	0.81	0.65	6.43	2.68	4.92	14.05
Cultivate	8R-30	MFWD 150	36,000	150	10	0.103	1.98	2.73	0.99	0.62	6.33	3.27	4.67	14.28
Cyclone Spin	750Lb	2WD 105	1,875	50	8	0.200	4.76	3.70	0.28	0.71	9.46	1.22	5.32	16.00
Disk & Incorporate	14'	2WD 130	42,700	200	10	0.147	3.50	3.38	1.88	0.66	9.44	4.15	4.97	18.57
Disk & Incorporate	24'	MFWD 150	72,800	200	10	0.085	2.04	2.27	1.87	0.52	6.71	4.13	3.89	14.75
Disk & Incorporate	32'	MFWD 150	94,600	200	10	0.064	1.53	1.70	1.82	0.39	5.46	4.02	2.92	12.41
Disk Bed (Hipper)	4R-38	MFWD 150	15,700	160	10	0.147	2.84	3.90	0.57	0.89	8.23	1.91	6.69	16.84
Disk Bed (Hipper)	6R-38	MFWD 150	29,900	160	10	0.098	1.90	2.61	0.73	0.59	5.85	2.43	4.47	12.76
Disk Bed (Hipper)	8R-30	MFWD 150	33,100	160	10	0.093	1.80	2.48	0.77	0.56	5.63	2.56	4.25	12.45
Disk Harrow	14'	2WD 130	36,600	180	10	0.140	2.70	3.22	1.42	0.63	7.98	3.77	4.73	16.49
Disk Harrow	24'	MFWD 150	66,700	180	10	0.081	1.57	2.16	1.51	0.49	5.75	4.00	3.71	13.48
Disk Harrow	32'	MFWD 150	88,500	180	10	0.061	1.18	1.62	1.50	0.37	4.68	3.98	2.78	11.46
Fert Appl (Liquid)	4R-38	MFWD 150	25,400	150	8	0.154	3.68	4.09	2.61	0.93	11.33	3.67	7.01	22.02
Fert Appl (Liquid)	6R-30	MFWD 150	25,300	150	8	0.130	3.11	3.46	2.20	0.79	9.58	3.10	5.94	18.63
Fert Appl (Liquid)	6R-38	MFWD 150	25,300	150	8	0.103	2.46	2.73	1.74	0.62	7.56	2.44	4.69	14.70
Fert Appl (Liquid)	8R-30	MFWD 150	26,300	150	8	0.098	2.33	2.60	1.72	0.59	7.25	2.41	4.45	14.12
Field Cult & Inc	12'	2WD 150	23,900	100	10	0.124	2.96	3.29	0.74	0.65	7.65	3.93	4.87	16.46
Field Cult & Inc	24'	MFWD 150	56,100	100	10	0.062	1.48	1.64	0.87	0.37	4.37	4.61	2.82	11.81
Field Cultivate	12'	2WD 150	17,800	100	10	0.124	2.39	3.29	0.55	0.65	6.89	2.92	4.87	14.70
Field Cultivate	24'	MFWD 150	50,000	100	10	0.062	1.19	1.64	0.77	0.37	4.00	4.11	2.82	10.93
Front Loader	.5 yd	2WD 75	7,275	100	10	0.120	2.31	1.58	0.52	0.22	4.65	1.24	1.71	7.61
Grain Drill	12'	2WD 130	55,400	150	8	0.157	4.45	3.60	3.26	0.70	12.03	7.88	5.30	25.21
Hay Baler	Lg Round	2WD 105	73,100	200	8	0.211	4.07	3.92	8.69	0.75	17.44	12.64	5.62	35.71
Hay Baler	Med Rnd	2WD 75	49,400	200	8	0.211	4.07	2.80	5.87	0.40	13.16	8.54	3.01	24.72
Hay Baler	Square	2WD 50	38,900	200	8	0.229	4.41	2.02	4.45	0.20	11.10	7.28	1.56	19.96
Hay Cut-Cond	9'	2WD 105	36,100	200	8	0.229	4.41	4.24	5.17	0.81	14.65	6.76	6.09	27.51
Hay Cut-Cond	12'	2WD 105	49,100	200	8	0.171	3.31	3.18	5.27	0.61	12.38	6.89	4.57	23.85
Hay Disc Mower	8'	2WD 75	15,800	200	8	0.257	4.97	3.41	2.54	0.49	11.42	3.32	3.67	18.43
Hay Disc Mower	10'	2WD 50	17,600	200	8	0.206	3.97	1.82	2.26	0.18	8.25	2.96	1.40	12.63
Hay Mover	1B Lift	2WD 50	690	200	10	0.300	5.78	2.64	0.05	0.27	8.75	0.14	2.04	10.95
Hay Rake	8.5'	2WD 50	8,340	200	8	0.202	3.89	1.78	0.84	0.18	6.71	1.37	1.38	9.47
Hay Rake-Double	17'	2WD 75	8,200	200	8	0.101	1.94	1.33	0.41	0.19	3.89	0.67	1.44	6.01
Hay Tedder	17'	2WD 105	12,500	200	8	0.101	1.94	1.87	0.63	0.35	4.81	1.03	2.68	8.53
Hay Trailer	20'	2WD 75	4,870	200	15	0.090	1.73	1.19	0.11	0.17	3.21	0.25	1.28	4.75
NT Grain Drill	12'	2WD 130	63,700	150	8	0.196	5.56	4.50	4.69	0.88	15.65	11.32	6.63	33.61
NT Plant & Pre Rigid	4R-38	2WD 130	38,400	150	8	0.153	4.35	3.52	2.21	0.69	10.79	5.34	5.19	21.32
NT Plant & Pre Rigid	6R-30	MFWD 150	52,900	150	8	0.130	3.68	3.44	2.58	0.78	10.50	6.23	5.90	22.64
NT Plant & Pre Rigid	6R-38	MFWD 150	49,000	150	8	0.102	2.91	2.72	1.88	0.62	8.14	4.55	4.66	17.36
NT Plant Rigid	4R-38	2WD 130	32,300	150	8	0.148	4.19	3.39	1.79	0.66	10.05	4.32	4.99	19.38
NT Plant Rigid	6R-30	MFWD 150	46,800	150	8	0.125	3.55	3.31	2.20	0.75	9.83	5.31	5.68	20.83
NT Plant Rigid	6R-38	MFWD 150	42,900	150	8	0.098	2.80	2.62	1.59	0.59	7.61	3.84	4.49	15.95
Plant & Pre Rigid	4R-38	2WD 130	34,300	150	8	0.153	4.35	3.52	1.97	0.69	10.55	4.77	5.19	20.52
Plant & Pre Rigid	6R-30	MFWD 150	46,800	150	8	0.126	3.57	3.34	2.21	0.76	9.90	5.35	5.73	20.98
Plant & Pre Rigid	6R-38	MFWD 150	42,800	150	8	0.102	2.91	2.72	1.64	0.62	7.90	3.98	4.66	16.55
Plant Rigid	4R-38	2WD 130	28,200	150	8	0.148	4.19	3.39	1.56	0.66	9.82	3.77	4.99	18.60
Plant Rigid	6R-30	MFWD 150	40,700	150	8	0.125	3.55	3.31	1.91	0.75	9.54	4.61	5.68	19.85
Plant Rigid	6R-38	MFWD 150	36,700	150	8	0.098	2.80	2.62	1.36	0.59	7.38	3.28	4.49	15.16
Rotary Mower	7'	MFWD 130	6,580	185	10	0.168	3.24	3.86	0.89	0.90	8.91	0.79	6.81	16.52
Rotary Mower	12'	2WD 150	21,100	185	10	0.098	1.89	2.60	1.68	0.51	6.68	1.48	3.85	12.02
Rotary Mower	15'	MFWD 150	27,600	185	10	0.078	1.51	2.08	1.75	0.47	5.82	1.54	3.56	10.94
Row Cond	13'	2WD 130	12,900	100	10	0.119	2.30	2.74	1.15	0.53	6.73	2.08	4.03	12.86
Row Cond	21'	2WD 150	21,200	100	10	0.078	1.51	2.08	0.41	0.41	4.42	2.20	3.08	9.70
Row Cond & Inc	13'	2WD 130	18,700	100	10	0.126	3.02	2.91	0.59	0.57	7.10	3.13	4.28	14.52
Row Cond & Inc	21'	2WD 150	26,900	100	10	0.078	1.87	2.08	0.52	0.41	4.89	2.79	3.08	10.76
Section Harrow	13'	2WD 105	3,210	200	10	0.119	2.30	2.21	0.13	0.42	5.07	0.25	3.17	8.50
Silage Harvester	2-Row	2WD 105	90,300	200	8	0.510	9.83	9.45	28.79	1.81	49.90	37.65	13.57	101.13
Silage Harvester 3-R	3-Row	2WD 105	76,800	200	8	0.336	6.49	6.24	16.16	1.18	30.08	21.13	8.90	60.12
Silage Wagon	10-Ton	2WD 75	11,838	200	15	0.510	9.83	6.75	1.20	0.97	18.77	3.47	7.28	29.53
Silage Wagon 12T	12-Ton	2WD 105	33,000	200	15	0.510	9.83	9.45	3.36	1.80	24.46	9.69	13.49	47.64
Spin Spreader	5 Ton	MFWD 150	14,500	100	8	0.042	1.19	1.11	0.34	0.25	2.90	0.85	1.90	5.67
Spray (Broadcast)	27'	MFWD 150	6,100	200	8	0.062	1.49	1.65	0.17	0.37	3.71	0.26	2.84	6.82
Spray (Spot)	27'	MFWD 150	6,100	200	8	0.062	1.49	1.65	0.17	0.37	3.71	0.26	2.84	6.82
Subsoiler	3 Shank	MFWD 150	6,140	100	15	0.020	0.39	0.54	0.04	0.12	1.10	0.13	0.92	2.16
Tailgate Seeder		2WD 50	2,260	100	8	0.200	3.85	1.76	0.56	0.18	6.36	0.73	1.36	8.47

Notes:

Labor: Includes labor from Power unit plus additional labor from the implement.
 Total Direct: Does not include interest on operating capital.

Appendix Table 3. Operating inputs: estimated prices, Mississippi, 2027

ITEM NAME	UNIT	PRICE	ITEM NAME	UNIT	PRICE
		dollars			dollars
ADJUVANTS			Grazon P+D	pt	5.59
Crop Oil (veg)	pt	2.90	GrazonNext	pt	7.58
Surfactant	pt	3.30	Metribuzin 75	lb	9.99
CUSTOM FERT			Novagraz	pt	12.09
App Fert by Air	cwt	13.60	Pendimethalin	pt	6.63
App Fert by Air(Min)	appl	13.60	Poast	pt	20.50
Custom Spread(Truck)	appl	9.00	Poast Plus	pt	9.49
CUSTOM LIME			Pursuit	oz	3.53
Lime (Spread)	ton	63.67	Remedy Ultra	pt	12.65
CUSTOM PLANT			Roundup Original	pt	2.85
Custom Spread + Seed	appl	5.00	Roundup Power Max	pt	2.85
Custom Sprig	acre	100.00	Roundup Power Max	oz	0.18
Plant by Air	cwt	8.43	Ultra Blazer	pt	3.10
CUSTOM SPRAY			Weedmaster	pt	3.66
App by Air (10 gal)	appl	9.50	INSECTICIDE		
App by Air (2 gal)	appl	3.00	Baythroid XL	oz	1.52
App by Air (3 gal)	appl	7.50	Blackhawk 36 WG	oz	10.94
App by Air (5 gal)	appl	8.05	Coragen	oz	6.62
FERTILIZER			Intrepid 2F	oz	1.87
Boron Plus	gal	30.16	Lannate LV	pt	8.60
Fert 10-34-0	cwt	38.00	Malathion 57 EC	pt	9.13
Fert 13-13-13	cwt	31.12	Mustang Max	oz	1.30
Fert 33-0-0-12S	cwt	46.79	Prevathon	oz	1.52
Molybdenum	lb	14.37	Sevin XLR Plus	qt	19.85
Nitrogen	cwt	27.08	OTHER		
Phosphate (46% P2O5)	cwt	32.25	Net Wrap (9840ft)	roll	264.00
Potash (60% K2O)	cwt	25.56	Twine	bun	42.50
UAN (32% N)	cwt	23.75	SEED/PLANTS		
UAN + Sulfur (28%)	cwt	24.39	Alfalfa Seed	lb	4.41
Urea, Solid (46% N)	cwt	31.08	Bahia grass Seed	lb	5.03
HAUL			Balansa Clover	lb.	2.76
Hay Haul (Conv)	ton	25.00	Brassica Seed	lb	2.87
HERBICIDE			Common Bermuda Seed	lb	7.65
2,4-D amine	pt	2.69	Corn Seed RR2	thous	3.92
2,4-D ester	pt	3.93	Crabgrass seed	lb	10.20
2,4-DB	pt	3.98	Crimson Clover Seed	lb	1.76
AAtrex 4L	pt	3.40	Dallisgrass Seed	lb	10.95
Accent Q	oz	24.02	Fescue Seed	lb	2.70
Atrazine 4L	pt	2.17	Forage Sorghum Seed	lb	1.06
Balan	lb	1.16	MaxQ Fescue Seed	lb	7.60
Banvel	pt	4.86	Millet Seed	lb	1.41
Basagran	pt	5.43	Red Clover Seed	lb	3.40
Bicep 1l Magnum	qt	12.41	Ryegrass Seed	lb	0.83
Buctril 4EC	pt	4.28	Small Grains Seed	lb	0.63
Clethodim	oz	0.23	SS, PM, FS Seed	lb	1.31
Dicamba	pt	3.97	SS, PM, Seed	lb	1.43
Diuron 4L	pt	3.27	Wheat Seed	lb	0.34
Dual II Magnum	pt	5.56	White Clover Seed	lb	5.35
Dual Magnum	pt	7.79	SERVICE FEE		
Glyphosate 3lbs a.e.	pt	1.95	Soil Testing	acre	10.00
Gramoxone Inteon	oz	0.17	Soil Testing	acre	10.00
Gramoxone SL 2.0	oz	0.32			

Appendix Table 4. Estimated fuel prices
and interest rates, Mississippi, 2027

ITEM NAME	UNIT	PRICE
		dollars
FUEL TYPES		
Diesel Fuel	gal	3.43
Gasoline	gal	3.14
INTEREST RATES		
Short-term	%	8.25
Intermediate-term	%	8.50

Appendix Table 5. Labor types and wage rates,
Mississippi, 2027

Item name	Unit	Wage Rate
OPERATOR LABOR	hour	19.28
HAND LABOR	hour	9.06

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