

**NON-DELTA
2022
PLANNING BUDGETS**

**Mississippi State University
Department of Agricultural Economics
Budget Report 2021-06**

November 2021

Foreword

This report is designed to provide necessary planning data to farmers, research and extension staffs, lending agencies, and others in agriculture. Readers are cautioned that returns presented are labeled "**Returns Above Specified Expenses.**" Estimated costs for land, management, and general farm overhead are not included in this report. The exception is unallocated labor, which is included. "**Returns Above Direct Expenses**" should be used in making 2022 planning decisions. This would be a one-year short-run decision. Decisions beyond one year, or long-run decisions, should be based on "**Returns Above Specified Expenses.**"

Acknowledgments

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

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

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

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

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2022 Planning Budgets

Budgets for Agricultural Enterprises

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

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

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

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

Methods and Procedures

Production Practices

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

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

Machinery

Machinery manufacturers form the basis for machinery prices used in these publications. Prices by size of equipment are determined from the most common sales in each category as reported by machinery dealers. Prices used in the budgets reflect prices paid by farmers in 2021. (Appendix Tables 1, 2, and 3).

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

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

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

Estimates of Direct Costs

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

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

$$RPA = RPH \times PR$$

where:

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

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

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

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

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

Estimates of Fixed Costs

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

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

where:

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

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

where:

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

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

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

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

where:

CRCPH = Capital recovery charge per hour

HAU = Hours of annual use

CRCPA = Capital recovery charge per acre

PR = Performance rate

Estimates of Returns

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

To estimate returns, a price for the commodity must be used. Individual producers must determine their own expected price for the commodity. Commodity prices used in this report represent the higher of a calculated forward contract price or the loan rate that was applicable for the 2021 crop year. Government payments for commodities are not included in the budgets except to the extent that they are included in loan rates.

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

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8 through 10. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

Net Returns

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

Enterprise Budgets

Table 1.A Estimated costs per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1000.0000 | 110.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Engenia | oz | 0.83 | 25.6000 | 21.25 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed B3XF | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.9288 | 14.19 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.3579 | 3.24 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | hour | 15.29 | 1.0008 | 15.31 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 14.3433 | 33.86 | _____ |
| Self-Propelled | gal | 2.36 | 4.4973 | 10.58 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 11.57 | 1.0000 | 11.57 | _____ |
| Tractors | acre | 9.40 | 1.0000 | 9.40 | _____ |
| Self-Propelled | acre | 14.22 | 1.0000 | 14.22 | _____ |
| INTEREST ON OP. CAP. | acre | 10.53 | 1.0000 | 10.53 | _____ |
| TOTAL DIRECT EXPENSES | | | | 690.61 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 16.28 | 1.0000 | 16.28 | _____ |
| Tractors | acre | 55.45 | 1.0000 | 55.45 | _____ |
| Self-Propelled | acre | 57.17 | 1.0000 | 57.17 | _____ |
| TOTAL FIXED EXPENSES | | | | 128.90 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 819.51 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year

Table 1.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1000.0000 | 854.40 | _____ |
| Cotton Seed | lb | 0.11 | 1350.0000 | 148.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1002.90 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 110.00 | 1.0000 | 110.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 78.04 | 1.0000 | 78.04 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.6051 | 5.48 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.2510 | 19.11 | _____ |
| UNALLOCATED LABOR | hour | 15.29 | 1.0008 | 15.31 | _____ |
| DIESEL FUEL | gal | 2.36 | 18.8406 | 44.44 | _____ |
| REPAIR & MAINTENANCE | acre | 35.19 | 1.0000 | 35.19 | _____ |
| INTEREST ON OP. CAP. | acre | 10.53 | 1.0000 | 10.53 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 690.61 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 312.29 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 128.90 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 819.51 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 183.39 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year

Table 1.C Estimated resource use for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 8R-38 | MFWD 300 | 0.080 | 1.00 | Nov | | 0.08 | 0.08 | 0.08 | 0.06 |
| Bed/Disk (Hipper)Rd | 8R-38 | MFWD 300 | 0.074 | 0.50 | Nov | | 0.03 | 0.03 | 0.03 | 0.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Apr | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Rigid | 26' | MFWD 300 | 0.059 | 1.00 | May | | 0.05 | 0.05 | 0.05 | 0.04 |
| Plant - Folding | 8R-38 | MFWD 300 | 0.074 | 1.00 | May | | 0.07 | 0.07 | 0.14 | 0.05 |
| Cotton Seed B3XF | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Jun | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 8R-38 | MFWD 300 | 0.066 | 1.00 | Jun | | 0.06 | 0.06 | 0.10 | 0.05 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker | 6R-38 (355) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Boll Buggy | 6R-38 (355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.17 | 0.13 |
| Module Builder | 6R-38 (355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1000.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 1.25 | 0.92 | 1.85 | 1.00 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | 40.83 |
| Bed-Subsoil Fold | 8R-38 | | 2.94 | 2.25 | 2.22 | | | 0.26 | 7.67 | 7.11 |
| Bed/Disk (Hipper)Rd | 8R-38 | | 1.35 | 0.59 | 1.02 | | | 0.10 | 3.06 | 2.73 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | 0.68 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.15 | 7.43 | 5.86 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | 31.00 |
| Row Cond Rigid | 26' | | 2.18 | 0.88 | 1.64 | | | 0.08 | 4.78 | 4.66 |
| Plant - Folding | 8R-38 | | 2.72 | 2.27 | 2.73 | | | 0.14 | 7.86 | 7.14 |
| Cotton Seed B3XF | thous | 116.55 | | | | | | 2.04 | 118.59 | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | 10.81 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | 3.58 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | 4.35 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.11 | 7.39 | 5.86 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | 30.82 |
| Spray (Direct/Layby) | 8R-38 | | 2.44 | 1.17 | 2.14 | | | 0.08 | 5.83 | 4.53 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | 10.77 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | 3.57 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | 7.49 |
| Incidental Pest | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | 1.23 |
| Cotton Picker | 6R-38(355) | | 7.43 | 12.52 | 6.29 | | | 0.08 | 26.32 | 46.46 |
| Boll Buggy | 6R-38(355) | | 6.28 | 3.05 | 4.73 | | | 0.04 | 14.10 | 12.76 |
| Module Builder | 6R-38(355) | | 6.28 | 3.23 | 6.29 | | | 0.05 | 15.85 | 13.10 |
| Gin & Haul | lb | 110.00 | | | | | | 0.32 | 110.32 | 110.32 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 |
| TOTALS | | 560.55 | 44.44 | 35.19 | 39.90 | 0.00 | 10.53 | 690.61 | 128.90 | 819.51 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 1.E Estimated monthly income and expense flows per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1002.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 110.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 44.86 | 24.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.24 | 0.00 | 0.00 | 0.00 | 0.57 | 2.49 | 5.51 | 5.20 | 1.14 | 0.57 | 0.85 | 20.33 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.29 | 0.00 | 0.00 | 0.00 | 0.37 | 2.83 | 5.64 | 5.64 | 0.74 | 0.37 | 0.56 | 24.00 |
| REPAIR & MAINTENANCE | 2.84 | 0.00 | 0.00 | 0.00 | 0.20 | 1.96 | 3.55 | 3.33 | 0.40 | 0.20 | 0.30 | 22.41 |
| INTEREST ON OP. CAP. | 3.50 | 0.00 | 0.00 | 0.00 | 0.26 | 0.77 | 3.70 | 1.25 | 0.33 | 0.07 | 0.13 | 0.52 |
| TOTAL DIRECT EXPENSES | 103.44 | 0.00 | 0.00 | 0.00 | 11.08 | 38.43 | 214.40 | 87.55 | 28.37 | 8.61 | 21.47 | 177.26 |
| NET INCOME | -103.44 | 0.00 | 0.00 | 0.00 | -11.08 | -38.43 | -214.40 | -87.55 | -28.37 | -8.61 | -21.47 | 825.64 |
| NET INCOME TO DATE | -103.44 | -103.44 | -103.44 | -103.44 | -114.52 | -152.95 | -367.35 | -454.90 | -483.27 | -491.88 | -513.35 | 312.29 |

Note: Cost of production estimates are based on 2021 input price.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|---------|------|------|------|------|------|------|------|------|------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 500.00 | lb | -166 | -145 | -123 | -102 | -81 | -59 | -38 | -17 | 4 | 25 | 47 |
| | | | -295 | -274 | -252 | -231 | -210 | -188 | -167 | -145 | -124 | -103 | -81 |
| 60 | 600.00 | lb | -113 | -87 | -62 | -36 | -10 | 14 | 40 | 65 | 91 | 117 | 142 |
| | | | -242 | -216 | -191 | -165 | -139 | -114 | -88 | -62 | -37 | -11 | 13 |
| 70 | 700.00 | lb | -60 | -30 | -0 | 29 | 59 | 89 | 118 | 148 | 178 | 208 | 238 |
| | | | -189 | -159 | -129 | -99 | -69 | -39 | -9 | 19 | 49 | 79 | 109 |
| 80 | 800.00 | lb | -7 | 26 | 60 | 95 | 129 | 163 | 197 | 231 | 266 | 300 | 334 |
| | | | -136 | -102 | -67 | -33 | 0 | 34 | 68 | 102 | 137 | 171 | 205 |
| 90 | 900.00 | lb | 45 | 84 | 122 | 160 | 199 | 237 | 276 | 314 | 353 | 391 | 430 |
| | | | -83 | -44 | -6 | 32 | 70 | 108 | 147 | 185 | 224 | 262 | 301 |
| 100 | 1000.00 | lb | 98 | 141 | 184 | 226 | 269 | 312 | 355 | 397 | 440 | 483 | 525 |
| | | | -30 | 12 | 55 | 97 | 140 | 183 | 226 | 268 | 311 | 354 | 396 |
| 110 | 1100.00 | lb | 151 | 198 | 245 | 292 | 339 | 386 | 433 | 480 | 527 | 574 | 621 |
| | | | 22 | 69 | 116 | 163 | 210 | 257 | 304 | 351 | 398 | 445 | 492 |
| 120 | 1200.00 | lb | 204 | 256 | 307 | 358 | 409 | 461 | 512 | 563 | 614 | 666 | 717 |
| | | | 75 | 127 | 178 | 229 | 280 | 332 | 383 | 434 | 485 | 537 | 588 |
| 130 | 1300.00 | lb | 257 | 313 | 368 | 424 | 479 | 535 | 591 | 646 | 702 | 757 | 813 |
| | | | 128 | 184 | 240 | 295 | 351 | 406 | 462 | 517 | 573 | 628 | 684 |
| 140 | 1400.00 | lb | 310 | 370 | 430 | 490 | 550 | 609 | 669 | 729 | 789 | 849 | 908 |
| | | | 181 | 241 | 301 | 361 | 421 | 481 | 540 | 600 | 660 | 720 | 780 |
| 150 | 1500.00 | lb | 363 | 428 | 492 | 556 | 620 | 684 | 748 | 812 | 876 | 940 | 1004 |
| | | | 235 | 299 | 363 | 427 | 491 | 555 | 619 | 683 | 747 | 811 | 875 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 2.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 900.0000 | 99.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 18.4000 | 38.64 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Engenia | oz | 0.83 | 25.6000 | 21.25 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed B3XF | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.7365 | 11.25 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.3222 | 2.91 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 0.8469 | 12.96 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 11.3731 | 26.85 | _____ |
| Self-Propelled | gal | 2.36 | 4.4973 | 10.58 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.06 | 1.0000 | 9.06 | _____ |
| Tractors | acre | 7.45 | 1.0000 | 7.45 | _____ |
| Self-Propelled | acre | 14.22 | 1.0000 | 14.22 | _____ |
| INTEREST ON OP. CAP. | acre | 9.49 | 1.0000 | 9.49 | _____ |
| TOTAL DIRECT EXPENSES | | | | 639.36 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 12.77 | 1.0000 | 12.77 | _____ |
| Tractors | acre | 43.97 | 1.0000 | 43.97 | _____ |
| Self-Propelled | acre | 57.17 | 1.0000 | 57.17 | _____ |
| TOTAL FIXED EXPENSES | | | | 113.91 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 753.27 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 900.0000 | 768.96 | _____ |
| Cotton Seed | lb | 0.11 | 1215.0000 | 133.65 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 902.61 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 99.00 | 1.0000 | 99.00 | _____ |
| FERTILIZERS | acre | 78.09 | 1.0000 | 78.09 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 78.04 | 1.0000 | 78.04 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.5694 | 5.15 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.0586 | 16.17 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 0.8469 | 12.96 | _____ |
| DIESEL FUEL | gal | 2.36 | 15.8705 | 37.43 | _____ |
| REPAIR & MAINTENANCE | acre | 30.73 | 1.0000 | 30.73 | _____ |
| INTEREST ON OP. CAP. | acre | 9.49 | 1.0000 | 9.49 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 639.36 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 263.25 | _____ |
| TOTAL FIXED EXPENSES | | | | | |
| | | | | 113.91 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 753.27 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 149.34 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Row Cond Rigid | 26' | MFWD 300 | 0.059 | 1.00 | May | | 0.05 | 0.05 | 0.05 | 0.04 |
| NT Plant-Folding | 8R-38 | MFWD 300 | 0.077 | 1.00 | May | | 0.07 | 0.07 | 0.15 | 0.06 |
| Cotton Seed B3XF | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Jun | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 18.4000 | | | | |
| Spray (Direct/Layby) | 8R-38 | MFWD 300 | 0.066 | 1.00 | Jun | | 0.06 | 0.06 | 0.10 | 0.05 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker | 6R-38(355) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Boll Buggy | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.17 | 0.13 |
| Module Builder | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 900.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 1.05 | 0.73 | 1.62 | 0.84 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 2.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|--------|-------|-------|-------|-------|-------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | 40.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | 0.68 |
| Row Cond Rigid | 26' | | 2.18 | 0.88 | 1.64 | | | 0.08 | 4.78 | 4.66 |
| NT Plant-Folding | 8R-38 | | 2.83 | 2.61 | 2.84 | | | 0.14 | 8.42 | 7.85 |
| Cotton Seed B3XF | thous | 116.55 | | | | | | 2.04 | 118.59 | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | 10.81 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | 3.58 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | 4.35 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.11 | 7.39 | 5.86 |
| UAN (32%) | gal | 38.64 | | | | | | 0.56 | 39.20 | 39.20 |
| Spray (Direct/Layby) | 8R-38 | | 2.44 | 1.17 | 2.14 | | | 0.08 | 5.83 | 4.53 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | 10.77 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | 3.57 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | 7.49 |
| Incidental Pest | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | 1.23 |
| Cotton Picker | 6R-38(355) | | 7.43 | 12.52 | 6.29 | | | 0.08 | 26.32 | 46.46 |
| Boll Buggy | 6R-38(355) | | 6.28 | 3.05 | 4.73 | | | 0.04 | 14.10 | 12.76 |
| Module Builder | 6R-38(355) | | 6.28 | 3.23 | 6.29 | | | 0.05 | 15.85 | 13.10 |
| Gin & Haul | lb | 99.00 | | | | | | 0.29 | 99.29 | 99.29 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 |
| TOTALS | | | 527.43 | 37.43 | 30.73 | 34.28 | 0.00 | 9.49 | 639.36 | 113.91 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 2.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 902.61 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 44.86 | 24.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 5.62 | 5.20 | 1.14 | 0.57 | 0.85 | 20.33 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 5.75 | 5.64 | 0.74 | 0.37 | 0.56 | 24.00 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 3.89 | 3.33 | 0.40 | 0.20 | 0.30 | 22.41 |
| INTEREST ON OP. CAP. | 3.14 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 3.70 | 1.37 | 0.33 | 0.07 | 0.13 | 0.49 |
| TOTAL DIRECT EXPENSES | 92.71 | 0.00 | 0.00 | 0.00 | 11.08 | 0.00 | 214.96 | 95.93 | 28.37 | 8.61 | 21.47 | 166.23 |
| NET INCOME | -92.71 | 0.00 | 0.00 | 0.00 | -11.08 | 0.00 | -214.96 | -95.93 | -28.37 | -8.61 | -21.47 | 736.38 |
| NET INCOME TO DATE | -92.71 | -92.71 | -92.71 | -92.71 | -103.79 | -103.79 | -318.75 | -414.68 | -443.05 | -451.66 | -473.13 | 263.25 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 2.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|---------|------|------|------|------|------|------|------|------|------|-----|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 450.00 | lb | -167 | -148 | -129 | -110 | -90 | -71 | -52 | -33 | -13 | 5 | 24 |
| | | | -281 | -262 | -243 | -223 | -204 | -185 | -166 | -147 | -127 | -108 | -89 |
| 60 | 540.00 | lb | -119 | -96 | -73 | -50 | -27 | -4 | 18 | 41 | 64 | 87 | 110 |
| | | | -233 | -210 | -187 | -164 | -141 | -118 | -95 | -72 | -49 | -26 | -3 |
| 70 | 630.00 | lb | -72 | -45 | -18 | 8 | 35 | 62 | 89 | 116 | 143 | 170 | 196 |
| | | | -186 | -159 | -132 | -105 | -78 | -51 | -24 | 2 | 29 | 56 | 83 |
| 80 | 720.00 | lb | -24 | 6 | 37 | 67 | 98 | 129 | 160 | 190 | 221 | 252 | 283 |
| | | | -138 | -107 | -76 | -46 | -15 | 15 | 46 | 76 | 107 | 138 | 169 |
| 90 | 810.00 | lb | 23 | 57 | 92 | 127 | 161 | 196 | 230 | 265 | 300 | 334 | 369 |
| | | | -90 | -56 | -21 | 13 | 47 | 82 | 116 | 151 | 186 | 220 | 255 |
| 100 | 900.00 | lb | 71 | 109 | 147 | 186 | 224 | 263 | 301 | 340 | 378 | 417 | 455 |
| | | | -42 | -4 | 33 | 72 | 110 | 149 | 187 | 226 | 264 | 303 | 341 |
| 110 | 990.00 | lb | 118 | 161 | 203 | 245 | 287 | 330 | 372 | 414 | 457 | 499 | 541 |
| | | | 4 | 47 | 89 | 131 | 174 | 216 | 258 | 300 | 343 | 385 | 427 |
| 120 | 1080.00 | lb | 166 | 212 | 258 | 304 | 351 | 397 | 443 | 489 | 535 | 581 | 627 |
| | | | 52 | 98 | 144 | 190 | 237 | 283 | 329 | 375 | 421 | 467 | 513 |
| 130 | 1170.00 | lb | 214 | 264 | 314 | 364 | 414 | 464 | 514 | 564 | 614 | 664 | 714 |
| | | | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
| 140 | 1260.00 | lb | 261 | 315 | 369 | 423 | 477 | 531 | 584 | 638 | 692 | 746 | 800 |
| | | | 148 | 201 | 255 | 309 | 363 | 417 | 471 | 524 | 578 | 632 | 686 |
| 150 | 1350.00 | lb | 309 | 367 | 425 | 482 | 540 | 598 | 655 | 713 | 771 | 828 | 886 |
| | | | 195 | 253 | 311 | 368 | 426 | 484 | 541 | 599 | 657 | 714 | 772 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 3.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1000.0000 | 110.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Engenia | oz | 0.83 | 25.6000 | 21.25 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed B3XF | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4268 | 6.52 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1235 | 1.11 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.32 | 0.5992 | 9.18 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 6.5911 | 15.55 | _____ |
| Self-Propelled | gal | 2.36 | 5.7832 | 13.62 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 8.18 | 1.0000 | 8.18 | _____ |
| Tractors | acre | 4.30 | 1.0000 | 4.30 | _____ |
| Self-Propelled | acre | 24.69 | 1.0000 | 24.69 | _____ |
| INTEREST ON OP. CAP. | acre | 10.22 | 1.0000 | 10.22 | _____ |
| TOTAL DIRECT EXPENSES | | | | 661.08 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.66 | 1.0000 | 10.66 | _____ |
| Tractors | acre | 25.49 | 1.0000 | 25.49 | _____ |
| Self-Propelled | acre | 96.04 | 1.0000 | 96.04 | _____ |
| TOTAL FIXED EXPENSES | | | | 132.19 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 793.27 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1000.0000 | 854.40 | _____ |
| Cotton Seed | lb | 0.11 | 1350.0000 | 148.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1002.90 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 110.00 | 1.0000 | 110.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 78.04 | 1.0000 | 78.04 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3708 | 3.35 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.7490 | 11.44 | _____ |
| UNALLOCATED LABOR | hour | 15.32 | 0.5992 | 9.18 | _____ |
| DIESEL FUEL | gal | 2.36 | 12.3744 | 29.17 | _____ |
| REPAIR & MAINTENANCE | acre | 37.17 | 1.0000 | 37.17 | _____ |
| INTEREST ON OP. CAP. | acre | 10.22 | 1.0000 | 10.22 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 661.08 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 341.82 | _____ |
| TOTAL FIXED EXPENSES | | | | | |
| | | | | 132.19 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 793.27 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 209.63 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 3.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 12R-38 | MFWD 300 | 0.053 | 1.00 | Nov | | 0.05 | 0.05 | 0.05 | 0.04 |
| Bed/Disk (Hipper) | 12R-38 | MFWD 300 | 0.049 | 0.50 | Nov | | 0.02 | 0.02 | 0.02 | 0.01 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Apr | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Plant - Folding | 12R-38 | MFWD 300 | 0.049 | 1.00 | May | | 0.04 | 0.04 | 0.09 | 0.03 |
| Cotton Seed B3XF | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38 (500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1000.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 0.74 | 0.42 | 1.11 | 0.59 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Bed-Subsoil Fold | 12R-38 | | 1.96 | 1.90 | 1.48 | | | 0.19 | 5.53 | 5.38 | 10.91 |
| Bed/Disk (Hipper) | 12R-38 | | 0.90 | 0.57 | 0.68 | | | 0.08 | 2.23 | 2.25 | 4.48 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.10 | 4.97 | 3.95 | 8.92 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | | 31.00 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 | 7.11 |
| Plant - Folding | 12R-38 | | 1.81 | 2.06 | 1.82 | | | 0.10 | 5.79 | 5.73 | 11.52 |
| Cotton Seed B3XF | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | | 10.81 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | | 3.58 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 | 8.89 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | | 30.82 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 | 7.23 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | | 10.77 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | | 3.57 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 | 125.20 |
| Gin & Haul | lb | 110.00 | | | | | | 0.32 | 110.32 | | 110.32 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| TOTALS | | 560.55 | 29.17 | 37.17 | 23.97 | 0.00 | 10.22 | 661.08 | 132.19 | 793.27 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 3.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, conservation tillage
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1002.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 110.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 44.86 | 24.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 2.16 | 0.00 | 0.00 | 0.00 | 0.57 | 1.65 | 4.08 | 3.64 | 1.14 | 0.57 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 2.86 | 0.00 | 0.00 | 0.00 | 0.37 | 1.88 | 4.04 | 3.87 | 0.74 | 0.37 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 2.47 | 0.00 | 0.00 | 0.00 | 0.20 | 1.34 | 3.19 | 2.47 | 0.40 | 0.20 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.41 | 0.00 | 0.00 | 0.00 | 0.26 | 0.72 | 3.64 | 1.19 | 0.33 | 0.07 | 0.13 | 0.47 |
| TOTAL DIRECT EXPENSES | 100.47 | 0.00 | 0.00 | 0.00 | 11.08 | 35.97 | 210.95 | 83.30 | 28.37 | 8.61 | 21.47 | 160.86 |
| NET INCOME | -100.47 | 0.00 | 0.00 | 0.00 | -11.08 | -35.97 | -210.95 | -83.30 | -28.37 | -8.61 | -21.47 | 842.04 |
| NET INCOME TO DATE | -100.47 | -100.47 | -100.47 | -100.47 | -111.55 | -147.52 | -358.47 | -441.77 | -470.14 | -478.75 | -500.22 | 341.82 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 3.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | | | PERCENT | | | | | | | | | | |
|-------------|---------|------|---------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|
| | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Cotton Lint | | | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 500.00 | lb | -137 -269 | -115 -247 | -94 -226 | -72 -205 | -51 -183 | -30 -162 | -8 -141 | 12 -119 | 33 -98 | 55 -76 | 76 -55 |
| 60 | 600.00 | lb | -83 -216 | -58 -190 | -32 -164 | -7 -139 | 18 -113 | 44 -88 | 69 -62 | 95 -36 | 121 -11 | 146 14 | 172 40 |
| 70 | 700.00 | lb | -30 -163 | -1 -133 | 28 -103 | 58 -73 | 88 -43 | 118 -13 | 148 16 | 178 46 | 208 76 | 238 106 | 268 135 |
| 80 | 800.00 | lb | 22 -110 | 56 -75 | 90 -41 | 124 -7 | 158 26 | 193 60 | 227 94 | 261 129 | 295 163 | 329 197 | 363 231 |
| 90 | 900.00 | lb | 75 -57 | 113 -18 | 152 19 | 190 58 | 228 96 | 267 135 | 305 173 | 344 212 | 382 250 | 421 289 | 459 327 |
| 100 | 1000.00 | lb | 128 -3 | 170 38 | 213 81 | 256 124 | 299 166 | 341 209 | 384 252 | 427 295 | 469 337 | 512 380 | 555 423 |
| 110 | 1100.00 | lb | 181 49 | 228 96 | 275 143 | 322 190 | 369 237 | 416 284 | 463 331 | 510 378 | 557 425 | 604 472 | 651 518 |
| 120 | 1200.00 | lb | 234 102 | 285 153 | 336 204 | 388 255 | 439 307 | 490 358 | 541 409 | 593 460 | 644 512 | 695 563 | 746 614 |
| 130 | 1300.00 | lb | 287 155 | 342 210 | 398 266 | 453 321 | 509 377 | 565 432 | 620 488 | 676 543 | 731 599 | 787 654 | 842 710 |
| 140 | 1400.00 | lb | 340 208 | 400 268 | 460 327 | 519 387 | 579 447 | 639 507 | 699 567 | 759 626 | 818 686 | 878 746 | 938 806 |
| 150 | 1500.00 | lb | 393 261 | 457 325 | 521 389 | 585 453 | 649 517 | 713 581 | 777 645 | 842 709 | 906 773 | 970 837 | 1034 902 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 4.A Estimated costs per acre
Cotton, 12R-38" solid, no-till
B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 900.0000 | 99.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 18.4000 | 38.64 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Engenia | oz | 0.83 | 25.6000 | 21.25 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed B3XF | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2987 | 4.56 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0998 | 0.90 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.31 | 0.4967 | 7.61 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.6137 | 10.88 | _____ |
| Self-Propelled | gal | 2.36 | 5.7832 | 13.62 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.99 | 1.0000 | 5.99 | _____ |
| Tractors | acre | 3.01 | 1.0000 | 3.01 | _____ |
| Self-Propelled | acre | 24.69 | 1.0000 | 24.69 | _____ |
| INTEREST ON OP. CAP. | acre | 9.33 | 1.0000 | 9.33 | _____ |
| TOTAL DIRECT EXPENSES | | | | 615.18 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 7.39 | 1.0000 | 7.39 | _____ |
| Tractors | acre | 17.85 | 1.0000 | 17.85 | _____ |
| Self-Propelled | acre | 96.04 | 1.0000 | 96.04 | _____ |
| TOTAL FIXED EXPENSES | | | | 121.28 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 736.46 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 900.0000 | 768.96 | _____ |
| Cotton Seed | lb | 0.11 | 1215.0000 | 133.65 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 902.61 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 99.00 | 1.0000 | 99.00 | _____ |
| FERTILIZERS | acre | 78.09 | 1.0000 | 78.09 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 78.04 | 1.0000 | 78.04 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3470 | 3.14 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.6209 | 9.48 | _____ |
| UNALLOCATED LABOR | hour | 15.31 | 0.4967 | 7.61 | _____ |
| DIESEL FUEL | gal | 2.36 | 10.3969 | 24.50 | _____ |
| REPAIR & MAINTENANCE | acre | 33.69 | 1.0000 | 33.69 | _____ |
| INTEREST ON OP. CAP. | acre | 9.33 | 1.0000 | 9.33 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 615.18 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 287.43 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 121.28 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 736.46 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 166.15 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 4.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| NT Plant-Folding | 12R-38 | MFWD 300 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.10 | 0.04 |
| Cotton Seed B3XF | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 18.4000 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38 (500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 900.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 0.62 | 0.29 | 0.96 | 0.49 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 | 7.11 |
| NT Plant-Folding | 12R-38 | | 1.88 | 2.39 | 1.89 | | | 0.11 | 6.27 | 6.40 | 12.67 |
| Cotton Seed B3XF | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | | 10.81 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | | 3.58 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 | 8.89 |
| UAN (32%) | gal | 38.64 | | | | | | 0.56 | 39.20 | | 39.20 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 | 7.23 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | | 10.77 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | | 3.57 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 | 125.20 |
| Gin & Haul | lb | 99.00 | | | | | | 0.29 | 99.29 | | 99.29 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| TOTALS | | 527.43 | 24.50 | 33.69 | 20.23 | 0.00 | 9.33 | 615.18 | 121.28 | 736.46 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 4.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 902.61 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 44.86 | 24.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 4.15 | 3.64 | 1.14 | 0.57 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 4.11 | 3.87 | 0.74 | 0.37 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 3.52 | 2.47 | 0.40 | 0.20 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.14 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 3.65 | 1.31 | 0.33 | 0.07 | 0.13 | 0.44 |
| TOTAL DIRECT EXPENSES | 92.71 | 0.00 | 0.00 | 0.00 | 11.08 | 0.00 | 211.43 | 91.68 | 28.37 | 8.61 | 21.47 | 149.83 |
| NET INCOME | -92.71 | 0.00 | 0.00 | 0.00 | -11.08 | 0.00 | -211.43 | -91.68 | -28.37 | -8.61 | -21.47 | 752.78 |
| NET INCOME TO DATE | -92.71 | -92.71 | -92.71 | -92.71 | -103.79 | -103.79 | -315.22 | -406.90 | -435.27 | -443.88 | -465.35 | 287.43 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 4.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 B3XF variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 450.00 | lb | -143 -264 | -124 -245 | -105 -226 | -85 -207 | -66 -187 | -47 -168 | -28 -149 | -8 -130 | 10 -111 | 29 -91 | 48 -72 |
| 60 | 540.00 | lb | -95 -217 | -72 -193 | -49 -170 | -26 -147 | -3 -124 | 19 -101 | 42 -78 | 65 -55 | 88 -32 | 111 -9 | 134 13 |
| 70 | 630.00 | lb | -48 -169 | -21 -142 | 5 -115 | 32 -88 | 59 -61 | 86 -34 | 113 -7 | 140 19 | 167 45 | 194 72 | 221 99 |
| 80 | 720.00 | lb | -0 -121 | 30 -90 | 61 -60 | 91 -29 | 122 1 | 153 32 | 184 62 | 215 93 | 245 124 | 276 155 | 307 186 |
| 90 | 810.00 | lb | 47 -73 | 82 -39 | 116 -4 | 151 29 | 185 64 | 220 99 | 255 133 | 289 168 | 324 202 | 358 237 | 393 272 |
| 100 | 900.00 | lb | 95 -26 | 133 12 | 172 50 | 210 89 | 248 127 | 287 166 | 325 204 | 364 243 | 402 281 | 441 319 | 479 358 |
| 110 | 990.00 | lb | 142 21 | 185 63 | 227 106 | 269 148 | 312 190 | 354 233 | 396 275 | 438 317 | 481 359 | 523 402 | 565 444 |
| 120 | 1080.00 | lb | 190 69 | 236 115 | 282 161 | 329 207 | 375 253 | 421 300 | 467 346 | 513 392 | 559 438 | 605 484 | 652 530 |
| 130 | 1170.00 | lb | 238 117 | 288 167 | 338 217 | 388 267 | 438 317 | 488 367 | 538 417 | 588 467 | 638 516 | 688 566 | 738 616 |
| 140 | 1260.00 | lb | 286 164 | 339 218 | 393 272 | 447 326 | 501 380 | 555 434 | 609 487 | 662 541 | 716 595 | 770 649 | 824 703 |
| 150 | 1350.00 | lb | 333 212 | 391 270 | 449 327 | 506 385 | 564 443 | 622 500 | 679 558 | 737 616 | 795 674 | 852 731 | 910 789 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 5.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1200.0000 | 132.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Engenia | oz | 0.83 | 25.6000 | 21.25 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.5000 | 22.50 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed B3XF | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4268 | 6.52 | _____ |
| Self-Propelled | hour | 15.27 | 0.3309 | 5.05 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2036 | 1.84 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1235 | 1.11 | _____ |
| Self-Propelled | hour | 9.06 | 0.2516 | 2.28 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 0.6062 | 9.28 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 6.5911 | 15.55 | _____ |
| Self-Propelled | gal | 2.36 | 5.8626 | 13.81 | _____ |
| 1/4-mi. Pivot Irr. | gal | 2.36 | 11.2011 | 26.43 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 8.18 | 1.0000 | 8.18 | _____ |
| Tractors | acre | 4.30 | 1.0000 | 4.30 | _____ |
| Self-Propelled | acre | 24.80 | 1.0000 | 24.80 | _____ |
| 1/4-mi. Pivot Irr. | acre | 21.95 | 1.0000 | 21.95 | _____ |
| INTEREST ON OP. CAP. | acre | 11.02 | 1.0000 | 11.02 | _____ |
| TOTAL DIRECT EXPENSES | | | | 742.17 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.66 | 1.0000 | 10.66 | _____ |
| Tractors | acre | 25.49 | 1.0000 | 25.49 | _____ |
| Self-Propelled | acre | 96.67 | 1.0000 | 96.67 | _____ |
| 1/4-mi. Pivot Irr. | acre | 68.70 | 1.0000 | 68.70 | _____ |
| TOTAL FIXED EXPENSES | | | | 201.52 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 943.69 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area , Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1200.0000 | 1025.28 | _____ |
| Cotton Seed | lb | 0.11 | 1620.0000 | 178.20 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1203.48 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 132.00 | 1.0000 | 132.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 78.04 | 1.0000 | 78.04 | _____ |
| INSECTICIDES | acre | 56.46 | 1.0000 | 56.46 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3752 | 3.39 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.2036 | 1.84 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.7578 | 11.57 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 0.6062 | 9.28 | _____ |
| DIESEL FUEL | gal | 2.36 | 23.6549 | 55.79 | _____ |
| REPAIR & MAINTENANCE | acre | 59.23 | 1.0000 | 59.23 | _____ |
| INTEREST ON OP. CAP. | acre | 11.02 | 1.0000 | 11.02 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 742.17 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 461.31 | _____ |
| TOTAL FIXED EXPENSES | | | | | |
| | | | | 201.52 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 943.69 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 259.79 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 12R-38 | MFWD 300 | 0.053 | 1.00 | Nov | | 0.05 | 0.05 | 0.05 | 0.04 |
| Bed/Disk (Hipper) | 12R-38 | MFWD 300 | 0.049 | 0.50 | Nov | | 0.02 | 0.02 | 0.02 | 0.01 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Apr | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Plant - Folding | 12R-38 | MFWD 300 | 0.049 | 1.00 | May | | 0.04 | 0.04 | 0.09 | 0.03 |
| Cotton Seed B3XF | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Engenia | oz | | | | | 12.8000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.50 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.02 | 0.03 | 0.02 |
| IncidentalPestTrt\$15 | acre | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38 (500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1200.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| 1/4-mi. Pivot Irr. | acre | | | | Jan | 1.0000 | | | 0.20 | |
| TOTALS | | | | | | | 0.75 | 0.42 | 1.33 | 0.60 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Bed-Subsoil Fold | 12R-38 | | 1.96 | 1.90 | 1.48 | | | 0.19 | 5.53 | 5.38 | 10.91 |
| Bed/Disk (Hipper) | 12R-38 | | 0.90 | 0.57 | 0.68 | | | 0.08 | 2.23 | 2.25 | 4.48 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.10 | 4.97 | 3.95 | 8.92 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | | 31.00 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 | 7.11 |
| Plant - Folding | 12R-38 | | 1.81 | 2.06 | 1.82 | | | 0.10 | 5.79 | 5.73 | 11.52 |
| Cotton Seed B3XF | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | | 10.81 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | | 3.58 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 | 8.89 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | | 30.82 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 | 7.23 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | | 10.77 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | | 3.57 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.56 | 0.31 | 0.84 | | | 0.02 | 1.73 | 1.89 | 3.62 |
| IncidentalPestTrt\$15 | acre | 22.50 | | | | | | 0.26 | 22.76 | | 22.76 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 | 125.20 |
| Gin & Haul | lb | 132.00 | | | | | | 0.39 | 132.39 | | 132.39 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| 1/4-mi. Pivot Irr. | acre | | 26.43 | 21.95 | 1.84 | | | 0.64 | 50.86 | 68.70 | 119.56 |
| TOTALS | | 590.05 | 55.79 | 59.23 | 26.08 | 0.00 | 11.02 | 742.17 | 201.52 | 943.69 | |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 5.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1203.48 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 132.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 44.86 | 24.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 29.90 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 2.16 | 0.00 | 0.00 | 0.00 | 0.57 | 1.65 | 5.42 | 3.79 | 1.61 | 0.72 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 2.86 | 0.00 | 0.00 | 0.00 | 0.37 | 1.88 | 4.04 | 11.80 | 11.50 | 8.30 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 2.47 | 0.00 | 0.00 | 0.00 | 0.20 | 1.34 | 3.19 | 20.94 | 2.50 | 1.69 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.41 | 0.00 | 0.00 | 0.00 | 0.26 | 0.72 | 3.66 | 1.58 | 0.57 | 0.15 | 0.13 | 0.54 |
| TOTAL DIRECT EXPENSES | 100.47 | 0.00 | 0.00 | 0.00 | 11.08 | 35.97 | 212.31 | 110.24 | 49.44 | 18.26 | 21.47 | 182.93 |
| NET INCOME | -100.47 | 0.00 | 0.00 | 0.00 | -11.08 | -35.97 | -212.31 | -110.24 | -49.44 | -18.26 | -21.47 | 1020.55 |
| NET INCOME TO DATE | -100.47 | -100.47 | -100.47 | -100.47 | -111.55 | -147.52 | -359.83 | -470.07 | -519.51 | -537.77 | -559.24 | 461.31 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 5.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 B3XF, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|-------------|---------|------|---------------|-------------|-------------|-------------|-------------|------------|------------|-------------|-------------|--------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Cotton Lint | | | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 600.00 | lb | -113 -314 | -87 -289 | -62 -263 | -36 -237 | -10 -212 | 14 -186 | 40 -161 | 66 -135 | 91 -109 | 117 -84 | 143 -58 |
| 60 | 720.00 | lb | -49 -251 | -18 -220 | 11 -189 | 42 -158 | 73 -128 | 104 -97 | 134 -66 | 165 -35 | 196 -5 | 227 25 | 257 56 |
| 70 | 840.00 | lb | 14 -187 | 49 -151 | 85 -115 | 121 -79 | 157 -43 | 193 -8 | 229 27 | 265 63 | 301 99 | 336 135 | 372 171 |
| 80 | 960.00 | lb | 77 -123 | 118 -82 | 159 -41 | 200 -0 | 241 40 | 282 81 | 323 122 | 364 163 | 405 204 | 446 245 | 487 286 |
| 90 | 1080.00 | lb | 141 -60 | 187 -14 | 233 32 | 279 78 | 325 124 | 372 170 | 418 216 | 464 262 | 510 308 | 556 355 | 602 401 |
| 100 | 1200.00 | lb | 204 3 | 256 54 | 307 105 | 358 157 | 410 208 | 461 259 | 512 311 | 563 362 | 615 413 | 666 464 | 717 516 |
| 110 | 1320.00 | lb | 268 67 | 325 123 | 381 179 | 437 236 | 494 292 | 550 349 | 606 405 | 663 461 | 719 518 | 776 574 | 832 631 |
| 120 | 1440.00 | lb | 332 130 | 393 192 | 455 253 | 516 315 | 578 376 | 639 438 | 701 499 | 762 561 | 824 622 | 885 684 | 947 745 |
| 130 | 1560.00 | lb | 395 194 | 462 261 | 529 327 | 595 394 | 662 461 | 729 527 | 795 594 | 862 660 | 929 727 | 995 794 | 1062 860 |
| 140 | 1680.00 | lb | 459 258 | 531 329 | 603 401 | 674 473 | 746 545 | 818 616 | 890 688 | 962 760 | 1033 832 | 1105 904 | 1177 975 |
| 150 | 1800.00 | lb | 523 321 | 600 398 | 677 475 | 753 552 | 830 629 | 907 706 | 984 783 | 1061 860 | 1138 936 | 1215 1013 | 1292 1090 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 6.A Estimated costs per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1000.0000 | 110.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Enlist Duo | pt | 3.49 | 7.0000 | 24.43 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed W3FE | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.9288 | 14.19 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.3579 | 3.24 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | hour | 15.29 | 1.0008 | 15.31 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 14.3433 | 33.86 | _____ |
| Self-Propelled | gal | 2.36 | 4.4973 | 10.58 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 11.57 | 1.0000 | 11.57 | _____ |
| Tractors | acre | 9.40 | 1.0000 | 9.40 | _____ |
| Self-Propelled | acre | 14.22 | 1.0000 | 14.22 | _____ |
| INTEREST ON OP. CAP. | acre | 10.47 | 1.0000 | 10.47 | _____ |
| TOTAL DIRECT EXPENSES | | | | 686.71 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 16.28 | 1.0000 | 16.28 | _____ |
| Tractors | acre | 55.45 | 1.0000 | 55.45 | _____ |
| Self-Propelled | acre | 57.17 | 1.0000 | 57.17 | _____ |
| TOTAL FIXED EXPENSES | | | | 128.90 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 815.61 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year

Table 6.B Summary of estimated costs and returns per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1000.0000 | 854.40 | _____ |
| Cotton Seed | lb | 0.11 | 1350.0000 | 148.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1002.90 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 110.00 | 1.0000 | 110.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 74.20 | 1.0000 | 74.20 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.6051 | 5.48 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.2510 | 19.11 | _____ |
| UNALLOCATED LABOR | hour | 15.29 | 1.0008 | 15.31 | _____ |
| DIESEL FUEL | gal | 2.36 | 18.8406 | 44.44 | _____ |
| REPAIR & MAINTENANCE | acre | 35.19 | 1.0000 | 35.19 | _____ |
| INTEREST ON OP. CAP. | acre | 10.47 | 1.0000 | 10.47 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 686.71 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 316.19 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 128.90 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 815.61 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 187.29 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year

Table 6.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 8R-38 | MFWD 300 | 0.080 | 1.00 | Nov | | 0.08 | 0.08 | 0.08 | 0.06 |
| Bed/Disk (Hipper)Rd | 8R-38 | MFWD 300 | 0.074 | 0.50 | Nov | | 0.03 | 0.03 | 0.03 | 0.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Apr | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Rigid | 26' | MFWD 300 | 0.059 | 1.00 | May | | 0.05 | 0.05 | 0.05 | 0.04 |
| Plant - Folding | 8R-38 | MFWD 300 | 0.074 | 1.00 | May | | 0.07 | 0.07 | 0.14 | 0.05 |
| Cotton Seed W3FE | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Jun | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 8R-38 | MFWD 300 | 0.066 | 1.00 | Jun | | 0.06 | 0.06 | 0.10 | 0.05 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker | 6R-38(355) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Boll Buggy | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.17 | 0.13 |
| Module Builder | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1000.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 1.25 | 0.92 | 1.85 | 1.00 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 6.D Estimated costs for field operations, per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Bed-Subsoil Fold | 8R-38 | | 2.94 | 2.25 | 2.22 | | | 0.26 | 7.67 | 7.11 | 14.78 |
| Bed/Disk (Hipper)Rd | 8R-38 | | 1.35 | 0.59 | 1.02 | | | 0.10 | 3.06 | 2.73 | 5.79 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.15 | 7.43 | 5.86 | 13.29 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | | 31.00 |
| Row Cond Rigid | 26' | | 2.18 | 0.88 | 1.64 | | | 0.08 | 4.78 | 4.66 | 9.44 |
| Plant - Folding | 8R-38 | | 2.72 | 2.27 | 2.73 | | | 0.14 | 7.86 | 7.14 | 15.00 |
| Cotton Seed W3FE | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.11 | 7.39 | 5.86 | 13.25 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | | 30.82 |
| Spray (Direct/Layby) | 8R-38 | | 2.44 | 1.17 | 2.14 | | | 0.08 | 5.83 | 4.53 | 10.36 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker | 6R-38(355) | | 7.43 | 12.52 | 6.29 | | | 0.08 | 26.32 | 46.46 | 72.78 |
| Boll Buggy | 6R-38(355) | | 6.28 | 3.05 | 4.73 | | | 0.04 | 14.10 | 12.76 | 26.86 |
| Module Builder | 6R-38(355) | | 6.28 | 3.23 | 6.29 | | | 0.05 | 15.85 | 13.10 | 28.95 |
| Gin & Haul | lb | 110.00 | | | | | | 0.32 | 110.32 | | 110.32 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| TOTALS | | 556.71 | 44.44 | 35.19 | 39.90 | 0.00 | 10.47 | 686.71 | 128.90 | 815.61 | |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 6.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1002.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 110.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 42.94 | 22.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.24 | 0.00 | 0.00 | 0.00 | 0.57 | 2.49 | 5.51 | 5.20 | 1.14 | 0.57 | 0.85 | 20.33 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.29 | 0.00 | 0.00 | 0.00 | 0.37 | 2.83 | 5.64 | 5.64 | 0.74 | 0.37 | 0.56 | 24.00 |
| REPAIR & MAINTENANCE | 2.84 | 0.00 | 0.00 | 0.00 | 0.20 | 1.96 | 3.55 | 3.33 | 0.40 | 0.20 | 0.30 | 22.41 |
| INTEREST ON OP. CAP. | 3.50 | 0.00 | 0.00 | 0.00 | 0.26 | 0.77 | 3.66 | 1.23 | 0.33 | 0.07 | 0.13 | 0.52 |
| TOTAL DIRECT EXPENSES | 103.44 | 0.00 | 0.00 | 0.00 | 11.08 | 38.43 | 212.44 | 85.61 | 28.37 | 8.61 | 21.47 | 177.26 |
| NET INCOME | -103.44 | 0.00 | 0.00 | 0.00 | -11.08 | -38.43 | -212.44 | -85.61 | -28.37 | -8.61 | -21.47 | 825.64 |
| NET INCOME TO DATE | -103.44 | -103.44 | -103.44 | -103.44 | -114.52 | -152.95 | -365.39 | -451.00 | -479.37 | -487.98 | -509.45 | 316.19 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 6.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 500.00 | lb | -162 -291 | -141 -270 | -119 -248 | -98 -227 | -77 -206 | -55 -184 | -34 -163 | -13 -142 | 8 -120 | 29 -99 | 50 -77 |
| 60 | 600.00 | lb | -109 -238 | -83 -212 | -58 -187 | -32 -161 | -7 -135 | 18 -110 | 44 -84 | 69 -59 | 95 -33 | 121 -7 | 146 17 |
| 70 | 700.00 | lb | -56 -185 | -26 -155 | 3 -125 | 33 -95 | 63 -65 | 92 -35 | 122 -6 | 152 23 | 182 53 | 212 83 | 242 113 |
| 80 | 800.00 | lb | -3 -132 | 30 -98 | 64 -64 | 99 -29 | 133 4 | 167 38 | 201 72 | 235 106 | 269 141 | 304 175 | 338 209 |
| 90 | 900.00 | lb | 49 -79 | 87 -40 | 126 -2 | 164 35 | 203 74 | 241 112 | 280 151 | 318 189 | 357 228 | 395 266 | 434 305 |
| 100 | 1000.00 | lb | 102 -26 | 145 16 | 188 59 | 230 101 | 273 144 | 316 187 | 358 230 | 401 272 | 444 315 | 487 358 | 529 400 |
| 110 | 1100.00 | lb | 155 26 | 202 73 | 249 120 | 296 167 | 343 214 | 390 261 | 437 308 | 484 355 | 531 402 | 578 449 | 625 496 |
| 120 | 1200.00 | lb | 208 79 | 259 131 | 311 182 | 362 233 | 413 284 | 465 336 | 516 387 | 567 438 | 618 489 | 670 541 | 721 592 |
| 130 | 1300.00 | lb | 261 132 | 317 188 | 372 243 | 428 299 | 483 354 | 539 410 | 594 466 | 650 521 | 706 577 | 761 632 | 817 688 |
| 140 | 1400.00 | lb | 314 185 | 374 245 | 434 305 | 494 365 | 554 425 | 613 484 | 673 544 | 733 604 | 793 664 | 853 724 | 912 783 |
| 150 | 1500.00 | lb | 367 238 | 431 303 | 495 367 | 560 431 | 624 495 | 688 559 | 752 623 | 816 687 | 880 751 | 944 815 | 1008 879 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 7.A Estimated costs per acre
Cotton, 8R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 900.0000 | 99.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 18.4000 | 38.64 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Enlist Duo | pt | 3.49 | 7.0000 | 24.43 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed W3FE | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.7365 | 11.25 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.3222 | 2.91 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 0.8469 | 12.96 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 11.3731 | 26.85 | _____ |
| Self-Propelled | gal | 2.36 | 4.4973 | 10.58 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.06 | 1.0000 | 9.06 | _____ |
| Tractors | acre | 7.45 | 1.0000 | 7.45 | _____ |
| Self-Propelled | acre | 14.22 | 1.0000 | 14.22 | _____ |
| INTEREST ON OP. CAP. | acre | 9.43 | 1.0000 | 9.43 | _____ |
| TOTAL DIRECT EXPENSES | | | | 635.46 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 12.77 | 1.0000 | 12.77 | _____ |
| Tractors | acre | 43.97 | 1.0000 | 43.97 | _____ |
| Self-Propelled | acre | 57.17 | 1.0000 | 57.17 | _____ |
| TOTAL FIXED EXPENSES | | | | 113.91 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 749.37 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.B Summary of estimated costs and returns per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 900.0000 | 768.96 | _____ |
| Cotton Seed | lb | 0.11 | 1215.0000 | 133.65 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 902.61 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 99.00 | 1.0000 | 99.00 | _____ |
| FERTILIZERS | acre | 78.09 | 1.0000 | 78.09 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 74.20 | 1.0000 | 74.20 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.5694 | 5.15 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.0586 | 16.17 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 0.8469 | 12.96 | _____ |
| DIESEL FUEL | gal | 2.36 | 15.8705 | 37.43 | _____ |
| REPAIR & MAINTENANCE | acre | 30.73 | 1.0000 | 30.73 | _____ |
| INTEREST ON OP. CAP. | acre | 9.43 | 1.0000 | 9.43 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 635.46 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 267.15 | _____ |
| TOTAL FIXED EXPENSES | | | | | |
| | | | | 113.91 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 749.37 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 153.24 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.C Estimated resource use for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Row Cond Rigid | 26' | MFWD 300 | 0.059 | 1.00 | May | | 0.05 | 0.05 | 0.05 | 0.04 |
| NT Plant-Folding | 8R-38 | MFWD 300 | 0.077 | 1.00 | May | | 0.07 | 0.07 | 0.15 | 0.06 |
| Cotton Seed W3FE | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 8R-38 | MFWD 300 | 0.077 | 1.00 | Jun | | 0.07 | 0.07 | 0.11 | 0.06 |
| UAN (32%) | gal | | | | | 18.4000 | | | | |
| Spray (Direct/Layby) | 8R-38 | MFWD 300 | 0.066 | 1.00 | Jun | | 0.06 | 0.06 | 0.10 | 0.05 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker | 6R-38(355) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Boll Buggy | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.17 | 0.13 |
| Module Builder | 6R-38(355) | MFWD 300 | 0.172 | 1.00 | Oct | | 0.17 | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 900.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 1.05 | 0.73 | 1.62 | 0.84 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 7.D Estimated costs for field operations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | 40.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | 0.68 |
| Row Cond Rigid | 26' | | 2.18 | 0.88 | 1.64 | | | 0.08 | 4.78 | 4.66 |
| NT Plant-Folding | 8R-38 | | 2.83 | 2.61 | 2.84 | | | 0.14 | 8.42 | 7.85 |
| Cotton Seed W3FE | thous | 116.55 | | | | | | 2.04 | 118.59 | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | 4.35 |
| Fert Appl (Liquid) | 8R-38 | | 2.83 | 1.96 | 2.49 | | | 0.11 | 7.39 | 5.86 |
| UAN (32%) | gal | 38.64 | | | | | | 0.56 | 39.20 | 39.20 |
| Spray (Direct/Layby) | 8R-38 | | 2.44 | 1.17 | 2.14 | | | 0.08 | 5.83 | 4.53 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | 7.49 |
| Incidental Pest | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | 1.23 |
| Cotton Picker | 6R-38(355) | | 7.43 | 12.52 | 6.29 | | | 0.08 | 26.32 | 46.46 |
| Boll Buggy | 6R-38(355) | | 6.28 | 3.05 | 4.73 | | | 0.04 | 14.10 | 12.76 |
| Module Builder | 6R-38(355) | | 6.28 | 3.23 | 6.29 | | | 0.05 | 15.85 | 13.10 |
| Gin & Haul | lb | 99.00 | | | | | | 0.29 | 99.29 | 99.29 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 |
| TOTALS | | 523.59 | 37.43 | 30.73 | 34.28 | 0.00 | 9.43 | 635.46 | 113.91 | 749.37 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 7.E Estimated monthly income and expense flows per acre
Cotton, 8R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 902.61 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 42.94 | 22.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 5.62 | 5.20 | 1.14 | 0.57 | 0.85 | 20.33 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 5.75 | 5.64 | 0.74 | 0.37 | 0.56 | 24.00 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 3.89 | 3.33 | 0.40 | 0.20 | 0.30 | 22.41 |
| INTEREST ON OP. CAP. | 3.14 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 3.66 | 1.35 | 0.33 | 0.07 | 0.13 | 0.49 |
| TOTAL DIRECT EXPENSES | 92.71 | 0.00 | 0.00 | 0.00 | 11.08 | 0.00 | 213.00 | 93.99 | 28.37 | 8.61 | 21.47 | 166.23 |
| NET INCOME | -92.71 | 0.00 | 0.00 | 0.00 | -11.08 | 0.00 | -213.00 | -93.99 | -28.37 | -8.61 | -21.47 | 736.38 |
| NET INCOME TO DATE | -92.71 | -92.71 | -92.71 | -92.71 | -103.79 | -103.79 | -316.79 | -410.78 | -439.15 | -447.76 | -469.23 | 267.15 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 7.F Estimated returns for various price/yield combinations, per acre
 Cotton, 8R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 450.00 | lb | -163 -277 | -144 -258 | -125 -239 | -106 -220 | -86 -200 | -67 -181 | -48 -162 | -29 -143 | -10 -123 | 9 -104 | 28 -85 |
| 60 | 540.00 | lb | -116 -229 | -92 -206 | -69 -183 | -46 -160 | -23 -137 | -0 -114 | 22 -91 | 45 -68 | 68 -45 | 91 -22 | 114 0 |
| 70 | 630.00 | lb | -68 -182 | -41 -155 | -14 -128 | 12 -101 | 39 -74 | 66 -47 | 93 -20 | 120 6 | 146 33 | 173 59 | 200 86 |
| 80 | 720.00 | lb | -20 -134 | 10 -103 | 40 -72 | 71 -42 | 102 -11 | 133 19 | 163 50 | 194 80 | 225 111 | 256 142 | 287 173 |
| 90 | 810.00 | lb | 27 -86 | 61 -52 | 96 -17 | 130 17 | 165 51 | 200 86 | 234 120 | 269 155 | 303 190 | 338 224 | 373 259 |
| 100 | 900.00 | lb | 74 -39 | 113 -0 | 151 37 | 190 76 | 228 114 | 267 153 | 305 191 | 344 230 | 382 268 | 420 307 | 459 345 |
| 110 | 990.00 | lb | 122 8 | 164 51 | 207 93 | 249 135 | 291 177 | 334 220 | 376 262 | 418 304 | 460 347 | 503 389 | 545 431 |
| 120 | 1080.00 | lb | 170 56 | 216 102 | 262 148 | 308 194 | 354 241 | 401 287 | 447 333 | 493 379 | 539 425 | 585 471 | 631 517 |
| 130 | 1170.00 | lb | 218 104 | 268 154 | 318 204 | 368 254 | 418 304 | 468 354 | 518 404 | 568 454 | 617 504 | 667 554 | 717 604 |
| 140 | 1260.00 | lb | 265 151 | 319 205 | 373 259 | 427 313 | 481 367 | 535 421 | 588 474 | 642 528 | 696 582 | 750 636 | 804 690 |
| 150 | 1350.00 | lb | 313 199 | 371 257 | 428 315 | 486 372 | 544 430 | 601 488 | 659 545 | 717 603 | 775 661 | 832 718 | 890 776 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 8.A Estimated costs per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1000.0000 | 110.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Enlist Duo | pt | 3.49 | 7.0000 | 24.43 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed W3FE | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4268 | 6.52 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1235 | 1.11 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.32 | 0.5992 | 9.18 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 6.5911 | 15.55 | _____ |
| Self-Propelled | gal | 2.36 | 5.7832 | 13.62 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 8.18 | 1.0000 | 8.18 | _____ |
| Tractors | acre | 4.30 | 1.0000 | 4.30 | _____ |
| Self-Propelled | acre | 24.69 | 1.0000 | 24.69 | _____ |
| INTEREST ON OP. CAP. | acre | 10.16 | 1.0000 | 10.16 | _____ |
| TOTAL DIRECT EXPENSES | | | | 657.18 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.66 | 1.0000 | 10.66 | _____ |
| Tractors | acre | 25.49 | 1.0000 | 25.49 | _____ |
| Self-Propelled | acre | 96.04 | 1.0000 | 96.04 | _____ |
| TOTAL FIXED EXPENSES | | | | 132.19 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 789.37 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.B Summary of estimated costs and returns per acre
Cotton, 12R-38" solid, conservation tillage
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1000.0000 | 854.40 | _____ |
| Cotton Seed | lb | 0.11 | 1350.0000 | 148.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1002.90 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 110.00 | 1.0000 | 110.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 74.20 | 1.0000 | 74.20 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3708 | 3.35 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.7490 | 11.44 | _____ |
| UNALLOCATED LABOR | hour | 15.32 | 0.5992 | 9.18 | _____ |
| DIESEL FUEL | gal | 2.36 | 12.3744 | 29.17 | _____ |
| REPAIR & MAINTENANCE | acre | 37.17 | 1.0000 | 37.17 | _____ |
| INTEREST ON OP. CAP. | acre | 10.16 | 1.0000 | 10.16 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 657.18 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 345.72 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 132.19 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 789.37 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 213.53 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 8.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 12R-38 | MFWD 300 | 0.053 | 1.00 | Nov | | 0.05 | 0.05 | 0.05 | 0.04 |
| Bed/Disk (Hipper) | 12R-38 | MFWD 300 | 0.049 | 0.50 | Nov | | 0.02 | 0.02 | 0.02 | 0.01 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Apr | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Plant - Folding | 12R-38 | MFWD 300 | 0.049 | 1.00 | May | | 0.04 | 0.04 | 0.09 | 0.03 |
| Cotton Seed W3FE | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38(500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1000.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | | 0.74 | 0.42 | 1.11 | 0.59 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | 40.83 |
| Bed-Subsoil Fold | 12R-38 | | 1.96 | 1.90 | 1.48 | | | 0.19 | 5.53 | 5.38 |
| Bed/Disk (Hipper) | 12R-38 | | 0.90 | 0.57 | 0.68 | | | 0.08 | 2.23 | 2.25 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | 0.68 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.10 | 4.97 | 3.95 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | 31.00 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 |
| Plant - Folding | 12R-38 | | 1.81 | 2.06 | 1.82 | | | 0.10 | 5.79 | 5.73 |
| Cotton Seed W3FE | thous | 116.55 | | | | | | 2.04 | 118.59 | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | 30.82 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | 7.49 |
| Incidental Pest | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 |
| Gin & Haul | lb | 110.00 | | | | | | 0.32 | 110.32 | 110.32 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 |
| TOTALS | | 556.71 | 29.17 | 37.17 | 23.97 | 0.00 | 10.16 | 657.18 | 132.19 | 789.37 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 8.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1002.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 110.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 42.94 | 22.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 2.16 | 0.00 | 0.00 | 0.00 | 0.57 | 1.65 | 4.08 | 3.64 | 1.14 | 0.57 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 2.86 | 0.00 | 0.00 | 0.00 | 0.37 | 1.88 | 4.04 | 3.87 | 0.74 | 0.37 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 2.47 | 0.00 | 0.00 | 0.00 | 0.20 | 1.34 | 3.19 | 2.47 | 0.40 | 0.20 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.41 | 0.00 | 0.00 | 0.00 | 0.26 | 0.72 | 3.60 | 1.17 | 0.33 | 0.07 | 0.13 | 0.47 |
| TOTAL DIRECT EXPENSES | 100.47 | 0.00 | 0.00 | 0.00 | 11.08 | 35.97 | 208.99 | 81.36 | 28.37 | 8.61 | 21.47 | 160.86 |
| NET INCOME | -100.47 | 0.00 | 0.00 | 0.00 | -11.08 | -35.97 | -208.99 | -81.36 | -28.37 | -8.61 | -21.47 | 842.04 |
| NET INCOME TO DATE | -100.47 | -100.47 | -100.47 | -100.47 | -111.55 | -147.52 | -356.51 | -437.87 | -466.24 | -474.85 | -496.32 | 345.72 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 8.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | | | PERCENT | | | | | | | | | | |
|-------------|---------|------|---------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|
| | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Cotton Lint | | | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 500.00 | lb | -133 -265 | -111 -243 | -90 -222 | -69 -201 | -47 -179 | -26 -158 | -4 -137 | 16 -115 | 37 -94 | 59 -73 | 80 -51 |
| 60 | 600.00 | lb | -80 -212 | -54 -186 | -28 -160 | -3 -135 | 22 -109 | 48 -84 | 73 -58 | 99 -32 | 124 -7 | 150 18 | 176 44 |
| 70 | 700.00 | lb | -27 -159 | 2 -129 | 32 -99 | 62 -69 | 92 -39 | 122 -9 | 152 20 | 182 50 | 212 80 | 242 109 | 272 139 |
| 80 | 800.00 | lb | 26 -106 | 60 -71 | 94 -37 | 128 -3 | 162 30 | 196 64 | 231 98 | 265 133 | 299 167 | 333 201 | 367 235 |
| 90 | 900.00 | lb | 79 -53 | 117 -14 | 155 23 | 194 62 | 232 100 | 271 139 | 309 177 | 348 216 | 386 254 | 425 292 | 463 331 |
| 100 | 1000.00 | lb | 132 -0 | 174 42 | 217 85 | 260 128 | 303 170 | 345 213 | 388 256 | 431 298 | 473 341 | 516 384 | 559 427 |
| 110 | 1100.00 | lb | 185 52 | 232 99 | 279 146 | 326 193 | 373 240 | 420 287 | 467 334 | 514 381 | 561 428 | 608 475 | 655 522 |
| 120 | 1200.00 | lb | 238 106 | 289 157 | 340 208 | 392 259 | 443 311 | 494 362 | 545 413 | 597 464 | 648 516 | 699 567 | 750 618 |
| 130 | 1300.00 | lb | 291 159 | 346 214 | 402 270 | 457 325 | 513 381 | 568 436 | 624 492 | 680 547 | 735 603 | 791 658 | 846 714 |
| 140 | 1400.00 | lb | 344 212 | 404 271 | 463 331 | 523 391 | 583 451 | 643 511 | 703 570 | 762 630 | 822 690 | 882 750 | 942 810 |
| 150 | 1500.00 | lb | 397 265 | 461 329 | 525 393 | 589 457 | 653 521 | 717 585 | 781 649 | 845 713 | 910 777 | 974 841 | 1038 905 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 9.A Estimated costs per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 900.0000 | 99.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 18.4000 | 38.64 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Enlist Duo | pt | 3.49 | 7.0000 | 24.43 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.0000 | 15.00 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed W3FE | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2987 | 4.56 | _____ |
| Self-Propelled | hour | 15.27 | 0.3221 | 4.92 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0998 | 0.90 | _____ |
| Self-Propelled | hour | 9.06 | 0.2472 | 2.24 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.31 | 0.4967 | 7.61 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.6137 | 10.88 | _____ |
| Self-Propelled | gal | 2.36 | 5.7832 | 13.62 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.99 | 1.0000 | 5.99 | _____ |
| Tractors | acre | 3.01 | 1.0000 | 3.01 | _____ |
| Self-Propelled | acre | 24.69 | 1.0000 | 24.69 | _____ |
| INTEREST ON OP. CAP. | acre | 9.27 | 1.0000 | 9.27 | _____ |
| TOTAL DIRECT EXPENSES | | | | 611.28 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 7.39 | 1.0000 | 7.39 | _____ |
| Tractors | acre | 17.85 | 1.0000 | 17.85 | _____ |
| Self-Propelled | acre | 96.04 | 1.0000 | 96.04 | _____ |
| TOTAL FIXED EXPENSES | | | | 121.28 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 732.56 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 900.0000 | 768.96 | _____ |
| Cotton Seed | lb | 0.11 | 1215.0000 | 133.65 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 902.61 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 99.00 | 1.0000 | 99.00 | _____ |
| FERTILIZERS | acre | 78.09 | 1.0000 | 78.09 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 74.20 | 1.0000 | 74.20 | _____ |
| INSECTICIDES | acre | 48.96 | 1.0000 | 48.96 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3470 | 3.14 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.6209 | 9.48 | _____ |
| UNALLOCATED LABOR | hour | 15.31 | 0.4967 | 7.61 | _____ |
| DIESEL FUEL | gal | 2.36 | 10.3969 | 24.50 | _____ |
| REPAIR & MAINTENANCE | acre | 33.69 | 1.0000 | 33.69 | _____ |
| INTEREST ON OP. CAP. | acre | 9.27 | 1.0000 | 9.27 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 611.28 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 291.33 | _____ |
| | | | | ----- | |
| TOTAL FIXED EXPENSES | | | | 121.28 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 732.56 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 170.05 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| NT Plant-Folding | 12R-38 | MFWD 300 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.10 | 0.04 |
| Cotton Seed W3FE | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 18.4000 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.00 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.01 | 0.02 | 0.01 |
| IncidentalPestTrt\$15 | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38(500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 900.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| TOTALS | | | | | | -----hours----- | | | | |
| | | | | | | 0.62 | 0.29 | 0.96 | 0.49 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|--------|-------|-------|-------|-------|-------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 | 7.11 |
| NT Plant-Folding | 12R-38 | | 1.88 | 2.39 | 1.89 | | | 0.11 | 6.27 | 6.40 | 12.67 |
| Cotton Seed W3FE | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 | 8.89 |
| UAN (32%) | gal | 38.64 | | | | | | 0.56 | 39.20 | | 39.20 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 | 7.23 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| IncidentalPestTrt\$15 | acre | 15.00 | | | | | | 0.18 | 15.18 | | 15.18 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 | 125.20 |
| Gin & Haul | lb | 99.00 | | | | | | 0.29 | 99.29 | | 99.29 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| TOTALS | | | 523.59 | 24.50 | 33.69 | 20.23 | 0.00 | 9.27 | 611.28 | 121.28 | 732.56 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 9.E Estimated monthly income and expense flows per acre
Cotton, 12R-38" solid, no-till
W3FE variety, Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 902.61 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 42.94 | 22.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 22.40 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.00 | 4.15 | 3.64 | 1.14 | 0.57 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 4.11 | 3.87 | 0.74 | 0.37 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 3.52 | 2.47 | 0.40 | 0.20 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.14 | 0.00 | 0.00 | 0.00 | 0.26 | 0.00 | 3.61 | 1.29 | 0.33 | 0.07 | 0.13 | 0.44 |
| TOTAL DIRECT EXPENSES | 92.71 | 0.00 | 0.00 | 0.00 | 11.08 | 0.00 | 209.47 | 89.74 | 28.37 | 8.61 | 21.47 | 149.83 |
| NET INCOME | -92.71 | 0.00 | 0.00 | 0.00 | -11.08 | 0.00 | -209.47 | -89.74 | -28.37 | -8.61 | -21.47 | 752.78 |
| NET INCOME TO DATE | -92.71 | -92.71 | -92.71 | -92.71 | -103.79 | -103.79 | -313.26 | -403.00 | -431.37 | -439.98 | -461.45 | 291.33 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 9.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, no-till
 W3FE variety, Non-Delta Area, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|-------------|---------------|------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| | PRODUCT PRICE | | | | | | | | | | | | |
| Cotton Lint | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 450.00 | lb | -139 -260 | -120 -241 | -101 -222 | -81 -203 | -62 -184 | -43 -164 | -24 -145 | -5 -126 | 14 -107 | 33 -87 | 52 -68 |
| 60 | 540.00 | lb | -91 -213 | -68 -190 | -45 -167 | -22 -143 | 0 -120 | 23 -97 | 46 -74 | 69 -51 | 92 -28 | 115 -5 | 138 17 |
| 70 | 630.00 | lb | -44 -165 | -17 -138 | 9 -111 | 36 -84 | 63 -57 | 90 -30 | 117 -3 | 144 22 | 171 49 | 198 76 | 224 103 |
| 80 | 720.00 | lb | 3 -117 | 34 -86 | 65 -56 | 95 -25 | 126 5 | 157 36 | 188 66 | 218 97 | 249 128 | 280 159 | 311 189 |
| 90 | 810.00 | lb | 51 -69 | 85 -35 | 120 -0 | 155 33 | 189 68 | 224 103 | 258 137 | 293 172 | 328 206 | 362 241 | 397 276 |
| 100 | 900.00 | lb | 99 -22 | 137 16 | 175 54 | 214 93 | 252 131 | 291 170 | 329 208 | 368 246 | 406 285 | 445 323 | 483 362 |
| 110 | 990.00 | lb | 146 25 | 189 67 | 231 110 | 273 152 | 316 194 | 358 237 | 400 279 | 442 321 | 485 363 | 527 406 | 569 448 |
| 120 | 1080.00 | lb | 194 73 | 240 119 | 286 165 | 332 211 | 379 257 | 425 303 | 471 350 | 517 396 | 563 442 | 609 488 | 655 534 |
| 130 | 1170.00 | lb | 242 121 | 292 171 | 342 221 | 392 270 | 442 320 | 492 370 | 542 420 | 592 470 | 642 520 | 692 570 | 742 620 |
| 140 | 1260.00 | lb | 290 168 | 343 222 | 397 276 | 451 330 | 505 384 | 559 437 | 613 491 | 666 545 | 720 599 | 774 653 | 828 707 |
| 150 | 1350.00 | lb | 337 216 | 395 274 | 453 331 | 510 389 | 568 447 | 626 504 | 683 562 | 741 620 | 799 677 | 856 735 | 914 793 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 10.A Estimated costs per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Thidiazuron 4lb | oz | 2.07 | 2.3000 | 4.76 | _____ |
| Ethephon 6E | pt | 3.89 | 2.3125 | 9.00 | _____ |
| Tribufos 6lb | pt | 11.74 | 0.5000 | 5.87 | _____ |
| GINNING | | | | | |
| Gin & Haul | lb | 0.11 | 1200.0000 | 132.00 | _____ |
| FERTILIZERS | | | | | |
| Potash (60% K2O) | cwt | 26.30 | 1.5000 | 39.45 | _____ |
| UAN (32%) | gal | 2.10 | 28.9332 | 60.76 | _____ |
| FUNGICIDES | | | | | |
| Cotton Seed Trt. | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | | | | | |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Cotoran | pt | 5.79 | 2.0000 | 11.58 | _____ |
| Enlist Duo | pt | 3.49 | 7.0000 | 24.43 | _____ |
| Dual Magnum | pt | 10.02 | 2.0000 | 20.04 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90% | lb | 9.87 | 2.0000 | 19.74 | _____ |
| Bidrin 8EC | oz | 1.34 | 3.2000 | 4.29 | _____ |
| Centric 40WG | oz | 4.97 | 2.0000 | 9.94 | _____ |
| IncidentalPestTrt\$15 | acre | 15.00 | 1.5000 | 22.50 | _____ |
| SEED/PLANTS | | | | | |
| Cotton Seed W3FE | thous | 2.59 | 45.0000 | 116.55 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.21 | 32.0000 | 6.72 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.4000 | 1.32 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Cotton Consultant | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4268 | 6.52 | _____ |
| Self-Propelled | hour | 15.27 | 0.3309 | 5.05 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2036 | 1.84 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1235 | 1.11 | _____ |
| Self-Propelled | hour | 9.06 | 0.2516 | 2.28 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 0.6062 | 9.28 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 6.5911 | 15.55 | _____ |
| Self-Propelled | gal | 2.36 | 5.8626 | 13.81 | _____ |
| 1/4-mi. Pivot Irr. | gal | 2.36 | 11.2011 | 26.43 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 8.18 | 1.0000 | 8.18 | _____ |
| Tractors | acre | 4.30 | 1.0000 | 4.30 | _____ |
| Self-Propelled | acre | 24.80 | 1.0000 | 24.80 | _____ |
| 1/4-mi. Pivot Irr. | acre | 21.95 | 1.0000 | 21.95 | _____ |
| INTEREST ON OP. CAP. | acre | 10.96 | 1.0000 | 10.96 | _____ |
| TOTAL DIRECT EXPENSES | | | | 738.27 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.66 | 1.0000 | 10.66 | _____ |
| Tractors | acre | 25.49 | 1.0000 | 25.49 | _____ |
| Self-Propelled | acre | 96.67 | 1.0000 | 96.67 | _____ |
| 1/4-mi. Pivot Irr. | acre | 68.70 | 1.0000 | 68.70 | _____ |
| TOTAL FIXED EXPENSES | | | | 201.52 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 939.79 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 10.B Summary of estimated costs and returns per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|-----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Cotton Lint | lb | 0.85 | 1200.0000 | 1025.28 | _____ |
| Cotton Seed | lb | 0.11 | 1620.0000 | 178.20 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1203.48 | _____ |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | acre | 19.63 | 1.0000 | 19.63 | _____ |
| GINNING | acre | 132.00 | 1.0000 | 132.00 | _____ |
| FERTILIZERS | acre | 100.21 | 1.0000 | 100.21 | _____ |
| FUNGICIDES | acre | 20.00 | 1.0000 | 20.00 | _____ |
| HERBICIDES | acre | 74.20 | 1.0000 | 74.20 | _____ |
| INSECTICIDES | acre | 56.46 | 1.0000 | 56.46 | _____ |
| SEED/PLANTS | acre | 116.55 | 1.0000 | 116.55 | _____ |
| GROWTH REGULATORS | acre | 6.72 | 1.0000 | 6.72 | _____ |
| ADJUVANTS | acre | 1.32 | 1.0000 | 1.32 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| ERADICATION FEE | acre | 1.00 | 1.0000 | 1.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.3752 | 3.39 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.2036 | 1.84 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.7578 | 11.57 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 0.6062 | 9.28 | _____ |
| DIESEL FUEL | gal | 2.36 | 23.6549 | 55.79 | _____ |
| REPAIR & MAINTENANCE | acre | 59.23 | 1.0000 | 59.23 | _____ |
| INTEREST ON OP. CAP. | acre | 10.96 | 1.0000 | 10.96 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 738.27 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 465.21 | _____ |
| TOTAL FIXED EXPENSES | | | | | |
| | | | | 201.52 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 939.79 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 263.69 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.C Estimated resource use for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.6660 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| Bed-Subsoil Fold | 12R-38 | MFWD 300 | 0.053 | 1.00 | Nov | | 0.05 | 0.05 | 0.05 | 0.04 |
| Bed/Disk (Hipper) | 12R-38 | MFWD 300 | 0.049 | 0.50 | Nov | | 0.02 | 0.02 | 0.02 | 0.01 |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Mar | | | 0.01 | 0.02 | 0.01 |
| Clarity | pt | | | | | 0.5000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Apr | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Row Cond Folding | 38' | MFWD 300 | 0.040 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Plant - Folding | 12R-38 | MFWD 300 | 0.049 | 1.00 | May | | 0.04 | 0.04 | 0.09 | 0.03 |
| Cotton Seed W3FE | thous | | | | | 45.0000 | | | | |
| Cotton Seed Trt. | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Cotoran | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Cotton Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Eradication | acre | | | | | 1.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Acephate 90% | lb | | | | | 0.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bidrin 8EC | oz | | | | | 3.2000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 300 | 0.051 | 1.00 | Jun | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32%) | gal | | | | | 14.4666 | | | | |
| Spray (Direct/Layby) | 12R-38 | MFWD 300 | 0.044 | 1.00 | Jun | | 0.04 | 0.04 | 0.06 | 0.03 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Centric 40WG | oz | | | | | 2.0000 | | | | |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Mepiquat Chloride | oz | | | | | 16.0000 | | | | |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Incidental Pest | | | | 1.50 | Jul | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | | | | | 0.02 | 0.03 | 0.02 |
| IncidentalPestTrt\$15 | acre | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Acephate 90% | lb | | | | | 0.7500 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Thidiazuron 4lb | oz | | | | | 2.3000 | | | | |
| Ethephon 6E | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.50 | Sep | | | 0.00 | 0.01 | 0.00 |
| Tribufos 6lb | pt | | | | | 0.5000 | | | | |
| Ethephon 6E | pt | | | | | 0.3125 | | | | |
| Cotton Picker/Module | 6R-38 (500) | | 0.172 | 1.00 | Oct | | | 0.17 | 0.34 | 0.13 |
| Gin & Haul | lb | | | 1.00 | Oct | 1200.0000 | | | | |
| Stalk Shredder-Flail | 15' | MFWD 300 | 0.110 | 1.00 | Oct | | 0.11 | 0.11 | 0.11 | 0.08 |
| 1/4-mi. Pivot Irr. | acre | | | | Jan | 1.0000 | | | 0.20 | |
| TOTALS | | | | | | | 0.75 | 0.42 | 1.33 | 0.60 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.D Estimated costs for field operations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Potash (60% K2O) | cwt | 39.45 | | | | | | 1.38 | 40.83 | | 40.83 |
| Bed-Subsoil Fold | 12R-38 | | 1.96 | 1.90 | 1.48 | | | 0.19 | 5.53 | 5.38 | 10.91 |
| Bed/Disk (Hipper) | 12R-38 | | 0.90 | 0.57 | 0.68 | | | 0.08 | 2.23 | 2.25 | 4.48 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.03 | 1.17 | 1.26 | 2.43 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Surfactant | pt | 0.66 | | | | | | 0.02 | 0.68 | | 0.68 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.10 | 4.97 | 3.95 | 8.92 |
| UAN (32%) | gal | 30.38 | | | | | | 0.62 | 31.00 | | 31.00 |
| Row Cond Folding | 38' | | 1.49 | 0.73 | 1.12 | | | 0.06 | 3.40 | 3.71 | 7.11 |
| Plant - Folding | 12R-38 | | 1.81 | 2.06 | 1.82 | | | 0.10 | 5.79 | 5.73 | 11.52 |
| Cotton Seed W3FE | thous | 116.55 | | | | | | 2.04 | 118.59 | | 118.59 |
| Cotton Seed Trt. | acre | 20.00 | | | | | | 0.35 | 20.35 | | 20.35 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Cotoran | pt | 11.58 | | | | | | 0.20 | 11.78 | | 11.78 |
| Surfactant | pt | 0.66 | | | | | | 0.01 | 0.67 | | 0.67 |
| Cotton Consultant | acre | 8.00 | | | | | | 0.14 | 8.14 | | 8.14 |
| Eradication | acre | 1.00 | | | | | | 0.02 | 1.02 | | 1.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Acephate 90% | lb | 4.93 | | | | | | 0.09 | 5.02 | | 5.02 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Bidrin 8EC | oz | 4.29 | | | | | | 0.06 | 4.35 | | 4.35 |
| Fert Appl (Liquid) | 12R-38 | | 1.88 | 1.34 | 1.65 | | | 0.07 | 4.94 | 3.95 | 8.89 |
| UAN (32%) | gal | 30.38 | | | | | | 0.44 | 30.82 | | 30.82 |
| Spray (Direct/Layby) | 12R-38 | | 1.62 | 0.93 | 1.42 | | | 0.06 | 4.03 | 3.20 | 7.23 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Centric 40WG | oz | 9.94 | | | | | | 0.14 | 10.08 | | 10.08 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.05 | 3.41 | | 3.41 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Mepiquat Chloride | oz | 3.36 | | | | | | 0.04 | 3.40 | | 3.40 |
| Acephate 90% | lb | 7.40 | | | | | | 0.09 | 7.49 | | 7.49 |
| Incidental Pest | | | | | | | | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.56 | 0.31 | 0.84 | | | 0.02 | 1.73 | 1.89 | 3.62 |
| IncidentalPestTrt\$15 | acre | 22.50 | | | | | | 0.26 | 22.76 | | 22.76 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Acephate 90% | lb | 7.40 | | | | | | 0.06 | 7.46 | | 7.46 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Thidiazuron 4lb | oz | 4.76 | | | | | | 0.03 | 4.79 | | 4.79 |
| Ethephon 6E | pt | 7.78 | | | | | | 0.05 | 7.83 | | 7.83 |
| Sprayer 600-750gal | 60' 175hp | | 0.19 | 0.10 | 0.28 | | | | 0.57 | 0.63 | 1.20 |
| Tribufos 6lb | pt | 5.87 | | | | | | 0.03 | 5.90 | | 5.90 |
| Ethephon 6E | pt | 1.22 | | | | | | 0.01 | 1.23 | | 1.23 |
| Cotton Picker/Module | 6R-38(500) | | 10.47 | 22.99 | 6.29 | | | 0.12 | 39.87 | 85.33 | 125.20 |
| Gin & Haul | lb | 132.00 | | | | | | 0.39 | 132.39 | | 132.39 |
| Stalk Shredder-Flail | 15' | | 4.01 | 3.61 | 3.02 | | | 0.03 | 10.67 | 7.98 | 18.65 |
| 1/4-mi. Pivot Irr. | acre | | 26.43 | 21.95 | 1.84 | | | 0.64 | 50.86 | 68.70 | 119.56 |
| TOTALS | | 586.21 | 55.79 | 59.23 | 26.08 | 0.00 | 10.96 | 738.27 | 201.52 | 939.79 | |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 10.E Estimated monthly income and expense flows per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1203.48 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.63 | 0.00 |
| GINNING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 132.00 |
| FERTILIZERS | 39.45 | 0.00 | 0.00 | 0.00 | 0.00 | 30.38 | 0.00 | 30.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 | 0.00 | 42.94 | 22.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.93 | 14.23 | 29.90 | 7.40 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 116.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GROWTH REGULATORS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.36 | 3.36 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERADICATION FEE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 2.16 | 0.00 | 0.00 | 0.00 | 0.57 | 1.65 | 5.42 | 3.79 | 1.61 | 0.72 | 0.85 | 9.31 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 2.86 | 0.00 | 0.00 | 0.00 | 0.37 | 1.88 | 4.04 | 11.80 | 11.50 | 8.30 | 0.56 | 14.48 |
| REPAIR & MAINTENANCE | 2.47 | 0.00 | 0.00 | 0.00 | 0.20 | 1.34 | 3.19 | 20.94 | 2.50 | 1.69 | 0.30 | 26.60 |
| INTEREST ON OP. CAP. | 3.41 | 0.00 | 0.00 | 0.00 | 0.26 | 0.72 | 3.62 | 1.56 | 0.57 | 0.15 | 0.13 | 0.54 |
| TOTAL DIRECT EXPENSES | 100.47 | 0.00 | 0.00 | 0.00 | 11.08 | 35.97 | 210.35 | 108.30 | 49.44 | 18.26 | 21.47 | 182.93 |
| NET INCOME | -100.47 | 0.00 | 0.00 | 0.00 | -11.08 | -35.97 | -210.35 | -108.30 | -49.44 | -18.26 | -21.47 | 1020.55 |
| NET INCOME TO DATE | -100.47 | -100.47 | -100.47 | -100.47 | -111.55 | -147.52 | -357.87 | -466.17 | -515.61 | -533.87 | -555.34 | 465.21 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 10.F Estimated returns for various price/yield combinations, per acre
 Cotton, 12R-38" solid, conservation tillage
 W3FE, pivot irrigated, 7.5 ac.-in., Non-Delta Area, Mississippi, 2022

| | | | -----PERCENT----- | | | | | | | | | | |
|-------------|---------|------|-------------------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|--------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | -----PRODUCT PRICE----- | | | | | | | | | | |
| Cotton Lint | | | 0.64 | 0.68 | 0.72 | 0.76 | 0.81 | 0.85 | 0.89 | 0.93 | 0.98 | 1.02 | 1.06 |
| PERCENT | YIELD | UNIT | -----dollars----- | | | | | | | | | | |
| 50 | 600.00 | lb | -109 -310 | -83 -285 | -58 -259 | -32 -234 | -6 -208 | 18 -182 | 44 -157 | 70 -131 | 95 -105 | 121 -80 | 146 -54 |
| 60 | 720.00 | lb | -45 -247 | -14 -216 | 15 -185 | 46 -154 | 77 -124 | 108 -93 | 138 -62 | 169 -31 | 200 -1 | 231 29 | 261 60 |
| 70 | 840.00 | lb | 17 -183 | 53 -147 | 89 -111 | 125 -75 | 161 -40 | 197 -4 | 233 31 | 269 67 | 304 103 | 340 139 | 376 175 |
| 80 | 960.00 | lb | 81 -119 | 122 -78 | 163 -37 | 204 3 | 245 44 | 286 85 | 327 126 | 368 167 | 409 208 | 450 249 | 491 290 |
| 90 | 1080.00 | lb | 145 -56 | 191 -10 | 237 35 | 283 82 | 329 128 | 375 174 | 422 220 | 468 266 | 514 312 | 560 358 | 606 405 |
| 100 | 1200.00 | lb | 208 7 | 260 58 | 311 109 | 362 161 | 413 212 | 465 263 | 516 314 | 567 366 | 619 417 | 670 468 | 721 520 |
| 110 | 1320.00 | lb | 272 71 | 328 127 | 385 183 | 441 240 | 498 296 | 554 352 | 610 409 | 667 465 | 723 522 | 780 578 | 836 634 |
| 120 | 1440.00 | lb | 336 134 | 397 196 | 459 257 | 520 319 | 582 380 | 643 442 | 705 503 | 766 565 | 828 626 | 889 688 | 951 749 |
| 130 | 1560.00 | lb | 399 198 | 466 264 | 533 331 | 599 398 | 666 464 | 733 531 | 799 598 | 866 664 | 933 731 | 999 798 | 1066 864 |
| 140 | 1680.00 | lb | 463 261 | 535 333 | 607 405 | 678 477 | 750 549 | 822 620 | 894 692 | 965 764 | 1037 836 | 1109 907 | 1181 979 |
| 150 | 1800.00 | lb | 527 325 | 604 402 | 680 479 | 757 556 | 834 633 | 911 710 | 988 787 | 1065 863 | 1142 940 | 1219 1017 | 1296 1094 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns..

Table 11.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 4.0000 | 28.00 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.8700 | 24.14 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.3300 | 34.98 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| Miravis Top | oz | 1.34 | 13.7000 | 18.36 | _____ |
| HERBICIDES | | | | | |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Enlist Duo | pt | 3.49 | 3.5000 | 12.22 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| Prevathon | oz | 1.12 | 14.0000 | 15.68 | _____ |
| Bifenthrin | oz | 0.86 | 6.4000 | 5.50 | _____ |
| IncidentalPestTrt \$8 | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Enlist E3 | lb | 1.20 | 50.0000 | 60.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.6000 | 1.98 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 50.0000 | 13.50 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | | | | | |
| Inoculant -Soybean | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.1002 | 1.53 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.0518 | 0.47 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0648 | 0.59 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 1.5477 | 3.65 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| 1/2-mi Pivot Irr. | gal | 2.36 | 16.4057 | 38.73 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 3.80 | 1.0000 | 3.80 | _____ |
| Tractors | acre | 1.02 | 1.0000 | 1.02 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| 1/2-mi Pivot Irr. | acre | 12.00 | 1.0000 | 12.00 | _____ |
| INTEREST ON OP. CAP. | acre | 6.48 | 1.0000 | 6.48 | _____ |
| TOTAL DIRECT EXPENSES | | | | 394.67 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 6.20 | 1.0000 | 6.20 | _____ |
| Tractors | acre | 5.98 | 1.0000 | 5.98 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| 1/2-mi Pivot Irr. | acre | 39.11 | 1.0000 | 39.11 | _____ |
| TOTAL FIXED EXPENSES | | | | 66.73 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 461.40 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.B Summary of estimated costs and returns per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 50.0000 | 623.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 623.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 28.00 | 1.0000 | 28.00 | _____ |
| FERTILIZERS | acre | 59.12 | 1.0000 | 59.12 | _____ |
| FUNGICIDES | acre | 25.72 | 1.0000 | 25.72 | _____ |
| HERBICIDES | acre | 52.26 | 1.0000 | 52.26 | _____ |
| INSECTICIDES | acre | 35.62 | 1.0000 | 35.62 | _____ |
| SEED/PLANTS | acre | 60.00 | 1.0000 | 60.00 | _____ |
| ADJUVANTS | acre | 1.98 | 1.0000 | 1.98 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 13.50 | 1.0000 | 13.50 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0648 | 0.59 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.0518 | 0.47 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.2024 | 3.09 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | gal | 2.36 | 19.3470 | 45.67 | _____ |
| REPAIR & MAINTENANCE | acre | 20.98 | 1.0000 | 20.98 | _____ |
| INTEREST ON OP. CAP. | acre | 6.48 | 1.0000 | 6.48 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 394.67 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 228.33 | _____ |
| TOTAL FIXED EXPENSES | | | | 66.73 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 461.40 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 161.60 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 11.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.3330 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.8700 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.3300 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | Jun | | 0.05 | 0.05 | 0.10 | 0.04 |
| Soybean Enlist E3 | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Inoculant -Soybean | acre | | | | | 1.0000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jul | | 0.02 | 0.02 | 0.04 | 0.02 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Miravis Top | oz | | | | | 13.7000 | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Acephate 90SP | lb | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Prevathon | oz | | | | | 14.0000 | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | |
| Bifenthrin | oz | | | | | 6.4000 | | | | |
| Incidental Pest | | | | 1.00 | Sep | | | | | |
| App by Air (5 gal) | appl | | | | | 1.0000 | | | | |
| IncidentalPestTrt \$8 | acre | | | | | 1.0000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.08 |
| Haul Soybeans | bu | | | | | 50.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 |
| 1/2-mi Pivot Irr. | acre | | | | Jul | 1.0000 | | | 0.05 | |
| TOTALS | | | | | | | 0.20 | 0.20 | 0.31 | 0.17 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 11.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Phosphorus(46% P2O5) | cwt | 24.14 | | | | | | 0.84 | 24.98 | 24.98 |
| Potash (60% K2O) | cwt | 34.98 | | | | | | 1.22 | 36.20 | 36.20 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.91 | | | 0.10 | 6.77 | 7.28 |
| Soybean Enlist E3 | lb | 60.00 | | | | | | 0.88 | 60.88 | 60.88 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.11 | 7.47 | 7.47 |
| Inoculant -Soybean | acre | 1.55 | | | | | | 0.02 | 1.57 | 1.57 |
| Boundary | pt | 20.90 | | | | | | 0.30 | 21.20 | 21.20 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.13 | 9.25 | 9.25 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.93 | | | 0.03 | 2.47 | 1.90 |
| Enlist Duo | pt | 12.22 | | | | | | 0.14 | 12.36 | 12.36 |
| Dual Magnum | pt | 10.02 | | | | | | 0.12 | 10.14 | 10.14 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Miravis Top | oz | 18.36 | | | | | | 0.16 | 18.52 | 18.52 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | 0.33 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.06 | 6.50 | 6.50 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Prevathon | oz | 15.68 | | | | | | 0.14 | 15.82 | 15.82 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | 0.33 |
| Bifenthrin | oz | 5.50 | | | | | | 0.05 | 5.55 | 5.55 |
| Incidental Pest | | | | | | | | | | |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | 7.04 |
| IncidentalPestTrt \$8 | acre | 8.00 | | | | | | 0.05 | 8.05 | 8.05 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.90 | | | 0.03 | 11.33 | 16.76 |
| Haul Soybeans | bu | 13.50 | | | | | | 0.04 | 13.54 | 13.54 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.60 | | | 0.01 | 1.86 | 1.68 |
| 1/2-mi Pivot Irr. | acre | | 38.73 | 12.00 | 0.47 | | | 0.63 | 51.83 | 39.11 |
| TOTALS | | 314.73 | 45.67 | 20.98 | 6.81 | 0.00 | 6.48 | 394.67 | 66.73 | 461.40 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 11.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 623.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 7.00 | 0.00 |
| FERTILIZERS | 59.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 18.36 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.02 | 22.24 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.62 | 8.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.66 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.50 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 1.95 | 0.98 | 0.04 | 0.00 | 3.50 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.47 | 16.52 | 11.62 | 0.00 | 4.06 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.32 | 1.39 | 0.68 | 0.00 | 5.59 |
| INTEREST ON OP. CAP. | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.89 | 0.48 | 0.70 | 0.09 | 0.08 |
| TOTAL DIRECT EXPENSES | 92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.95 | 130.88 | 41.61 | 80.68 | 15.09 | 26.73 |
| NET INCOME | -92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -6.95 | -130.88 | -41.61 | -80.68 | -15.09 | 596.27 |
| NET INCOME TO DATE | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -99.68 | -230.56 | -272.17 | -352.85 | -367.94 | 228.33 |

Note: Cost of production estimates are based on 2021 input prices.

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

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

* Lease costs are based on hourly usage costs.

Table 11.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 25.00 | bu | -154 | -138 | -123 | -107 | -91 | -76 | -60 | -45 | -29 | -14 | 1 |
| | | | -221 | -205 | -189 | -174 | -158 | -143 | -127 | -111 | -96 | -80 | -65 |
| 60 | 30.00 | bu | -108 | -90 | -71 | -52 | -34 | -15 | 3 | 21 | 40 | 59 | 77 |
| | | | -175 | -156 | -138 | -119 | -100 | -82 | -63 | -44 | -26 | -7 | 11 |
| 70 | 35.00 | bu | -63 | -41 | -19 | 1 | 23 | 45 | 67 | 89 | 110 | 132 | 154 |
| | | | -130 | -108 | -86 | -64 | -43 | -21 | 0 | 22 | 44 | 65 | 87 |
| 80 | 40.00 | bu | -18 | 6 | 31 | 56 | 81 | 106 | 131 | 156 | 181 | 206 | 231 |
| | | | -84 | -59 | -35 | -10 | 14 | 39 | 64 | 89 | 114 | 139 | 164 |
| 90 | 45.00 | bu | 27 | 55 | 83 | 111 | 139 | 167 | 195 | 223 | 251 | 279 | 307 |
| | | | -39 | -11 | 16 | 44 | 72 | 100 | 128 | 156 | 184 | 212 | 240 |
| 100 | 50.00 | bu | 72 | 103 | 134 | 166 | 197 | 228 | 259 | 290 | 321 | 352 | 384 |
| | | | 5 | 37 | 68 | 99 | 130 | 161 | 192 | 223 | 255 | 286 | 317 |
| 110 | 55.00 | bu | 117 | 152 | 186 | 220 | 255 | 289 | 323 | 357 | 392 | 426 | 460 |
| | | | 51 | 85 | 119 | 154 | 188 | 222 | 256 | 291 | 325 | 359 | 393 |
| 120 | 60.00 | bu | 163 | 200 | 238 | 275 | 312 | 350 | 387 | 424 | 462 | 499 | 537 |
| | | | 96 | 133 | 171 | 208 | 246 | 283 | 320 | 358 | 395 | 433 | 470 |
| 130 | 65.00 | bu | 208 | 249 | 289 | 330 | 370 | 411 | 451 | 492 | 532 | 573 | 613 |
| | | | 141 | 182 | 222 | 263 | 303 | 344 | 384 | 425 | 465 | 506 | 546 |
| 140 | 70.00 | bu | 254 | 297 | 341 | 384 | 428 | 472 | 515 | 559 | 602 | 646 | 690 |
| | | | 187 | 230 | 274 | 318 | 361 | 405 | 448 | 492 | 536 | 579 | 623 |
| 150 | 75.00 | bu | 299 | 346 | 392 | 439 | 486 | 533 | 579 | 626 | 673 | 719 | 766 |
| | | | 232 | 279 | 326 | 372 | 419 | 466 | 513 | 559 | 606 | 653 | 699 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices..

Table 12.A Estimated costs per acre
Soybeans, full-season, Enlist E3, April planted, 16R 30
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 2.0000 | 14.00 | _____ |
| HARVEST AIDS | | | | | |
| Gramoxone SL | oz | 0.19 | 16.0000 | 3.04 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.6600 | 18.32 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.0000 | 26.30 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 64.0000 | 7.04 | _____ |
| 2,4-D Amine 4 | pt | 2.64 | 2.0000 | 5.28 | _____ |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Enlist Duo | pt | 3.49 | 3.5000 | 12.22 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Enlist E3 | lb | 1.20 | 50.0000 | 60.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.6000 | 1.98 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 43.0000 | 11.61 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2610 | 3.98 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0894 | 0.82 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.26 | 0.3269 | 4.99 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.0312 | 9.52 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.40 | 1.0000 | 5.40 | _____ |
| Tractors | acre | 2.66 | 1.0000 | 2.66 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.86 | 1.0000 | 5.86 | _____ |
| TOTAL DIRECT EXPENSES | | | | 292.85 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.13 | 1.0000 | 10.13 | _____ |
| Tractors | acre | 15.57 | 1.0000 | 15.57 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 41.14 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 333.99 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 43.0000 | 535.78 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 535.78 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 14.00 | 1.0000 | 14.00 | _____ |
| HARVEST AIDS | acre | 3.04 | 1.0000 | 3.04 | _____ |
| FERTILIZERS | acre | 44.62 | 1.0000 | 44.62 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 64.58 | 1.0000 | 64.58 | _____ |
| INSECTICIDES | acre | 6.44 | 1.0000 | 6.44 | _____ |
| SEED/PLANTS | acre | 60.00 | 1.0000 | 60.00 | _____ |
| ADJUVANTS | acre | 1.98 | 1.0000 | 1.98 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 11.61 | 1.0000 | 11.61 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0894 | 0.82 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.3632 | 5.54 | _____ |
| UNALLOCATED LABOR | hour | 15.26 | 0.3269 | 4.99 | _____ |
| DIESEL FUEL | gal | 2.36 | 5.4248 | 12.81 | _____ |
| REPAIR & MAINTENANCE | acre | 12.22 | 1.0000 | 12.22 | _____ |
| INTEREST ON OP. CAP. | acre | 5.86 | 1.0000 | 5.86 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 292.85 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 242.93 | _____ |
| TOTAL FIXED EXPENSES | | | | 41.14 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 333.99 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 201.79 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER UNIT | ALLOC LABOR | UNALL LABOR | |
|-------------------------------|---------------|--------------------|-----------|---------------|-----|-----------------|-----------------|----------------|----------------|-------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.3330 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Oct | 1.0000 | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.6600 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.0000 | | | | |
| Disk Harrow | 32' | MFWD 300 | 0.061 | 1.00 | Oct | | 0.06 | 0.06 | 0.05 | |
| Field Cultivate Fld | 32' | MFWD 300 | 0.046 | 1.00 | Oct | | 0.04 | 0.04 | 0.04 | |
| App by Air (5 gal) | appl | | | 1.00 | Mar | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| 2,4-D Amine 4 | pt | | | | | 2.0000 | | | | |
| Plant - Folding | 16R-30 | MFWD 300 | 0.047 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | |
| Soybean Enlist E3 | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.02 | |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.02 | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Aug | | 0.02 | 0.02 | 0.02 | |
| Acephate 90SP | lb | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Gramoxone SL | oz | | | | | 16.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Sep | | 0.10 | 0.10 | 0.09 | |
| Haul Soybeans | bu | | | | | 43.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Sep | | 0.02 | 0.02 | 0.01 | |
| TOTALS | | | | | | | 0.36 | 0.36 | 0.45 | 0.32 |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 12.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Phosphorus(46% P2O5) | cwt | 18.32 | | | | | | 0.64 | 18.96 | 18.96 |
| Potash (60% K2O) | cwt | 26.30 | | | | | | 0.92 | 27.22 | 27.22 |
| Disk Harrow | 32' | | 2.24 | 1.69 | 1.78 | | | 0.20 | 5.91 | 5.76 |
| Field Cultivate Fld | 32' | | 1.70 | 0.99 | 1.35 | | | 0.14 | 4.18 | 4.83 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.14 | 7.14 | 7.14 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.07 | 3.59 | 3.59 |
| 2,4-D Amine 4 | pt | 5.28 | | | | | | 0.11 | 5.39 | 5.39 |
| Plant - Folding | 16R-30 | | 1.72 | 2.51 | 1.80 | | | 0.11 | 6.14 | 6.41 |
| Soybean Enlist E3 | lb | 60.00 | | | | | | 1.05 | 61.05 | 61.05 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.13 | 7.49 | 7.49 |
| Boundary | pt | 20.90 | | | | | | 0.37 | 21.27 | 21.27 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 |
| Enlist Duo | pt | 12.22 | | | | | | 0.18 | 12.40 | 12.40 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.09 | 6.59 | 6.59 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | 3.57 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.01 | 2.47 | 1.90 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.04 | 6.48 | 6.48 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | 7.04 |
| Gramoxone SL | oz | 3.04 | | | | | | 0.02 | 3.06 | 3.06 |
| Surfactant | pt | 0.66 | | | | | | | 0.66 | 0.66 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.96 | | | 0.03 | 11.39 | 16.76 |
| Haul Soybeans | bu | 11.61 | | | | | | 0.03 | 11.64 | 11.64 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.61 | | | 0.01 | 1.87 | 1.68 |
| TOTALS | | 250.61 | 12.81 | 12.22 | 11.35 | 0.00 | 5.86 | 292.85 | 41.14 | 333.99 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 12.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, April planted, 16R30"
Non-Delta Area, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 535.78 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 0.00 |
| FERTILIZERS | 44.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.80 | 30.02 | 25.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.44 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.61 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.80 | 1.90 | 0.00 | 0.00 | 0.95 | 3.57 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 3.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 2.06 | 0.00 | 0.00 | 1.03 | 4.06 |
| REPAIR & MAINTENANCE | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.96 | 0.00 | 0.00 | 0.48 | 5.59 |
| INTEREST ON OP. CAP. | 2.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 1.84 | 0.55 | 0.00 | 0.00 | 0.11 | 0.07 |
| TOTAL DIRECT EXPENSES | 87.82 | 0.00 | 0.00 | 0.00 | 0.00 | 16.12 | 106.57 | 37.73 | 0.00 | 0.00 | 19.71 | 24.90 |
| NET INCOME | -87.82 | 0.00 | 0.00 | 0.00 | 0.00 | -16.12 | -106.57 | -37.73 | 0.00 | 0.00 | -19.71 | 510.88 |
| NET INCOME TO DATE | -87.82 | -87.82 | -87.82 | -87.82 | -87.82 | -103.94 | -210.51 | -248.24 | -248.24 | -248.24 | -267.95 | 242.93 |

Note: Cost of production estimates are based on 2021 input prices.

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

* Lease costs are based on hourly usage costs.

Table 12.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, April planted, 16R30"
 Non-Delta Area, Mississippi, 2022

| | | | -----PERCENT----- | | | | | | | | | | |
|----------|-------|------|-------------------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | -----PRODUCT PRICE----- | | | | | | | | | | |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | -----dollars----- | | | | | | | | | | |
| 50 | 21.50 | bu | -86 -127 | -72 -113 | -59 -100 | -45 -87 | -32 -73 | -19 -60 | -5 -46 | 7 -33 | 21 -20 | 34 -6 | 47 6 |
| 60 | 25.80 | bu | -47 -88 | -31 -72 | -14 -56 | 1 -40 | 17 -23 | 33 -7 | 49 8 | 65 24 | 81 40 | 97 56 | 113 72 |
| 70 | 30.10 | bu | -8 -49 | 10 -30 | 29 -11 | 48 7 | 66 25 | 85 44 | 104 63 | 123 82 | 141 100 | 160 119 | 179 138 |
| 80 | 34.40 | bu | 30 -10 | 52 11 | 73 32 | 95 54 | 116 75 | 138 96 | 159 118 | 180 139 | 202 161 | 223 182 | 245 204 |
| 90 | 38.70 | bu | 69 28 | 94 52 | 118 77 | 142 101 | 166 125 | 190 149 | 214 173 | 238 197 | 262 221 | 286 245 | 311 269 |
| 100 | 43.00 | bu | 108 67 | 135 94 | 162 121 | 189 148 | 216 175 | 242 201 | 269 228 | 296 255 | 323 282 | 350 308 | 376 335 |
| 110 | 47.30 | bu | 148 106 | 177 136 | 206 165 | 236 195 | 265 224 | 295 254 | 324 283 | 354 313 | 383 342 | 413 372 | 442 401 |
| 120 | 51.60 | bu | 187 145 | 219 178 | 251 210 | 283 242 | 315 274 | 347 306 | 379 338 | 412 370 | 444 403 | 476 435 | 508 467 |
| 130 | 55.90 | bu | 226 184 | 260 219 | 295 254 | 330 289 | 365 324 | 400 359 | 434 393 | 469 428 | 504 463 | 539 498 | 574 533 |
| 140 | 60.20 | bu | 265 223 | 302 261 | 340 298 | 377 336 | 415 373 | 452 411 | 490 448 | 527 486 | 565 523 | 602 561 | 640 598 |
| 150 | 64.50 | bu | 304 262 | 344 303 | 384 343 | 424 383 | 464 423 | 505 463 | 545 504 | 585 544 | 625 584 | 665 624 | 705 664 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 13.A Estimated costs per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| HARVEST AIDS | | | | | |
| Gramoxone SL | oz | 0.19 | 16.0000 | 3.04 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.6600 | 18.32 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.0000 | 26.30 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 64.0000 | 7.04 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Fierce | oz | 6.50 | 3.5000 | 22.75 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 96.0000 | 18.24 | _____ |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Enlist Duo | pt | 3.49 | 3.5000 | 12.22 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Dimilin 2L | oz | 1.70 | 1.0000 | 1.70 | _____ |
| Bifenthrin | oz | 0.86 | 1.0500 | 0.90 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Enlist E3 | lb | 1.20 | 50.0000 | 60.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 1.4500 | 4.79 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 40.0000 | 10.80 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.3817 | 5.84 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1212 | 1.10 | _____ |
| UNALLOCATED LABOR | hour | 15.24 | 0.4355 | 6.64 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 5.8952 | 13.91 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.90 | 1.0000 | 6.90 | _____ |
| Tractors | acre | 3.87 | 1.0000 | 3.87 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.08 | 1.0000 | 5.08 | _____ |
| TOTAL DIRECT EXPENSES | | | | 333.44 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.04 | 1.0000 | 13.04 | _____ |
| Tractors | acre | 22.77 | 1.0000 | 22.77 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.25 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 384.69 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.B Summary of estimated costs and returns per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 40.0000 | 498.40 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 498.40 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HARVEST AIDS | acre | 3.04 | 1.0000 | 3.04 | _____ |
| FERTILIZERS | acre | 44.62 | 1.0000 | 44.62 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 103.90 | 1.0000 | 103.90 | _____ |
| INSECTICIDES | acre | 2.60 | 1.0000 | 2.60 | _____ |
| SEED/PLANTS | acre | 60.00 | 1.0000 | 60.00 | _____ |
| ADJUVANTS | acre | 4.79 | 1.0000 | 4.79 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 10.80 | 1.0000 | 10.80 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1212 | 1.10 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.4839 | 7.40 | _____ |
| UNALLOCATED LABOR | hour | 15.24 | 0.4355 | 6.64 | _____ |
| DIESEL FUEL | gal | 2.36 | 7.2888 | 17.20 | _____ |
| REPAIR & MAINTENANCE | acre | 14.93 | 1.0000 | 14.93 | _____ |
| INTEREST ON OP. CAP. | acre | 5.08 | 1.0000 | 5.08 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 333.44 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 164.96 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.25 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 384.69 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 113.71 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.C Estimated resource use for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.3330 | | | | |
| Disk Harrow | 32' | MFWD 300 | 0.061 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| Field Cultivate Fld | 32' | MFWD 300 | 0.046 | 1.00 | Oct | | 0.04 | 0.04 | 0.04 | 0.04 |
| Bed/Lister-Roll-Fo | 16R-30 | MFWD 300 | 0.060 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Feb | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.6600 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Fierce | oz | | | | | 3.5000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | May | | 0.05 | 0.05 | 0.10 | 0.04 |
| Soybean Enlist E3 | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.04 | 0.02 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jun | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 0.50 | Jul | | 0.01 | 0.01 | 0.02 | 0.01 |
| Dimilin 2L | oz | | | | | 1.0000 | | | | |
| Surfactant | pt | | | | | 0.0500 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 0.50 | Aug | | 0.01 | 0.01 | 0.02 | 0.01 |
| Bifenthrin | oz | | | | | 1.0500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Sep | 1.0000 | | | | |
| Gramoxone SL | oz | | | | | 16.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.09 |
| Haul Soybeans | bu | | | | | 40.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 |
| TOTALS | | | | | | | 0.48 | 0.48 | 0.60 | 0.43 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 13.D Estimated costs for field operations, per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.01 | 3.34 | | 3.34 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.06 | 19.71 | | 19.71 |
| Disk Harrow | 32' | | 2.24 | 1.69 | 1.78 | | | 0.02 | 5.73 | 5.76 | 11.49 |
| Field Cultivate Fld | 32' | | 1.70 | 0.99 | 1.35 | | | 0.01 | 4.05 | 4.83 | 8.88 |
| Bed/Lister-Roll-Fo | 16R-30 | | 2.21 | 1.35 | 1.76 | | | 0.02 | 5.34 | 5.44 | 10.78 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.06 | 2.52 | 1.90 | 4.42 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.09 | 3.61 | | 3.61 |
| Select Max | pt | 12.73 | | | | | | 0.33 | 13.06 | | 13.06 |
| Surfactant | pt | 1.32 | | | | | | 0.03 | 1.35 | | 1.35 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.15 | 7.65 | | 7.65 |
| Phosphorus (46% P2O5) | cwt | 18.32 | | | | | | 0.37 | 18.69 | | 18.69 |
| Potash (60% K2O) | cwt | 26.30 | | | | | | 0.54 | 26.84 | | 26.84 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.05 | 2.51 | 1.90 | 4.41 |
| Fierce | oz | 22.75 | | | | | | 0.46 | 23.21 | | 23.21 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.19 | 9.31 | | 9.31 |
| Surfactant | pt | 1.32 | | | | | | 0.03 | 1.35 | | 1.35 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.94 | | | 0.12 | 6.82 | 7.28 | 14.10 |
| Soybean Enlist E3 | lb | 60.00 | | | | | | 1.05 | 61.05 | | 61.05 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.13 | 7.49 | | 7.49 |
| Boundary | pt | 20.90 | | | | | | 0.37 | 21.27 | | 21.27 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 | 4.40 |
| Enlist Duo | pt | 12.22 | | | | | | 0.21 | 12.43 | | 12.43 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 | 4.40 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | | 3.57 |
| Spray (Broadcast) | 60' | | 0.51 | 0.24 | 0.47 | | | 0.01 | 1.23 | 0.95 | 2.18 |
| Dimilin 2L | oz | 1.70 | | | | | | 0.02 | 1.72 | | 1.72 |
| Surfactant | pt | 0.17 | | | | | | | 0.17 | | 0.17 |
| Spray (Broadcast) | 60' | | 0.51 | 0.24 | 0.47 | | | 0.01 | 1.23 | 0.95 | 2.18 |
| Bifenthrin | oz | 0.90 | | | | | | 0.01 | 0.91 | | 0.91 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | | 7.04 |
| Gramoxone SL | oz | 3.04 | | | | | | 0.02 | 3.06 | | 3.06 |
| Surfactant | pt | 0.66 | | | | | | | 0.66 | | 0.66 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.96 | | | 0.03 | 11.39 | 16.76 | 28.15 |
| Haul Soybeans | bu | 10.80 | | | | | | 0.03 | 10.83 | | 10.83 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.61 | | | 0.01 | 1.87 | 1.68 | 3.55 |
| TOTALS | | 281.09 | 17.20 | 14.93 | 15.14 | 0.00 | 5.08 | 333.44 | 51.25 | 384.69 | |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 13.E Estimated monthly income and expense flows per acre
Soybeans, full-season, Enlist E3, May planted, 16R30"
Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|------|------|------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 498.40 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 44.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 16.25 | 0.00 | 31.87 | 52.26 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.70 | 0.90 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 1.32 | 1.32 | 0.00 | 0.17 | 0.00 | 0.66 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.80 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.95 | 2.89 | 0.95 | 0.47 | 0.47 | 0.00 | 8.46 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 1.03 | 2.88 | 1.03 | 0.51 | 0.51 | 0.00 | 10.21 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.48 | 3.39 | 0.48 | 0.24 | 0.24 | 0.00 | 9.62 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 1.79 | 2.39 | 0.09 | 0.03 | 0.02 | 0.06 | 0.19 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 20.54 | 0.00 | 89.56 | 138.99 | 6.07 | 3.12 | 2.14 | 10.76 | 62.26 |
| NET INCOME | 0.00 | 0.00 | 0.00 | -20.54 | 0.00 | -89.56 | -138.99 | -6.07 | -3.12 | -2.14 | -10.76 | 436.14 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | -20.54 | -20.54 | -110.10 | -249.09 | -255.16 | -258.28 | -260.42 | -271.18 | 164.96 |

Note: Cost of production estimates are based on 2021 input prices.

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

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

* Lease costs are based on hourly usage costs.

Table 13.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, Enlist E3, May planted, 16R30"
 Non-Delta Area, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 20.00 | bu | -141 -192 | -128 -179 | -116 -167 | -103 -154 | -91 -142 | -78 -130 | -66 -117 | -53 -105 | -41 -92 | -28 -80 | -16 -67 |
| 60 | 24.00 | bu | -104 -156 | -89 -141 | -74 -126 | -59 -111 | -45 -96 | -30 -81 | -15 -66 | -0 -51 | 14 -36 | 29 -21 | 44 -6 |
| 70 | 28.00 | bu | -68 -119 | -51 -102 | -33 -84 | -16 -67 | 1 -50 | 18 -32 | 36 -15 | 53 2 | 71 19 | 88 37 | 105 54 |
| 80 | 32.00 | bu | -32 -83 | -12 -63 | 7 -43 | 27 -23 | 47 -3 | 67 16 | 87 36 | 107 56 | 127 76 | 147 95 | 167 115 |
| 90 | 36.00 | bu | 4 -47 | 26 -24 | 48 -2 | 71 20 | 93 42 | 116 64 | 138 87 | 161 109 | 183 132 | 205 154 | 228 177 |
| 100 | 40.00 | bu | 40 -10 | 65 14 | 90 38 | 115 63 | 140 88 | 164 113 | 189 138 | 214 163 | 239 188 | 264 213 | 289 238 |
| 110 | 44.00 | bu | 76 25 | 104 52 | 131 80 | 158 107 | 186 135 | 213 162 | 241 189 | 268 217 | 295 244 | 323 272 | 350 299 |
| 120 | 48.00 | bu | 112 61 | 142 91 | 172 121 | 202 151 | 232 181 | 262 211 | 292 241 | 322 271 | 352 300 | 382 330 | 411 360 |
| 130 | 52.00 | bu | 149 98 | 181 130 | 214 162 | 246 195 | 278 227 | 311 259 | 343 292 | 376 324 | 408 357 | 440 389 | 473 421 |
| 140 | 56.00 | bu | 185 134 | 220 169 | 255 204 | 290 238 | 325 273 | 359 308 | 394 343 | 429 378 | 464 413 | 499 448 | 534 483 |
| 150 | 60.00 | bu | 221 170 | 259 207 | 296 245 | 333 282 | 371 320 | 408 357 | 446 394 | 483 432 | 520 469 | 558 507 | 595 544 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 14.A Estimated costs per acre
Soybeans, double crop after wheat, Enlist E3, 16R 30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 3.0000 | 21.00 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.8700 | 24.14 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.3300 | 34.98 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Enlist Duo | pt | 3.49 | 3.5000 | 12.22 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| Prevathon | oz | 1.12 | 14.0000 | 15.68 | _____ |
| Bifenthrin | oz | 0.86 | 6.4000 | 5.50 | _____ |
| IncidentalPestTrt \$8 | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Enlist E3 | lb | 1.20 | 50.0000 | 60.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.5000 | 1.65 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 25.0000 | 6.75 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | | | | | |
| Inoculant -Soybean | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.1002 | 1.53 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0648 | 0.59 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 1.5477 | 3.65 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 3.80 | 1.0000 | 3.80 | _____ |
| Tractors | acre | 1.02 | 1.0000 | 1.02 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.61 | 1.0000 | 5.61 | _____ |
| TOTAL DIRECT EXPENSES | | | | 310.16 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 6.20 | 1.0000 | 6.20 | _____ |
| Tractors | acre | 5.98 | 1.0000 | 5.98 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 27.62 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 337.78 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 25.0000 | 311.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 311.50 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 21.00 | 1.0000 | 21.00 | _____ |
| FERTILIZERS | acre | 59.12 | 1.0000 | 59.12 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 52.26 | 1.0000 | 52.26 | _____ |
| INSECTICIDES | acre | 35.62 | 1.0000 | 35.62 | _____ |
| SEED/PLANTS | acre | 60.00 | 1.0000 | 60.00 | _____ |
| ADJUVANTS | acre | 1.65 | 1.0000 | 1.65 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 6.75 | 1.0000 | 6.75 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0648 | 0.59 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.2024 | 3.09 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | gal | 2.36 | 2.9413 | 6.94 | _____ |
| REPAIR & MAINTENANCE | acre | 8.98 | 1.0000 | 8.98 | _____ |
| INTEREST ON OP. CAP. | acre | 5.61 | 1.0000 | 5.61 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 310.16 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 1.34 | _____ |
| TOTAL FIXED EXPENSES | | | | 27.62 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 337.78 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | -26.28 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.C Estimated resource use for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.3330 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.8700 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.3300 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | Jun | | 0.05 | 0.05 | 0.10 | 0.04 |
| Soybean Enlist E3 | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Inoculant -Soybean | acre | | | | | 1.0000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jul | | 0.02 | 0.02 | 0.04 | 0.02 |
| Enlist Duo | pt | | | | | 3.5000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Acephate 90SP | lb | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Prevathon | oz | | | | | 14.0000 | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | |
| Bifenthrin | oz | | | | | 6.4000 | | | | |
| Incidental Pest | | | | 1.00 | Sep | | | | | |
| App by Air (5 gal) | appl | | | | | 1.0000 | | | | |
| IncidentalPestTrt \$8 | acre | | | | | 1.0000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.08 |
| Haul Soybeans | bu | | | | | 25.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 |
| TOTALS | | | | | | | 0.20 | 0.20 | 0.26 | 0.17 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 14.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|--------|------|-------|-------|-------|-------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Phosphorus (46% P2O5) | cwt | 24.14 | | | | | | 0.84 | 24.98 | | 24.98 |
| Potash (60% K2O) | cwt | 34.98 | | | | | | 1.22 | 36.20 | | 36.20 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.91 | | | 0.10 | 6.77 | 7.28 | 14.05 |
| Soybean Enlist E3 | lb | 60.00 | | | | | | 0.88 | 60.88 | | 60.88 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.11 | 7.47 | | 7.47 |
| Inoculant -Soybean | acre | 1.55 | | | | | | 0.02 | 1.57 | | 1.57 |
| Boundary | pt | 20.90 | | | | | | 0.30 | 21.20 | | 21.20 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.13 | 9.25 | | 9.25 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.93 | | | 0.03 | 2.47 | 1.90 | 4.37 |
| Enlist Duo | pt | 12.22 | | | | | | 0.14 | 12.36 | | 12.36 |
| Dual Magnum | pt | 10.02 | | | | | | 0.12 | 10.14 | | 10.14 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | | 7.06 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.06 | 6.50 | | 6.50 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | | 7.06 |
| Prevathon | oz | 15.68 | | | | | | 0.14 | 15.82 | | 15.82 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | | 0.33 |
| Bifenthrin | oz | 5.50 | | | | | | 0.05 | 5.55 | | 5.55 |
| Incidental Pest | | | | | | | | | | | |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | | 7.04 |
| IncidentalPestTrt \$8 | acre | 8.00 | | | | | | 0.05 | 8.05 | | 8.05 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.90 | | | 0.03 | 11.33 | 16.76 | 28.09 |
| Haul Soybeans | bu | 6.75 | | | | | | 0.02 | 6.77 | | 6.77 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.60 | | | 0.01 | 1.86 | 1.68 | 3.54 |
| TOTALS | | | 282.29 | 6.94 | 8.98 | 6.34 | 0.00 | 5.61 | 310.16 | 27.62 | 337.78 |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 14.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, Enlist E3, 16R30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 311.50 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.00 | 7.00 | 0.00 |
| FERTILIZERS | 59.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.02 | 22.24 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.62 | 8.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 60.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.33 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.75 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.91 | 0.93 | 0.00 | 0.00 | 3.50 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 1.03 | 0.00 | 0.00 | 4.06 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.91 | 0.48 | 0.00 | 0.00 | 5.59 |
| INTEREST ON OP. CAP. | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.56 | 0.29 | 0.37 | 0.09 | 0.06 |
| TOTAL DIRECT EXPENSES | 92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.61 | 108.48 | 24.97 | 42.32 | 15.09 | 19.96 |
| NET INCOME | -92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -6.61 | -108.48 | -24.97 | -42.32 | -15.09 | 291.54 |
| NET INCOME TO DATE | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -99.34 | -207.82 | -232.79 | -275.11 | -290.20 | 1.34 |

Note: Cost of production estimates are based on 2021 input prices.

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

* Lease costs are based on hourly usage costs.

Table 14.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, Enlist E3, 16R30"
 Non-irrigated, All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 12.50 | bu | -189 -217 | -182 -209 | -174 -202 | -166 -194 | -158 -186 | -151 -178 | -143 -170 | -135 -163 | -127 -155 | -119 -147 | -112 -139 |
| 60 | 15.00 | bu | -167 -194 | -157 -185 | -148 -176 | -139 -166 | -129 -157 | -120 -148 | -111 -138 | -101 -129 | -92 -120 | -83 -110 | -73 -101 |
| 70 | 17.50 | bu | -144 -172 | -133 -161 | -122 -150 | -111 -139 | -100 -128 | -90 -117 | -79 -106 | -68 -95 | -57 -84 | -46 -74 | -35 -63 |
| 80 | 20.00 | bu | -121 -149 | -109 -137 | -96 -124 | -84 -112 | -72 -99 | -59 -87 | -47 -74 | -34 -62 | -22 -49 | -9 -37 | 2 -24 |
| 90 | 22.50 | bu | -99 -126 | -85 -112 | -71 -98 | -57 -84 | -43 -70 | -29 -56 | -15 -42 | -1 -28 | 12 -14 | 26 -0 | 40 13 |
| 100 | 25.00 | bu | -76 -104 | -60 -88 | -45 -73 | -29 -57 | -14 -41 | 1 -26 | 16 -10 | 32 4 | 48 20 | 63 36 | 79 51 |
| 110 | 27.50 | bu | -53 -81 | -36 -64 | -19 -47 | -2 -30 | 14 -12 | 31 4 | 48 21 | 66 38 | 83 55 | 100 72 | 117 89 |
| 120 | 30.00 | bu | -31 -58 | -12 -40 | 6 -21 | 24 -2 | 43 15 | 62 34 | 80 53 | 99 72 | 118 90 | 137 109 | 155 128 |
| 130 | 32.50 | bu | -8 -36 | 11 -15 | 32 4 | 52 24 | 72 44 | 92 65 | 113 85 | 133 105 | 153 125 | 173 146 | 193 166 |
| 140 | 35.00 | bu | 14 -13 | 36 8 | 57 30 | 79 52 | 101 73 | 123 95 | 145 117 | 166 139 | 188 161 | 210 182 | 232 204 |
| 150 | 37.50 | bu | 36 9 | 60 32 | 83 55 | 106 79 | 130 102 | 153 126 | 177 149 | 200 172 | 223 196 | 247 219 | 270 242 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 15.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|----------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 4.0000 | 28.00 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.8700 | 24.14 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.3300 | 34.98 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| Miravis Top | oz | 1.34 | 13.7000 | 18.36 | _____ |
| HERBICIDES | | | | | |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Engenia | oz | 0.83 | 12.8000 | 10.62 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| Prevathon | oz | 1.12 | 14.0000 | 15.68 | _____ |
| Bifenthrin | oz | 0.86 | 6.4000 | 5.50 | _____ |
| IncidentalPestTrt | \$8 acre | 8.00 | 1.0000 | 8.00 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Seed RR2X | lb | 1.34 | 50.0000 | 67.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.6000 | 1.98 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 50.0000 | 13.50 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | | | | | |
| Inoculant -Soybean | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.1002 | 1.53 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.0518 | 0.47 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0648 | 0.59 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 1.5477 | 3.65 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| 1/2-mi Pivot Irr. | gal | 2.36 | 16.4057 | 38.73 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 3.80 | 1.0000 | 3.80 | _____ |
| Tractors | acre | 1.02 | 1.0000 | 1.02 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| 1/2-mi Pivot Irr. | acre | 12.00 | 1.0000 | 12.00 | _____ |
| INTEREST ON OP. CAP. | acre | 6.60 | 1.0000 | 6.60 | _____ |
| TOTAL DIRECT EXPENSES | | | | 403.71 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 6.20 | 1.0000 | 6.20 | _____ |
| Tractors | acre | 5.98 | 1.0000 | 5.98 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| 1/2-mi Pivot Irr. | acre | 39.11 | 1.0000 | 39.11 | _____ |
| TOTAL FIXED EXPENSES | | | | 66.73 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 470.44 | _____ |

Note: Cost of production estimates are based on 2021 input prices..
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 50.0000 | 623.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 623.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 28.00 | 1.0000 | 28.00 | _____ |
| FERTILIZERS | acre | 59.12 | 1.0000 | 59.12 | _____ |
| FUNGICIDES | acre | 25.72 | 1.0000 | 25.72 | _____ |
| HERBICIDES | acre | 54.18 | 1.0000 | 54.18 | _____ |
| INSECTICIDES | acre | 35.62 | 1.0000 | 35.62 | _____ |
| SEED/PLANTS | acre | 67.00 | 1.0000 | 67.00 | _____ |
| ADJUVANTS | acre | 1.98 | 1.0000 | 1.98 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 13.50 | 1.0000 | 13.50 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0648 | 0.59 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.0518 | 0.47 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.2024 | 3.09 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | gal | 2.36 | 19.3470 | 45.67 | _____ |
| REPAIR & MAINTENANCE | acre | 20.98 | 1.0000 | 20.98 | _____ |
| INTEREST ON OP. CAP. | acre | 6.60 | 1.0000 | 6.60 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 403.71 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 219.29 | _____ |
| TOTAL FIXED EXPENSES | | | | 66.73 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 470.44 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 152.56 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.3330 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | |
| Phosphorus(46% P2O5) | cwt | | | | | 0.8700 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.3300 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | Jun | | 0.05 | 0.05 | 0.10 | 0.04 |
| Soybean Seed RR2X | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Inoculant -Soybean | acre | | | | | 1.0000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jul | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Engenia | oz | | | | | 12.8000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Miravis Top | oz | | | | | 13.7000 | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Acephate 90SP | lb | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Prevathon | oz | | | | | 14.0000 | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | |
| Bifenthrin | oz | | | | | 6.4000 | | | | |
| Incidental Pest | | | | 1.00 | Sep | | | | | |
| App by Air (5 gal) | appl | | | | | 1.0000 | | | | |
| IncidentalPestTrt \$8 | acre | | | | | 1.0000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.08 |
| Haul Soybeans | bu | | | | | 50.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 |
| 1/2-mi Pivot Irr. | acre | | | | Jul | 1.0000 | | | 0.05 | |
| TOTALS | | | | | | | 0.20 | 0.20 | 0.31 | 0.17 |

Note: Cost of production estimates are based on 2021 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Phosphorus(46% P2O5) | cwt | 24.14 | | | | | | 0.84 | 24.98 | 24.98 |
| Potash (60% K2O) | cwt | 34.98 | | | | | | 1.22 | 36.20 | 36.20 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.91 | | | 0.10 | 6.77 | 7.28 |
| Soybean Seed RR2X | lb | 67.00 | | | | | | 0.98 | 67.98 | 67.98 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.11 | 7.47 | 7.47 |
| Inoculant -Soybean | acre | 1.55 | | | | | | 0.02 | 1.57 | 1.57 |
| Boundary | pt | 20.90 | | | | | | 0.30 | 21.20 | 21.20 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.13 | 9.25 | 9.25 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.93 | | | 0.03 | 2.47 | 1.90 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.04 | 3.56 | 3.56 |
| Engenia | oz | 10.62 | | | | | | 0.12 | 10.74 | 10.74 |
| Dual Magnum | pt | 10.02 | | | | | | 0.12 | 10.14 | 10.14 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Miravis Top | oz | 18.36 | | | | | | 0.16 | 18.52 | 18.52 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | 0.33 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.06 | 6.50 | 6.50 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Prevathon | oz | 15.68 | | | | | | 0.14 | 15.82 | 15.82 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | 0.33 |
| Bifenthrin | oz | 5.50 | | | | | | 0.05 | 5.55 | 5.55 |
| Incidental Pest | | | | | | | | | | |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | 7.04 |
| IncidentalPestTrt \$8 | acre | 8.00 | | | | | | 0.05 | 8.05 | 8.05 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.90 | | | 0.03 | 11.33 | 16.76 |
| Haul Soybeans | bu | 13.50 | | | | | | 0.04 | 13.54 | 13.54 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.60 | | | 0.01 | 1.86 | 1.68 |
| 1/2-mi Pivot Irr. | acre | | 38.73 | 12.00 | 0.47 | | | 0.63 | 51.83 | 39.11 |
| TOTALS | | 323.65 | 45.67 | 20.98 | 6.81 | 0.00 | 6.60 | 403.71 | 66.73 | 470.44 |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 15.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 623.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 7.00 | 0.00 |
| FERTILIZERS | 59.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 18.36 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.02 | 24.16 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.62 | 8.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 67.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.66 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.50 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 1.95 | 0.98 | 0.04 | 0.00 | 3.50 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.47 | 16.52 | 11.62 | 0.00 | 4.06 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.32 | 1.39 | 0.68 | 0.00 | 5.59 |
| INTEREST ON OP. CAP. | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.99 | 0.50 | 0.70 | 0.09 | 0.08 |
| TOTAL DIRECT EXPENSES | 92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.95 | 137.98 | 43.55 | 80.68 | 15.09 | 26.73 |
| NET INCOME | -92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -6.95 | -137.98 | -43.55 | -80.68 | -15.09 | 596.27 |
| NET INCOME TO DATE | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -99.68 | -237.66 | -281.21 | -361.89 | -376.98 | 219.29 |

Note: Cost of production estimates are based on 2021 input prices.

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

* Lease costs are based on hourly usage costs.

Table 15.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Pivot irrigated, 7.5 ac-in., All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|-------------------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| ----- | | | -----PRODUCT PRICE----- | | | | | | | | | | |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | -----dollars----- | | | | | | | | | | |
| 50 | 25.00 | bu | -163 -230 | -147 -214 | -132 -198 | -116 -183 | -101 -167 | -85 -152 | -69 -136 | -54 -121 | -38 -105 | -23 -89 | -7 -74 |
| 60 | 30.00 | bu | -117 -184 | -99 -165 | -80 -147 | -61 -128 | -43 -109 | -24 -91 | -5 -72 | 12 -53 | 31 -35 | 50 -16 | 68 2 |
| 70 | 35.00 | bu | -72 -139 | -50 -117 | -28 -95 | -7 -73 | 14 -52 | 36 -30 | 58 -8 | 80 13 | 101 35 | 123 56 | 145 78 |
| 80 | 40.00 | bu | -27 -93 | -2 -69 | 22 -44 | 47 -19 | 72 5 | 97 30 | 122 55 | 147 80 | 172 105 | 197 130 | 221 155 |
| 90 | 45.00 | bu | 18 -48 | 46 -20 | 74 7 | 102 35 | 130 63 | 158 91 | 186 119 | 214 147 | 242 175 | 270 203 | 298 231 |
| 100 | 50.00 | bu | 63 -3 | 94 27 | 125 59 | 156 90 | 188 121 | 219 152 | 250 183 | 281 214 | 312 246 | 343 277 | 375 308 |
| 110 | 55.00 | bu | 108 42 | 143 76 | 177 110 | 211 144 | 245 179 | 280 213 | 314 247 | 348 282 | 383 316 | 417 350 | 451 384 |
| 120 | 60.00 | bu | 154 87 | 191 124 | 229 162 | 266 199 | 303 237 | 341 274 | 378 311 | 415 349 | 453 386 | 490 423 | 528 461 |
| 130 | 65.00 | bu | 199 132 | 240 173 | 280 213 | 321 254 | 361 294 | 402 335 | 442 375 | 483 416 | 523 456 | 564 497 | 604 537 |
| 140 | 70.00 | bu | 245 178 | 288 221 | 332 265 | 375 309 | 419 352 | 463 396 | 506 439 | 550 483 | 593 527 | 637 570 | 681 614 |
| 150 | 75.00 | bu | 290 223 | 337 270 | 383 317 | 430 363 | 477 410 | 524 457 | 570 504 | 617 550 | 664 597 | 710 644 | 757 690 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 16.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 2.0000 | 14.00 | _____ |
| HARVEST AIDS | | | | | |
| Gramoxone SL | oz | 0.19 | 16.0000 | 3.04 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.6600 | 18.32 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.0000 | 26.30 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| 2,4-D Amine 4 | pt | 2.64 | 2.0000 | 5.28 | _____ |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Engenia | oz | 0.83 | 12.8000 | 10.62 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Seed RR2X | lb | 1.34 | 50.0000 | 67.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.6000 | 1.98 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 43.0000 | 11.61 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2610 | 3.98 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0894 | 0.82 | _____ |
| UNALLOCATED LABOR | hour | 15.26 | 0.3269 | 4.99 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.0312 | 9.52 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.40 | 1.0000 | 5.40 | _____ |
| Tractors | acre | 2.66 | 1.0000 | 2.66 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 6.00 | 1.0000 | 6.00 | _____ |
| TOTAL DIRECT EXPENSES | | | | 301.91 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.13 | 1.0000 | 10.13 | _____ |
| Tractors | acre | 15.57 | 1.0000 | 15.57 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 41.14 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 343.05 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 43.0000 | 535.78 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 535.78 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 14.00 | 1.0000 | 14.00 | _____ |
| HARVEST AIDS | acre | 3.04 | 1.0000 | 3.04 | _____ |
| FERTILIZERS | acre | 44.62 | 1.0000 | 44.62 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 66.50 | 1.0000 | 66.50 | _____ |
| INSECTICIDES | acre | 6.44 | 1.0000 | 6.44 | _____ |
| SEED/PLANTS | acre | 67.00 | 1.0000 | 67.00 | _____ |
| ADJUVANTS | acre | 1.98 | 1.0000 | 1.98 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 11.61 | 1.0000 | 11.61 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0894 | 0.82 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.3632 | 5.54 | _____ |
| UNALLOCATED LABOR | hour | 15.26 | 0.3269 | 4.99 | _____ |
| DIESEL FUEL | gal | 2.36 | 5.4248 | 12.81 | _____ |
| REPAIR & MAINTENANCE | acre | 12.22 | 1.0000 | 12.22 | _____ |
| INTEREST ON OP. CAP. | acre | 6.00 | 1.0000 | 6.00 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 301.91 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 233.87 | _____ |
| TOTAL FIXED EXPENSES | | | | 41.14 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 343.05 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 192.73 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.3330 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Oct | 1.0000 | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.6600 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.0000 | | | | |
| Disk Harrow | 32' | MFWD 300 | 0.061 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| Field Cultivate Fld | 32' | MFWD 300 | 0.046 | 1.00 | Oct | | 0.04 | 0.04 | 0.04 | 0.04 |
| App by Air (5 gal) | appl | | | 1.00 | Mar | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| 2,4-D Amine 4 | pt | | | | | 2.0000 | | | | |
| Plant - Folding | 16R-30 | MFWD 300 | 0.047 | 1.00 | Apr | | 0.04 | 0.04 | 0.09 | 0.04 |
| Soybean Seed RR2X | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Engenia | oz | | | | | 12.8000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Aug | | 0.02 | 0.02 | 0.04 | 0.02 |
| Acephate 90SP | lb | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | |
| Gramoxone SL | oz | | | | | 16.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Haul Soybeans | bu | | | | | 43.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.01 |
| TOTALS | | | | | | | 0.36 | 0.36 | 0.45 | 0.32 |

Note: Cost of production estimates are based on 2021 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | 7.76 |
| Phosphorus (46% P2O5) | cwt | 18.32 | | | | | | 0.64 | 18.96 | 18.96 |
| Potash (60% K2O) | cwt | 26.30 | | | | | | 0.92 | 27.22 | 27.22 |
| Disk Harrow | 32' | | 2.24 | 1.69 | 1.78 | | | 0.20 | 5.91 | 5.76 |
| Field Cultivate Fld | 32' | | 1.70 | 0.99 | 1.35 | | | 0.14 | 4.18 | 4.83 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.14 | 7.14 | 7.14 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.07 | 3.59 | 3.59 |
| 2,4-D Amine 4 | pt | 5.28 | | | | | | 0.11 | 5.39 | 5.39 |
| Plant - Folding | 16R-30 | | 1.72 | 2.51 | 1.80 | | | 0.11 | 6.14 | 6.41 |
| Soybean Seed RR2X | lb | 67.00 | | | | | | 1.17 | 68.17 | 68.17 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.13 | 7.49 | 7.49 |
| Boundary | pt | 20.90 | | | | | | 0.37 | 21.27 | 21.27 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | 9.28 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | 3.57 |
| Engenia | oz | 10.62 | | | | | | 0.15 | 10.77 | 10.77 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | 10.17 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.09 | 6.59 | 6.59 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | 3.57 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.01 | 2.47 | 1.90 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.04 | 6.48 | 6.48 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | 7.04 |
| Gramoxone SL | oz | 3.04 | | | | | | 0.02 | 3.06 | 3.06 |
| Surfactant | pt | 0.66 | | | | | | | 0.66 | 0.66 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.96 | | | 0.03 | 11.39 | 16.76 |
| Haul Soybeans | bu | 11.61 | | | | | | 0.03 | 11.64 | 11.64 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.61 | | | 0.01 | 1.87 | 1.68 |
| TOTALS | | 259.53 | 12.81 | 12.22 | 11.35 | 0.00 | 6.00 | 301.91 | 41.14 | 343.05 |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 16.E Estimated monthly income and expense flows per acre
Soybeans, full-season, RR2X/XF, April planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 535.78 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 0.00 |
| FERTILIZERS | 44.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.80 | 30.02 | 27.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.44 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 67.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.00 | 0.00 | 0.66 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.61 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.80 | 1.90 | 0.00 | 0.00 | 0.95 | 3.57 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 3.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 2.06 | 0.00 | 0.00 | 1.03 | 4.06 |
| REPAIR & MAINTENANCE | 2.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.51 | 0.96 | 0.00 | 0.00 | 0.48 | 5.59 |
| INTEREST ON OP. CAP. | 2.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 1.96 | 0.57 | 0.00 | 0.00 | 0.11 | 0.07 |
| TOTAL DIRECT EXPENSES | 87.82 | 0.00 | 0.00 | 0.00 | 0.00 | 16.12 | 113.69 | 39.67 | 0.00 | 0.00 | 19.71 | 24.90 |
| NET INCOME | -87.82 | 0.00 | 0.00 | 0.00 | 0.00 | -16.12 | -113.69 | -39.67 | 0.00 | 0.00 | -19.71 | 510.88 |
| NET INCOME TO DATE | -87.82 | -87.82 | -87.82 | -87.82 | -87.82 | -103.94 | -217.63 | -257.30 | -257.30 | -257.30 | -277.01 | 233.87 |

Note: Cost of production estimates are based on 2021 input prices.

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

* Lease costs are based on hourly usage costs.

Table 16.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, April planted, 16R 30"
 Non-Delta Area, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|---------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 21.50 | bu | -95 -136 | -81 -122 | -68 -109 | -54 -96 | -41 -82 | -28 -69 | -14 -55 | -1 -42 | 11 -29 | 25 -15 | 38 -2 |
| 60 | 25.80 | bu | -56 -97 | -40 -81 | -24 -65 | -7 -49 | 8 -32 | 24 -16 | 40 -0 | 56 15 | 72 31 | 88 47 | 104 63 |
| 70 | 30.10 | bu | -17 -58 | 1 -39 | 20 -20 | 39 -2 | 57 16 | 76 35 | 95 54 | 114 72 | 132 91 | 151 110 | 170 129 |
| 80 | 34.40 | bu | 21 -19 | 43 2 | 64 23 | 86 45 | 107 66 | 129 87 | 150 109 | 171 130 | 193 152 | 214 173 | 236 195 |
| 90 | 38.70 | bu | 60 19 | 85 43 | 109 67 | 133 92 | 157 116 | 181 140 | 205 164 | 229 188 | 253 212 | 277 236 | 302 260 |
| 100 | 43.00 | bu | 99 58 | 126 85 | 153 112 | 180 139 | 207 165 | 233 192 | 260 219 | 287 246 | 314 273 | 341 299 | 367 326 |
| 110 | 47.30 | bu | 138 97 | 168 127 | 197 156 | 227 186 | 256 215 | 286 245 | 315 274 | 345 304 | 374 333 | 404 363 | 433 392 |
| 120 | 51.60 | bu | 177 136 | 210 168 | 242 201 | 274 233 | 306 265 | 338 297 | 370 329 | 402 361 | 435 393 | 467 426 | 499 458 |
| 130 | 55.90 | bu | 216 175 | 251 210 | 286 245 | 321 280 | 356 315 | 391 349 | 425 384 | 460 419 | 495 454 | 530 489 | 565 524 |
| 140 | 60.20 | bu | 256 214 | 293 252 | 331 289 | 368 327 | 406 364 | 443 402 | 481 439 | 518 477 | 556 514 | 593 552 | 631 589 |
| 150 | 64.50 | bu | 295 253 | 335 294 | 375 334 | 415 374 | 455 414 | 495 454 | 536 494 | 576 535 | 616 575 | 656 615 | 696 655 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 17.A Estimated costs per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| HARVEST AIDS | | | | | |
| Gramoxone SL | oz | 0.19 | 16.0000 | 3.04 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.6600 | 18.32 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.0000 | 26.30 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 96.0000 | 10.56 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Fierce | oz | 6.50 | 3.5000 | 22.75 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 96.0000 | 18.24 | _____ |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Engenia | oz | 0.83 | 12.8000 | 10.62 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Dimilin 2L | oz | 1.70 | 1.0000 | 1.70 | _____ |
| Bifenthrin | oz | 0.86 | 1.0500 | 0.90 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Seed RR2X | lb | 1.34 | 50.0000 | 67.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 1.4500 | 4.79 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 40.0000 | 10.80 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.3817 | 5.84 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1212 | 1.10 | _____ |
| UNALLOCATED LABOR | hour | 15.24 | 0.4355 | 6.64 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 5.8952 | 13.91 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.90 | 1.0000 | 6.90 | _____ |
| Tractors | acre | 3.87 | 1.0000 | 3.87 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.24 | 1.0000 | 5.24 | _____ |
| TOTAL DIRECT EXPENSES | | | | 342.52 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.04 | 1.0000 | 13.04 | _____ |
| Tractors | acre | 22.77 | 1.0000 | 22.77 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.25 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 393.77 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.B Summary of estimated costs and returns per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 40.0000 | 498.40 | _____ |
| | | | | 498.40 | _____ |
| TOTAL INCOME | | | | 498.40 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HARVEST AIDS | acre | 3.04 | 1.0000 | 3.04 | _____ |
| FERTILIZERS | acre | 44.62 | 1.0000 | 44.62 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 105.82 | 1.0000 | 105.82 | _____ |
| INSECTICIDES | acre | 2.60 | 1.0000 | 2.60 | _____ |
| SEED/PLANTS | acre | 67.00 | 1.0000 | 67.00 | _____ |
| ADJUVANTS | acre | 4.79 | 1.0000 | 4.79 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 10.80 | 1.0000 | 10.80 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1212 | 1.10 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.4839 | 7.40 | _____ |
| UNALLOCATED LABOR | hour | 15.24 | 0.4355 | 6.64 | _____ |
| DIESEL FUEL | gal | 2.36 | 7.2888 | 17.20 | _____ |
| REPAIR & MAINTENANCE | acre | 14.93 | 1.0000 | 14.93 | _____ |
| INTEREST ON OP. CAP. | acre | 5.24 | 1.0000 | 5.24 | _____ |
| | | | | 342.52 | _____ |
| TOTAL DIRECT EXPENSES | | | | 342.52 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 155.88 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.25 | _____ |
| | | | | 393.77 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 393.77 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 104.63 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.C Estimated resource use for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|-----------|---------------|-----|-----------------|-------------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.3330 | | | | |
| Disk Harrow | 32' | MFWD 300 | 0.061 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| Field Cultivate Fld | 32' | MFWD 300 | 0.046 | 1.00 | Oct | | 0.04 | 0.04 | 0.04 | 0.04 |
| Bed/Lister-Roll-Fo | 16R-30 | MFWD 300 | 0.060 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Feb | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| Phosphorus(46% P2O5) | cwt | | | | | 0.6600 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Fierce | oz | | | | | 3.5000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | May | | 0.05 | 0.05 | 0.10 | 0.04 |
| Soybean Seed RR2X | lb | | | | | 50.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | |
| Boundary | pt | | | | | 2.0000 | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | May | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Engenia | oz | | | | | 12.8000 | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jun | | 0.02 | 0.02 | 0.04 | 0.02 |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 0.50 | Jul | | 0.01 | 0.01 | 0.02 | 0.01 |
| Dimilin 2L | oz | | | | | 1.0000 | | | | |
| Surfactant | pt | | | | | 0.0500 | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 0.50 | Aug | | 0.01 | 0.01 | 0.02 | 0.01 |
| Bifenthrin | oz | | | | | 1.0500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Sep | 1.0000 | | | | |
| Gramoxone SL | oz | | | | | 16.0000 | | | | |
| Surfactant | pt | | | | | 0.2000 | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.09 |
| Haul Soybeans | bu | | | | | 40.0000 | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 |
| TOTALS | | | | | | | 0.48 | 0.48 | 0.60 | 0.43 |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 17.D Estimated costs for field operations, per acre
Soybeans, full-season, RR2X/XF, May planted, 16R 30"
Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|---------------|--------------|--------------|--------------|-------------|-------------|---------------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.01 | 3.34 | | 3.34 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.06 | 19.71 | | 19.71 |
| Disk Harrow | 32' | | 2.24 | 1.69 | 1.78 | | | 0.02 | 5.73 | 5.76 | 11.49 |
| Field Cultivate Fld | 32' | | 1.70 | 0.99 | 1.35 | | | 0.01 | 4.05 | 4.83 | 8.88 |
| Bed/Lister-Roll-Fo | 16R-30 | | 2.21 | 1.35 | 1.76 | | | 0.02 | 5.34 | 5.44 | 10.78 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.06 | 2.52 | 1.90 | 4.42 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.09 | 3.61 | | 3.61 |
| Select Max | pt | 12.73 | | | | | | 0.33 | 13.06 | | 13.06 |
| Surfactant | pt | 1.32 | | | | | | 0.03 | 1.35 | | 1.35 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.15 | 7.65 | | 7.65 |
| Phosphorus (46% P2O5) | cwt | 18.32 | | | | | | 0.37 | 18.69 | | 18.69 |
| Potash (60% K2O) | cwt | 26.30 | | | | | | 0.54 | 26.84 | | 26.84 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.05 | 2.51 | 1.90 | 4.41 |
| Fierce | oz | 22.75 | | | | | | 0.46 | 23.21 | | 23.21 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.19 | 9.31 | | 9.31 |
| Surfactant | pt | 1.32 | | | | | | 0.03 | 1.35 | | 1.35 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.94 | | | 0.12 | 6.82 | 7.28 | 14.10 |
| Soybean Seed RR2X | lb | 67.00 | | | | | | 1.17 | 68.17 | | 68.17 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.13 | 7.49 | | 7.49 |
| Boundary | pt | 20.90 | | | | | | 0.37 | 21.27 | | 21.27 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.16 | 9.28 | | 9.28 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 | 4.40 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.06 | 3.58 | | 3.58 |
| Engenia | oz | 10.62 | | | | | | 0.19 | 10.81 | | 10.81 |
| Dual Magnum | pt | 10.02 | | | | | | 0.18 | 10.20 | | 10.20 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.95 | | | 0.04 | 2.50 | 1.90 | 4.40 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.05 | 3.57 | | 3.57 |
| Spray (Broadcast) | 60' | | 0.51 | 0.24 | 0.47 | | | 0.01 | 1.23 | 0.95 | 2.18 |
| Dimilin 2L | oz | 1.70 | | | | | | 0.02 | 1.72 | | 1.72 |
| Surfactant | pt | 0.17 | | | | | | | 0.17 | | 0.17 |
| Spray (Broadcast) | 60' | | 0.51 | 0.24 | 0.47 | | | 0.01 | 1.23 | 0.95 | 2.18 |
| Bifenthrin | oz | 0.90 | | | | | | 0.01 | 0.91 | | 0.91 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | | 7.04 |
| Gramoxone SL | oz | 3.04 | | | | | | 0.02 | 3.06 | | 3.06 |
| Surfactant | pt | 0.66 | | | | | | | 0.66 | | 0.66 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.96 | | | 0.03 | 11.39 | 16.76 | 28.15 |
| Haul Soybeans | bu | 10.80 | | | | | | 0.03 | 10.83 | | 10.83 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.61 | | | 0.01 | 1.87 | 1.68 | 3.55 |
| TOTALS | | | 290.01 | 17.20 | 14.93 | 15.14 | 0.00 | 5.24 | 342.52 | 51.25 | 393.77 |

Note: Cost of production estimates are based on 2021 input prices.

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

Table 17.E Estimated monthly income and expense flows per acre
 Soybeans, full-season, RR2X/XF, May planted, 16R 30"
 Non-Delta Area, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|------|------|------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 498.40 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 |
| HARVEST AIDS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.04 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 44.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 16.25 | 0.00 | 31.87 | 54.18 | 3.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.70 | 0.90 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 67.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 1.32 | 1.32 | 0.00 | 0.17 | 0.00 | 0.66 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.80 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.95 | 0.00 | 0.95 | 2.89 | 0.95 | 0.47 | 0.47 | 0.00 | 8.46 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 1.03 | 0.00 | 1.03 | 2.88 | 1.03 | 0.51 | 0.51 | 0.00 | 10.21 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.48 | 3.39 | 0.48 | 0.24 | 0.24 | 0.00 | 9.62 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 1.79 | 2.55 | 0.09 | 0.03 | 0.02 | 0.06 | 0.19 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 20.54 | 0.00 | 89.56 | 148.07 | 6.07 | 3.12 | 2.14 | 10.76 | 62.26 |
| NET INCOME | 0.00 | 0.00 | 0.00 | -20.54 | 0.00 | -89.56 | -148.07 | -6.07 | -3.12 | -2.14 | -10.76 | 436.14 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | -20.54 | -20.54 | -110.10 | -258.17 | -264.24 | -267.36 | -269.50 | -280.26 | 155.88 |

Note: Cost of production estimates are based on 2021 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

* Lease costs are based on hourly usage costs.

Table 17.F Estimated returns for various price/yield combinations, per acre
 Soybeans, full-season, RR2X/XF, May planted, 16R 30"
 Non-Delta Area, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 20.00 | bu | -150 -201 | -137 -188 | -125 -176 | -112 -164 | -100 -151 | -87 -139 | -75 -126 | -62 -114 | -50 -101 | -38 -89 | -25 -76 |
| 60 | 24.00 | bu | -113 -165 | -98 -150 | -84 -135 | -69 -120 | -54 -105 | -39 -90 | -24 -75 | -9 -60 | 5 -45 | 20 -30 | 35 -15 |
| 70 | 28.00 | bu | -77 -128 | -60 -111 | -42 -93 | -25 -76 | -7 -59 | 9 -41 | 27 -24 | 44 -6 | 61 10 | 79 28 | 96 45 |
| 80 | 32.00 | bu | -41 -92 | -21 -72 | -1 -52 | 18 -32 | 38 -12 | 58 7 | 78 27 | 98 46 | 118 66 | 138 86 | 158 106 |
| 90 | 36.00 | bu | -5 -56 | 17 -33 | 39 -11 | 62 11 | 84 33 | 107 55 | 129 78 | 151 100 | 174 123 | 196 145 | 219 168 |
| 100 | 40.00 | bu | 31 -19 | 56 4 | 81 29 | 106 54 | 130 79 | 155 104 | 180 129 | 205 154 | 230 179 | 255 204 | 280 229 |
| 110 | 44.00 | bu | 67 16 | 94 43 | 122 71 | 149 98 | 177 125 | 204 153 | 232 180 | 259 208 | 286 235 | 314 263 | 341 290 |
| 120 | 48.00 | bu | 103 52 | 133 82 | 163 112 | 193 142 | 223 172 | 253 202 | 283 232 | 313 261 | 343 291 | 373 321 | 402 351 |
| 130 | 52.00 | bu | 140 88 | 172 121 | 204 153 | 237 186 | 269 218 | 302 250 | 334 283 | 366 315 | 399 348 | 431 380 | 464 412 |
| 140 | 56.00 | bu | 176 125 | 211 160 | 246 194 | 281 229 | 316 264 | 350 299 | 385 334 | 420 369 | 455 404 | 490 439 | 525 474 |
| 150 | 60.00 | bu | 212 161 | 250 198 | 287 236 | 324 273 | 362 311 | 399 348 | 437 385 | 474 423 | 511 460 | 549 497 | 586 535 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 18.A Estimated costs per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 3.0000 | 21.00 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 0.8700 | 24.14 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.3300 | 34.98 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 1.6000 | 7.36 | _____ |
| HERBICIDES | | | | | |
| Boundary | pt | 10.45 | 2.0000 | 20.90 | _____ |
| Gramoxone SL 2.0 | oz | 0.19 | 48.0000 | 9.12 | _____ |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Engenia | oz | 0.83 | 12.8000 | 10.62 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| INSECTICIDES | | | | | |
| Acephate 90SP | lb | 8.58 | 0.7500 | 6.44 | _____ |
| Prevathon | oz | 1.12 | 14.0000 | 15.68 | _____ |
| Bifenthrin | oz | 0.86 | 6.4000 | 5.50 | _____ |
| IncidentalPestTrt \$8 | acre | 8.00 | 1.0000 | 8.00 | _____ |
| SEED/PLANTS | | | | | |
| Soybean Seed RR2X | lb | 1.34 | 50.0000 | 67.00 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.5000 | 1.65 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Soybeans | bu | 0.27 | 25.0000 | 6.75 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | | | | | |
| Inoculant -Soybean | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.1002 | 1.53 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0648 | 0.59 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 1.5477 | 3.65 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 3.80 | 1.0000 | 3.80 | _____ |
| Tractors | acre | 1.02 | 1.0000 | 1.02 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.73 | 1.0000 | 5.73 | _____ |
| TOTAL DIRECT EXPENSES | | | | 319.20 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 6.20 | 1.0000 | 6.20 | _____ |
| Tractors | acre | 5.98 | 1.0000 | 5.98 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 27.62 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 346.82 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.B Summary of estimated costs and returns per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Soybeans | bu | 12.46 | 25.0000 | 311.50 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 311.50 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 21.00 | 1.0000 | 21.00 | _____ |
| FERTILIZERS | acre | 59.12 | 1.0000 | 59.12 | _____ |
| FUNGICIDES | acre | 7.36 | 1.0000 | 7.36 | _____ |
| HERBICIDES | acre | 54.18 | 1.0000 | 54.18 | _____ |
| INSECTICIDES | acre | 35.62 | 1.0000 | 35.62 | _____ |
| SEED/PLANTS | acre | 67.00 | 1.0000 | 67.00 | _____ |
| ADJUVANTS | acre | 1.65 | 1.0000 | 1.65 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 6.75 | 1.0000 | 6.75 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| CROP CONSULTANT | acre | 6.50 | 1.0000 | 6.50 | _____ |
| INOCULANT | acre | 1.55 | 1.0000 | 1.55 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.0648 | 0.59 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.2024 | 3.09 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.1740 | 2.66 | _____ |
| DIESEL FUEL | gal | 2.36 | 2.9413 | 6.94 | _____ |
| REPAIR & MAINTENANCE | acre | 8.98 | 1.0000 | 8.98 | _____ |
| INTEREST ON OP. CAP. | acre | 5.73 | 1.0000 | 5.73 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 319.20 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | -7.70 | _____ |
| TOTAL FIXED EXPENSES | | | | 27.62 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 346.82 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | -35.32 | _____ |

Note: Cost of production estimates are based on 2021 input prices. These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.C Estimated resource use for field operations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR | |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|------|
| -----hours----- | | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Nov | 0.3330 | | | | | |
| Lime (Spread) | ton | | | 0.33 | Nov | 0.3330 | | | | | |
| Custom Apply Fert | acre | | | 1.00 | Nov | 1.0000 | | | | | |
| Phosphorus (46% P2O5) | cwt | | | | | 0.8700 | | | | | |
| Potash (60% K2O) | cwt | | | | | 1.3300 | | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | | |
| Plant & Pre-Folding | 16R-30 | MFWD 300 | 0.050 | 1.00 | Jun | | 0.05 | 0.05 | 0.10 | 0.04 | |
| Soybean Seed RR2X | lb | | | | | 50.0000 | | | | | |
| CruiserMaxx Vibrance | oz | | | | | 1.6000 | | | | | |
| Inoculant -Soybean | acre | | | | | 1.0000 | | | | | |
| Boundary | pt | | | | | 2.0000 | | | | | |
| Gramoxone SL 2.0 | oz | | | | | 48.0000 | | | | | |
| Surfactant | pt | | | | | 0.4000 | | | | | |
| Spray (Broadcast) | 60' | MFWD 300 | 0.028 | 1.00 | Jul | | 0.02 | 0.02 | 0.04 | 0.02 | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | | |
| Engenia | oz | | | | | 12.8000 | | | | | |
| Dual Magnum | pt | | | | | 1.0000 | | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | | |
| Acephate 90SP | lb | | | | | 0.7500 | | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Aug | 1.0000 | | | | | |
| Prevathon | oz | | | | | 14.0000 | | | | | |
| Surfactant | pt | | | | | 0.1000 | | | | | |
| Bifenthrin | oz | | | | | 6.4000 | | | | | |
| Incidental Pest | | | | 1.00 | Sep | | | | | | |
| App by Air (5 gal) | appl | | | | | 1.0000 | | | | | |
| IncidentalPestTrt \$8 | acre | | | | | 1.0000 | | | | | |
| Header -Soybean | 25' Flex | 265 hp | 0.102 | 1.00 | Oct | | 0.10 | 0.10 | 0.10 | 0.08 | |
| Haul Soybeans | bu | | | | | 25.0000 | | | | | |
| Grain Cart Soybean | 700 bu | MFWD 300 | 0.021 | 1.00 | Oct | | 0.02 | 0.02 | 0.02 | 0.01 | |
| TOTALS | | | | | | | | 0.20 | 0.20 | 0.26 | 0.17 |

Note: Cost of production estimates are based on 2021 input prices.
 These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.D Estimated costs for field operations, per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|------|------|-------|-------|-------|--------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.69 | 20.34 | | 20.34 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.26 | 7.76 | | 7.76 |
| Phosphorus (46% P2O5) | cwt | 24.14 | | | | | | 0.84 | 24.98 | | 24.98 |
| Potash (60% K2O) | cwt | 34.98 | | | | | | 1.22 | 36.20 | | 36.20 |
| Soybeans Consultant | acre | 6.50 | | | | | | 0.11 | 6.61 | | 6.61 |
| Plant & Pre-Folding | 16R-30 | | 1.85 | 2.91 | 1.91 | | | 0.10 | 6.77 | 7.28 | 14.05 |
| Soybean Seed RR2X | lb | 67.00 | | | | | | 0.98 | 67.98 | | 67.98 |
| CruiserMaxx Vibrance | oz | 7.36 | | | | | | 0.11 | 7.47 | | 7.47 |
| Inoculant -Soybean | acre | 1.55 | | | | | | 0.02 | 1.57 | | 1.57 |
| Boundary | pt | 20.90 | | | | | | 0.30 | 21.20 | | 21.20 |
| Gramoxone SL 2.0 | oz | 9.12 | | | | | | 0.13 | 9.25 | | 9.25 |
| Surfactant | pt | 1.32 | | | | | | 0.02 | 1.34 | | 1.34 |
| Spray (Broadcast) | 60' | | 1.03 | 0.48 | 0.93 | | | 0.03 | 2.47 | 1.90 | 4.37 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.04 | 3.56 | | 3.56 |
| Engenia | oz | 10.62 | | | | | | 0.12 | 10.74 | | 10.74 |
| Dual Magnum | pt | 10.02 | | | | | | 0.12 | 10.14 | | 10.14 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | | 7.06 |
| Acephate 90SP | lb | 6.44 | | | | | | 0.06 | 6.50 | | 6.50 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | | 7.06 |
| Prevathon | oz | 15.68 | | | | | | 0.14 | 15.82 | | 15.82 |
| Surfactant | pt | 0.33 | | | | | | | 0.33 | | 0.33 |
| Bifenthrin | oz | 5.50 | | | | | | 0.05 | 5.55 | | 5.55 |
| Incidental Pest | | | | | | | | | | | |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.04 | 7.04 | | 7.04 |
| IncidentalPestTrt \$8 | acre | 8.00 | | | | | | 0.05 | 8.05 | | 8.05 |
| Header -Soybean | 25' Flex | | 3.29 | 5.11 | 2.90 | | | 0.03 | 11.33 | 16.76 | 28.09 |
| Haul Soybeans | bu | 6.75 | | | | | | 0.02 | 6.77 | | 6.77 |
| Grain Cart Soybean | 700 bu | | 0.77 | 0.48 | 0.60 | | | 0.01 | 1.86 | 1.68 | 3.54 |
| TOTALS | | 291.21 | 6.94 | 8.98 | 6.34 | 0.00 | 5.73 | 319.20 | 27.62 | 346.82 | |

Note: Cost of production estimates are based on 2021 input prices.
These fertilizer rates are based on the assumption that 30-40% of the soybean fields would be mixed to light textured fields and not heavy clay exclusively. Also, rates are based on maintenance levels associated with the expected yield in the budget. **Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.** The budget does not include a second fungicide application to control Asian soybean rust, but the cost of treatment could range from \$10 to \$18 plus application cost per acre.

Table 18.E Estimated monthly income and expense flows per acre
Soybeans, double crop after wheat, RR2X/XF, 16R 30"
Non-irrigated, All Areas, Mississippi, 2022

| ITEM | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 311.50 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.00 | 7.00 | 0.00 |
| FERTILIZERS | 59.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 30.02 | 24.16 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.62 | 8.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 67.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.00 | 0.33 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.75 |
| CUSTOM LIME | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.91 | 0.93 | 0.00 | 0.00 | 3.50 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.85 | 1.03 | 0.00 | 0.00 | 4.06 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.91 | 0.48 | 0.00 | 0.00 | 5.59 |
| INTEREST ON OP. CAP. | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.66 | 0.31 | 0.37 | 0.09 | 0.06 |
| TOTAL DIRECT EXPENSES | 92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.61 | 115.58 | 26.91 | 42.32 | 15.09 | 19.96 |
| NET INCOME | -92.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -6.61 | -115.58 | -26.91 | -42.32 | -15.09 | 291.54 |
| NET INCOME TO DATE | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -92.73 | -99.34 | -214.92 | -241.83 | -284.15 | -299.24 | -7.70 |

Note: Cost of production estimates are based on 2021 input prices.

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

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

* Lease costs are based on hourly usage costs.

Table 18.F Estimated returns for various price/yield combinations, per acre
 Soybeans, double crop after wheat, RR2X/XF, 16R 30"
 Non-irrigated, All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|----------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Soybeans | | | 9.34 | 9.96 | 10.59 | 11.21 | 11.83 | 12.46 | 13.08 | 13.70 | 14.32 | 14.95 | 15.57 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 12.50 | bu | -199 -226 | -191 -218 | -183 -211 | -175 -203 | -167 -195 | -160 -187 | -152 -179 | -144 -172 | -136 -164 | -128 -156 | -121 -148 |
| 60 | 15.00 | bu | -176 -203 | -166 -194 | -157 -185 | -148 -175 | -138 -166 | -129 -157 | -120 -147 | -110 -138 | -101 -129 | -92 -119 | -82 -110 |
| 70 | 17.50 | bu | -153 -181 | -142 -170 | -131 -159 | -120 -148 | -110 -137 | -99 -126 | -88 -115 | -77 -104 | -66 -94 | -55 -83 | -44 -72 |
| 80 | 20.00 | bu | -130 -158 | -118 -146 | -106 -133 | -93 -121 | -81 -108 | -68 -96 | -56 -83 | -43 -71 | -31 -58 | -18 -46 | -6 -33 |
| 90 | 22.50 | bu | -108 -135 | -94 -121 | -80 -107 | -66 -93 | -52 -79 | -38 -65 | -24 -51 | -10 -37 | 3 -23 | 17 -9 | 31 4 |
| 100 | 25.00 | bu | -85 -113 | -70 -97 | -54 -82 | -38 -66 | -23 -50 | -7 -35 | 7 -19 | 23 -4 | 39 11 | 54 26 | 70 42 |
| 110 | 27.50 | bu | -62 -90 | -45 -73 | -28 -56 | -11 -39 | 5 -21 | 22 -4 | 39 12 | 57 29 | 74 46 | 91 63 | 108 80 |
| 120 | 30.00 | bu | -40 -67 | -21 -49 | -2 -30 | 15 -11 | 34 6 | 53 25 | 71 44 | 90 63 | 109 81 | 128 100 | 146 119 |
| 130 | 32.50 | bu | -17 -45 | 2 -24 | 22 -4 | 43 15 | 63 35 | 83 56 | 103 76 | 124 96 | 144 116 | 164 137 | 184 157 |
| 140 | 35.00 | bu | 5 -22 | 26 -0 | 48 21 | 70 42 | 92 64 | 114 86 | 135 108 | 157 130 | 179 151 | 201 173 | 223 195 |
| 150 | 37.50 | bu | 27 0 | 51 23 | 74 46 | 97 70 | 121 93 | 144 117 | 168 140 | 191 163 | 214 187 | 238 210 | 261 233 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 19.A Estimated costs per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| App by Air (3 gal) | appl | 5.60 | 1.2000 | 6.72 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus(46% P2O5) | cwt | 27.75 | 1.6300 | 45.23 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.2500 | 32.88 | _____ |
| UAN + Sulfur (28%) | gal | 2.05 | 56.0263 | 114.85 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Atrazine 4L | pt | 1.67 | 4.0000 | 6.68 | _____ |
| Halex GT | pt | 5.82 | 3.6000 | 20.95 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.86 | 1.2804 | 1.10 | _____ |
| Intrepid 2F | oz | 1.91 | 4.0000 | 7.64 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed RR2 | thous | 3.25 | 28.0000 | 91.00 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 170.0000 | 39.10 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4295 | 6.56 | _____ |
| Harvesters | hour | 15.27 | 0.1277 | 1.95 | _____ |
| Self-Propelled | hour | 15.27 | 0.0176 | 0.27 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1442 | 1.31 | _____ |
| Self-Propelled | hour | 9.06 | 0.0088 | 0.08 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.26 | 0.5173 | 7.90 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.9741 | 11.74 | _____ |
| Harvesters | gal | 2.36 | 1.7419 | 4.11 | _____ |
| Self-Propelled | gal | 2.36 | 0.1586 | 0.37 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 10.07 | 1.0000 | 10.07 | _____ |
| Tractors | acre | 3.34 | 1.0000 | 3.34 | _____ |
| Harvesters | acre | 5.20 | 1.0000 | 5.20 | _____ |
| Self-Propelled | acre | 0.20 | 1.0000 | 0.20 | _____ |
| INTEREST ON OP. CAP. | acre | 10.38 | 1.0000 | 10.38 | _____ |
| TOTAL DIRECT EXPENSES | | | | 514.51 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.89 | 1.0000 | 13.89 | _____ |
| Tractors | acre | 19.63 | 1.0000 | 19.63 | _____ |
| Harvesters | acre | 19.30 | 1.0000 | 19.30 | _____ |
| Self-Propelled | acre | 1.26 | 1.0000 | 1.26 | _____ |
| TOTAL FIXED EXPENSES | | | | 54.08 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 568.59 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 5.17 | 170.0000 | 878.90 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 878.90 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 13.72 | 1.0000 | 13.72 | _____ |
| FERTILIZERS | acre | 192.97 | 1.0000 | 192.97 | _____ |
| HERBICIDES | acre | 49.38 | 1.0000 | 49.38 | _____ |
| INSECTICIDES | acre | 8.74 | 1.0000 | 8.74 | _____ |
| SEED/PLANTS | acre | 91.00 | 1.0000 | 91.00 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 39.10 | 1.0000 | 39.10 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1530 | 1.39 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.5748 | 8.78 | _____ |
| UNALLOCATED LABOR | hour | 15.26 | 0.5173 | 7.90 | _____ |
| DIESEL FUEL | gal | 2.36 | 6.8748 | 16.22 | _____ |
| REPAIR & MAINTENANCE | acre | 18.81 | 1.0000 | 18.81 | _____ |
| INTEREST ON OP. CAP. | acre | 10.38 | 1.0000 | 10.38 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 514.51 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 364.39 | _____ |
| TOTAL FIXED EXPENSES | | | | 54.08 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 568.59 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 310.31 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.6660 | | | | |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Oct | | 0.04 | 0.04 | 0.08 | 0.03 |
| Phosphorus (46% P2O5) | cwt | | | | | 1.6300 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.2500 | | | | |
| Disk Heavy | 28' | MFWD 225 | 0.075 | 1.00 | Oct | | 0.07 | 0.07 | 0.07 | 0.06 |
| Bed/Disk w/roller | 12R-30/40 | MFWD 225 | 0.062 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Plant - Rigid | 12R-30 | MFWD 225 | 0.062 | 1.00 | Mar | | 0.06 | 0.06 | 0.12 | 0.05 |
| Corn Seed RR2 | thous | | | | | 28.0000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| UAN + Sulfur (28%) | gal | | | | | 19.3063 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Atrazine 4L | pt | | | | | 4.0000 | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN + Sulfur (28%) | gal | | | | | 36.7200 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| App by Air (3 gal) | appl | | | 0.20 | May | 0.2000 | | | | |
| Bifenthrin | oz | | | | | 1.2804 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | Jun | 1.0000 | | | | |
| Intrepid 2F | oz | | | | | 4.0000 | | | | |
| Header - Corn | 8R-30 | 265 hp | 0.127 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.11 |
| Grain Cart Corn | 500 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 170.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.57 | 0.55 | 0.72 | 0.51 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 19.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.60 | | | 0.12 | 3.54 | 2.56 | 6.10 |
| Phosphorus(46% P2O5) | cwt | 45.23 | | | | | | 1.58 | 46.81 | | 46.81 |
| Potash (60% K2O) | cwt | 32.88 | | | | | | 1.15 | 34.03 | | 34.03 |
| Disk Heavy | 28' | | 2.07 | 1.79 | 2.20 | | | 0.21 | 6.27 | 5.81 | 12.08 |
| Bed/Disk w/roller | 12R-30/40 | | 1.71 | 1.28 | 1.81 | | | 0.17 | 4.97 | 4.81 | 9.78 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | | 7.16 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Select Max | pt | 12.73 | | | | | | 0.30 | 13.03 | | 13.03 |
| Plant - Rigid | 12R-30 | | 1.72 | 2.00 | 2.39 | | | 0.12 | 6.23 | 5.54 | 11.77 |
| Corn Seed RR2 | thous | 91.00 | | | | | | 1.86 | 92.86 | | 92.86 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.13 | 7.63 | | 7.63 |
| UAN + Sulfur (28%) | gal | 39.58 | | | | | | 0.69 | 40.27 | | 40.27 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.59 | | | 0.02 | 1.18 | 1.26 | 2.44 |
| Atrazine 4L | pt | 6.68 | | | | | | 0.12 | 6.80 | | 6.80 |
| Halex GT | pt | 20.95 | | | | | | 0.37 | 21.32 | | 21.32 |
| Fert Appl (Liquid) | 12R-30 | | 2.15 | 1.97 | 2.64 | | | 0.10 | 6.86 | 5.02 | 11.88 |
| UAN + Sulfur (28%) | gal | 75.28 | | | | | | 1.10 | 76.38 | | 76.38 |
| Corn Consultant | acre | 6.00 | | | | | | 0.09 | 6.09 | | 6.09 |
| App by Air (3 gal) | appl | 1.12 | | | | | | 0.02 | 1.14 | | 1.14 |
| Bifenthrin | oz | 1.10 | | | | | | 0.02 | 1.12 | | 1.12 |
| App by Air (3 gal) | appl | 5.60 | | | | | | 0.07 | 5.67 | | 5.67 |
| Intrepid 2F | oz | 7.64 | | | | | | 0.09 | 7.73 | | 7.73 |
| Header - Corn | 8R-30 | | 4.11 | 7.47 | 3.71 | | | 0.04 | 15.33 | 22.49 | 37.82 |
| Grain Cart Corn | 500 bu | | 0.69 | 0.40 | 0.74 | | | 0.01 | 1.84 | 1.48 | 3.32 |
| Haul Corn | bu | 39.10 | | | | | | 0.11 | 39.21 | | 39.21 |
| Stalk Shredder Flex | 20' | | 2.25 | 3.03 | 2.39 | | | 0.02 | 7.69 | 5.11 | 12.80 |
| TOTALS | | 451.03 | 16.22 | 18.81 | 18.07 | 0.00 | 10.38 | 514.51 | 54.08 | 568.59 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 19.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 878.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 1.12 | 5.60 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 78.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 39.58 | 75.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 21.75 | 0.00 | 27.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 7.64 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 39.10 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 5.61 | 0.00 | 0.00 | 0.00 | 0.00 | 2.39 | 0.59 | 2.64 | 0.00 | 0.00 | 0.00 | 6.84 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.93 | 0.00 | 0.00 | 0.00 | 0.00 | 1.72 | 0.37 | 2.15 | 0.00 | 0.00 | 0.00 | 7.05 |
| REPAIR & MAINTENANCE | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.20 | 1.97 | 0.00 | 0.00 | 0.00 | 10.90 |
| INTEREST ON OP. CAP. | 4.73 | 0.00 | 0.00 | 0.00 | 0.67 | 1.98 | 1.33 | 1.33 | 0.16 | 0.00 | 0.00 | 0.18 |
| TOTAL DIRECT EXPENSES | 139.74 | 0.00 | 0.00 | 0.00 | 29.42 | 99.09 | 77.20 | 91.59 | 13.40 | 0.00 | 0.00 | 64.07 |
| NET INCOME | -139.74 | 0.00 | 0.00 | 0.00 | -29.42 | -99.09 | -77.20 | -91.59 | -13.40 | 0.00 | 0.00 | 814.83 |
| NET INCOME TO DATE | -139.74 | -139.74 | -139.74 | -139.74 | -169.16 | -268.25 | -345.45 | -437.04 | -450.44 | -450.44 | -450.44 | 364.39 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 19.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, RR2 seed, 12-row 30",
 170 bu yield goal, Non-Delta, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|---------|---------|------|--------------|--------------|--------------|-------------|-------------|-------------|------------|------------|------------|-------------|--------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| Corn | 3.87 | 4.13 | 4.39 | 4.65 | 4.91 | 5.17 | 5.42 | 5.68 | 5.94 | 6.20 | 6.46 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 85.00 | bu | -165 -219 | -143 -197 | -121 -175 | -99 -153 | -77 -131 | -55 -109 | -33 -87 | -11 -65 | 10 -43 | 32 -21 | 54 0 |
| 60 | 102.00 | bu | -103 -157 | -76 -131 | -50 -104 | -24 -78 | 2 -51 | 28 -25 | 54 0 | 81 27 | 107 53 | 133 79 | 160 106 |
| 70 | 119.00 | bu | -41 -95 | -10 -64 | 20 -33 | 50 -3 | 81 27 | 112 58 | 143 89 | 174 119 | 204 150 | 235 181 | 266 212 |
| 80 | 136.00 | bu | 20 -33 | 55 1 | 90 36 | 126 72 | 161 107 | 196 142 | 231 177 | 266 212 | 301 247 | 337 282 | 372 318 |
| 90 | 153.00 | bu | 82 28 | 122 68 | 161 107 | 201 147 | 240 186 | 280 226 | 319 265 | 359 305 | 399 344 | 438 384 | 478 424 |
| 100 | 170.00 | bu | 144 90 | 188 134 | 232 178 | 276 222 | 320 266 | 364 310 | 408 354 | 452 398 | 496 442 | 540 486 | 584 530 |
| 110 | 187.00 | bu | 206 152 | 255 200 | 303 249 | 351 297 | 400 345 | 448 394 | 496 442 | 545 490 | 593 539 | 641 587 | 690 635 |
| 120 | 204.00 | bu | 268 214 | 321 267 | 374 320 | 426 372 | 479 425 | 532 478 | 585 530 | 637 583 | 690 636 | 743 689 | 795 741 |
| 130 | 221.00 | bu | 330 276 | 387 333 | 444 390 | 502 447 | 559 505 | 616 562 | 673 619 | 730 676 | 787 733 | 844 790 | 901 847 |
| 140 | 238.00 | bu | 392 338 | 454 400 | 515 461 | 577 523 | 638 584 | 700 646 | 761 707 | 823 769 | 884 830 | 946 892 | 1007 953 |
| 150 | 255.00 | bu | 454 400 | 520 466 | 586 532 | 652 598 | 718 664 | 784 730 | 850 796 | 916 861 | 981 927 | 1047 993 | 1113 1059 |

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

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

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

Note: Cost of production estimates are based on 2021 input prices.

Table 20.A Estimated costs per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| App by Air (3 gal) | appl | 5.60 | 1.2000 | 6.72 | _____ |
| FERTILIZERS | | | | | |
| Phosphorus (46% P2O5) | cwt | 27.75 | 1.6300 | 45.23 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.2500 | 32.88 | _____ |
| UAN + Sulfur (28%) | gal | 2.05 | 56.0263 | 114.85 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Atrazine 4L | pt | 1.67 | 4.0000 | 6.68 | _____ |
| Halex GT | pt | 5.82 | 3.6000 | 20.95 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.86 | 1.2804 | 1.10 | _____ |
| Intrepid 2F | oz | 1.91 | 4.0000 | 7.64 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed RR2 | thous | 3.25 | 28.0000 | 91.00 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 220.0000 | 50.60 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6600 | 38.94 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.4137 | 6.32 | _____ |
| Harvesters | hour | 15.27 | 0.1277 | 1.95 | _____ |
| Self-Propelled | hour | 15.27 | 0.0176 | 0.27 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2036 | 1.84 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1285 | 1.17 | _____ |
| Self-Propelled | hour | 9.06 | 0.0088 | 0.08 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.28 | 0.5032 | 7.69 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.7921 | 11.31 | _____ |
| Harvesters | gal | 2.36 | 1.7419 | 4.11 | _____ |
| Self-Propelled | gal | 2.36 | 0.1586 | 0.37 | _____ |
| 1/4-mi. Pivot Irr. | gal | 2.36 | 11.2011 | 26.43 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 10.59 | 1.0000 | 10.59 | _____ |
| Tractors | acre | 3.22 | 1.0000 | 3.22 | _____ |
| Harvesters | acre | 5.20 | 1.0000 | 5.20 | _____ |
| Self-Propelled | acre | 0.20 | 1.0000 | 0.20 | _____ |
| 1/4-mi. Pivot Irr. | acre | 21.95 | 1.0000 | 21.95 | _____ |
| INTEREST ON OP. CAP. | acre | 11.03 | 1.0000 | 11.03 | _____ |
| TOTAL DIRECT EXPENSES | | | | 575.88 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 14.82 | 1.0000 | 14.82 | _____ |
| Tractors | acre | 18.91 | 1.0000 | 18.91 | _____ |
| Harvesters | acre | 19.30 | 1.0000 | 19.30 | _____ |
| Self-Propelled | acre | 1.26 | 1.0000 | 1.26 | _____ |
| 1/4-mi. Pivot Irr. | acre | 68.70 | 1.0000 | 68.70 | _____ |
| TOTAL FIXED EXPENSES | | | | 122.99 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 698.87 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.B Summary of estimated costs and returns per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 5.17 | 220.0000 | 1137.40 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1137.40 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 13.72 | 1.0000 | 13.72 | _____ |
| FERTILIZERS | acre | 192.97 | 1.0000 | 192.97 | _____ |
| HERBICIDES | acre | 49.38 | 1.0000 | 49.38 | _____ |
| INSECTICIDES | acre | 8.74 | 1.0000 | 8.74 | _____ |
| SEED/PLANTS | acre | 91.00 | 1.0000 | 91.00 | _____ |
| CUSTOM FERTILIZE | acre | 7.50 | 1.0000 | 7.50 | _____ |
| HAULING | acre | 50.60 | 1.0000 | 50.60 | _____ |
| CUSTOM LIME | acre | 38.94 | 1.0000 | 38.94 | _____ |
| CROP CONSULTANT | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1373 | 1.25 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.2036 | 1.84 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.5591 | 8.54 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.5032 | 7.69 | _____ |
| DIESEL FUEL | gal | 2.36 | 17.8938 | 42.22 | _____ |
| REPAIR & MAINTENANCE | acre | 41.16 | 1.0000 | 41.16 | _____ |
| INTEREST ON OP. CAP. | acre | 11.03 | 1.0000 | 11.03 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 575.88 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 561.52 | _____ |
| TOTAL FIXED EXPENSES | | | | 122.99 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 698.87 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 438.53 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.C Estimated resource use for field operations, per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3300 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.6600 | | | | |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Oct | | 0.04 | 0.04 | 0.08 | 0.03 |
| Phosphorus (46% P2O5) | cwt | | | | | 1.6300 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.2500 | | | | |
| Disk Heavy | 28' | MFWD 225 | 0.075 | 1.00 | Oct | | 0.07 | 0.07 | 0.07 | 0.06 |
| Bed/Disk w/roller | 12R-30/40 | MFWD 225 | 0.062 | 1.00 | Oct | | 0.06 | 0.06 | 0.06 | 0.05 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Plant - Folding | 16R-30 | MFWD 225 | 0.047 | 1.00 | Mar | | 0.04 | 0.04 | 0.09 | 0.04 |
| Corn Seed RR2 | thous | | | | | 28.0000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| UAN + Sulfur (28%) | gal | | | | | 19.3063 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Atrazine 4L | pt | | | | | 4.0000 | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN + Sulfur (28%) | gal | | | | | 36.7200 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | May | 0.2000 | | | | |
| Bifenthrin | oz | | | | | 1.2804 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | Jun | 1.0000 | | | | |
| Intrepid 2F | oz | | | | | 4.0000 | | | | |
| Header - Corn | 8R-30 | 265 hp | 0.127 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.11 |
| Grain Cart Corn | 500 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 220.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| 1/4-mi. Pivot Irr. | acre | | | | Jul | 1.0000 | | | 0.20 | |
| TOTALS | | | | | | | 0.55 | 0.54 | 0.90 | 0.50 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.D Estimated costs for field operations, per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.30 | | | | | | 0.12 | 3.42 | | 3.42 |
| Lime (Spread) | ton | 38.94 | | | | | | 1.36 | 40.30 | | 40.30 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.60 | | | 0.12 | 3.54 | 2.56 | 6.10 |
| Phosphorus(46% P2O5) | cwt | 45.23 | | | | | | 1.58 | 46.81 | | 46.81 |
| Potash (60% K2O) | cwt | 32.88 | | | | | | 1.15 | 34.03 | | 34.03 |
| Disk Heavy | 28' | | 2.07 | 1.79 | 2.20 | | | 0.21 | 6.27 | 5.81 | 12.08 |
| Bed/Disk w/roller | 12R-30/40 | | 1.71 | 1.28 | 1.81 | | | 0.17 | 4.97 | 4.81 | 9.78 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | | 7.16 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | | 5.63 |
| Select Max | pt | 12.73 | | | | | | 0.30 | 13.03 | | 13.03 |
| Plant - Folding | 16R-30 | | 1.29 | 2.40 | 1.80 | | | 0.11 | 5.60 | 5.75 | 11.35 |
| Corn Seed RR2 | thous | 91.00 | | | | | | 1.86 | 92.86 | | 92.86 |
| Custom Apply Fert | acre | 7.50 | | | | | | 0.13 | 7.63 | | 7.63 |
| UAN + Sulfur (28%) | gal | 39.58 | | | | | | 0.69 | 40.27 | | 40.27 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.59 | | | 0.02 | 1.18 | 1.26 | 2.44 |
| Atrazine 4L | pt | 6.68 | | | | | | 0.12 | 6.80 | | 6.80 |
| Halex GT | pt | 20.95 | | | | | | 0.37 | 21.32 | | 21.32 |
| Fert Appl (Liquid) | 12R-30 | | 2.15 | 1.97 | 2.64 | | | 0.10 | 6.86 | 5.02 | 11.88 |
| UAN + Sulfur (28%) | gal | 75.28 | | | | | | 1.10 | 76.38 | | 76.38 |
| Corn Consultant | acre | 6.00 | | | | | | 0.09 | 6.09 | | 6.09 |
| App by Air (3 gal) | appl | 1.12 | | | | | | 0.02 | 1.14 | | 1.14 |
| Bifenthrin | oz | 1.10 | | | | | | 0.02 | 1.12 | | 1.12 |
| App by Air (3 gal) | appl | 5.60 | | | | | | 0.07 | 5.67 | | 5.67 |
| Intrepid 2F | oz | 7.64 | | | | | | 0.09 | 7.73 | | 7.73 |
| Header - Corn | 8R-30 | | 4.11 | 7.47 | 3.71 | | | 0.04 | 15.33 | 22.49 | 37.82 |
| Grain Cart Corn | 500 bu | | 0.69 | 0.40 | 0.74 | | | 0.01 | 1.84 | 1.48 | 3.32 |
| Haul Corn | bu | 50.60 | | | | | | 0.15 | 50.75 | | 50.75 |
| Stalk Shredder Flex | 20' | | 2.25 | 3.03 | 2.39 | | | 0.02 | 7.69 | 5.11 | 12.80 |
| 1/4-mi. Pivot Irr. | acre | | 26.43 | 21.95 | 1.84 | | | 0.64 | 50.86 | 68.70 | 119.56 |
| TOTALS | | 462.15 | 42.22 | 41.16 | 19.32 | 0.00 | 11.03 | 575.88 | 122.99 | 698.87 | |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 20.E Estimated monthly income and expense flows per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1137.40 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 1.12 | 5.60 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 78.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 39.58 | 75.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 21.75 | 0.00 | 27.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 7.64 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.60 |
| CUSTOM LIME | 38.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 5.61 | 0.00 | 0.00 | 0.00 | 0.00 | 1.80 | 1.93 | 2.79 | 0.20 | 0.15 | 0.00 | 6.84 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 4.93 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 | 0.37 | 10.08 | 10.57 | 7.93 | 0.00 | 7.05 |
| REPAIR & MAINTENANCE | 3.74 | 0.00 | 0.00 | 0.00 | 0.00 | 2.40 | 0.20 | 20.44 | 1.99 | 1.49 | 0.00 | 10.90 |
| INTEREST ON OP. CAP. | 4.71 | 0.00 | 0.00 | 0.00 | 0.67 | 1.97 | 1.35 | 1.72 | 0.31 | 0.08 | 0.00 | 0.22 |
| TOTAL DIRECT EXPENSES | 139.34 | 0.00 | 0.00 | 0.00 | 29.42 | 98.46 | 78.56 | 118.53 | 26.31 | 9.65 | 0.00 | 75.61 |
| NET INCOME | -139.34 | 0.00 | 0.00 | 0.00 | -29.42 | -98.46 | -78.56 | -118.53 | -26.31 | -9.65 | 0.00 | 1061.79 |
| NET INCOME TO DATE | -139.34 | -139.34 | -139.34 | -139.34 | -168.76 | -267.22 | -345.78 | -464.31 | -490.62 | -500.27 | -500.27 | 561.52 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 20.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seedbed, RR2 seed, 16 row 30", Pivot
 Irrigated, 220 bu yield goal, Non-Delta Area, Mississippi, 2022

| | | | -----PERCENT----- | | | | | | | | | | |
|---------|--------|------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | -----PRODUCT PRICE----- | | | | | | | | | | |
| Corn | | | 3.87 | 4.13 | 4.39 | 4.65 | 4.91 | 5.17 | 5.42 | 5.68 | 5.94 | 6.20 | 6.46 |
| PERCENT | YIELD | UNIT | -----dollars----- | | | | | | | | | | |
| 50 | 110.00 | bu | -123 | -95 | -67 | -38 | -10 | 18 | 46 | 75 | 103 | 131 | 160 |
| | | | -246 | -218 | -190 | -161 | -133 | -104 | -76 | -47 | -19 | 8 | 37 |
| 60 | 132.00 | bu | -43 | -9 | 24 | 58 | 92 | 126 | 160 | 195 | 229 | 263 | 297 |
| | | | -166 | -132 | -98 | -64 | -30 | 3 | 37 | 72 | 106 | 140 | 174 |
| 70 | 154.00 | bu | 36 | 76 | 116 | 155 | 195 | 235 | 275 | 315 | 354 | 394 | 434 |
| | | | -86 | -46 | -6 | 32 | 72 | 112 | 152 | 192 | 231 | 271 | 311 |
| 80 | 176.00 | bu | 116 | 162 | 207 | 253 | 298 | 344 | 389 | 435 | 480 | 526 | 571 |
| | | | -6 | 39 | 84 | 130 | 175 | 221 | 266 | 312 | 357 | 403 | 448 |
| 90 | 198.00 | bu | 196 | 248 | 299 | 350 | 401 | 452 | 504 | 555 | 606 | 657 | 708 |
| | | | 73 | 125 | 176 | 227 | 278 | 329 | 381 | 432 | 483 | 534 | 585 |
| 100 | 220.00 | bu | 277 | 334 | 390 | 447 | 504 | 561 | 618 | 675 | 732 | 789 | 845 |
| | | | 154 | 211 | 267 | 324 | 381 | 438 | 495 | 552 | 609 | 666 | 722 |
| 110 | 242.00 | bu | 357 | 419 | 482 | 545 | 607 | 670 | 732 | 795 | 857 | 920 | 982 |
| | | | 234 | 296 | 359 | 422 | 484 | 547 | 609 | 672 | 734 | 797 | 859 |
| 120 | 264.00 | bu | 437 | 505 | 574 | 642 | 710 | 778 | 847 | 915 | 983 | 1051 | 1120 |
| | | | 314 | 382 | 451 | 519 | 587 | 655 | 724 | 792 | 860 | 928 | 997 |
| 130 | 286.00 | bu | 517 | 591 | 665 | 739 | 813 | 887 | 961 | 1035 | 1109 | 1183 | 1257 |
| | | | 394 | 468 | 542 | 616 | 690 | 764 | 838 | 912 | 986 | 1060 | 1134 |
| 140 | 308.00 | bu | 598 | 677 | 757 | 836 | 916 | 996 | 1075 | 1155 | 1235 | 1314 | 1394 |
| | | | 475 | 554 | 634 | 713 | 793 | 873 | 952 | 1032 | 1112 | 1191 | 1271 |
| 150 | 330.00 | bu | 678 | 763 | 848 | 934 | 1019 | 1104 | 1190 | 1275 | 1360 | 1446 | 1531 |
| | | | 555 | 640 | 725 | 811 | 896 | 981 | 1067 | 1152 | 1237 | 1323 | 1408 |

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

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

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

Note: Cost of production estimates are based on 2021 input prices.

Table 21.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| App by Air (3 gal) | appl | 5.60 | 1.0000 | 5.60 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 35.88 | 1.6300 | 58.48 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.2500 | 32.88 | _____ |
| Fert 10-34-0 | gal | 3.68 | 5.0000 | 18.40 | _____ |
| UAN (32%) | gal | 2.10 | 43.8348 | 92.05 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Atrazine 4L | pt | 1.67 | 4.0000 | 6.68 | _____ |
| Halex GT | pt | 5.82 | 3.6000 | 20.95 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.86 | 6.4020 | 5.51 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed BtRR | thous | 3.75 | 28.0000 | 105.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 170.0000 | 39.10 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.3616 | 5.53 | _____ |
| Harvesters | hour | 15.27 | 0.1277 | 1.95 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1832 | 1.66 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.4404 | 6.73 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.1883 | 9.88 | _____ |
| Harvesters | gal | 2.36 | 1.7419 | 4.11 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.01 | 1.0000 | 9.01 | _____ |
| Tractors | acre | 2.82 | 1.0000 | 2.82 | _____ |
| Harvesters | acre | 5.20 | 1.0000 | 5.20 | _____ |
| INTEREST ON OP. CAP. | acre | 9.50 | 1.0000 | 9.50 | _____ |
| TOTAL DIRECT EXPENSES | | | | 518.41 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 11.14 | 1.0000 | 11.14 | _____ |
| Tractors | acre | 16.52 | 1.0000 | 16.52 | _____ |
| Harvesters | acre | 19.30 | 1.0000 | 19.30 | _____ |
| TOTAL FIXED EXPENSES | | | | 46.96 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 565.37 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 21.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 5.17 | 170.0000 | 878.90 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 878.90 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 12.60 | 1.0000 | 12.60 | _____ |
| FERTILIZERS | acre | 201.81 | 1.0000 | 201.81 | _____ |
| HERBICIDES | acre | 49.38 | 1.0000 | 49.38 | _____ |
| INSECTICIDES | acre | 5.51 | 1.0000 | 5.51 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| HAULING | acre | 39.10 | 1.0000 | 39.10 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1832 | 1.66 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.4893 | 7.48 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.4404 | 6.73 | _____ |
| DIESEL FUEL | gal | 2.36 | 5.9303 | 13.99 | _____ |
| REPAIR & MAINTENANCE | acre | 17.03 | 1.0000 | 17.03 | _____ |
| INTEREST ON OP. CAP. | acre | 9.50 | 1.0000 | 9.50 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 518.41 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 360.49 | _____ |
| TOTAL FIXED EXPENSES | | | | 46.96 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 565.37 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 313.53 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 21.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.6660 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Mar | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.6300 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.2500 | | | | |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 225 | 0.070 | 1.00 | Mar | | 0.07 | 0.07 | 0.14 | 0.06 |
| Corn Seed BtRR | thous | | | | | 28.0000 | | | | |
| Fert 10-34-0 | gal | | | | | 5.0000 | | | | |
| Spray (Broadcast) | 27' | MFWD 225 | 0.062 | 1.00 | Apr | | 0.06 | 0.06 | 0.09 | 0.05 |
| Atrazine 4L | pt | | | | | 4.0000 | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 0.078 | 1.00 | Apr | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN (32%) | gal | | | | | 43.8348 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | May | 1.0000 | | | | |
| Bifenthrin | oz | | | | | 6.4020 | | | | |
| Header - Corn | 8R-30 | 265 hp | 0.127 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.11 |
| Grain Cart Corn | 500 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 170.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.48 | 0.48 | 0.67 | 0.44 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | 7.16 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Select Max | pt | 12.73 | | | | | | 0.30 | 13.03 | 13.03 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.60 | | | 0.07 | 3.49 | 2.56 6.05 |
| DAP | cwt | 58.48 | | | | | | 1.19 | 59.67 | 59.67 |
| Potash (60% K2O) | cwt | 32.88 | | | | | | 0.67 | 33.55 | 33.55 |
| NT Plant&Pre-Rigid | 12R-30 | | 1.93 | 2.84 | 2.69 | | | 0.15 | 7.61 | 7.27 14.88 |
| Corn Seed BtRR | thous | 105.00 | | | | | | 2.14 | 107.14 | 107.14 |
| Fert 10-34-0 | gal | 18.40 | | | | | | 0.38 | 18.78 | 18.78 |
| Spray (Broadcast) | 27' | | 1.71 | 0.65 | 2.10 | | | 0.08 | 4.54 | 3.03 7.57 |
| Atrazine 4L | pt | 6.68 | | | | | | 0.12 | 6.80 | 6.80 |
| Halex GT | pt | 20.95 | | | | | | 0.37 | 21.32 | 21.32 |
| Fert Appl (Liquid) | 12R-30 | | 2.15 | 1.97 | 2.64 | | | 0.12 | 6.88 | 5.02 11.90 |
| UAN (32%) | gal | 92.05 | | | | | | 1.61 | 93.66 | 93.66 |
| Corn Consultant | acre | 6.00 | | | | | | 0.09 | 6.09 | 6.09 |
| App by Air (3 gal) | appl | 5.60 | | | | | | 0.08 | 5.68 | 5.68 |
| Bifenthrin | oz | 5.51 | | | | | | 0.08 | 5.59 | 5.59 |
| Header - Corn | 8R-30 | | 4.11 | 7.47 | 3.71 | | | 0.04 | 15.33 | 22.49 37.82 |
| Grain Cart Corn | 500 bu | | 0.69 | 0.40 | 0.74 | | | 0.01 | 1.84 | 1.48 3.32 |
| Haul Corn | bu | 39.10 | | | | | | 0.11 | 39.21 | 39.21 |
| Stalk Shredder Flex | 20' | | 2.25 | 3.03 | 2.39 | | | 0.02 | 7.69 | 5.11 12.80 |
| TOTALS | | 462.02 | 13.99 | 17.03 | 15.87 | 0.00 | 9.50 | 518.41 | 46.96 | 565.37 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 21.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BTRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 878.90 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 109.76 | 92.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 21.75 | 0.00 | 27.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 105.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 39.10 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.29 | 4.74 | 0.00 | 0.00 | 0.00 | 0.00 | 6.84 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 | 3.86 | 0.00 | 0.00 | 0.00 | 0.00 | 7.05 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.51 | 2.62 | 0.00 | 0.00 | 0.00 | 0.00 | 10.90 |
| INTEREST ON OP. CAP. | 1.50 | 0.00 | 0.00 | 0.00 | 0.67 | 4.60 | 2.30 | 0.25 | 0.00 | 0.00 | 0.00 | 0.18 |
| TOTAL DIRECT EXPENSES | 44.12 | 0.00 | 0.00 | 0.00 | 29.42 | 230.24 | 133.20 | 17.36 | 0.00 | 0.00 | 0.00 | 64.07 |
| NET INCOME | -44.12 | 0.00 | 0.00 | 0.00 | -29.42 | -230.24 | -133.20 | -17.36 | 0.00 | 0.00 | 0.00 | 814.83 |
| NET INCOME TO DATE | -44.12 | -44.12 | -44.12 | -44.12 | -73.54 | -303.78 | -436.98 | -454.34 | -454.34 | -454.34 | -454.34 | 360.49 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 21.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR, 12-row 30", 170 bu yield goal
 Non-Delta Areas, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|---------------|---------|------|--------------|--------------|--------------|--------------|-------------|-------------|------------|------------|------------|-------------|--------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| PRODUCT PRICE | | | | | | | | | | | | | |
| Corn | 3.87 | 4.13 | 4.39 | 4.65 | 4.91 | 5.17 | 5.42 | 5.68 | 5.94 | 6.20 | 6.46 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 85.00 | bu | -169 -216 | -147 -194 | -125 -172 | -103 -150 | -81 -128 | -59 -106 | -37 -84 | -15 -62 | 6 -40 | 28 -18 | 50 3 |
| 60 | 102.00 | bu | -107 -154 | -80 -127 | -54 -101 | -28 -75 | -1 -48 | 24 -22 | 50 4 | 77 30 | 103 56 | 130 83 | 156 109 |
| 70 | 119.00 | bu | -45 -92 | -14 -61 | 16 -30 | 47 0 | 77 30 | 108 61 | 139 92 | 170 123 | 200 153 | 231 184 | 262 215 |
| 80 | 136.00 | bu | 16 -30 | 51 4 | 87 40 | 122 75 | 157 110 | 192 145 | 227 180 | 262 215 | 298 251 | 333 286 | 368 321 |
| 90 | 153.00 | bu | 78 31 | 118 71 | 157 110 | 197 150 | 236 190 | 276 229 | 316 269 | 355 308 | 395 348 | 434 387 | 474 427 |
| 100 | 170.00 | bu | 140 93 | 184 137 | 228 181 | 272 225 | 316 269 | 360 313 | 404 357 | 448 401 | 492 445 | 536 489 | 580 533 |
| 110 | 187.00 | bu | 202 155 | 251 204 | 299 252 | 347 300 | 396 349 | 444 397 | 492 445 | 541 494 | 589 542 | 637 590 | 686 639 |
| 120 | 204.00 | bu | 264 217 | 317 270 | 370 323 | 422 376 | 475 428 | 528 481 | 581 534 | 633 586 | 686 639 | 739 692 | 792 745 |
| 130 | 221.00 | bu | 326 279 | 383 336 | 441 394 | 498 451 | 555 508 | 612 565 | 669 622 | 726 679 | 783 736 | 840 793 | 898 851 |
| 140 | 238.00 | bu | 388 341 | 450 403 | 511 464 | 573 526 | 634 587 | 696 649 | 757 710 | 819 772 | 880 833 | 942 895 | 1003 957 |
| 150 | 255.00 | bu | 450 403 | 516 469 | 582 535 | 648 601 | 714 667 | 780 733 | 846 799 | 912 865 | 978 931 | 1044 997 | 1109 1062 |

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

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

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

Note: Cost of production estimates are based on 2021 input prices.

Table 22.A Estimated costs per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| App by Air (3 gal) | appl | 5.60 | 1.0000 | 5.60 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 35.88 | 1.6300 | 58.48 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.2500 | 32.88 | _____ |
| Fert 10-34-0 | gal | 3.68 | 5.0000 | 18.40 | _____ |
| UAN (32%) | gal | 2.10 | 43.8348 | 92.05 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Atrazine 4L | pt | 1.67 | 4.0000 | 6.68 | _____ |
| Halex GT | pt | 5.82 | 3.6000 | 20.95 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.86 | 6.4020 | 5.51 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed BtRR | thous | 3.75 | 28.0000 | 105.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 220.0000 | 50.60 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.3616 | 5.53 | _____ |
| Harvesters | hour | 15.27 | 0.1277 | 1.95 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.2036 | 1.84 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1832 | 1.66 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.4404 | 6.73 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 4.1883 | 9.88 | _____ |
| Harvesters | gal | 2.36 | 1.7419 | 4.11 | _____ |
| 1/4-mi. Pivot Irr. | gal | 2.36 | 11.2011 | 26.43 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.01 | 1.0000 | 9.01 | _____ |
| Tractors | acre | 2.82 | 1.0000 | 2.82 | _____ |
| Harvesters | acre | 5.20 | 1.0000 | 5.20 | _____ |
| 1/4-mi. Pivot Irr. | acre | 21.95 | 1.0000 | 21.95 | _____ |
| INTEREST ON OP. CAP. | acre | 9.89 | 1.0000 | 9.89 | _____ |
| TOTAL DIRECT EXPENSES | | | | 580.52 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 11.14 | 1.0000 | 11.14 | _____ |
| Tractors | acre | 16.52 | 1.0000 | 16.52 | _____ |
| Harvesters | acre | 19.30 | 1.0000 | 19.30 | _____ |
| 1/4-mi. Pivot Irr. | acre | 68.70 | 1.0000 | 68.70 | _____ |
| TOTAL FIXED EXPENSES | | | | 115.66 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 696.18 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 22.B Summary of estimated costs and returns per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 5.17 | 220.0000 | 1137.40 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 1137.40 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 12.60 | 1.0000 | 12.60 | _____ |
| FERTILIZERS | acre | 201.81 | 1.0000 | 201.81 | _____ |
| HERBICIDES | acre | 49.38 | 1.0000 | 49.38 | _____ |
| INSECTICIDES | acre | 5.51 | 1.0000 | 5.51 | _____ |
| SEED/PLANTS | acre | 105.00 | 1.0000 | 105.00 | _____ |
| HAULING | acre | 50.60 | 1.0000 | 50.60 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1832 | 1.66 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.2036 | 1.84 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.4893 | 7.48 | _____ |
| UNALLOCATED LABOR | hour | 15.28 | 0.4404 | 6.73 | _____ |
| DIESEL FUEL | gal | 2.36 | 17.1314 | 40.42 | _____ |
| REPAIR & MAINTENANCE | acre | 38.98 | 1.0000 | 38.98 | _____ |
| INTEREST ON OP. CAP. | acre | 9.89 | 1.0000 | 9.89 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 580.52 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 556.88 | _____ |
| TOTAL FIXED EXPENSES | | | | 115.66 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 696.18 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 441.22 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 22.C Estimated resource use for field operations, per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR | |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|------|
| -----hours----- | | | | | | | | | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.6660 | | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | | |
| Clarity | pt | | | | | 0.5000 | | | | | |
| Select Max | pt | | | | | 1.0000 | | | | | |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Mar | | 0.04 | 0.04 | 0.08 | 0.03 | |
| DAP | cwt | | | | | 1.6300 | | | | | |
| Potash (60% K2O) | cwt | | | | | 1.2500 | | | | | |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 225 | 0.070 | 1.00 | Mar | | 0.07 | 0.07 | 0.14 | 0.06 | |
| Corn Seed BtRR | thous | | | | | 28.0000 | | | | | |
| Fert 10-34-0 | gal | | | | | 5.0000 | | | | | |
| Spray (Broadcast) | 27' | MFWD 225 | 0.062 | 1.00 | Apr | | 0.06 | 0.06 | 0.09 | 0.05 | |
| Atrazine 4L | pt | | | | | 4.0000 | | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 | |
| UAN (32%) | gal | | | | | 43.8348 | | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | | |
| App by Air (3 gal) | appl | | | 1.00 | May | 1.0000 | | | | | |
| Bifenthrin | oz | | | | | 6.4020 | | | | | |
| Header - Corn | 8R-30 | 265 hp | 0.127 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.11 | |
| Grain Cart Corn | 500 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 | |
| Haul Corn | bu | | | | | 220.0000 | | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 | |
| 1/4-mi. Pivot Irr. | acre | | | | Jul | 1.0000 | | | 0.20 | | |
| TOTALS | | | | | | | | 0.48 | 0.48 | 0.87 | 0.44 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 22.D Estimated costs for field operations, per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | 40.67 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | 7.16 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | 3.60 |
| Clarity | pt | 5.50 | | | | | | 0.13 | 5.63 | 5.63 |
| Select Max | pt | 12.73 | | | | | | 0.30 | 13.03 | 13.03 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.60 | | | 0.07 | 3.49 | 2.56 6.05 |
| DAP | cwt | 58.48 | | | | | | 1.19 | 59.67 | 59.67 |
| Potash (60% K2O) | cwt | 32.88 | | | | | | 0.67 | 33.55 | 33.55 |
| NT Plant&Pre-Rigid | 12R-30 | | 1.93 | 2.84 | 2.69 | | | 0.15 | 7.61 | 7.27 14.88 |
| Corn Seed BtRR | thous | 105.00 | | | | | | 2.14 | 107.14 | 107.14 |
| Fert 10-34-0 | gal | 18.40 | | | | | | 0.38 | 18.78 | 18.78 |
| Spray (Broadcast) | 27' | | 1.71 | 0.65 | 2.10 | | | 0.08 | 4.54 | 3.03 7.57 |
| Atrazine 4L | pt | 6.68 | | | | | | 0.12 | 6.80 | 6.80 |
| Halex GT | pt | 20.95 | | | | | | 0.37 | 21.32 | 21.32 |
| Fert Appl (Liquid) | 12R-30 | | 2.15 | 1.97 | 2.64 | | | 0.10 | 6.86 | 5.02 11.88 |
| UAN (32%) | gal | 92.05 | | | | | | 1.34 | 93.39 | 93.39 |
| Corn Consultant | acre | 6.00 | | | | | | 0.09 | 6.09 | 6.09 |
| App by Air (3 gal) | appl | 5.60 | | | | | | 0.08 | 5.68 | 5.68 |
| Bifenthrin | oz | 5.51 | | | | | | 0.08 | 5.59 | 5.59 |
| Header - Corn | 8R-30 | | 4.11 | 7.47 | 3.71 | | | 0.04 | 15.33 | 22.49 37.82 |
| Grain Cart Corn | 500 bu | | 0.69 | 0.40 | 0.74 | | | 0.01 | 1.84 | 1.48 3.32 |
| Haul Corn | bu | 50.60 | | | | | | 0.15 | 50.75 | 50.75 |
| Stalk Shredder Flex | 20' | | 2.25 | 3.03 | 2.39 | | | 0.02 | 7.69 | 5.11 12.80 |
| 1/4-mi. Pivot Irr. | acre | | 26.43 | 21.95 | 1.84 | | | 0.64 | 50.86 | 68.70 119.56 |
| TOTALS | | 473.52 | 40.42 | 38.98 | 17.71 | 0.00 | 9.89 | 580.52 | 115.66 | 696.18 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 22.E Estimated monthly income and expense flows per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1137.40 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 5.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 109.76 | 0.00 | 92.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 21.75 | 0.00 | 27.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 105.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.60 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.29 | 3.44 | 2.79 | 0.20 | 0.15 | 0.00 | 6.84 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.08 | 1.71 | 10.08 | 10.57 | 7.93 | 0.00 | 7.05 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.51 | 0.65 | 20.44 | 1.99 | 1.49 | 0.00 | 10.90 |
| INTEREST ON OP. CAP. | 1.50 | 0.00 | 0.00 | 0.00 | 0.67 | 4.60 | 0.59 | 2.08 | 0.15 | 0.08 | 0.00 | 0.22 |
| TOTAL DIRECT EXPENSES | 44.12 | 0.00 | 0.00 | 0.00 | 29.42 | 230.24 | 34.02 | 144.55 | 12.91 | 9.65 | 0.00 | 75.61 |
| NET INCOME | -44.12 | 0.00 | 0.00 | 0.00 | -29.42 | -230.24 | -34.02 | -144.55 | -12.91 | -9.65 | 0.00 | 1061.79 |
| NET INCOME TO DATE | -44.12 | -44.12 | -44.12 | -44.12 | -73.54 | -303.78 | -337.80 | -482.35 | -495.26 | -504.91 | -504.91 | 556.88 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 22.F Estimated returns for various price/yield combinations, per acre
 Corn, no-tillage, BtRR seed, 12 row 30", 220 bu yield
 goal, Pivot Irrigated, Non-Delta Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------|--------|------|---------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Corn | | | 3.87 | 4.13 | 4.39 | 4.65 | 4.91 | 5.17 | 5.42 | 5.68 | 5.94 | 6.20 | 6.46 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 110.00 | bu | -128 -244 | -100 -215 | -71 -187 | -43 -158 | -14 -130 | 13 -102 | 41 -73 | 70 -45 | 98 -16 | 127 11 | 155 40 |
| 60 | 132.00 | bu | -48 -164 | -14 -129 | 19 -95 | 53 -61 | 88 -27 | 122 6 | 156 40 | 190 74 | 224 108 | 258 143 | 292 177 |
| 70 | 154.00 | bu | 31 -83 | 71 -44 | 111 -4 | 151 35 | 191 75 | 230 115 | 270 155 | 310 194 | 350 234 | 390 274 | 429 314 |
| 80 | 176.00 | bu | 112 -3 | 157 41 | 203 87 | 248 132 | 294 178 | 339 223 | 385 269 | 430 314 | 476 360 | 521 405 | 567 451 |
| 90 | 198.00 | bu | 192 76 | 243 127 | 294 179 | 345 230 | 397 281 | 448 332 | 499 383 | 550 434 | 601 486 | 652 537 | 704 588 |
| 100 | 220.00 | bu | 272 156 | 329 213 | 386 270 | 443 327 | 500 384 | 556 441 | 613 498 | 670 554 | 727 611 | 784 668 | 841 725 |
| 110 | 242.00 | bu | 352 237 | 415 299 | 477 362 | 540 424 | 602 487 | 665 549 | 728 612 | 790 674 | 853 737 | 915 800 | 978 862 |
| 120 | 264.00 | bu | 432 317 | 501 385 | 569 453 | 637 522 | 705 590 | 774 658 | 842 726 | 910 795 | 978 863 | 1047 931 | 1115 999 |
| 130 | 286.00 | bu | 513 397 | 587 471 | 661 545 | 735 619 | 808 693 | 882 767 | 956 841 | 1030 915 | 1104 989 | 1178 1062 | 1252 1136 |
| 140 | 308.00 | bu | 593 477 | 673 557 | 752 637 | 832 716 | 911 796 | 991 875 | 1071 955 | 1150 1035 | 1230 1114 | 1310 1194 | 1389 1273 |
| 150 | 330.00 | bu | 673 558 | 758 643 | 844 728 | 929 813 | 1014 899 | 1100 984 | 1185 1069 | 1270 1155 | 1356 1240 | 1441 1325 | 1526 1411 |

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

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

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

Note: Cost of production estimates are based on 2021 input prices

Table 23.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 1.0000 | 7.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 35.88 | 1.3000 | 46.64 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 1.0000 | 26.30 | _____ |
| UAN + Sulfur (28%) | gal | 2.05 | 38.2883 | 78.49 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.11 | 32.0000 | 3.52 | _____ |
| 2,4-D Amine 4 | pt | 2.64 | 2.0000 | 5.28 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| Lexar | pt | 6.79 | 6.0000 | 40.74 | _____ |
| INSECTICIDES | | | | | |
| Sivanto Prime | oz | 3.24 | 8.0000 | 25.92 | _____ |
| Warrior II | oz | 2.74 | 1.5000 | 4.11 | _____ |
| Prevathon | oz | 1.12 | 14.0000 | 15.68 | _____ |
| SEED/PLANTS | | | | | |
| Sorghum Concept+ Po | lb | 3.72 | 4.5000 | 16.74 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 3.30 | 0.3000 | 0.99 | _____ |
| HAULING | | | | | |
| Haul Sorghum | bu | 0.25 | 100.0000 | 25.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Sorghum Consultant | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2915 | 4.45 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| Self-Propelled | hour | 15.27 | 0.0661 | 1.00 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1442 | 1.31 | _____ |
| Self-Propelled | hour | 9.06 | 0.0330 | 0.30 | _____ |
| UNALLOCATED LABOR | hour | 15.22 | 0.4138 | 6.30 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 3.3766 | 7.98 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| Self-Propelled | gal | 2.36 | 0.8505 | 2.00 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.64 | 1.0000 | 5.64 | _____ |
| Tractors | acre | 2.27 | 1.0000 | 2.27 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| Self-Propelled | acre | 1.05 | 1.0000 | 1.05 | _____ |
| INTEREST ON OP. CAP. | acre | 6.78 | 1.0000 | 6.78 | _____ |
| TOTAL DIRECT EXPENSES | | | | 405.85 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.13 | 1.0000 | 10.13 | _____ |
| Tractors | acre | 13.31 | 1.0000 | 13.31 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| Self-Propelled | acre | 6.55 | 1.0000 | 6.55 | _____ |
| TOTAL FIXED EXPENSES | | | | 45.43 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 451.28 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.B Summary of estimated costs and returns per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Grain Sorghum | bu | 4.91 | 100.0000 | 491.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 491.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 7.00 | 1.0000 | 7.00 | _____ |
| FERTILIZERS | acre | 151.43 | 1.0000 | 151.43 | _____ |
| HERBICIDES | acre | 62.27 | 1.0000 | 62.27 | _____ |
| INSECTICIDES | acre | 45.71 | 1.0000 | 45.71 | _____ |
| SEED/PLANTS | acre | 16.74 | 1.0000 | 16.74 | _____ |
| ADJUVANTS | acre | 0.99 | 1.0000 | 0.99 | _____ |
| HAULING | acre | 25.00 | 1.0000 | 25.00 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 6.00 | 1.0000 | 6.00 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1772 | 1.61 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.4598 | 7.01 | _____ |
| UNALLOCATED LABOR | hour | 15.22 | 0.4138 | 6.30 | _____ |
| DIESEL FUEL | gal | 2.36 | 5.6208 | 13.27 | _____ |
| REPAIR & MAINTENANCE | acre | 13.12 | 1.0000 | 13.12 | _____ |
| INTEREST ON OP. CAP. | acre | 6.78 | 1.0000 | 6.78 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 405.85 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 85.15 | _____ |
| TOTAL FIXED EXPENSES | | | | 45.43 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 451.28 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 39.72 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.C Estimated resource use for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------------|---------------|----------------|----------------|
| | | | | | | | -----hours----- | | | |
| Soil Test | acre | | | 0.33 | Oct | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Oct | 0.6660 | | | | |
| Disk Harrow | 32' | MFWD 225 | 0.061 | 1.00 | Nov | | 0.06 | 0.06 | 0.06 | 0.05 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | oz | | | | | 32.0000 | | | | |
| 2,4-D Amine 4 | pt | | | | | 2.0000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Surfactant | pt | | | | | 0.3000 | | | | |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Apr | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.3000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.0000 | | | | |
| Field Cultivate Fld | 32' | MFWD 225 | 0.046 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Plant - Folding | 12R-30 | MFWD 225 | 0.062 | 1.00 | Apr | | 0.06 | 0.06 | 0.12 | 0.05 |
| Sorghum Concept+ Po | lb | | | | | 4.5000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Apr | | | 0.01 | 0.01 | 0.01 |
| Lexar | pt | | | | | 6.0000 | | | | |
| Sorghum Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN + Sulfur (28%) | gal | | | | | 38.2883 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jun | | | 0.01 | 0.01 | 0.01 |
| Sivanto Prime | oz | | | | | 4.0000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jul | | | 0.01 | 0.01 | 0.01 |
| Warrior II | oz | | | | | 1.5000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jul | | | 0.01 | 0.01 | 0.01 |
| Prevathon | oz | | | | | 14.0000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jul | | | 0.01 | 0.01 | 0.01 |
| Sivanto Prime | oz | | | | | 4.0000 | | | | |
| Header Wheat/Sorghum | 25' Rigid | 265 hp | 0.102 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Haul Sorghum | bu | | | | | 100.0000 | | | | |
| TOTALS | | | | | | | 0.45 | 0.39 | 0.63 | 0.41 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.D Estimated costs for field operations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.12 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.38 | 40.67 | | 40.67 |
| Disk Harrow | 32' | | 1.68 | 1.55 | 1.78 | | | 0.16 | 5.17 | 4.90 | 10.07 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | | 7.16 |
| Glyphosate 3lbs a.e | oz | 3.52 | | | | | | 0.08 | 3.60 | | 3.60 |
| 2,4-D Amine 4 | pt | 5.28 | | | | | | 0.12 | 5.40 | | 5.40 |
| Select Max | pt | 12.73 | | | | | | 0.30 | 13.03 | | 13.03 |
| Surfactant | pt | 0.99 | | | | | | 0.02 | 1.01 | | 1.01 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.60 | | | 0.06 | 3.48 | 2.56 | 6.04 |
| DAP | cwt | 46.64 | | | | | | 0.82 | 47.46 | | 47.46 |
| Potash (60% K2O) | cwt | 26.30 | | | | | | 0.46 | 26.76 | | 26.76 |
| Field Cultivate Fld | 32' | | 1.28 | 0.88 | 1.35 | | | 0.06 | 3.57 | 4.17 | 7.74 |
| Plant - Folding | 12R-30 | | 1.72 | 2.19 | 2.39 | | | 0.11 | 6.41 | 5.88 | 12.29 |
| Sorghum Concept+ Po | lb | 16.74 | | | | | | 0.29 | 17.03 | | 17.03 |
| Sprayer 800gal | 80' 250hp | | 0.40 | 0.21 | 0.44 | | | 0.02 | 1.07 | 1.31 | 2.38 |
| Lexar | pt | 40.74 | | | | | | 0.71 | 41.45 | | 41.45 |
| Sorghum Consultant | acre | 6.00 | | | | | | 0.09 | 6.09 | | 6.09 |
| Fert Appl (Liquid) | 12R-30 | | 2.15 | 1.97 | 2.64 | | | 0.10 | 6.86 | 5.02 | 11.88 |
| UAN + Sulfur (28%) | gal | 78.49 | | | | | | 1.14 | 79.63 | | 79.63 |
| Sprayer 800gal | 80' 250hp | | 0.40 | 0.21 | 0.44 | | | 0.01 | 1.06 | 1.31 | 2.37 |
| Sivanto Prime | oz | 12.96 | | | | | | 0.15 | 13.11 | | 13.11 |
| Sprayer 800gal | 80' 250hp | | 0.40 | 0.21 | 0.44 | | | 0.01 | 1.06 | 1.31 | 2.37 |
| Warrior II | oz | 4.11 | | | | | | 0.04 | 4.15 | | 4.15 |
| Sprayer 800gal | 80' 250hp | | 0.40 | 0.21 | 0.44 | | | 0.01 | 1.06 | 1.31 | 2.37 |
| Prevathon | oz | 15.68 | | | | | | 0.14 | 15.82 | | 15.82 |
| Sprayer 800gal | 80' 250hp | | 0.40 | 0.21 | 0.44 | | | 0.01 | 1.06 | 1.31 | 2.37 |
| Sivanto Prime | oz | 12.96 | | | | | | 0.11 | 13.07 | | 13.07 |
| Header Wheat/Sorghum | 25' Rigid | | 3.29 | 4.81 | 2.96 | | | 0.03 | 11.09 | 16.35 | 27.44 |
| Haul Sorghum | bu | 25.00 | | | | | | 0.07 | 25.07 | | 25.07 |
| TOTALS | | 357.76 | 13.27 | 13.12 | 14.92 | 0.00 | 6.78 | 405.85 | 45.43 | 451.28 | |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 23.E Estimated monthly income and expense flows per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 491.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 72.94 | 78.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 21.53 | 0.00 | 40.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.96 | 32.75 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 25.00 |
| CUSTOM LIME | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 1.78 | 0.00 | 0.00 | 0.00 | 0.00 | 5.78 | 2.64 | 0.44 | 1.32 | 0.00 | 2.96 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 1.68 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 2.15 | 0.40 | 1.20 | 0.00 | 3.29 |
| REPAIR & MAINTENANCE | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 3.95 | 1.97 | 0.21 | 0.63 | 0.00 | 4.81 |
| INTEREST ON OP. CAP. | 1.50 | 0.16 | 0.00 | 0.00 | 0.68 | 0.00 | 2.53 | 1.33 | 0.16 | 0.32 | 0.00 | 0.10 |
| TOTAL DIRECT EXPENSES | 44.12 | 5.17 | 0.00 | 0.00 | 30.20 | 0.00 | 147.23 | 92.58 | 14.17 | 36.22 | 0.00 | 36.16 |
| NET INCOME | -44.12 | -5.17 | 0.00 | 0.00 | -30.20 | 0.00 | -147.23 | -92.58 | -14.17 | -36.22 | 0.00 | 454.84 |
| NET INCOME TO DATE | -44.12 | -49.29 | -49.29 | -49.29 | -79.49 | -79.49 | -226.72 | -319.30 | -333.47 | -369.69 | -369.69 | 85.15 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 23.F Estimated returns for various price/yield combinations, per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2022

| PRODUCT | PERCENT | | | | | | | | | | | | |
|---------------|---------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| PRODUCT PRICE | | | | | | | | | | | | | |
| Grain Sorghum | 3.68 | 3.92 | 4.17 | 4.41 | 4.66 | 4.91 | 5.15 | 5.40 | 5.64 | 5.89 | 6.13 | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 50.00 | bu | -209 -254 | -196 -242 | -184 -230 | -172 -217 | -160 -205 | -147 -193 | -135 -180 | -123 -168 | -110 -156 | -98 -144 | -86 -131 |
| 60 | 60.00 | bu | -174 -220 | -160 -205 | -145 -190 | -130 -176 | -115 -161 | -101 -146 | -86 -131 | -71 -117 | -57 -102 | -42 -87 | -27 -73 |
| 70 | 70.00 | bu | -140 -185 | -123 -168 | -106 -151 | -88 -134 | -71 -117 | -54 -100 | -37 -82 | -20 -65 | -3 -48 | 14 -31 | 31 -14 |
| 80 | 80.00 | bu | -106 -151 | -86 -132 | -66 -112 | -47 -92 | -27 -73 | -8 -53 | 11 -33 | 31 -14 | 50 5 | 70 25 | 90 44 |
| 90 | 90.00 | bu | -71 -117 | -49 -95 | -27 -73 | -5 -51 | 16 -28 | 38 -6 | 60 15 | 82 37 | 104 59 | 126 81 | 149 103 |
| 100 | 100.00 | bu | -37 -83 | -13 -58 | 11 -33 | 36 -9 | 60 15 | 85 39 | 109 64 | 134 88 | 158 113 | 183 137 | 207 162 |
| 110 | 110.00 | bu | -3 -48 | 23 -21 | 50 5 | 77 32 | 104 59 | 131 86 | 158 113 | 185 140 | 212 167 | 239 194 | 266 221 |
| 120 | 120.00 | bu | 31 -14 | 60 15 | 89 44 | 119 73 | 148 103 | 178 132 | 207 162 | 237 191 | 266 221 | 296 250 | 325 280 |
| 130 | 130.00 | bu | 65 19 | 97 51 | 129 83 | 161 115 | 193 147 | 224 179 | 256 211 | 288 243 | 320 275 | 352 307 | 384 339 |
| 140 | 140.00 | bu | 99 54 | 134 88 | 168 122 | 202 157 | 237 191 | 271 226 | 305 260 | 340 294 | 374 329 | 409 363 | 443 397 |
| 150 | 150.00 | bu | 133 88 | 170 125 | 207 162 | 244 199 | 281 235 | 318 272 | 354 309 | 391 346 | 428 383 | 465 419 | 502 456 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 24.A Estimated costs per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 7.00 | 2.0000 | 14.00 | _____ |
| App by Air (3 gal) | appl | 5.60 | 1.0000 | 5.60 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 35.88 | 1.0000 | 35.88 | _____ |
| Potash (60% K2O) | cwt | 26.30 | 0.7500 | 19.73 | _____ |
| Fert 41-0-0-4 | cwt | 18.22 | 3.0480 | 55.53 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx Vibrance | oz | 4.60 | 4.5000 | 20.70 | _____ |
| Prosaro | oz | 2.36 | 8.0000 | 18.88 | _____ |
| HERBICIDES | | | | | |
| Axiom | oz | 2.06 | 10.0000 | 20.60 | _____ |
| Harmony Extra SG | oz | 10.86 | 0.7500 | 8.15 | _____ |
| Axial XL | oz | 1.10 | 16.4000 | 18.04 | _____ |
| INSECTICIDES | | | | | |
| Warrior II | oz | 2.74 | 1.5000 | 4.11 | _____ |
| SEED/PLANTS | | | | | |
| Wheat Seed Private | lb | 0.28 | 90.0000 | 25.20 | _____ |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.50 | 3.0480 | 22.86 | _____ |
| HAULING | | | | | |
| Haul Wheat | bu | 0.26 | 70.0000 | 18.20 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.6660 | 39.29 | _____ |
| CROP CONSULTANT | | | | | |
| Wheat Consultant | acre | 5.50 | 1.0000 | 5.50 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 0.2129 | 3.25 | _____ |
| Harvesters | hour | 15.27 | 0.1021 | 1.56 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1049 | 0.95 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.27 | 0.2521 | 3.85 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 2.4667 | 5.83 | _____ |
| Harvesters | gal | 2.36 | 1.3935 | 3.29 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 4.20 | 1.0000 | 4.20 | _____ |
| Tractors | acre | 1.66 | 1.0000 | 1.66 | _____ |
| Harvesters | acre | 4.16 | 1.0000 | 4.16 | _____ |
| INTEREST ON OP. CAP. | acre | 7.21 | 1.0000 | 7.21 | _____ |
| TOTAL DIRECT EXPENSES | | | | 371.57 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 8.57 | 1.0000 | 8.57 | _____ |
| Tractors | acre | 9.72 | 1.0000 | 9.72 | _____ |
| Harvesters | acre | 15.44 | 1.0000 | 15.44 | _____ |
| TOTAL FIXED EXPENSES | | | | 33.73 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 405.30 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.B Summary of estimated costs and returns per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Wheat | bu | 7.28 | 70.0000 | 509.60 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 509.60 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 19.60 | 1.0000 | 19.60 | _____ |
| FERTILIZERS | acre | 111.15 | 1.0000 | 111.15 | _____ |
| FUNGICIDES | acre | 39.58 | 1.0000 | 39.58 | _____ |
| HERBICIDES | acre | 46.79 | 1.0000 | 46.79 | _____ |
| INSECTICIDES | acre | 4.11 | 1.0000 | 4.11 | _____ |
| SEED/PLANTS | acre | 25.20 | 1.0000 | 25.20 | _____ |
| CUSTOM FERTILIZE | acre | 22.86 | 1.0000 | 22.86 | _____ |
| HAULING | acre | 18.20 | 1.0000 | 18.20 | _____ |
| CUSTOM LIME | acre | 39.29 | 1.0000 | 39.29 | _____ |
| CROP CONSULTANT | acre | 5.50 | 1.0000 | 5.50 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1049 | 0.95 | _____ |
| OPERATOR LABOR | hour | 15.27 | 0.3151 | 4.81 | _____ |
| UNALLOCATED LABOR | hour | 15.27 | 0.2521 | 3.85 | _____ |
| DIESEL FUEL | gal | 2.36 | 3.8602 | 9.12 | _____ |
| REPAIR & MAINTENANCE | acre | 10.02 | 1.0000 | 10.02 | _____ |
| INTEREST ON OP. CAP. | acre | 7.21 | 1.0000 | 7.21 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 371.57 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 138.03 | _____ |
| TOTAL FIXED EXPENSES | | | | 33.73 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 405.30 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 104.30 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.C Estimated resource use for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Sep | 0.3330 | | | | |
| Lime (Spread) | ton | | | 0.33 | Sep | 0.6660 | | | | |
| Disk Harrow | 32' | MFWD 225 | 0.061 | 1.00 | Sep | | 0.06 | 0.06 | 0.06 | 0.04 |
| Spin Spreader | 5 ton | MFWD 225 | 0.042 | 1.00 | Sep | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.0000 | | | | |
| Potash (60% K20) | cwt | | | | | 0.7500 | | | | |
| Field Cultivate Fld | 32' | MFWD 225 | 0.046 | 1.00 | Sep | | 0.04 | 0.04 | 0.04 | 0.03 |
| Grain Drill | 30' | MFWD 225 | 0.062 | 1.00 | Oct | | 0.06 | 0.06 | 0.12 | 0.05 |
| Wheat Seed Private | lb | | | | | 90.0000 | | | | |
| CruiserMaxx Vibrance | oz | | | | | 4.5000 | | | | |
| Wheat Consultant | acre | | | 1.00 | Oct | 1.0000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Nov | 1.0000 | | | | |
| Axiom | oz | | | | | 10.0000 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Warrior II | oz | | | | | 1.5000 | | | | |
| Harmony Extra SG | oz | | | | | 0.7500 | | | | |
| Axial XL | oz | | | | | 16.4000 | | | | |
| App Fert by Air | cwt | | | 1.00 | Feb | 1.5240 | | | | |
| Fert 41-0-0-4 | cwt | | | | | 1.5240 | | | | |
| App Fert by Air | cwt | | | 1.00 | Mar | 1.5240 | | | | |
| Fert 41-0-0-4 | cwt | | | | | 1.5240 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Apr | 1.0000 | | | | |
| Prosaro | oz | | | | | 8.0000 | | | | |
| Header Wheat/Sorghum | 25' Rigid | 265 hp | 0.102 | 1.00 | Jun | | 0.10 | 0.10 | 0.10 | 0.08 |
| Haul Wheat | bu | | | | | 70.0000 | | | | |
| TOTALS | | | | | | | 0.31 | 0.31 | 0.42 | 0.25 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.

Table 24.D Estimated costs for field operations, per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.10 | 3.43 | 3.43 |
| Lime (Spread) | ton | 39.29 | | | | | | 1.15 | 40.44 | 40.44 |
| Disk Harrow | 32' | | 1.68 | 1.55 | 1.69 | | | 0.14 | 5.06 | 4.90 |
| Spin Spreader | 5 ton | | 1.15 | 0.67 | 1.53 | | | 0.10 | 3.45 | 2.56 |
| DAP | cwt | 35.88 | | | | | | 1.05 | 36.93 | 36.93 |
| Potash (60% K2O) | cwt | 19.73 | | | | | | 0.58 | 20.31 | 20.31 |
| Field Cultivate Fld | 32' | | 1.28 | 0.88 | 1.28 | | | 0.10 | 3.54 | 4.17 |
| Grain Drill | 30' | | 1.72 | 2.11 | 2.30 | | | 0.16 | 6.29 | 5.75 |
| Wheat Seed Private | lb | 25.20 | | | | | | 0.66 | 25.86 | 25.86 |
| CruiserMaxx Vibrance | oz | 20.70 | | | | | | 0.54 | 21.24 | 21.24 |
| Wheat Consultant | acre | 5.50 | | | | | | 0.14 | 5.64 | 5.64 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.16 | 7.16 | 7.16 |
| Axiom | oz | 20.60 | | | | | | 0.48 | 21.08 | 21.08 |
| App by Air (3 gal) | appl | 5.60 | | | | | | 0.08 | 5.68 | 5.68 |
| Warrior II | oz | 4.11 | | | | | | 0.06 | 4.17 | 4.17 |
| Harmony Extra SG | oz | 8.15 | | | | | | 0.12 | 8.27 | 8.27 |
| Axial XL | oz | 18.04 | | | | | | 0.26 | 18.30 | 18.30 |
| App Fert by Air | cwt | 11.43 | | | | | | 0.17 | 11.60 | 11.60 |
| Fert 41-0-0-4 | cwt | 27.77 | | | | | | 0.40 | 28.17 | 28.17 |
| App Fert by Air | cwt | 11.43 | | | | | | 0.13 | 11.56 | 11.56 |
| Fert 41-0-0-4 | cwt | 27.77 | | | | | | 0.32 | 28.09 | 28.09 |
| App by Air (5 gal) | appl | 7.00 | | | | | | 0.06 | 7.06 | 7.06 |
| Prosaro | oz | 18.88 | | | | | | 0.17 | 19.05 | 19.05 |
| Header Wheat/Sorghum | 25' Rigid | | 3.29 | 4.81 | 2.81 | | | 0.03 | 10.94 | 16.35 |
| Haul Wheat | bu | 18.20 | | | | | | 0.05 | 18.25 | 18.25 |
| TOTALS | | 335.61 | 9.12 | 10.02 | 9.61 | 0.00 | 7.21 | 371.57 | 33.73 | 405.30 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

Table 24.E Estimated monthly income and expense flows per acre
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2022

| ITEM | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|-----------------------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 509.60 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 5.60 | 0.00 | 7.00 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 55.61 | 0.00 | 0.00 | 0.00 | 0.00 | 27.77 | 27.77 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 20.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.88 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 20.60 | 0.00 | 0.00 | 26.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 25.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CUSTOM FERTILIZE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.43 | 11.43 | 0.00 | 0.00 | 0.00 |
| HAULING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.20 |
| CUSTOM LIME | 0.00 | 0.00 | 39.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CROP CONSULTANT | 0.00 | 0.00 | 0.00 | 5.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 4.50 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.81 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 4.11 | 1.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.29 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 3.10 | 2.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.81 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 3.22 | 1.50 | 0.64 | 0.00 | 0.00 | 1.09 | 0.45 | 0.23 | 0.00 | 0.08 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 113.16 | 59.03 | 28.24 | 0.00 | 0.00 | 76.19 | 39.65 | 26.11 | 0.00 | 29.19 |
| NET INCOME | 0.00 | 0.00 | -113.16 | -59.03 | -28.24 | 0.00 | 0.00 | -76.19 | -39.65 | -26.11 | 0.00 | 480.41 |
| NET INCOME TO DATE | 0.00 | 0.00 | -113.16 | -172.19 | -200.43 | -200.43 | -200.43 | -276.62 | -316.27 | -342.38 | -342.38 | 138.03 |

Note: Cost of production estimates are based on 2021 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 24.F Estimated returns for various price/yield combinations, per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------|--------|------|---------------|------|------|------|------|------|------|------|------|------|------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Wheat | | | 5.46 | 5.82 | 6.18 | 6.55 | 6.91 | 7.28 | 7.64 | 8.00 | 8.37 | 8.73 | 9.10 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 35.00 | bu | -171 | -158 | -145 | -133 | -120 | -107 | -94 | -82 | -69 | -56 | -43 |
| | | | -205 | -192 | -179 | -166 | -154 | -141 | -128 | -115 | -103 | -90 | -77 |
| 60 | 42.00 | bu | -134 | -119 | -104 | -89 | -73 | -58 | -43 | -27 | -12 | 2 | 17 |
| | | | -168 | -153 | -138 | -122 | -107 | -92 | -76 | -61 | -46 | -31 | -15 |
| 70 | 49.00 | bu | -98 | -80 | -62 | -45 | -27 | -9 | 8 | 26 | 44 | 61 | 79 |
| | | | -132 | -114 | -96 | -78 | -60 | -43 | -25 | -7 | 10 | 28 | 46 |
| 80 | 56.00 | bu | -62 | -41 | -21 | -1 | 19 | 39 | 60 | 80 | 100 | 121 | 141 |
| | | | -95 | -75 | -55 | -34 | -14 | 6 | 26 | 46 | 67 | 87 | 107 |
| 90 | 63.00 | bu | -25 | -2 | 20 | 43 | 65 | 88 | 111 | 134 | 157 | 180 | 203 |
| | | | -59 | -36 | -13 | 9 | 32 | 55 | 78 | 101 | 123 | 146 | 169 |
| 100 | 70.00 | bu | 10 | 36 | 61 | 87 | 112 | 138 | 163 | 188 | 214 | 239 | 265 |
| | | | -23 | 2 | 27 | 53 | 78 | 104 | 129 | 155 | 180 | 206 | 231 |
| 110 | 77.00 | bu | 47 | 75 | 103 | 131 | 159 | 187 | 215 | 243 | 271 | 299 | 327 |
| | | | 13 | 41 | 69 | 97 | 125 | 153 | 181 | 209 | 237 | 265 | 293 |
| 120 | 84.00 | bu | 83 | 113 | 144 | 175 | 205 | 236 | 266 | 297 | 328 | 358 | 389 |
| | | | 49 | 80 | 110 | 141 | 171 | 202 | 233 | 263 | 294 | 324 | 355 |
| 130 | 91.00 | bu | 119 | 152 | 186 | 219 | 252 | 285 | 318 | 351 | 384 | 417 | 451 |
| | | | 86 | 119 | 152 | 185 | 218 | 251 | 284 | 317 | 351 | 384 | 417 |
| 140 | 98.00 | bu | 156 | 191 | 227 | 263 | 298 | 334 | 370 | 405 | 441 | 477 | 512 |
| | | | 122 | 158 | 193 | 229 | 265 | 300 | 336 | 372 | 407 | 443 | 479 |
| 150 | 105.00 | bu | 192 | 230 | 269 | 307 | 345 | 383 | 421 | 460 | 498 | 536 | 574 |
| | | | 158 | 197 | 235 | 273 | 311 | 349 | 388 | 426 | 464 | 502 | 541 |

The top number in each cell is Returns Above Direct Expenses.
The bottom number in each cell is Returns Above Total Specified Expenses.
Only the product listed has been varied to calculate net returns.
Note: Cost of production estimates are based on 2021 input prices.

Table 25.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Abound | oz | 1.96 | 48.0000 | 94.08 | _____ |
| Bravo Weather Stick | pt | 4.12 | 5.5000 | 22.66 | _____ |
| Tebuconazole 3.6 | oz | 0.49 | 7.2000 | 3.53 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 1.81 | 4.0000 | 7.24 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| Valor SX | oz | 3.60 | 3.0000 | 10.80 | _____ |
| Storm | pt | 11.16 | 1.5000 | 16.74 | _____ |
| Cadre | oz | 3.33 | 4.0000 | 13.32 | _____ |
| Butyrac 200 (2,4-DB) | pt | 2.90 | 2.0000 | 5.80 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.57 | 9.0000 | 14.13 | _____ |
| Acephate 90% | lb | 9.87 | 0.1375 | 1.36 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 150.0000 | 126.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.90 | 6.0000 | 17.40 | _____ |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | 1.6200 | 29.16 | _____ |
| DRYING | | | | | |
| Dry Peanuts | ton | 24.00 | 1.1400 | 27.36 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.50 | 14.8000 | 7.40 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 1.6246 | 24.80 | _____ |
| Self-Propelled | hour | 15.27 | 0.1983 | 3.04 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1207 | 1.09 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 1.4583 | 22.32 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 17.7898 | 41.98 | _____ |
| Self-Propelled | gal | 2.36 | 1.7850 | 4.16 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 13.47 | 1.0000 | 13.47 | _____ |
| Tractors | acre | 11.85 | 1.0000 | 11.85 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | acre | 5.58 | 1.0000 | 5.58 | _____ |
| TOTAL DIRECT EXPENSES | | | | 574.15 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 40.01 | 1.0000 | 40.01 | _____ |
| Tractors | acre | 69.83 | 1.0000 | 69.83 | _____ |
| Self-Propelled | acre | 14.18 | 1.0000 | 14.18 | _____ |
| TOTAL FIXED EXPENSES | | | | 124.02 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 698.17 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Peanut Runner | ton | 430.00 | 2.0000 | 860.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 860.00 | _____ |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | acre | 120.27 | 1.0000 | 120.27 | _____ |
| HERBICIDES | acre | 76.65 | 1.0000 | 76.65 | _____ |
| INSECTICIDES | acre | 15.49 | 1.0000 | 15.49 | _____ |
| SEED/PLANTS | acre | 126.00 | 1.0000 | 126.00 | _____ |
| ADJUVANTS | acre | 17.40 | 1.0000 | 17.40 | _____ |
| CLEANING | acre | 29.16 | 1.0000 | 29.16 | _____ |
| DRYING | acre | 27.36 | 1.0000 | 27.36 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| INOCULANT | acre | 7.40 | 1.0000 | 7.40 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.2199 | 1.99 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.8229 | 27.84 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 1.4583 | 22.32 | _____ |
| DIESEL FUEL | gal | 2.36 | 19.5748 | 46.14 | _____ |
| REPAIR & MAINTENANCE | acre | 27.57 | 1.0000 | 27.57 | _____ |
| INTEREST ON OP. CAP. | acre | 5.58 | 1.0000 | 5.58 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 574.15 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 285.85 | _____ |
| TOTAL FIXED EXPENSES | | | | 124.02 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 698.17 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 161.83 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

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

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|-----------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 8R-38 | MFWD 190 | 0.073 | 1.00 | May | | 0.07 | 0.07 | 0.07 | 0.05 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 225 | 0.120 | 1.00 | May | | 0.12 | 0.12 | 0.24 | 0.09 |
| Peanut Seed | lb | | | | | 150.0000 | | | | |
| Optimize LIFT | oz | | | | | 14.8000 | | | | |
| Admire Pro | oz | | | | | 9.0000 | | | | |
| Abound | oz | | | | | 12.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Valor SX | oz | | | | | 3.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.25 | May | | | 0.00 | 0.00 | 0.00 |
| Acephate 90% | lb | | | | | 0.1375 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Storm | pt | | | | | 1.5000 | | | | |
| Cadre | oz | | | | | 4.0000 | | | | |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Select Max | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.0000 | | | | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 0.186 | 1.00 | Sep | | 0.18 | 0.18 | 0.18 | 0.14 |
| Peanut Harvester | 4R-38 | MFWD 225 | 0.934 | 1.00 | Sep | | 0.93 | 0.93 | 0.93 | 0.74 |
| Dry Peanuts | ton | | | | | 1.1400 | | | | |
| Cleaning Peanuts | ton | | | | | 1.6200 | | | | |
| Peanut Dump Cart | 6-Row | MFWD 190 | 0.310 | 1.00 | Sep | | 0.31 | 0.31 | 0.31 | 0.24 |
| TOTALS | | | | | | | 1.82 | 1.62 | 2.04 | 1.45 |

Note: Cost of production estimates are based on 2021 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|--------------|--------------|--------------|-------------|-------------|---------------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.06 | 3.39 | | 3.39 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Glyphosate 3lbs a.e | pt | 7.24 | | | | | | 0.13 | 7.37 | | 7.37 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.34 | 19.99 | | 19.99 |
| Bed-Rip/Disk Fold. | 8R-38 | | 1.69 | 0.65 | 2.01 | | | 0.06 | 4.41 | 3.53 | 7.94 |
| Peanut Plt&Pre Rigid | 8R-38 | | 3.30 | 2.93 | 4.41 | | | 0.16 | 10.80 | 9.04 | 19.84 |
| Peanut Seed | lb | 126.00 | | | | | | 1.84 | 127.84 | | 127.84 |
| Optimize LIFT | oz | 7.40 | | | | | | 0.11 | 7.51 | | 7.51 |
| Admire Pro | oz | 14.13 | | | | | | 0.21 | 14.34 | | 14.34 |
| Abound | oz | 23.52 | | | | | | 0.34 | 23.86 | | 23.86 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Valor SX | oz | 10.80 | | | | | | 0.16 | 10.96 | | 10.96 |
| Sprayer 600-750gal | 60' 175hp | | 0.09 | 0.05 | 0.14 | | | | 0.28 | 0.32 | 0.60 |
| Acephate 90% | lb | 1.36 | | | | | | 0.02 | 1.38 | | 1.38 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Storm | pt | 16.74 | | | | | | 0.20 | 16.94 | | 16.94 |
| Cadre | oz | 13.32 | | | | | | 0.16 | 13.48 | | 13.48 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc. (Veg.) | pt | 5.80 | | | | | | 0.07 | 5.87 | | 5.87 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.07 | 6.25 | | 6.25 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.31 | 35.59 | | 35.59 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc. (Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Select Max | pt | 12.73 | | | | | | 0.11 | 12.84 | | 12.84 |
| Crop Oil Conc. (Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 4.12 | | | | | | 0.04 | 4.16 | | 4.16 |
| Tebuconazole 3.6 | oz | 3.53 | | | | | | 0.03 | 3.56 | | 3.56 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.21 | 35.49 | | 35.49 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.04 | 6.22 | | 6.22 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | | 1.14 | 1.26 | 2.40 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.02 | 6.20 | | 6.20 |
| Peanut Dig/Invertor | 4R-38 | | 4.30 | 2.99 | 5.11 | | | 0.04 | 12.44 | 9.05 | 21.49 |
| Peanut Harvester | 4R-38 | | 25.54 | 15.71 | 25.69 | | | 0.20 | 67.14 | 72.68 | 139.82 |
| Dry Peanuts | ton | 27.36 | | | | | | 0.08 | 27.44 | | 27.44 |
| Cleaning Peanuts | ton | 29.16 | | | | | | 0.09 | 29.25 | | 29.25 |
| Peanut Dump Cart | 6-Row | | 7.15 | 3.04 | 8.52 | | | 0.05 | 18.76 | 15.54 | 34.30 |
| TOTALS | | 442.71 | 46.14 | 27.57 | 52.15 | 0.00 | 5.58 | 574.15 | 124.02 | 698.17 | |

Note: Cost of production estimates are based on 2021 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 25.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 860.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 6.18 | 42.93 | 41.46 | 6.18 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 20.82 | 32.96 | 15.63 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 126.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.80 | 11.60 | 0.00 | 0.00 |
| CLEANING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.16 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.36 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 7.13 | 1.14 | 2.28 | 1.14 | 39.89 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 5.45 | 0.74 | 1.48 | 0.74 | 37.36 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 3.83 | 0.40 | 0.80 | 0.40 | 21.94 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 3.07 | 0.55 | 0.66 | 0.27 | 0.48 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.91 | 212.71 | 47.77 | 75.38 | 44.01 | 162.37 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -212.71 | -47.77 | -75.38 | -44.01 | 697.63 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -244.62 | -292.39 | -367.77 | -411.78 | 285.85 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.
 * Lease costs are based on hourly usage costs.

Table 25.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8 row-38 inch
 All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------------|-------|------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| | | | PRODUCT PRICE | | | | | | | | | | |
| Peanut Runner | | | 322.50 | 344.00 | 365.50 | 387.00 | 408.50 | 430.00 | 451.50 | 473.00 | 494.50 | 516.00 | 537.50 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 1.00 | ton | -223 -347 | -201 -325 | -180 -304 | -158 -282 | -137 -261 | -115 -239 | -94 -218 | -72 -196 | -51 -175 | -29 -153 | -8 -132 |
| 60 | 1.20 | ton | -164 -288 | -138 -262 | -112 -236 | -87 -211 | -61 -185 | -35 -159 | -9 -133 | 16 -107 | 41 -82 | 67 -56 | 93 -30 |
| 70 | 1.40 | ton | -105 -229 | -75 -199 | -45 -169 | -15 -139 | 14 -109 | 44 -79 | 74 -49 | 105 -18 | 135 11 | 165 41 | 195 71 |
| 80 | 1.60 | ton | -46 -170 | -12 -136 | 21 -102 | 56 -67 | 90 -33 | 125 1 | 159 35 | 193 69 | 228 104 | 262 138 | 297 173 |
| 90 | 1.80 | ton | 12 -112 | 50 -73 | 89 -34 | 128 4 | 166 42 | 205 81 | 244 120 | 282 158 | 321 197 | 360 236 | 399 274 |
| 100 | 2.00 | ton | 70 -53 | 113 -10 | 156 32 | 199 75 | 242 118 | 285 161 | 328 204 | 371 247 | 414 290 | 457 333 | 500 376 |
| 110 | 2.20 | ton | 129 5 | 176 52 | 224 100 | 271 147 | 318 194 | 366 242 | 413 289 | 460 336 | 508 384 | 555 431 | 602 478 |
| 120 | 2.40 | ton | 188 64 | 240 116 | 291 167 | 343 219 | 394 270 | 446 322 | 498 374 | 549 425 | 601 477 | 652 528 | 704 580 |
| 130 | 2.60 | ton | 247 123 | 303 179 | 359 235 | 415 291 | 470 346 | 526 402 | 582 458 | 638 514 | 694 570 | 750 626 | 806 682 |
| 140 | 2.80 | ton | 306 182 | 366 242 | 426 302 | 486 362 | 546 422 | 607 483 | 667 543 | 727 603 | 787 663 | 847 723 | 908 784 |
| 150 | 3.00 | ton | 365 240 | 429 305 | 494 369 | 558 434 | 623 498 | 687 563 | 752 627 | 816 692 | 881 756 | 945 821 | 1010 885 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 26.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Abound | oz | 1.96 | 48.0000 | 94.08 | _____ |
| Bravo Weather Stick | pt | 4.12 | 5.5000 | 22.66 | _____ |
| Tebuconazole 3.6 | oz | 0.49 | 7.2000 | 3.53 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 1.81 | 4.0000 | 7.24 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| Valor SX | oz | 3.60 | 3.0000 | 10.80 | _____ |
| Storm | pt | 11.16 | 1.5000 | 16.74 | _____ |
| Cadre | oz | 3.33 | 4.0000 | 13.32 | _____ |
| Butyrac 200 (2,4-DB) | pt | 2.90 | 2.0000 | 5.80 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.57 | 9.0000 | 14.13 | _____ |
| Acephate 90% | lb | 9.87 | 0.1375 | 1.36 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 150.0000 | 126.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.90 | 6.0000 | 17.40 | _____ |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | 1.6200 | 29.16 | _____ |
| DRYING | | | | | |
| Dry Peanuts | ton | 24.00 | 1.1400 | 27.36 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.50 | 29.6000 | 14.80 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 1.6246 | 24.80 | _____ |
| Self-Propelled | hour | 15.27 | 0.1983 | 3.04 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1207 | 1.09 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.30 | 1.4583 | 22.32 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 17.7898 | 41.98 | _____ |
| Self-Propelled | gal | 2.36 | 1.7850 | 4.16 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 17.20 | 1.0000 | 17.20 | _____ |
| Tractors | acre | 11.85 | 1.0000 | 11.85 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | acre | 5.74 | 1.0000 | 5.74 | _____ |
| TOTAL DIRECT EXPENSES | | | | 585.44 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 46.57 | 1.0000 | 46.57 | _____ |
| Tractors | acre | 69.83 | 1.0000 | 69.83 | _____ |
| Self-Propelled | acre | 14.18 | 1.0000 | 14.18 | _____ |
| TOTAL FIXED EXPENSES | | | | 130.58 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 716.02 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests. Soil test cost is prorated for a test every 3rd year. Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 26.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Peanut Runner | ton | 430.00 | 2.0000 | 860.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 860.00 | _____ |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | acre | 120.27 | 1.0000 | 120.27 | _____ |
| HERBICIDES | acre | 76.65 | 1.0000 | 76.65 | _____ |
| INSECTICIDES | acre | 15.49 | 1.0000 | 15.49 | _____ |
| SEED/PLANTS | acre | 126.00 | 1.0000 | 126.00 | _____ |
| ADJUVANTS | acre | 17.40 | 1.0000 | 17.40 | _____ |
| CLEANING | acre | 29.16 | 1.0000 | 29.16 | _____ |
| DRYING | acre | 27.36 | 1.0000 | 27.36 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| INOCULANT | acre | 14.80 | 1.0000 | 14.80 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.2199 | 1.99 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.8229 | 27.84 | _____ |
| UNALLOCATED LABOR | hour | 15.30 | 1.4583 | 22.32 | _____ |
| DIESEL FUEL | gal | 2.36 | 19.5748 | 46.14 | _____ |
| REPAIR & MAINTENANCE | acre | 31.30 | 1.0000 | 31.30 | _____ |
| INTEREST ON OP. CAP. | acre | 5.74 | 1.0000 | 5.74 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 585.44 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 274.56 | _____ |
| TOTAL FIXED EXPENSES | | | | 130.58 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 716.02 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 143.98 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 26.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|-----------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Rigid | 8R-38 | MFWD 190 | 0.073 | 1.00 | May | | 0.07 | 0.07 | 0.07 | 0.05 |
| Peanut Ptl&PreTwin | 8R-30/40 | MFWD 225 | 0.120 | 1.00 | May | | 0.12 | 0.12 | 0.24 | 0.09 |
| Peanut Seed | lb | | | | | 150.0000 | | | | |
| Optimize LIFT | oz | | | | | 29.6000 | | | | |
| Admire Pro | oz | | | | | 9.0000 | | | | |
| Abound | oz | | | | | 12.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Valor SX | oz | | | | | 3.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.25 | May | | | 0.00 | 0.00 | 0.00 |
| Acephate 90% | lb | | | | | 0.1375 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Storm | pt | | | | | 1.5000 | | | | |
| Cadre | oz | | | | | 4.0000 | | | | |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Select Max | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc. (Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.0000 | | | | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 0.186 | 1.00 | Sep | | 0.18 | 0.18 | 0.18 | 0.14 |
| Peanut Harvester | 4R-38 | MFWD 225 | 0.934 | 1.00 | Sep | | 0.93 | 0.93 | 0.93 | 0.74 |
| Dry Peanuts | ton | | | | | 1.1400 | | | | |
| Cleaning Peanuts | ton | | | | | 1.6200 | | | | |
| Peanut Dump Cart | 6-Row | MFWD 190 | 0.310 | 1.00 | Sep | | 0.31 | 0.31 | 0.31 | 0.24 |
| TOTALS | | | | | | | 1.82 | 1.62 | 2.04 | 1.45 |

Note: Cost of production estimates are based on 2021 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 26.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.06 | 3.39 | | 3.39 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Glyphosate 3lbs a.e | pt | 7.24 | | | | | | 0.13 | 7.37 | | 7.37 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.34 | 19.99 | | 19.99 |
| Bed-Rip/Disk Rigid | 8R-38 | | 1.69 | 0.62 | 2.01 | | | 0.06 | 4.38 | 3.42 | 7.80 |
| Peanut Ptl&PreTwin | 8R-30/40 | | 3.30 | 6.69 | 4.41 | | | 0.21 | 14.61 | 15.71 | 30.32 |
| Peanut Seed | lb | 126.00 | | | | | | 1.84 | 127.84 | | 127.84 |
| Optimize LIFT | oz | 14.80 | | | | | | 0.22 | 15.02 | | 15.02 |
| Admire Pro | oz | 14.13 | | | | | | 0.21 | 14.34 | | 14.34 |
| Abound | oz | 23.52 | | | | | | 0.34 | 23.86 | | 23.86 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Valor SX | oz | 10.80 | | | | | | 0.16 | 10.96 | | 10.96 |
| Sprayer 600-750gal | 60' 175hp | | 0.09 | 0.05 | 0.14 | | | | 0.28 | 0.32 | 0.60 |
| Acephate 90% | lb | 1.36 | | | | | | 0.02 | 1.38 | | 1.38 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Storm | pt | 16.74 | | | | | | 0.20 | 16.94 | | 16.94 |
| Cadre | oz | 13.32 | | | | | | 0.16 | 13.48 | | 13.48 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.07 | 5.87 | | 5.87 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.07 | 6.25 | | 6.25 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.31 | 35.59 | | 35.59 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Select Max | pt | 12.73 | | | | | | 0.11 | 12.84 | | 12.84 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 4.12 | | | | | | 0.04 | 4.16 | | 4.16 |
| Tebuconazole 3.6 | oz | 3.53 | | | | | | 0.03 | 3.56 | | 3.56 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.21 | 35.49 | | 35.49 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.04 | 6.22 | | 6.22 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | | 1.14 | 1.26 | 2.40 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.02 | 6.20 | | 6.20 |
| Peanut Dig/Invertor | 4R-38 | | 4.30 | 2.99 | 5.11 | | | 0.04 | 12.44 | 9.05 | 21.49 |
| Peanut Harvester | 4R-38 | | 25.54 | 15.71 | 25.69 | | | 0.20 | 67.14 | 72.68 | 139.82 |
| Dry Peanuts | ton | 27.36 | | | | | | 0.08 | 27.44 | | 27.44 |
| Cleaning Peanuts | ton | 29.16 | | | | | | 0.09 | 29.25 | | 29.25 |
| Peanut Dump Cart | 6-Row | | 7.15 | 3.04 | 8.52 | | | 0.05 | 18.76 | 15.54 | 34.30 |
| TOTALS | | 450.11 | 46.14 | 31.30 | 52.15 | 0.00 | 5.74 | 585.44 | 130.58 | 716.02 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 26.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 860.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 6.18 | 42.93 | 41.46 | 6.18 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 20.82 | 32.96 | 15.63 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 126.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.80 | 11.60 | 0.00 | 0.00 |
| CLEANING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.16 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.36 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 7.13 | 1.14 | 2.28 | 1.14 | 39.89 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 5.45 | 0.74 | 1.48 | 0.74 | 37.36 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 7.56 | 0.40 | 0.80 | 0.40 | 21.94 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 3.23 | 0.55 | 0.66 | 0.27 | 0.48 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.91 | 224.00 | 47.77 | 75.38 | 44.01 | 162.37 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -224.00 | -47.77 | -75.38 | -44.01 | 697.63 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -255.91 | -303.68 | -379.06 | -423.07 | 274.56 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.
 * Lease costs are based on hourly usage costs.

Table 26.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 8R 38" Twin
 All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------------|-------|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Peanut Runner | | | 322.50 | 344.00 | 365.50 | 387.00 | 408.50 | 430.00 | 451.50 | 473.00 | 494.50 | 516.00 | 537.50 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 1.00 | ton | -234 -365 | -213 -343 | -191 -322 | -170 -300 | -148 -279 | -127 -257 | -105 -236 | -84 -214 | -62 -193 | -41 -171 | -19 -150 |
| 60 | 1.20 | ton | -175 -306 | -149 -280 | -124 -254 | -98 -228 | -72 -203 | -46 -177 | -20 -151 | 4 -125 | 30 -99 | 56 -74 | 82 -48 |
| 70 | 1.40 | ton | -116 -247 | -86 -217 | -56 -187 | -26 -157 | 3 -127 | 33 -97 | 63 -66 | 93 -36 | 123 -6 | 153 23 | 184 53 |
| 80 | 1.60 | ton | -58 -188 | -23 -154 | 10 -119 | 45 -85 | 79 -51 | 113 -16 | 148 17 | 182 52 | 217 86 | 251 120 | 285 155 |
| 90 | 1.80 | ton | 0 -129 | 39 -91 | 78 -52 | 116 -13 | 155 24 | 194 63 | 232 102 | 271 141 | 310 179 | 349 218 | 387 257 |
| 100 | 2.00 | ton | 59 -71 | 102 -28 | 145 14 | 188 57 | 231 100 | 274 143 | 317 186 | 360 229 | 403 272 | 446 315 | 489 358 |
| 110 | 2.20 | ton | 118 -12 | 165 35 | 212 82 | 260 129 | 307 177 | 354 224 | 402 271 | 449 318 | 496 366 | 544 413 | 591 460 |
| 120 | 2.40 | ton | 177 46 | 228 98 | 280 149 | 332 201 | 383 253 | 435 304 | 486 356 | 538 407 | 590 459 | 641 511 | 693 562 |
| 130 | 2.60 | ton | 236 105 | 291 161 | 347 217 | 403 273 | 459 329 | 515 384 | 571 440 | 627 496 | 683 552 | 739 608 | 795 664 |
| 140 | 2.80 | ton | 294 164 | 355 224 | 415 284 | 475 344 | 535 405 | 595 465 | 656 525 | 716 585 | 776 645 | 836 706 | 896 766 |
| 150 | 3.00 | ton | 353 223 | 418 287 | 482 352 | 547 416 | 611 481 | 676 545 | 740 610 | 805 674 | 869 739 | 934 803 | 998 868 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 27.A Estimated costs per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Abound | oz | 1.96 | 48.0000 | 94.08 | _____ |
| Bravo Weather Stick | pt | 4.12 | 5.5000 | 22.66 | _____ |
| Tebuconazole 3.6 | oz | 0.49 | 7.2000 | 3.53 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 1.81 | 4.0000 | 7.24 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| Valor SX | oz | 3.60 | 3.0000 | 10.80 | _____ |
| Storm | pt | 11.16 | 1.5000 | 16.74 | _____ |
| Cadre | oz | 3.33 | 4.0000 | 13.32 | _____ |
| Butyrac 200 (2,4-DB) | pt | 2.90 | 2.0000 | 5.80 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.57 | 9.0000 | 14.13 | _____ |
| Acephate 90% | lb | 9.87 | 0.1375 | 1.36 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 150.0000 | 126.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.90 | 6.0000 | 17.40 | _____ |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | 1.6200 | 29.16 | _____ |
| DRYING | | | | | |
| Dry Peanuts | ton | 24.00 | 1.1400 | 27.36 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.50 | 14.8000 | 7.40 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 1.1856 | 18.10 | _____ |
| Self-Propelled | hour | 15.27 | 0.1983 | 3.04 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0804 | 0.73 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.31 | 1.1072 | 16.96 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 12.9499 | 30.55 | _____ |
| Self-Propelled | gal | 2.36 | 1.7850 | 4.16 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 10.52 | 1.0000 | 10.52 | _____ |
| Tractors | acre | 8.62 | 1.0000 | 8.62 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| INTEREST ON OP. CAP. | acre | 5.44 | 1.0000 | 5.44 | _____ |
| TOTAL DIRECT EXPENSES | | | | 543.98 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 33.29 | 1.0000 | 33.29 | _____ |
| Tractors | acre | 50.82 | 1.0000 | 50.82 | _____ |
| Self-Propelled | acre | 14.18 | 1.0000 | 14.18 | _____ |
| TOTAL FIXED EXPENSES | | | | 98.29 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 642.27 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.B Summary of estimated costs and returns per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Peanut Runner | ton | 430.00 | 2.0000 | 860.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 860.00 | _____ |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | acre | 120.27 | 1.0000 | 120.27 | _____ |
| HERBICIDES | acre | 76.65 | 1.0000 | 76.65 | _____ |
| INSECTICIDES | acre | 15.49 | 1.0000 | 15.49 | _____ |
| SEED/PLANTS | acre | 126.00 | 1.0000 | 126.00 | _____ |
| ADJUVANTS | acre | 17.40 | 1.0000 | 17.40 | _____ |
| CLEANING | acre | 29.16 | 1.0000 | 29.16 | _____ |
| DRYING | acre | 27.36 | 1.0000 | 27.36 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| INOCULANT | acre | 7.40 | 1.0000 | 7.40 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1795 | 1.63 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.3840 | 21.14 | _____ |
| UNALLOCATED LABOR | hour | 15.31 | 1.1072 | 16.96 | _____ |
| DIESEL FUEL | gal | 2.36 | 14.7349 | 34.71 | _____ |
| REPAIR & MAINTENANCE | acre | 21.39 | 1.0000 | 21.39 | _____ |
| INTEREST ON OP. CAP. | acre | 5.44 | 1.0000 | 5.44 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 543.98 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 316.02 | _____ |
| TOTAL FIXED EXPENSES | | | | 98.29 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 642.27 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 217.73 | _____ |

Note: Cost of production estimates are based on 2021 input prices.

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

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

Table 27.C Estimated resource use for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|-----------|---------------|-----|-----------------|-------------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 0.046 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 225 | 0.080 | 1.00 | May | | 0.08 | 0.08 | 0.16 | 0.06 |
| Peanut Seed | lb | | | | | 150.0000 | | | | |
| Optimize LIFT | oz | | | | | 14.8000 | | | | |
| Admire Pro | oz | | | | | 9.0000 | | | | |
| Abound | oz | | | | | 12.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Valor SX | oz | | | | | 3.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.25 | May | | | 0.00 | 0.00 | 0.00 |
| Acephate 90% | lb | | | | | 0.1375 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Storm | pt | | | | | 1.5000 | | | | |
| Cadre | oz | | | | | 4.0000 | | | | |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Select Max | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.0000 | | | | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 0.124 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.09 |
| Peanut Harvester | 6R-38 | MFWD 225 | 0.625 | 1.00 | Sep | | 0.62 | 0.62 | 0.62 | 0.50 |
| Dry Peanuts | ton | | | | | 1.1400 | | | | |
| Cleaning Peanuts | ton | | | | | 1.6200 | | | | |
| Peanut Dump Cart | 6-Row | MFWD 190 | 0.310 | 1.00 | Sep | | 0.31 | 0.31 | 0.31 | 0.24 |
| TOTALS | | | | | | | 1.38 | 1.18 | 1.56 | 1.10 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.D Estimated costs for field operations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|---------------|--------------|--------------|--------------|-------------|-------------|---------------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.06 | 3.39 | | 3.39 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Glyphosate 3lbs a.e | pt | 7.24 | | | | | | 0.13 | 7.37 | | 7.37 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.34 | 19.99 | | 19.99 |
| Bed-Rip/Disk Fold. | 12R-38 | | 1.26 | 0.52 | 1.27 | | | 0.04 | 3.09 | 2.79 | 5.88 |
| Peanut Plt&Pre Fold. | 12R-38 | | 2.20 | 3.46 | 2.94 | | | 0.13 | 8.73 | 8.71 | 17.44 |
| Peanut Seed | lb | 126.00 | | | | | | 1.84 | 127.84 | | 127.84 |
| Optimize LIFT | oz | 7.40 | | | | | | 0.11 | 7.51 | | 7.51 |
| Admire Pro | oz | 14.13 | | | | | | 0.21 | 14.34 | | 14.34 |
| Abound | oz | 23.52 | | | | | | 0.34 | 23.86 | | 23.86 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Valor SX | oz | 10.80 | | | | | | 0.16 | 10.96 | | 10.96 |
| Sprayer 600-750gal | 60' 175hp | | 0.09 | 0.05 | 0.14 | | | | 0.28 | 0.32 | 0.60 |
| Acephate 90% | lb | 1.36 | | | | | | 0.02 | 1.38 | | 1.38 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Storm | pt | 16.74 | | | | | | 0.20 | 16.94 | | 16.94 |
| Cadre | oz | 13.32 | | | | | | 0.16 | 13.48 | | 13.48 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.07 | 5.87 | | 5.87 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.07 | 6.25 | | 6.25 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.31 | 35.59 | | 35.59 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Select Max | pt | 12.73 | | | | | | 0.11 | 12.84 | | 12.84 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 4.12 | | | | | | 0.04 | 4.16 | | 4.16 |
| Tebuconazole 3.6 | oz | 3.53 | | | | | | 0.03 | 3.56 | | 3.56 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.21 | 35.49 | | 35.49 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.04 | 6.22 | | 6.22 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | | 1.14 | 1.26 | 2.40 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.02 | 6.20 | | 6.20 |
| Peanut Dig/Invertor | 6R-38 | | 2.86 | 1.99 | 3.41 | | | 0.02 | 8.28 | 6.58 | 14.86 |
| Peanut Harvester | 6R-38 | | 17.08 | 10.13 | 17.18 | | | 0.13 | 44.52 | 50.49 | 95.01 |
| Dry Peanuts | ton | 27.36 | | | | | | 0.08 | 27.44 | | 27.44 |
| Cleaning Peanuts | ton | 29.16 | | | | | | 0.09 | 29.25 | | 29.25 |
| Peanut Dump Cart | 6-Row | | 7.15 | 3.04 | 8.52 | | | 0.05 | 18.76 | 15.54 | 34.30 |
| TOTALS | | | 442.71 | 34.71 | 21.39 | 39.73 | 0.00 | 5.44 | 543.98 | 98.29 | 642.27 |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 27.E Estimated monthly income and expense flows per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|------|------|------|------|------|------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 860.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 6.18 | 42.93 | 41.46 | 6.18 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 20.82 | 32.96 | 15.63 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 126.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.80 | 11.60 | 0.00 | 0.00 |
| CLEANING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.16 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.36 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 4.92 | 1.14 | 2.28 | 1.14 | 29.68 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 3.92 | 0.74 | 1.48 | 0.74 | 27.46 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 4.23 | 0.40 | 0.80 | 0.40 | 15.36 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 3.02 | 0.55 | 0.66 | 0.27 | 0.39 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.91 | 209.32 | 47.77 | 75.38 | 44.01 | 135.59 |
| NET INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -209.32 | -47.77 | -75.38 | -44.01 | 724.41 |
| NET INCOME TO DATE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -31.91 | -241.23 | -289.00 | -364.38 | -408.39 | 316.02 |

Note: Cost of production estimates are based on 2021 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 27.F Estimated returns for various price/yield combinations, per acre
 Peanut - runner, 2.0 ton (4000 lb) yield, 12 row-38inch
 All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------------|-------|------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|-------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Peanut Runner | | | 322.50 | 344.00 | 365.50 | 387.00 | 408.50 | 430.00 | 451.50 | 473.00 | 494.50 | 516.00 | 537.50 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 1.00 | ton | -193 -291 | -171 -269 | -150 -248 | -128 -226 | -107 -205 | -85 -183 | -64 -162 | -42 -140 | -21 -119 | 0 -97 | 21 -76 |
| 60 | 1.20 | ton | -134 -232 | -108 -206 | -82 -180 | -56 -155 | -31 -129 | -5 -103 | 20 -77 | 46 -51 | 72 -26 | 97 -0 | 123 25 |
| 70 | 1.40 | ton | -75 -173 | -45 -143 | -15 -113 | 14 -83 | 44 -53 | 75 -23 | 105 6 | 135 36 | 165 67 | 195 97 | 225 127 |
| 80 | 1.60 | ton | -16 -114 | 17 -80 | 52 -46 | 86 -11 | 120 22 | 155 57 | 189 91 | 224 125 | 258 160 | 292 194 | 327 229 |
| 90 | 1.80 | ton | 42 -56 | 80 -17 | 119 21 | 158 59 | 196 98 | 235 137 | 274 176 | 313 214 | 351 253 | 390 292 | 429 330 |
| 100 | 2.00 | ton | 101 2 | 144 45 | 187 88 | 230 131 | 273 174 | 316 217 | 359 260 | 402 303 | 445 346 | 488 389 | 531 432 |
| 110 | 2.20 | ton | 159 61 | 207 108 | 254 156 | 301 203 | 349 250 | 396 298 | 443 345 | 490 392 | 538 439 | 585 487 | 632 534 |
| 120 | 2.40 | ton | 218 120 | 270 171 | 321 223 | 373 275 | 425 326 | 476 378 | 528 429 | 579 481 | 631 533 | 683 584 | 734 636 |
| 130 | 2.60 | ton | 277 179 | 333 235 | 389 291 | 445 346 | 501 402 | 557 458 | 612 514 | 668 570 | 724 626 | 780 682 | 836 738 |
| 140 | 2.80 | ton | 336 238 | 396 298 | 456 358 | 516 418 | 577 478 | 637 539 | 697 599 | 757 659 | 817 719 | 878 779 | 938 840 |
| 150 | 3.00 | ton | 395 296 | 459 361 | 524 425 | 588 490 | 653 554 | 717 619 | 782 683 | 846 748 | 911 812 | 975 877 | 1040 941 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

Table 28.A Estimated costs per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | | | | | |
| Abound | oz | 1.96 | 48.0000 | 94.08 | _____ |
| Bravo Weather Stick | pt | 4.12 | 5.5000 | 22.66 | _____ |
| Tebuconazole 3.6 | oz | 0.49 | 7.2000 | 3.53 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 1.81 | 4.0000 | 7.24 | _____ |
| Dual Magnum | pt | 10.02 | 1.0000 | 10.02 | _____ |
| Valor SX | oz | 3.60 | 3.0000 | 10.80 | _____ |
| Storm | pt | 11.16 | 1.5000 | 16.74 | _____ |
| Cadre | oz | 3.33 | 4.0000 | 13.32 | _____ |
| Butyrac 200 (2,4-DB) | pt | 2.90 | 2.0000 | 5.80 | _____ |
| Select Max | pt | 12.73 | 1.0000 | 12.73 | _____ |
| INSECTICIDES | | | | | |
| Admire Pro | oz | 1.57 | 9.0000 | 14.13 | _____ |
| Acephate 90% | lb | 9.87 | 0.1375 | 1.36 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| Roll-Out Pipe | ft | 0.24 | 33.0000 | 7.92 | _____ |
| SEED/PLANTS | | | | | |
| Peanut Seed | lb | 0.84 | 150.0000 | 126.00 | _____ |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Veg.) | pt | 2.90 | 6.0000 | 17.40 | _____ |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | 1.8700 | 33.66 | _____ |
| DRYING | | | | | |
| Dry Peanuts | ton | 24.00 | 1.3200 | 31.68 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 59.00 | 0.3330 | 19.65 | _____ |
| INOCULANT | | | | | |
| Optimize LIFT | oz | 0.50 | 14.8000 | 7.40 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3330 | 3.33 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 15.27 | 1.2642 | 19.30 | _____ |
| Self-Propelled | hour | 15.27 | 0.1983 | 3.04 | _____ |
| IRRIGATE LABOR | | | | | |
| Special Labor | hour | 9.06 | 0.3250 | 2.96 | _____ |
| Implements | hour | 9.06 | 0.0625 | 0.57 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.0804 | 0.73 | _____ |
| Self-Propelled | hour | 9.06 | 0.0991 | 0.90 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 15.31 | 1.1072 | 16.96 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.36 | 13.6762 | 32.27 | _____ |
| Self-Propelled | gal | 2.36 | 1.7850 | 4.16 | _____ |
| Irrigate Peanuts | gal | 2.36 | 9.7755 | 23.08 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 10.74 | 1.0000 | 10.74 | _____ |
| Tractors | acre | 9.07 | 1.0000 | 9.07 | _____ |
| Self-Propelled | acre | 2.25 | 1.0000 | 2.25 | _____ |
| Irrigate Peanuts | acre | 7.16 | 1.0000 | 7.16 | _____ |
| INTEREST ON OP. CAP. | acre | 5.98 | 1.0000 | 5.98 | _____ |
| TOTAL DIRECT EXPENSES | | | | 598.62 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 34.70 | 1.0000 | 34.70 | _____ |
| Tractors | acre | 53.49 | 1.0000 | 53.49 | _____ |
| Self-Propelled | acre | 14.18 | 1.0000 | 14.18 | _____ |
| Irrigate Peanuts | acre | 49.28 | 1.0000 | 49.28 | _____ |
| TOTAL FIXED EXPENSES | | | | 151.65 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 750.27 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.B Summary of estimated costs and returns per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Peanut Runner | ton | 430.00 | 2.3000 | 989.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 989.00 | _____ |
| DIRECT EXPENSES | | | | | |
| FUNGICIDES | acre | 120.27 | 1.0000 | 120.27 | _____ |
| HERBICIDES | acre | 76.65 | 1.0000 | 76.65 | _____ |
| INSECTICIDES | acre | 15.49 | 1.0000 | 15.49 | _____ |
| IRRIGATION SUPPLIES | acre | 7.92 | 1.0000 | 7.92 | _____ |
| SEED/PLANTS | acre | 126.00 | 1.0000 | 126.00 | _____ |
| ADJUVANTS | acre | 17.40 | 1.0000 | 17.40 | _____ |
| CLEANING | acre | 33.66 | 1.0000 | 33.66 | _____ |
| DRYING | acre | 31.68 | 1.0000 | 31.68 | _____ |
| CUSTOM LIME | acre | 19.65 | 1.0000 | 19.65 | _____ |
| INOCULANT | acre | 7.40 | 1.0000 | 7.40 | _____ |
| SOIL TEST | acre | 3.33 | 1.0000 | 3.33 | _____ |
| HAND LABOR | hour | 9.06 | 0.1795 | 1.63 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.3875 | 3.53 | _____ |
| OPERATOR LABOR | hour | 15.27 | 1.4625 | 22.34 | _____ |
| UNALLOCATED LABOR | hour | 15.31 | 1.1072 | 16.96 | _____ |
| DIESEL FUEL | gal | 2.36 | 25.2367 | 59.51 | _____ |
| REPAIR & MAINTENANCE | acre | 29.22 | 1.0000 | 29.22 | _____ |
| INTEREST ON OP. CAP. | acre | 5.98 | 1.0000 | 5.98 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 598.62 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 390.38 | _____ |
| | | | | | |
| TOTAL FIXED EXPENSES | | | | 151.65 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 750.27 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 238.73 | _____ |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes. Fertilization decisions should be based on soil tests.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.C Estimated resource use for field operations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| | | | | | | -----hours----- | | | | |
| Soil Test | acre | | | 0.33 | Apr | 0.3330 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Apr | | | 0.01 | 0.02 | 0.01 |
| Glyphosate 3lbs a.e | pt | | | | | 4.0000 | | | | |
| Lime (Spread) | ton | | | 0.33 | Apr | 0.3330 | | | | |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 0.046 | 1.00 | May | | 0.04 | 0.04 | 0.04 | 0.03 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 225 | 0.080 | 1.00 | May | | 0.08 | 0.08 | 0.16 | 0.06 |
| Peanut Seed | lb | | | | | 150.0000 | | | | |
| Optimize LIFT | oz | | | | | 14.8000 | | | | |
| Admire Pro | oz | | | | | 9.0000 | | | | |
| Abound | oz | | | | | 12.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | May | | | 0.01 | 0.02 | 0.01 |
| Dual Magnum | pt | | | | | 1.0000 | | | | |
| Valor SX | oz | | | | | 3.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 0.25 | May | | | 0.00 | 0.00 | 0.00 |
| Acephate 90% | lb | | | | | 0.1375 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Storm | pt | | | | | 1.5000 | | | | |
| Cadre | oz | | | | | 4.0000 | | | | |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jun | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Butyrac 200 (2,4-DB) | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Select Max | pt | | | | | 1.0000 | | | | |
| Crop Oil Conc.(Veg.) | pt | | | | | 2.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Jul | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.0000 | | | | |
| Tebuconazole 3.6 | oz | | | | | 7.2000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Abound | oz | | | | | 18.0000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Aug | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Sprayer 600-750gal | 60' 175hp | | 0.017 | 1.00 | Sep | | | 0.01 | 0.02 | 0.01 |
| Bravo Weather Stick | pt | | | | | 1.5000 | | | | |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 0.124 | 1.00 | Sep | | 0.12 | 0.12 | 0.12 | 0.09 |
| Peanut Harvester | 6R-38 | MFWD 225 | 0.625 | 1.00 | Sep | | 0.62 | 0.62 | 0.62 | 0.50 |
| Dry Peanuts | ton | | | | | 1.3200 | | | | |
| Cleaning Peanuts | ton | | | | | 1.8700 | | | | |
| Peanut Dump Cart | 6-Row | MFWD 190 | 0.310 | 1.00 | Sep | | 0.31 | 0.31 | 0.31 | 0.24 |
| Irrigate Peanuts | acre | | | | Jan | 1.0000 | 0.07 | 0.07 | 0.46 | |
| TOTALS | | | | | | -----hours----- | | | | |
| | | | | | | 1.46 | 1.26 | 2.02 | 1.10 | |

Note: Cost of production estimates are based on 2021 input prices.
Fertilizer recommendations are based on the nutrients that the peanut crop removes.
Soil test cost is prorated for a test every 3rd year.
Lime cost prorated for application every 3rd year.
 60% of all peanuts harvested need drying.
 85% of all peanuts harvested need cleaning.

Table 28.D Estimated costs for field operations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|--------------|--------------|--------------|-------------|-------------|---------------|---------------|---------------|--------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Soil Test | acre | 3.33 | | | | | | 0.06 | 3.39 | | 3.39 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Glyphosate 3lbs a.e | pt | 7.24 | | | | | | 0.13 | 7.37 | | 7.37 |
| Lime (Spread) | ton | 19.65 | | | | | | 0.34 | 19.99 | | 19.99 |
| Bed-Rip/Disk Fold. | 12R-38 | | 1.26 | 0.52 | 1.27 | | | 0.04 | 3.09 | 2.79 | 5.88 |
| Peanut Plt&Pre Fold. | 12R-38 | | 2.20 | 3.46 | 2.94 | | | 0.13 | 8.73 | 8.71 | 17.44 |
| Peanut Seed | lb | 126.00 | | | | | | 1.84 | 127.84 | | 127.84 |
| Optimize LIFT | oz | 7.40 | | | | | | 0.11 | 7.51 | | 7.51 |
| Admire Pro | oz | 14.13 | | | | | | 0.21 | 14.34 | | 14.34 |
| Abound | oz | 23.52 | | | | | | 0.34 | 23.86 | | 23.86 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.02 | 1.16 | 1.26 | 2.42 |
| Dual Magnum | pt | 10.02 | | | | | | 0.15 | 10.17 | | 10.17 |
| Valor SX | oz | 10.80 | | | | | | 0.16 | 10.96 | | 10.96 |
| Sprayer 600-750gal | 60' 175hp | | 0.09 | 0.05 | 0.14 | | | | 0.28 | 0.32 | 0.60 |
| Acephate 90% | lb | 1.36 | | | | | | 0.02 | 1.38 | | 1.38 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Storm | pt | 16.74 | | | | | | 0.20 | 16.94 | | 16.94 |
| Cadre | oz | 13.32 | | | | | | 0.16 | 13.48 | | 13.48 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.07 | 5.87 | | 5.87 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.07 | 6.25 | | 6.25 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.31 | 35.59 | | 35.59 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | | | | | | 0.03 | 2.93 | | 2.93 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Select Max | pt | 12.73 | | | | | | 0.11 | 12.84 | | 12.84 |
| Crop Oil Conc.(Veg.) | pt | 5.80 | | | | | | 0.05 | 5.85 | | 5.85 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 4.12 | | | | | | 0.04 | 4.16 | | 4.16 |
| Tebuconazole 3.6 | oz | 3.53 | | | | | | 0.03 | 3.56 | | 3.56 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Abound | oz | 35.28 | | | | | | 0.21 | 35.49 | | 35.49 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | 0.01 | 1.15 | 1.26 | 2.41 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.04 | 6.22 | | 6.22 |
| Sprayer 600-750gal | 60' 175hp | | 0.37 | 0.20 | 0.57 | | | | 1.14 | 1.26 | 2.40 |
| Bravo Weather Stick | pt | 6.18 | | | | | | 0.02 | 6.20 | | 6.20 |
| Peanut Dig/Invertor | 6R-38 | | 2.86 | 1.99 | 3.41 | | | 0.02 | 8.28 | 6.58 | 14.86 |
| Peanut Harvester | 6R-38 | | 17.08 | 10.13 | 17.18 | | | 0.13 | 44.52 | 50.49 | 95.01 |
| Dry Peanuts | ton | 31.68 | | | | | | 0.09 | 31.77 | | 31.77 |
| Cleaning Peanuts | ton | 33.66 | | | | | | 0.10 | 33.76 | | 33.76 |
| Peanut Dump Cart | 6-Row | | 7.15 | 3.04 | 8.52 | | | 0.05 | 18.76 | 15.54 | 34.30 |
| Irrigate Peanuts | acre | 7.92 | 24.80 | 7.83 | 4.73 | | | 0.52 | 45.80 | 53.36 | 99.16 |
| TOTALS | | 459.45 | 59.51 | 29.22 | 44.46 | 0.00 | 5.98 | 598.62 | 151.65 | 750.27 | |

Note: Cost of production estimates are based on 2021 input prices.

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

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

Table 28.E Estimated monthly income and expense flows per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|--------|
| -----dollars----- | | | | | | | | | | | | |
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 989.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.52 | 6.18 | 42.93 | 41.46 | 6.18 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 20.82 | 32.96 | 15.63 | 0.00 | 0.00 |
| INSECTICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| IRRIGATION SUPPLIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 126.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.80 | 11.60 | 0.00 | 0.00 |
| CLEANING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.66 |
| DRYING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.68 |
| CUSTOM LIME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INOCULANT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LABOR | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 7.29 | 1.37 | 2.74 | 2.00 | 29.68 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 4.37 | 6.51 | 13.02 | 6.90 | 27.46 |
| REPAIR & MAINTENANCE | 0.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 7.37 | 1.45 | 2.90 | 1.62 | 15.36 |
| INTEREST ON OP. CAP. | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | 3.23 | 0.63 | 0.78 | 0.32 | 0.41 |
| TOTAL DIRECT EXPENSES | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.14 | 223.41 | 54.90 | 89.60 | 52.30 | 144.43 |
| NET INCOME | -1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -32.14 | -223.41 | -54.90 | -89.60 | -52.30 | 844.57 |
| NET INCOME TO DATE | -1.84 | -1.84 | -1.84 | -1.84 | -1.84 | -1.84 | -33.98 | -257.39 | -312.29 | -401.89 | -454.19 | 390.38 |

Note: Cost of production estimates are based on 2021 input prices.

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

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

60% of all peanuts harvested need drying.

85% of all peanuts harvested need cleaning.

* Lease costs are based on hourly usage costs.

Table 28.F Estimated returns for various price/yield combinations, per acre
 Peanut-runner, 2.3 ton (4,600 lb) yield, 12 row-38inch
 Furrow irrigated, All Areas, Mississippi, 2022

| | | | PERCENT | | | | | | | | | | |
|---------------|-------|------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| PRODUCT | | | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| Peanut Runner | | | 322.50 | 344.00 | 365.50 | 387.00 | 408.50 | 430.00 | 451.50 | 473.00 | 494.50 | 516.00 | 537.50 |
| PERCENT | YIELD | UNIT | dollars | | | | | | | | | | |
| 50 | 1.15 | ton | -194 -346 | -170 -321 | -145 -297 | -120 -272 | -96 -247 | -71 -223 | -46 -198 | -21 -173 | 2 -148 | 27 -124 | 52 -99 |
| 60 | 1.38 | ton | -127 -279 | -97 -249 | -68 -219 | -38 -189 | -8 -160 | 20 -130 | 50 -100 | 80 -71 | 110 -41 | 139 -11 | 169 17 |
| 70 | 1.61 | ton | -59 -211 | -25 -176 | 9 -142 | 44 -107 | 78 -72 | 113 -38 | 147 -3 | 182 30 | 217 65 | 251 100 | 286 134 |
| 80 | 1.84 | ton | 7 -143 | 47 -104 | 87 -64 | 126 -25 | 166 14 | 205 54 | 245 93 | 284 133 | 324 172 | 363 212 | 403 251 |
| 90 | 2.07 | ton | 75 -76 | 120 -31 | 164 12 | 209 57 | 253 101 | 298 146 | 342 190 | 387 235 | 431 279 | 476 324 | 520 368 |
| 100 | 2.30 | ton | 143 -8 | 192 40 | 242 90 | 291 139 | 340 189 | 390 238 | 439 288 | 489 337 | 538 387 | 588 436 | 637 485 |
| 110 | 2.53 | ton | 210 59 | 265 113 | 319 167 | 373 222 | 428 276 | 482 331 | 537 385 | 591 439 | 645 494 | 700 548 | 754 603 |
| 120 | 2.76 | ton | 278 126 | 337 186 | 397 245 | 456 304 | 515 364 | 575 423 | 634 482 | 693 542 | 753 601 | 812 660 | 871 720 |
| 130 | 2.99 | ton | 345 194 | 410 258 | 474 322 | 538 387 | 603 451 | 667 515 | 731 580 | 795 644 | 860 708 | 924 772 | 988 837 |
| 140 | 3.22 | ton | 413 261 | 482 331 | 552 400 | 621 469 | 690 538 | 759 608 | 828 677 | 898 746 | 967 815 | 1036 885 | 1105 954 |
| 150 | 3.45 | ton | 481 329 | 555 403 | 629 477 | 703 552 | 777 626 | 852 700 | 926 774 | 1000 848 | 1074 922 | 1148 997 | 1222 1071 |

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2021 input prices.

APPENDIX

Appendix Table 1. Tractors/Harvesters: estimated purchase price, annual use, useful life, fuel use, and direct and fixed cost per hour, Mississippi, 2022

| Item Name | Size | Purchase Price | Annual Use | Useful Life | Fuel Use | Labor | Fuel | R&M | Total Direct | Fixed | Total Cost |
|-----------------------|-----------|----------------|------------|-------------|----------|-------------------|-------|-------|--------------|--------|------------|
| | | dollars | hours | years | gal/hr | -----\$/hour----- | | | | | |
| Combine (250-299 hp) | 265 hp | 391,000 | 300 | 8 | 13.64 | 15.27 | 32.19 | 40.72 | 88.18 | 151.14 | 239.33 |
| Combine (300-349 hp) | 325 hp | 413,700 | 300 | 8 | 16.73 | 15.27 | 39.48 | 43.09 | 97.84 | 159.92 | 257.76 |
| Combine (350-399 hp) | 355 hp | 437,900 | 300 | 8 | 18.27 | 15.27 | 43.11 | 45.61 | 104.00 | 169.27 | 273.27 |
| Combine (400-449 hp) | 425 hp | 474,800 | 300 | 8 | 21.87 | 15.27 | 51.62 | 49.45 | 116.35 | 183.54 | 299.89 |
| Combine (450-499hp) | 475 hp | 489,900 | 300 | 8 | 24.44 | 15.27 | 57.69 | 51.03 | 124.00 | 189.37 | 313.37 |
| Tractor (20-39hp)CB | MFWD 30 | 28,600 | 600 | 8 | 1.54 | 15.27 | 3.64 | 0.89 | 19.80 | 5.01 | 24.81 |
| Tractor (20-39hp)RB | MFWD 30 | 21,400 | 600 | 8 | 1.54 | 15.27 | 3.64 | 0.66 | 19.58 | 3.74 | 23.33 |
| Tractor (40-59hp)CB | 2WD 50 | 32,100 | 600 | 8 | 2.57 | 15.27 | 6.07 | 1.00 | 22.34 | 5.62 | 27.97 |
| Tractor (40-59hp)CB | MFWD 50 | 42,600 | 600 | 8 | 2.57 | 15.27 | 6.07 | 1.33 | 22.67 | 7.46 | 30.13 |
| Tractor (40-59hp)RB | 2WD 50 | 23,300 | 600 | 8 | 2.57 | 15.27 | 6.07 | 0.72 | 22.07 | 4.08 | 26.15 |
| Tractor (40-59hp)RB | MFWD 50 | 30,500 | 600 | 8 | 2.57 | 15.27 | 6.07 | 0.95 | 22.29 | 5.34 | 27.64 |
| Tractor (60-89hp)CB | 2WD 75 | 56,700 | 600 | 8 | 3.86 | 15.27 | 9.11 | 1.77 | 26.15 | 9.93 | 36.08 |
| Tractor (60-89hp)CB | MFWD 75 | 60,500 | 600 | 8 | 3.86 | 15.27 | 9.11 | 1.89 | 26.27 | 10.59 | 36.87 |
| Tractor (60-89hp)RB | 2WD 75 | 43,100 | 600 | 8 | 3.86 | 15.27 | 9.11 | 1.34 | 25.72 | 7.55 | 33.27 |
| Tractor (60-89hp)RB | MFWD 75 | 43,800 | 600 | 8 | 3.86 | 15.27 | 9.11 | 1.36 | 25.74 | 7.67 | 33.42 |
| Tractor (90-119hp)CB | 2WD 105 | 74,700 | 600 | 8 | 5.40 | 15.27 | 12.75 | 2.33 | 30.35 | 13.08 | 43.44 |
| Tractor (90-119hp)CB | MFWD 105 | 94,500 | 600 | 8 | 5.40 | 15.27 | 12.75 | 2.95 | 30.97 | 16.55 | 47.53 |
| Tractor (90-119hp)RB | 2WD 105 | 67,100 | 600 | 8 | 5.40 | 15.27 | 12.75 | 2.09 | 30.12 | 11.75 | 41.87 |
| Tractor (90-119hp)RB | MFWD 105 | 75,300 | 600 | 8 | 5.40 | 15.27 | 12.75 | 2.35 | 30.37 | 13.19 | 43.57 |
| Tractor (120-139hp)CB | 2WD 130 | 117,400 | 600 | 8 | 6.69 | 15.27 | 15.79 | 3.66 | 34.73 | 20.56 | 55.29 |
| Tractor (120-139hp)CB | MFWD 130 | 131,100 | 600 | 8 | 6.69 | 15.27 | 15.79 | 4.09 | 35.15 | 22.96 | 58.12 |
| Tractor (140-159hp) | 2WD 150 | 116,100 | 600 | 8 | 7.72 | 15.27 | 18.22 | 3.62 | 37.11 | 20.34 | 57.45 |
| Tractor (140-159hp)CB | MFWD 150 | 143,000 | 600 | 8 | 7.72 | 15.27 | 18.22 | 4.46 | 37.96 | 25.05 | 63.01 |
| Tractor (160-179hp)CB | MFWD 170 | 164,000 | 600 | 8 | 8.75 | 15.27 | 20.65 | 5.12 | 41.04 | 30.21 | 71.26 |
| Tractor (180-199hp)CB | MFWD 190 | 206,000 | 600 | 8 | 9.77 | 15.27 | 23.08 | 6.43 | 44.78 | 37.95 | 82.74 |
| Tractor (200-249hp)CB | MFWD 225 | 248,000 | 600 | 8 | 11.58 | 15.27 | 27.33 | 7.75 | 50.35 | 45.69 | 96.04 |
| Tractor (250-349hp)CB | 4WD 300 | 343,000 | 600 | 8 | 15.44 | 15.27 | 36.44 | 10.71 | 62.43 | 63.19 | 125.62 |
| Tractor (250-349hp)CB | MFWD 300 | 324,000 | 600 | 8 | 15.44 | 15.27 | 36.44 | 10.12 | 61.83 | 59.69 | 121.53 |
| Tractor (250-349hp)CB | Track 300 | 329,000 | 600 | 8 | 15.44 | 15.27 | 36.44 | 10.28 | 61.99 | 60.61 | 122.60 |
| Tractor (350-449hp) | Track 400 | 492,000 | 600 | 8 | 20.58 | 15.27 | 48.59 | 15.37 | 79.23 | 90.64 | 169.88 |
| Tractor (350-449hp)CB | 4WD 400 | 406,000 | 600 | 8 | 20.58 | 15.27 | 48.59 | 12.68 | 76.54 | 74.80 | 151.34 |
| Tractor (450-550hp)CB | 4WD 500 | 430,000 | 600 | 8 | 25.73 | 15.27 | 60.73 | 13.43 | 89.44 | 79.22 | 168.66 |
| Tractor (450-550hp)CB | Track 500 | 496,000 | 600 | 8 | 25.73 | 15.27 | 60.73 | 15.50 | 91.50 | 91.38 | 182.88 |
| Utility Vehicle | 800 CC | 12,200 | 200 | 8 | 0.70 | 15.27 | 1.96 | 1.90 | 19.14 | 7.07 | 26.21 |
| Utility Vehicle | 900 CC | 15,800 | 200 | 8 | 1.00 | 15.27 | 2.81 | 2.46 | 20.54 | 9.16 | 29.71 |

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

Appendix Table 2. Self-propelled machines: estimated purchase price, annual use, useful life, fuel use, performance rate, and direct and fixed cost per acre, Mississippi, 2022

| Item Name | Size | Purchase Price | Annual Use | Useful Life | Fuel Use | Perf Rate | Labor | Fuel | R&M | Total Direct | Fixed | Total Cost |
|----------------------|-------------|----------------|------------|-------------|----------|-----------|-------------------|-------|-------|--------------|--------|------------|
| | | dollars | hours | years | gal/hr | hr/ac | -----\$/acre----- | | | | | |
| Cotton Picker | 4R-38 (250) | 268,000 | 200 | 8 | 12.86 | 0.257 | 6.27 | 7.82 | 10.79 | 24.89 | 40.05 | 64.95 |
| Cotton Picker | 4R-38 (350) | 351,000 | 200 | 8 | 18.01 | 0.257 | 6.27 | 10.95 | 14.13 | 31.36 | 52.46 | 83.83 |
| Cotton Picker | 4R2x1 (350) | 357,000 | 200 | 8 | 18.01 | 0.172 | 4.19 | 7.32 | 9.61 | 21.12 | 35.66 | 56.79 |
| Cotton Picker | 6R-30 (355) | 465,000 | 200 | 8 | 18.27 | 0.218 | 5.31 | 9.41 | 15.85 | 30.57 | 58.84 | 89.42 |
| Cotton Picker | 6R-38 (355) | 465,000 | 200 | 8 | 18.27 | 0.172 | 4.19 | 7.43 | 12.51 | 24.14 | 46.45 | 70.60 |
| Cotton Picker/Modu | 4R-38 (365) | 536,000 | 200 | 8 | 20.58 | 0.257 | 6.27 | 12.52 | 21.58 | 40.38 | 80.11 | 120.50 |
| Cotton Picker/Module | 6R-30 (500) | 854,000 | 200 | 8 | 25.73 | 0.218 | 5.31 | 13.25 | 29.12 | 47.68 | 108.07 | 155.76 |
| Cotton Picker/Module | 6R-38 (500) | 854,000 | 200 | 8 | 25.73 | 0.172 | 4.19 | 10.46 | 22.99 | 37.65 | 85.32 | 122.97 |
| Dry Applicator SP | 70'300cuft | 365,000 | 350 | 8 | 16.98 | 0.015 | 0.29 | 0.60 | 0.29 | 1.20 | 1.82 | 3.02 |
| Sprayer 600-750gal | 60' 175hp | 216,000 | 350 | 8 | 9.00 | 0.017 | 0.34 | 0.37 | 0.20 | 0.92 | 1.26 | 2.18 |
| Sprayer 600-825gal | 80' 175hp | 234,000 | 350 | 8 | 11.81 | 0.013 | 0.26 | 0.36 | 0.16 | 0.79 | 1.02 | 1.82 |
| Sprayer 600-825gal | 90' 250hp | 328,000 | 350 | 8 | 12.73 | 0.011 | 0.23 | 0.35 | 0.20 | 0.79 | 1.27 | 2.06 |
| Sprayer 800gal | 100' 250hp | 333,000 | 350 | 8 | 14.15 | 0.010 | 0.20 | 0.35 | 0.18 | 0.75 | 1.16 | 1.91 |
| Sprayer 800gal | 80' 250hp | 300,000 | 350 | 8 | 12.86 | 0.013 | 0.26 | 0.40 | 0.21 | 0.87 | 1.31 | 2.18 |
| Sprayer 1000-1400gal | 90' 275hp | 332,000 | 350 | 8 | 14.15 | 0.010 | 0.20 | 0.35 | 0.18 | 0.75 | 1.16 | 1.91 |
| Sprayer 1000gal | 100' 300hp | 379,000 | 350 | 8 | 15.44 | 0.010 | 0.20 | 0.38 | 0.21 | 0.80 | 1.32 | 2.13 |
| Sprayer 1200+gal | 120' 300hp | 401,000 | 350 | 8 | 15.44 | 0.008 | 0.17 | 0.32 | 0.18 | 0.68 | 1.17 | 1.85 |

Notes:

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

Direct: Does not include interest on operating capital.

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | Total Imp. | ---Fixed--- | Total Cost | | |
|----------------------|------------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|------------|-------------|------------|------|-------|
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | |
| Bed-Paratill w/ro | 4R-30 | MFWD 225 | 18,700 | 150 | 12 | 0.204 | 3.12 | 5.58 | 1.37 | 1.58 | 11.66 | 2.20 | 9.33 | 23.20 |
| Bed-Paratill w/ro | 4R-38 | MFWD 225 | 18,700 | 150 | 12 | 0.160 | 2.45 | 4.39 | 1.08 | 1.24 | 9.18 | 1.73 | 7.35 | 18.27 |
| Bed-Paratill w/ro | 6R-38 | MFWD 225 | 25,500 | 150 | 12 | 0.107 | 1.64 | 2.93 | 0.99 | 0.83 | 6.40 | 1.58 | 4.91 | 12.90 |
| Bed-Rip/Disk Fold. | 8R-38 | MFWD 190 | 49,200 | 300 | 20 | 0.073 | 1.11 | 1.68 | 0.17 | 0.47 | 3.45 | 0.76 | 2.77 | 6.98 |
| Bed-Rip/Disk Fold. | 12R-30 | MFWD 225 | 69,800 | 300 | 20 | 0.061 | 0.94 | 1.68 | 0.21 | 0.47 | 3.31 | 0.91 | 2.81 | 7.04 |
| Bed-Rip/Disk Fold. | 12R-38 | MFWD 225 | 69,800 | 300 | 20 | 0.046 | 0.70 | 1.26 | 0.16 | 0.35 | 2.48 | 0.68 | 2.11 | 5.28 |
| Bed-Rip/Disk Rigid | 4R-30 | MFWD 190 | 22,600 | 300 | 20 | 0.184 | 2.82 | 4.26 | 0.20 | 1.19 | 8.48 | 0.88 | 7.01 | 16.38 |
| Bed-Rip/Disk Rigid | 4R-38 | MFWD 190 | 22,600 | 300 | 20 | 0.146 | 2.24 | 3.38 | 0.16 | 0.94 | 6.73 | 0.70 | 5.56 | 13.00 |
| Bed-Rip/Disk Rigid | 6R-30 | MFWD 190 | 31,200 | 300 | 20 | 0.123 | 1.88 | 2.84 | 0.19 | 0.79 | 5.71 | 0.81 | 4.67 | 11.20 |
| Bed-Rip/Disk Rigid | 6R-38 | MFWD 190 | 31,200 | 300 | 20 | 0.097 | 1.48 | 2.24 | 0.15 | 0.62 | 4.50 | 0.64 | 3.69 | 8.84 |
| Bed-Rip/Disk Rigid | 8R-30 | MFWD 190 | 41,700 | 300 | 20 | 0.139 | 2.12 | 3.20 | 0.28 | 0.89 | 6.51 | 1.22 | 5.27 | 13.01 |
| Bed-Rip/Disk Rigid | 8R-38 | MFWD 190 | 41,700 | 300 | 20 | 0.073 | 1.11 | 1.68 | 0.15 | 0.47 | 3.42 | 0.64 | 2.77 | 6.84 |
| Bed-Rip/Disk/Cond. | 6-Row | MFWD 225 | 24,800 | 150 | 12 | 0.107 | 1.64 | 2.93 | 0.96 | 0.83 | 6.37 | 1.53 | 4.91 | 12.83 |
| Bed-Rip/Disk/Cond. | 8-Row | MFWD 225 | 33,000 | 150 | 12 | 0.080 | 1.23 | 2.20 | 0.96 | 0.62 | 5.02 | 1.53 | 3.69 | 10.25 |
| Bed-Subsoil Fold | 8R-38 | MFWD 225 | 49,200 | 150 | 12 | 0.080 | 1.23 | 2.20 | 1.43 | 0.62 | 5.50 | 2.29 | 3.69 | 11.48 |
| Bed-Subsoil Fold | 8R-38 2x1 | MFWD 225 | 69,800 | 150 | 12 | 0.053 | 0.82 | 1.46 | 1.35 | 0.41 | 4.06 | 2.16 | 2.45 | 8.68 |
| Bed-Subsoil Fold | 12R-38 | MFWD 225 | 69,800 | 150 | 12 | 0.053 | 0.82 | 1.46 | 1.35 | 0.41 | 4.06 | 2.16 | 2.45 | 8.68 |
| Bed-Subsoil Rigid | 4R-30 | MFWD 225 | 17,500 | 150 | 12 | 0.204 | 3.12 | 5.58 | 1.29 | 1.58 | 11.57 | 2.06 | 9.33 | 22.97 |
| Bed-Subsoil Rigid | 4R-38 | MFWD 225 | 16,800 | 150 | 12 | 0.160 | 2.45 | 4.39 | 0.97 | 1.24 | 9.07 | 1.56 | 7.35 | 17.98 |
| Bed-Subsoil Rigid | 6R-30 | MFWD 225 | 24,300 | 150 | 12 | 0.136 | 2.08 | 3.72 | 1.19 | 1.05 | 8.05 | 1.91 | 6.22 | 16.18 |
| Bed-Subsoil Rigid | 6R-38 | MFWD 225 | 25,300 | 150 | 12 | 0.107 | 1.64 | 2.93 | 0.98 | 0.83 | 6.39 | 1.57 | 4.91 | 12.88 |
| Bed-Subsoil Rigid | 8R-30 | MFWD 225 | 32,500 | 150 | 12 | 0.102 | 1.56 | 2.79 | 1.19 | 0.79 | 6.34 | 1.91 | 4.66 | 12.92 |
| Bed-Subsoil Rigid | 8R-38 | MFWD 225 | 33,600 | 150 | 12 | 0.080 | 1.23 | 2.20 | 0.97 | 0.62 | 5.04 | 1.56 | 3.69 | 10.30 |
| Bed/Disk (Hipper) | 4R-38 | MFWD 150 | 10,500 | 160 | 10 | 0.147 | 2.25 | 2.69 | 0.38 | 0.65 | 5.99 | 0.95 | 3.69 | 10.64 |
| Bed/Disk (Hipper) | 6R-38 | MFWD 170 | 16,200 | 160 | 10 | 0.098 | 1.50 | 2.03 | 0.39 | 0.50 | 4.45 | 0.98 | 2.98 | 8.41 |
| Bed/Disk (Hipper) | 8R-30 | MFWD 190 | 20,800 | 160 | 10 | 0.093 | 1.43 | 2.16 | 0.48 | 0.60 | 4.68 | 1.19 | 3.55 | 9.44 |
| Bed/Disk (Hipper) | 8R-38 2x1 | MFWD 190 | 51,400 | 160 | 10 | 0.049 | 0.75 | 1.13 | 0.63 | 0.31 | 2.84 | 1.55 | 1.87 | 6.27 |
| Bed/Disk (Hipper) | 12R-30 | MFWD 225 | 40,100 | 160 | 10 | 0.062 | 0.95 | 1.70 | 0.62 | 0.48 | 3.77 | 1.53 | 2.85 | 8.16 |
| Bed/Disk (Hipper) | 12R-38 | MFWD 225 | 51,400 | 160 | 10 | 0.049 | 0.75 | 1.34 | 0.63 | 0.38 | 3.11 | 1.55 | 2.25 | 6.93 |
| Bed/Disk (Hipper) | 16R40 | MFWD 300 | 60,800 | 160 | 10 | 0.035 | 0.54 | 1.28 | 0.53 | 0.35 | 2.72 | 1.32 | 2.11 | 6.15 |
| Bed/Disk (Hipper) Fl | 8R-38 | MFWD 190 | 22,000 | 160 | 10 | 0.074 | 1.13 | 1.71 | 0.40 | 0.47 | 3.72 | 1.00 | 2.81 | 7.54 |
| Bed/Disk (Hipper) Rd | 8R-38 | MFWD 190 | 22,700 | 160 | 10 | 0.074 | 1.13 | 1.71 | 0.42 | 0.47 | 3.73 | 1.03 | 2.81 | 7.58 |
| Bed/Disk w/roller | 8R-30 | MFWD 190 | 26,900 | 160 | 10 | 0.093 | 1.43 | 2.16 | 0.63 | 0.60 | 4.82 | 1.54 | 3.55 | 9.93 |
| Bed/Disk w/roller | 8R-38 | MFWD 190 | 30,800 | 160 | 10 | 0.074 | 1.13 | 1.71 | 0.57 | 0.47 | 3.88 | 1.40 | 2.81 | 8.10 |
| Bed/Disk w/roller | 12R-30/40 | MFWD 225 | 50,900 | 160 | 10 | 0.062 | 0.95 | 1.70 | 0.79 | 0.48 | 3.94 | 1.95 | 2.85 | 8.75 |
| Bed/Lister | 4R-38 | MFWD 150 | 18,100 | 160 | 8 | 0.228 | 3.48 | 4.16 | 0.96 | 1.02 | 9.63 | 2.85 | 5.72 | 18.21 |
| Bed/Lister | 6R-38 | MFWD 150 | 20,400 | 160 | 8 | 0.120 | 1.83 | 2.19 | 0.57 | 0.53 | 5.13 | 1.69 | 3.01 | 9.84 |
| Bed/Lister | 8R-30 | MFWD 190 | 24,900 | 160 | 8 | 0.114 | 1.74 | 2.63 | 0.66 | 0.73 | 5.78 | 1.96 | 4.33 | 12.07 |
| Bed/Lister | 8R-38 | MFWD 190 | 25,000 | 160 | 8 | 0.090 | 1.37 | 2.08 | 0.52 | 0.58 | 4.57 | 1.55 | 3.42 | 9.55 |
| Bed/Lister | 8R-38 2x1 | MFWD 190 | 40,400 | 160 | 8 | 0.060 | 0.91 | 1.38 | 0.56 | 0.38 | 3.26 | 1.67 | 2.28 | 7.21 |
| Bed/Lister | 12R-38 | MFWD 225 | 40,400 | 160 | 8 | 0.060 | 0.91 | 1.64 | 0.56 | 0.46 | 3.59 | 1.67 | 2.74 | 8.01 |
| Bed/Lister | 16R-30 | MFWD 225 | 54,700 | 160 | 8 | 0.035 | 0.53 | 0.96 | 0.45 | 0.27 | 2.21 | 1.32 | 1.60 | 5.15 |
| Bed/Lister | 16R40 | MFWD 300 | 56,900 | 160 | 8 | 0.043 | 0.65 | 1.57 | 0.57 | 0.43 | 3.23 | 1.69 | 2.57 | 7.50 |
| Bed/Lister-Roll-Fo | 8R-38 | MFWD 190 | 28,300 | 160 | 10 | 0.095 | 1.46 | 2.21 | 0.67 | 0.61 | 4.97 | 1.66 | 3.64 | 10.28 |
| Bed/Lister-Roll-Fo | 12R-30 | MFWD 225 | 37,800 | 160 | 10 | 0.080 | 1.23 | 2.21 | 0.76 | 0.62 | 4.83 | 1.87 | 3.69 | 10.41 |
| Bed/Lister-Roll-Fo | 12R-38 | MFWD 225 | 38,400 | 160 | 10 | 0.063 | 0.97 | 1.74 | 0.61 | 0.49 | 3.82 | 1.50 | 2.91 | 8.25 |
| Bed/Lister-Roll-Fo | 16R-30 | MFWD 225 | 48,700 | 160 | 10 | 0.060 | 0.92 | 1.65 | 0.73 | 0.47 | 3.79 | 1.81 | 2.77 | 8.37 |
| Bed/Lister-Roll-Ri | 8R-38 | MFWD 190 | 25,000 | 160 | 10 | 0.095 | 1.46 | 2.21 | 0.59 | 0.61 | 4.89 | 1.47 | 3.64 | 10.00 |
| Blade-Box | 6'-7' | MFWD 105 | 1,500 | 200 | 20 | 0.020 | 0.30 | 0.25 | 0.01 | 0.04 | 0.62 | 0.01 | 0.26 | 0.89 |
| Blade-Box | 8'-10' | MFWD 105 | 3,890 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Box | 12'-16' | MFWD 105 | 6,190 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 6'-7' | MFWD 105 | 1,280 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 8'-10' | MFWD 105 | 4,010 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Scraper | 12'-16' | MFWD 105 | 10,790 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Boll Buggy | 4R-38(250) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.93 | 5.94 | 1.96 | 1.65 | 13.51 | 3.70 | 9.78 | 26.99 |
| Boll Buggy | 4R-38(350) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.93 | 5.94 | 1.96 | 1.65 | 13.51 | 3.70 | 9.78 | 26.99 |
| Boll Buggy | 4R2x1(350) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.63 | 3.97 | 1.31 | 1.10 | 9.03 | 2.47 | 6.53 | 18.04 |
| Boll Buggy | 6R-30(355) | MFWD 190 | 30,500 | 200 | 10 | 0.218 | 3.33 | 5.03 | 1.66 | 1.40 | 11.43 | 3.13 | 8.28 | 22.85 |
| Boll Buggy | 6R-38(355) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.63 | 3.97 | 1.31 | 1.10 | 9.03 | 2.47 | 6.53 | 18.04 |
| Chisel Plow-Folding | 24' | MFWD 190 | 45,200 | 150 | 12 | 0.076 | 1.16 | 1.76 | 1.24 | 0.49 | 4.67 | 1.99 | 2.90 | 9.56 |
| Chisel Plow-Folding | 32' | MFWD 225 | 58,400 | 150 | 12 | 0.057 | 0.88 | 1.57 | 1.21 | 0.44 | 4.12 | 1.94 | 2.63 | 8.71 |
| Chisel Plow-Folding | 42' | MFWD 225 | 67,000 | 150 | 12 | 0.044 | 0.67 | 1.20 | 1.06 | 0.34 | 3.28 | 1.70 | 2.01 | 6.99 |
| Chisel Plow-Folding | 50' | MFWD 225 | 88,800 | 150 | 12 | 0.036 | 0.56 | 1.01 | 1.18 | 0.28 | 3.04 | 1.89 | 1.68 | 6.63 |
| Chisel Plow-Folding | 61' | MFWD 225 | 102,400 | 150 | 12 | 0.030 | 0.46 | 0.82 | 1.12 | 0.23 | 2.64 | 1.79 | 1.38 | 5.82 |
| Chisel Plow-Rigid | 10' | MFWD 170 | 7,930 | 150 | 12 | 0.184 | 2.82 | 3.81 | 0.52 | 0.94 | 8.11 | 0.84 | 5.58 | 14.54 |
| Chisel Plow-Rigid | 15' | 2WD 130 | 13,800 | 150 | 12 | 0.123 | 1.88 | 1.94 | 0.61 | 0.45 | 4.89 | 0.98 | 2.53 | 8.41 |
| Chisel Plow-Rigid | 20' | MFWD 225 | 13,400 | 150 | 12 | 0.102 | 1.56 | 2.80 | 0.49 | 0.79 | 5.66 | 0.79 | 4.69 | 11.15 |
| Cultivate | 4R-30 | 2WD 105 | 15,800 | 150 | 10 | 0.206 | 3.14 | 2.63 | 0.86 | 0.48 | 7.13 | 2.13 | 2.69 | 11.96 |
| Cultivate | 4R-38 | 2WD 105 | 16,000 | 150 | 10 | 0.162 | 2.47 | 2.07 | 0.69 | 0.34 | 5.58 | 1.70 | 1.90 | 9.19 |
| Cultivate | 6R-30 | MFWD 150 | 19,700 | 150 | 10 | 0.137 | 2.09 | 2.50 | 0.72 | 0.61 | 5.94 | 1.77 | 3.44 | 11.16 |
| Cultivate | 6R-38 | MFWD 150 | 20,600 | 150 | 10 | 0.108 | 1.65 | 1.97 | 0.59 | 0.48 | 4.71 | 1.46 | 2.71 | 8.90 |
| Cultivate | 8R-30 | MFWD 190 | 25,100 | 150 | 10 | 0.103 | 1.57 | 2.38 | 0.69 | 0.66 | 5.30 | 1.69 | 3.91 | 10.91 |
| Cultivate | 8R-38 | MFWD 190 | 30,200 | 150 | 10 | 0.073 | 1.12 | 1.70 | 0.59 | 0.47 | 3.89 | 1.45 | 2.79 | 8.14 |
| Cultivate | 8R-38 2x1 | MFWD 190 | 46,300 | 150 | 10 | 0.054 | 0.82 | 1.25 | 0.67 | 0.34 | 3.10 | 1.64 | 2.06 | 6.80 |
| Cultivate | 12R-30 | MFWD 225 | 45,300 | 150 | 10 | 0.068 | 1.04 | 1.87 | 0.83 | 0.53 | 4.29 | 2.04 | 3.14 | 9.47 |
| Cultivate | 12R-38 | MFWD 225 | 46,300 | 150 | 10 | 0.054 | 0.82 | 1.48 | 0.67 | 0.42 | 3.40 | 1.64 | 2.48 | 7.53 |
| Cultivate | 16R-30 | MFWD 225 | 65,500 | 150 | 10 | 0.051 | 0.78 | 1.40 | 0.90 | 0.39 | 3.49 | 2.21 | 2.35 | 8.06 |
| Cultivate & Post | 4R-30 | 2WD 105 | 21,100 | 150 | 10 | 0.220 | 4.35 | 2.80 | 1.23 | 0.46 | 8.86 | 3.04 | 2.58 | 14.48 |
| Cultivate & Post | 4R-38 | 2WD 105 | 21,300 | 150 | 10 | 0.173 | 3.42 | 2.20 | 0.98 | 0.36 | 6.98 | 2.41 | 2.03 | 11.44 |

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | | Total Direct | --Fixed-- | | Total Cost |
|----------------------|-----------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|------|--------------|-----------|-------|------------|
| | | | | | | | | | Imp. | P.U. | | Imp. | P.U. | |
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | |
| Cultivate & Post | 6R-30 | MFWD 150 | 25,100 | 150 | 10 | 0.146 | 2.90 | 2.67 | 0.98 | 0.65 | 7.21 | 2.41 | 3.67 | 13.30 |
| Cultivate & Post | 6R-38 | MFWD 150 | 25,900 | 150 | 10 | 0.115 | 2.29 | 2.10 | 0.79 | 0.51 | 5.71 | 1.96 | 2.90 | 10.58 |
| Cultivate & Post | 8R-30 | MFWD 190 | 30,400 | 150 | 10 | 0.110 | 2.17 | 2.53 | 0.89 | 0.70 | 6.31 | 2.19 | 4.17 | 12.68 |
| Cultivate & Post | 8R-38 | MFWD 190 | 35,500 | 150 | 10 | 0.086 | 1.72 | 2.00 | 0.82 | 0.55 | 5.11 | 2.02 | 3.30 | 10.43 |
| Cultivate & Post | 8R-38 2x1 | MFWD 190 | 51,600 | 150 | 10 | 0.057 | 1.14 | 1.33 | 0.79 | 0.37 | 3.65 | 1.95 | 2.19 | 7.80 |
| Cultivate & Post | 12R-30 | MFWD 225 | 50,600 | 150 | 10 | 0.073 | 1.45 | 2.00 | 0.98 | 0.56 | 5.01 | 2.43 | 3.35 | 10.79 |
| Cultivate & Post | 12R-38 | MFWD 225 | 51,600 | 150 | 10 | 0.057 | 1.14 | 1.58 | 0.79 | 0.44 | 3.97 | 1.95 | 2.64 | 8.57 |
| Cultivate & Post | 16R-30 | MFWD 225 | 70,800 | 150 | 10 | 0.055 | 1.08 | 1.50 | 1.03 | 0.42 | 4.05 | 2.55 | 2.51 | 9.12 |
| Disk & Incorporate | 14' | 2WD 130 | 32,200 | 200 | 10 | 0.149 | 2.96 | 2.36 | 1.44 | 0.54 | 7.32 | 2.36 | 3.07 | 12.76 |
| Disk & Incorporate | 20' | MFWD 190 | 79,300 | 200 | 10 | 0.092 | 1.83 | 2.13 | 2.19 | 0.59 | 6.75 | 3.60 | 3.50 | 13.86 |
| Disk & Incorporate | 24' | MFWD 190 | 52,200 | 200 | 10 | 0.087 | 1.72 | 2.01 | 1.36 | 0.56 | 5.67 | 2.23 | 3.31 | 11.22 |
| Disk & Incorporate | 28' | MFWD 225 | 62,300 | 200 | 10 | 0.074 | 1.48 | 2.04 | 1.39 | 0.57 | 5.50 | 2.29 | 3.41 | 11.21 |
| Disk & Incorporate | 32' | MFWD 225 | 67,900 | 200 | 10 | 0.065 | 1.29 | 1.78 | 1.33 | 0.50 | 4.92 | 2.18 | 2.99 | 10.10 |
| Disk Harrow | 14' | 2WD 130 | 26,900 | 180 | 10 | 0.140 | 2.14 | 2.21 | 1.04 | 0.51 | 5.92 | 2.06 | 2.88 | 10.86 |
| Disk Harrow | 20' | MFWD 190 | 47,100 | 180 | 10 | 0.098 | 1.49 | 2.26 | 1.28 | 0.63 | 5.68 | 2.52 | 3.72 | 11.93 |
| Disk Harrow | 24' | MFWD 190 | 46,900 | 180 | 10 | 0.081 | 1.24 | 1.88 | 1.06 | 0.52 | 4.73 | 2.09 | 3.10 | 9.93 |
| Disk Harrow | 28' | MFWD 225 | 56,900 | 180 | 10 | 0.070 | 1.07 | 1.91 | 1.10 | 0.54 | 4.64 | 2.17 | 3.20 | 10.02 |
| Disk Harrow | 32' | MFWD 225 | 62,600 | 180 | 10 | 0.061 | 0.93 | 1.67 | 1.06 | 0.47 | 4.15 | 2.09 | 2.80 | 9.06 |
| Disk Harrow | 42' | MFWD 225 | 110,100 | 180 | 10 | 0.046 | 0.71 | 1.27 | 1.43 | 0.36 | 3.78 | 2.81 | 2.13 | 8.73 |
| Disk Harrow 40-100hp | 14' | 2WD 75 | 16,700 | 180 | 10 | 0.140 | 2.14 | 1.27 | 0.65 | 0.18 | 4.26 | 1.27 | 1.05 | 6.59 |
| Disk Heavy | 14' | MFWD 150 | 26,900 | 180 | 10 | 0.145 | 2.22 | 2.65 | 1.09 | 0.65 | 6.63 | 2.14 | 3.65 | 12.43 |
| Disk Heavy | 20' | MFWD 190 | 73,900 | 180 | 10 | 0.097 | 1.48 | 2.24 | 1.99 | 0.62 | 6.35 | 3.92 | 3.69 | 13.97 |
| Disk Heavy | 28' | MFWD 225 | 56,900 | 180 | 10 | 0.075 | 1.15 | 2.06 | 1.19 | 0.58 | 5.00 | 2.35 | 3.45 | 10.81 |
| Disk Ripper | 15' | MFWD 225 | 50,800 | 180 | 10 | 0.136 | 2.08 | 3.72 | 1.92 | 1.05 | 8.78 | 3.77 | 6.22 | 18.78 |
| Ditcher | | 2WD 130 | 6,480 | 200 | 10 | 0.020 | 0.30 | 0.31 | 0.05 | 0.07 | 0.74 | 0.06 | 0.41 | 1.22 |
| Ditcher (1m/160a) | | 2WD 130 | 6,480 | 200 | 10 | 0.009 | 0.14 | 0.14 | 0.02 | 0.03 | 0.34 | 0.02 | 0.19 | 0.57 |
| Fert Appl (Liquid) | 4R-38 | MFWD 150 | 19,000 | 150 | 8 | 0.154 | 3.06 | 2.81 | 1.95 | 0.69 | 8.53 | 2.05 | 3.87 | 14.46 |
| Fert Appl (Liquid) | 6R-30 | MFWD 170 | 19,800 | 150 | 8 | 0.130 | 2.59 | 2.70 | 1.72 | 0.67 | 7.69 | 1.81 | 3.95 | 13.47 |
| Fert Appl (Liquid) | 6R-38 | MFWD 170 | 19,800 | 150 | 8 | 0.103 | 2.04 | 2.13 | 1.36 | 0.52 | 6.07 | 1.43 | 3.12 | 10.63 |
| Fert Appl (Liquid) | 8R-30 | MFWD 190 | 20,100 | 150 | 8 | 0.098 | 1.94 | 2.26 | 1.31 | 0.63 | 6.15 | 1.38 | 3.72 | 11.27 |
| Fert Appl (Liquid) | 8R-38 | MFWD 190 | 22,600 | 150 | 8 | 0.077 | 1.53 | 1.79 | 1.16 | 0.49 | 4.99 | 1.22 | 2.94 | 9.17 |
| Fert Appl (Liquid) | 8R-38 2x1 | MFWD 190 | 25,200 | 150 | 8 | 0.051 | 1.02 | 1.19 | 0.86 | 0.33 | 3.41 | 0.91 | 1.96 | 6.29 |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 25,900 | 150 | 8 | 0.078 | 1.55 | 2.14 | 1.35 | 0.60 | 5.66 | 1.42 | 3.58 | 10.68 |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 23,700 | 150 | 8 | 0.051 | 1.02 | 1.41 | 0.81 | 0.40 | 3.65 | 0.85 | 2.36 | 6.87 |
| Field Cult & Inc | 42' | MFWD 225 | 70,900 | 100 | 10 | 0.037 | 0.74 | 1.03 | 0.66 | 0.29 | 2.74 | 2.63 | 1.72 | 7.10 |
| Field Cult & Inc | 50' | MFWD 225 | 76,700 | 100 | 10 | 0.031 | 0.62 | 0.86 | 0.60 | 0.24 | 2.34 | 2.39 | 1.44 | 6.19 |
| Field Cult & Inc Fld | 24' | MFWD 170 | 37,200 | 100 | 10 | 0.066 | 1.30 | 1.36 | 0.61 | 0.33 | 3.62 | 2.41 | 1.99 | 8.04 |
| Field Cult & Inc Fld | 32' | MFWD 190 | 49,800 | 100 | 10 | 0.049 | 0.98 | 1.14 | 0.61 | 0.31 | 3.06 | 2.42 | 1.88 | 7.37 |
| Field Cult & Inc Rdg | 12' | 2WD 150 | 18,200 | 100 | 10 | 0.132 | 2.61 | 2.40 | 0.60 | 0.47 | 6.10 | 2.36 | 2.68 | 11.16 |
| Field Cultivate Fld | 24' | MFWD 170 | 31,800 | 100 | 10 | 0.062 | 0.95 | 1.28 | 0.49 | 0.31 | 3.04 | 1.94 | 1.87 | 6.87 |
| Field Cultivate Fld | 32' | MFWD 190 | 44,400 | 100 | 10 | 0.046 | 0.71 | 1.07 | 0.51 | 0.30 | 2.60 | 2.03 | 1.77 | 6.41 |
| Field Cultivate Fld | 42' | MFWD 225 | 60,600 | 100 | 10 | 0.035 | 0.54 | 0.97 | 0.53 | 0.27 | 2.32 | 2.11 | 1.62 | 6.07 |
| Field Cultivate Fld | 50' | MFWD 225 | 67,600 | 100 | 10 | 0.029 | 0.45 | 0.81 | 0.50 | 0.23 | 2.00 | 1.98 | 1.36 | 5.35 |
| Field Cultivate Rdg | 12' | 2WD 150 | 12,900 | 100 | 10 | 0.124 | 1.90 | 2.26 | 0.40 | 0.45 | 5.02 | 1.57 | 2.53 | 9.12 |
| Grain Cart Corn | 500 bu | MFWD 190 | 29,100 | 200 | 12 | 0.025 | 0.38 | 0.58 | 0.19 | 0.16 | 1.33 | 0.31 | 0.96 | 2.61 |
| Grain Cart Corn | 700 bu | MFWD 190 | 44,900 | 200 | 12 | 0.025 | 0.38 | 0.58 | 0.30 | 0.16 | 1.44 | 0.49 | 0.96 | 2.89 |
| Grain Cart Corn | 1000 bu | MFWD 225 | 59,400 | 200 | 12 | 0.025 | 0.38 | 0.69 | 0.40 | 0.19 | 1.68 | 0.65 | 1.15 | 3.48 |
| Grain Cart Rice | 500 bu | MFWD 190 | 29,100 | 200 | 12 | 0.062 | 0.95 | 1.44 | 0.49 | 0.40 | 3.29 | 0.78 | 2.37 | 6.45 |
| Grain Cart Rice | 700 bu | MFWD 190 | 44,900 | 200 | 12 | 0.055 | 0.83 | 1.26 | 0.66 | 0.35 | 3.13 | 1.06 | 2.08 | 6.28 |
| Grain Cart Rice | 1000 bu | MFWD 190 | 59,400 | 200 | 12 | 0.045 | 0.69 | 1.05 | 0.73 | 0.29 | 2.79 | 1.17 | 1.73 | 5.70 |
| Grain Cart Soybean | 500 bu | MFWD 190 | 29,100 | 200 | 12 | 0.025 | 0.38 | 0.58 | 0.20 | 0.16 | 1.34 | 0.32 | 0.96 | 2.63 |
| Grain Cart Soybean | 700 bu | MFWD 190 | 44,900 | 200 | 12 | 0.021 | 0.32 | 0.49 | 0.25 | 0.13 | 1.21 | 0.41 | 0.80 | 2.42 |
| Grain Cart Soybean | 1000 bu | MFWD 190 | 59,400 | 200 | 12 | 0.021 | 0.32 | 0.49 | 0.34 | 0.13 | 1.29 | 0.54 | 0.80 | 2.64 |
| Grain Cart Wht/Sor | 500 bu | MFWD 190 | 29,100 | 200 | 12 | 0.025 | 0.38 | 0.58 | 0.20 | 0.16 | 1.34 | 0.32 | 0.96 | 2.63 |
| Grain Cart Wht/Sor | 700 bu | MFWD 190 | 44,900 | 200 | 12 | 0.021 | 0.32 | 0.49 | 0.25 | 0.13 | 1.21 | 0.41 | 0.80 | 2.42 |
| Grain Cart Wht/Sor | 1000 bu | MFWD 190 | 59,400 | 200 | 12 | 0.021 | 0.32 | 0.49 | 0.34 | 0.13 | 1.29 | 0.54 | 0.80 | 2.64 |
| Grain Drill | 10' | 2WD 130 | 28,700 | 150 | 8 | 0.188 | 4.58 | 2.97 | 2.02 | 0.69 | 10.28 | 3.59 | 3.87 | 17.76 |
| Grain Drill | 12' | 2WD 130 | 28,200 | 150 | 8 | 0.157 | 3.82 | 2.48 | 1.66 | 0.57 | 8.54 | 2.94 | 3.23 | 14.72 |
| Grain Drill | 15' | MFWD 150 | 34,400 | 150 | 8 | 0.125 | 3.05 | 2.29 | 1.62 | 0.56 | 7.53 | 2.87 | 3.14 | 13.55 |
| Grain Drill | 20' | MFWD 170 | 41,900 | 150 | 8 | 0.094 | 2.29 | 1.94 | 1.48 | 0.48 | 6.20 | 2.62 | 2.84 | 11.68 |
| Grain Drill | 24' | MFWD 190 | 67,300 | 150 | 8 | 0.078 | 1.91 | 1.81 | 1.98 | 0.50 | 6.21 | 3.51 | 2.98 | 12.70 |
| Grain Drill | 30' | MFWD 225 | 68,900 | 150 | 8 | 0.062 | 1.52 | 1.71 | 1.62 | 0.48 | 5.35 | 2.87 | 2.87 | 11.10 |
| Grain Drill | 35' | MFWD 225 | 93,600 | 150 | 8 | 0.053 | 1.31 | 1.47 | 1.89 | 0.41 | 5.09 | 3.35 | 2.46 | 10.90 |
| Grain Drill & Pre | 10' | 2WD 130 | 34,000 | 150 | 8 | 0.203 | 4.94 | 3.20 | 2.58 | 0.74 | 11.48 | 4.58 | 4.17 | 20.24 |
| Grain Drill & Pre | 12' | 2WD 130 | 33,500 | 150 | 8 | 0.169 | 4.11 | 2.67 | 2.12 | 0.62 | 9.53 | 3.76 | 3.48 | 16.78 |
| Grain Drill & Pre | 15' | MFWD 150 | 39,800 | 150 | 8 | 0.135 | 3.29 | 2.46 | 2.02 | 0.60 | 8.38 | 3.58 | 3.39 | 15.35 |
| Grain Drill & Pre | 20' | MFWD 170 | 47,200 | 150 | 8 | 0.101 | 2.47 | 2.09 | 1.79 | 0.52 | 6.88 | 3.18 | 3.06 | 13.13 |
| Grain Drill & Pre | 24' | MFWD 190 | 72,600 | 150 | 8 | 0.084 | 2.05 | 1.95 | 2.30 | 0.54 | 6.86 | 4.08 | 3.21 | 14.15 |
| Grain Drill & Pre | 30' | MFWD 225 | 74,200 | 150 | 8 | 0.067 | 1.64 | 1.85 | 1.88 | 0.52 | 5.90 | 3.33 | 3.09 | 12.33 |
| Grain Drill & Pre | 35' | MFWD 225 | 104,000 | 150 | 8 | 0.058 | 1.41 | 1.58 | 2.26 | 0.44 | 5.70 | 4.01 | 2.65 | 12.37 |
| Grain Drill & Pre T | 8R-38 | MFWD 225 | 57,000 | 150 | 8 | 0.062 | 1.52 | 1.71 | 1.34 | 0.48 | 5.07 | 2.38 | 2.87 | 10.33 |
| Harrow - Folding | 24' | MFWD 190 | 13,800 | 200 | 10 | 0.064 | 0.98 | 1.49 | 0.31 | 0.41 | 3.21 | 0.43 | 2.45 | 6.10 |
| Harrow - Folding | 30' | MFWD 190 | 15,300 | 200 | 10 | 0.051 | 0.79 | 1.19 | 0.27 | 0.33 | 2.59 | 0.38 | 1.96 | 4.94 |
| Harrow - Folding | 40' | MFWD 190 | 21,300 | 200 | 10 | 0.038 | 0.59 | 0.89 | 0.28 | 0.24 | 2.02 | 0.40 | 1.47 | 3.90 |
| Harrow - Folding | 48' | MFWD 225 | 26,000 | 200 | 10 | 0.032 | 0.49 | 0.88 | 0.29 | 0.25 | 1.92 | 0.41 | 1.47 | 3.81 |
| Header - Corn | 6R-30 | 265 hp | 54,200 | 300 | 8 | 0.170 | 2.60 | 5.48 | 2.30 | 6.93 | 17.32 | 3.23 | 25.73 | 46.29 |
| Header - Corn | 6R-38 | 265 hp | 53,800 | 300 | 8 | 0.134 | 2.05 | 4.32 | 1.80 | 5.47 | 13.66 | 2.53 | 20.31 | 36.51 |
| Header - Corn | 8R-30 | 265 hp | 71,200 | 300 | 8 | 0.127 | 1.95 | 4.11 | 2.27 | 5.20 | 13.53 | 3.18 | 19.30 | 36.02 |

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | Total Imp. P.U. Direct | --Fixed-- Imp. P.U. | Total Cost | |
|----------------------|-------------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|------------------------|---------------------|------------|-------|
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | |
| Header - Corn | 8R-38 | 325 hp | 72,200 | 300 | 8 | 0.100 | 1.54 | 3.98 | 1.82 | 4.35 | 11.70 | 2.55 16.14 | 30.40 |
| Header - Corn | 12R-20 | 325 hp | 105,000 | 300 | 8 | 0.127 | 1.95 | 5.04 | 3.35 | 5.50 | 15.84 | 4.69 20.42 | 40.97 |
| Header - Corn | 12R-30 | 325 hp | 118,000 | 300 | 8 | 0.085 | 1.30 | 3.36 | 2.51 | 3.66 | 10.84 | 3.52 13.61 | 27.97 |
| Header - Draper (CL) | 25' Rigid | 265 hp | 74,100 | 300 | 8 | 0.203 | 3.10 | 6.53 | 3.44 | 8.27 | 21.35 | 5.00 30.69 | 57.05 |
| Header - Draper (CL) | 30' Rigid | 325 hp | 78,600 | 300 | 8 | 0.169 | 2.58 | 6.68 | 3.04 | 7.29 | 19.60 | 4.42 27.06 | 51.09 |
| Header - Draper (CL) | 36' Rigid | 355 hp | 82,300 | 300 | 8 | 0.141 | 2.15 | 6.08 | 2.65 | 6.43 | 17.32 | 3.85 23.87 | 45.05 |
| Header - Draper (CL) | 40' Rigid | 425 hp | 86,900 | 300 | 8 | 0.126 | 1.93 | 6.55 | 2.52 | 6.27 | 17.29 | 3.66 23.29 | 44.25 |
| Header - Draper (SL) | 25' Rigid | 325 hp | 74,100 | 300 | 8 | 0.176 | 2.68 | 6.94 | 2.98 | 7.58 | 20.20 | 4.33 28.14 | 52.68 |
| Header - Draper (SL) | 30' Rigid | 325 hp | 78,600 | 300 | 8 | 0.146 | 2.23 | 5.79 | 2.64 | 6.32 | 16.99 | 3.83 23.45 | 44.27 |
| Header - Draper (SL) | 36' Rigid | 355 hp | 82,300 | 300 | 8 | 0.122 | 1.86 | 5.26 | 2.30 | 5.57 | 15.01 | 3.34 20.68 | 39.04 |
| Header - Draper (SL) | 40' Rigid | 425 hp | 86,900 | 300 | 8 | 0.110 | 1.67 | 5.67 | 2.19 | 5.44 | 14.98 | 3.17 20.18 | 38.35 |
| Header -RiceStrp(CL) | 20' | 265 hp | 50,600 | 300 | 8 | 0.253 | 3.87 | 8.17 | 3.21 | 10.33 | 25.59 | 4.50 38.36 | 68.46 |
| Header -RiceStrp(CL) | 24' | 325 hp | 54,000 | 300 | 8 | 0.211 | 3.23 | 8.35 | 2.85 | 9.11 | 23.55 | 4.00 33.82 | 61.38 |
| Header -RiceStrp(CL) | 32' | 325 hp | 60,800 | 300 | 8 | 0.158 | 2.42 | 6.26 | 2.41 | 6.83 | 17.93 | 3.37 25.37 | 46.68 |
| Header -RiceStrp(SL) | 20' | 265 hp | 50,600 | 300 | 8 | 0.220 | 3.35 | 7.08 | 2.78 | 8.96 | 22.18 | 3.90 33.25 | 59.33 |
| Header -RiceStrp(SL) | 24' | 325 hp | 54,000 | 300 | 8 | 0.183 | 2.79 | 7.23 | 2.47 | 7.90 | 20.41 | 3.46 29.31 | 53.20 |
| Header -RiceStrp(SL) | 32' | 325 hp | 60,800 | 300 | 8 | 0.137 | 2.09 | 5.42 | 2.09 | 5.92 | 15.54 | 2.92 21.98 | 40.46 |
| Header -Soybean | 22' Flex | 265 hp | 33,800 | 300 | 8 | 0.116 | 1.77 | 3.73 | 0.98 | 4.72 | 11.21 | 1.37 17.54 | 30.14 |
| Header -Soybean | 25' Flex | 325 hp | 37,000 | 300 | 8 | 0.102 | 1.56 | 4.03 | 0.94 | 4.40 | 10.94 | 1.32 16.33 | 28.60 |
| Header -Soybean | 30' Flex | 325 hp | 44,700 | 300 | 8 | 0.085 | 1.30 | 3.36 | 0.95 | 3.66 | 9.28 | 1.33 13.61 | 24.23 |
| Header -Soybean | 35' Flex | 355 hp | 52,200 | 300 | 8 | 0.072 | 1.11 | 3.14 | 0.95 | 3.32 | 8.54 | 1.33 12.35 | 22.23 |
| Header Wheat/Sorghum | 22' Rigid | 265 hp | 19,800 | 300 | 8 | 0.116 | 1.77 | 3.73 | 0.57 | 4.72 | 10.81 | 0.80 17.54 | 29.16 |
| Header Wheat/Sorghum | 25' Rigid | 325 hp | 25,400 | 300 | 8 | 0.102 | 1.56 | 4.03 | 0.64 | 4.40 | 10.64 | 0.90 16.33 | 27.89 |
| Header Wheat/Sorghum | 30' Rigid | 325 hp | 29,100 | 300 | 8 | 0.085 | 1.30 | 3.36 | 0.61 | 3.66 | 8.95 | 0.86 13.61 | 23.43 |
| Land Plane | 50'x16' | MFWD 190 | 11,100 | 200 | 10 | 0.151 | 2.31 | 3.50 | 0.33 | 0.97 | 7.12 | 0.82 5.75 | 13.71 |
| Levee Pull & Seed | 8 Blade | MFWD 170 | 12,000 | 100 | 10 | 0.003 | 0.05 | 0.07 | 0.00 | 0.01 | 0.15 | 0.04 0.10 | 0.30 |
| Levee Pull (1m/80a) | 8 blade | MFWD 170 | 8,760 | 100 | 10 | 0.003 | 0.05 | 0.07 | 0.00 | 0.01 | 0.15 | 0.03 0.10 | 0.29 |
| Levee Splitter (1/80 | 32" | MFWD 150 | 3,860 | 100 | 10 | 0.004 | 0.06 | 0.07 | 0.00 | 0.01 | 0.16 | 0.01 0.10 | 0.28 |
| Module Builder | 4R-38 (250) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 6.27 | 5.94 | 2.23 | 1.65 | 16.11 | 4.21 9.78 | 30.11 |
| Module Builder | 4R-38 (350) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 6.27 | 5.94 | 2.23 | 1.65 | 16.11 | 4.21 9.78 | 30.11 |
| Module Builder | 4R2x1 (350) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 4.19 | 3.97 | 1.49 | 1.10 | 10.77 | 2.81 6.53 | 20.12 |
| Module Builder | 6R-30 (355) | MFWD 190 | 34,700 | 200 | 10 | 0.218 | 5.31 | 5.03 | 1.89 | 1.40 | 13.64 | 3.56 8.28 | 25.49 |
| Module Builder | 6R-38 (355) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 4.19 | 3.97 | 1.49 | 1.10 | 10.77 | 2.81 6.53 | 20.12 |
| NT Grain Drill | 10' | 2WD 130 | 34,900 | 150 | 8 | 0.235 | 5.73 | 3.72 | 3.08 | 0.86 | 13.40 | 5.46 4.84 | 23.72 |
| NT Grain Drill | 12' | 2WD 130 | 46,900 | 150 | 8 | 0.163 | 3.98 | 2.58 | 2.87 | 0.60 | 10.04 | 5.10 3.36 | 18.51 |
| NT Grain Drill | 15' | MFWD 150 | 56,900 | 150 | 8 | 0.130 | 3.18 | 2.38 | 2.79 | 0.58 | 8.95 | 4.95 3.28 | 17.18 |
| NT Grain Drill | 20' | MFWD 170 | 68,700 | 150 | 8 | 0.098 | 2.38 | 2.02 | 2.53 | 0.50 | 7.45 | 4.48 2.96 | 14.90 |
| NT Grain Drill | 24' | MFWD 190 | 98,000 | 150 | 8 | 0.081 | 1.99 | 1.88 | 3.00 | 0.52 | 7.41 | 5.33 3.10 | 15.85 |
| NT Grain Drill | 30' | MFWD 225 | 104,300 | 150 | 8 | 0.065 | 1.59 | 1.78 | 2.56 | 0.50 | 6.45 | 4.53 2.99 | 13.98 |
| NT Grain Drill & Pre | 10' | 2WD 130 | 40,200 | 150 | 8 | 0.211 | 5.14 | 3.34 | 3.18 | 0.77 | 12.45 | 5.65 4.35 | 22.45 |
| NT Grain Drill & Pre | 12' | 2WD 130 | 52,300 | 150 | 8 | 0.176 | 4.28 | 2.78 | 3.45 | 0.64 | 11.17 | 6.12 3.62 | 20.92 |
| NT Grain Drill & Pre | 15' | MFWD 150 | 62,200 | 150 | 8 | 0.141 | 3.43 | 2.56 | 3.28 | 0.63 | 9.92 | 5.82 3.53 | 19.28 |
| NT Grain Drill & Pre | 20' | MFWD 170 | 74,000 | 150 | 8 | 0.105 | 2.57 | 2.18 | 2.93 | 0.54 | 8.23 | 5.20 3.19 | 16.63 |
| NT Grain Drill & Pre | 24' | MFWD 190 | 103,000 | 150 | 8 | 0.088 | 2.14 | 2.03 | 3.40 | 0.56 | 8.15 | 6.03 3.34 | 17.52 |
| NT Grain Drill & Pre | 30' | MFWD 225 | 110,000 | 150 | 8 | 0.070 | 1.71 | 1.92 | 2.90 | 0.54 | 7.09 | 5.15 3.22 | 15.47 |
| NT Plant&Pre-Folding | 8R-38 | MFWD 170 | 67,800 | 150 | 8 | 0.083 | 2.03 | 1.72 | 2.12 | 0.42 | 6.31 | 3.76 2.52 | 12.60 |
| NT Plant&Pre-Folding | 8R-38 2x1 | MFWD 170 | 107,000 | 150 | 8 | 0.055 | 1.35 | 1.14 | 2.23 | 0.28 | 5.02 | 3.95 1.68 | 10.66 |
| NT Plant&Pre-Folding | 12R-20 | MFWD 190 | 82,800 | 150 | 8 | 0.105 | 2.57 | 2.44 | 3.28 | 0.68 | 8.97 | 5.82 4.01 | 18.81 |
| NT Plant&Pre-Folding | 12R-30 | MFWD 190 | 94,600 | 150 | 8 | 0.070 | 1.71 | 1.62 | 2.50 | 0.45 | 6.29 | 4.43 2.67 | 13.40 |
| NT Plant&Pre-Folding | 12R-38 | MFWD 190 | 107,000 | 150 | 8 | 0.055 | 1.35 | 1.28 | 2.23 | 0.35 | 5.23 | 3.95 2.11 | 11.30 |
| NT Plant&Pre-Folding | 16R-30 | MFWD 190 | 142,000 | 150 | 8 | 0.052 | 1.28 | 1.22 | 2.81 | 0.34 | 5.66 | 4.99 2.00 | 12.66 |
| NT Plant&Pre-Folding | 23R-15 | MFWD 190 | 192,000 | 150 | 8 | 0.073 | 1.78 | 1.69 | 5.28 | 0.47 | 9.24 | 9.37 2.78 | 21.40 |
| NT Plant&Pre-Folding | 24R-20 | MFWD 190 | 214,000 | 150 | 8 | 0.052 | 1.28 | 1.22 | 4.24 | 0.34 | 7.09 | 7.52 2.00 | 16.61 |
| NT Plant&Pre-Folding | 24R-30 | MFWD 190 | 223,000 | 150 | 8 | 0.035 | 0.85 | 0.81 | 2.94 | 0.22 | 4.84 | 5.22 1.33 | 11.41 |
| NT Plant&Pre-Folding | 31R-15 | MFWD 225 | 232,000 | 150 | 8 | 0.054 | 1.32 | 1.49 | 4.75 | 0.42 | 8.00 | 8.42 2.49 | 18.92 |
| NT Plant&Pre-Folding | 32R-15 | MFWD 225 | 230,000 | 150 | 8 | 0.052 | 1.28 | 1.44 | 4.56 | 0.40 | 7.70 | 8.08 2.41 | 18.20 |
| NT Plant&Pre-Rigid | 4R-30 | 2WD 130 | 33,800 | 150 | 8 | 0.211 | 5.14 | 3.34 | 2.68 | 0.77 | 11.94 | 4.75 4.35 | 21.04 |
| NT Plant&Pre-Rigid | 4R-38 | 2WD 130 | 34,800 | 150 | 8 | 0.166 | 4.05 | 2.63 | 2.17 | 0.61 | 9.46 | 3.85 3.42 | 16.74 |
| NT Plant&Pre-Rigid | 6R-30 | MFWD 150 | 43,600 | 150 | 8 | 0.141 | 3.43 | 2.56 | 2.30 | 0.63 | 8.93 | 4.08 3.53 | 16.55 |
| NT Plant&Pre-Rigid | 6R-38 | MFWD 150 | 42,700 | 150 | 8 | 0.111 | 2.70 | 2.02 | 1.78 | 0.49 | 7.01 | 3.15 2.78 | 12.96 |
| NT Plant&Pre-Rigid | 8R-30 | MFWD 170 | 54,200 | 150 | 8 | 0.105 | 2.57 | 2.18 | 2.14 | 0.54 | 7.44 | 3.80 3.19 | 14.45 |
| NT Plant&Pre-Rigid | 8R-38 | MFWD 170 | 52,100 | 150 | 8 | 0.083 | 2.03 | 1.72 | 1.63 | 0.42 | 5.82 | 2.89 2.52 | 11.24 |
| NT Plant&Pre-Rigid | 11R-15 | MFWD 170 | 65,100 | 150 | 8 | 0.143 | 3.50 | 2.97 | 3.51 | 0.73 | 10.72 | 6.22 4.34 | 21.29 |
| NT Plant&Pre-Rigid | 11R-20 | MFWD 170 | 64,300 | 150 | 8 | 0.115 | 2.81 | 2.38 | 2.78 | 0.59 | 8.57 | 4.93 3.49 | 17.01 |
| NT Plant&Pre-Rigid | 12R-20 | MFWD 190 | 66,600 | 150 | 8 | 0.105 | 2.57 | 2.44 | 2.64 | 0.68 | 8.33 | 4.68 4.01 | 17.03 |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 190 | 86,500 | 150 | 8 | 0.070 | 1.71 | 1.62 | 2.28 | 0.45 | 6.08 | 4.05 2.67 | 12.81 |
| NT Plant&Pre-Rigid | 15R-15 | MFWD 190 | 87,300 | 150 | 8 | 0.113 | 2.75 | 2.61 | 3.70 | 0.72 | 9.79 | 6.56 4.29 | 20.65 |
| NT Plant&Pre-TwinRow | 12R-30/40 | MFWD 225 | 173,000 | 150 | 8 | 0.055 | 1.35 | 1.52 | 3.61 | 0.43 | 6.91 | 6.40 2.54 | 15.86 |
| NT Plant&Pre-TwinRow | 8R-30/40 | MFWD 225 | 134,900 | 150 | 8 | 0.083 | 2.03 | 2.28 | 4.22 | 0.64 | 9.19 | 7.49 3.82 | 20.51 |
| NT Plant-Folding | 8R-38 | MFWD 170 | 62,500 | 150 | 8 | 0.077 | 1.88 | 1.60 | 1.81 | 0.39 | 5.70 | 3.22 2.34 | 11.28 |
| NT Plant-Folding | 8R-38 2x1 | MFWD 170 | 96,300 | 150 | 8 | 0.051 | 1.25 | 1.06 | 1.86 | 0.26 | 4.45 | 3.30 1.56 | 9.32 |
| NT Plant-Folding | 12R-20 | MFWD 190 | 77,500 | 150 | 8 | 0.098 | 2.38 | 2.26 | 2.85 | 0.63 | 8.14 | 5.05 3.72 | 16.92 |
| NT Plant-Folding | 12R-30 | MFWD 190 | 84,300 | 150 | 8 | 0.065 | 1.59 | 1.51 | 2.06 | 0.42 | 5.59 | 3.66 2.48 | 11.74 |
| NT Plant-Folding | 12R-38 | MFWD 190 | 96,300 | 150 | 8 | 0.051 | 1.25 | 1.19 | 1.86 | 0.33 | 4.65 | 3.30 1.96 | 9.92 |
| NT Plant-Folding | 16R-30 | MFWD 190 | 132,000 | 150 | 8 | 0.049 | 1.19 | 1.13 | 2.43 | 0.31 | 5.07 | 4.30 1.86 | 11.24 |
| NT Plant-Folding | 23R-15 | MFWD 190 | 182,000 | 150 | 8 | 0.068 | 1.65 | 1.57 | 4.65 | 0.43 | 8.32 | 8.24 2.58 | 19.16 |
| NT Plant-Folding | 24R-20 | MFWD 190 | 204,000 | 150 | 8 | 0.049 | 1.19 | 1.13 | 3.75 | 0.31 | 6.40 | 6.65 1.86 | 14.92 |
| NT Plant-Folding | 24R-30 | MFWD 190 | 208,000 | 150 | 8 | 0.032 | 0.79 | 0.75 | 2.55 | 0.21 | 4.31 | 4.52 1.24 | 10.08 |
| NT Plant-Folding | 31R-15 | MFWD 225 | 222,000 | 150 | 8 | 0.050 | 1.23 | 1.38 | 4.22 | 0.39 | 7.24 | 7.48 2.31 | 17.05 |

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | | Total Direct | --Fixed-- | | Total Cost |
|-----------------------|-----------|------------|----------------|------------|-------------|-----------|-------------------|-------|-----------|------|--------------|-----------|-------|------------|
| | | | | | | | | | Imp. | P.U. | | Imp. | P.U. | |
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | |
| NT Plant-Folding | 32R-15 | MFWD 225 | 219,000 | 150 | 8 | 0.049 | 1.19 | 1.34 | 4.03 | 0.38 | 6.95 | 7.14 | 2.24 | 16.34 |
| NT Plant-Rigid | 4R-30 | 2WD 130 | 28,400 | 150 | 8 | 0.196 | 4.77 | 3.10 | 2.09 | 0.72 | 10.69 | 3.70 | 4.04 | 18.44 |
| NT Plant-Rigid | 4R-38 | 2WD 130 | 29,500 | 150 | 8 | 0.154 | 3.76 | 2.44 | 1.71 | 0.56 | 8.48 | 3.03 | 3.18 | 14.69 |
| NT Plant-Rigid | 6R-30 | MFWD 150 | 38,300 | 150 | 8 | 0.130 | 3.18 | 2.38 | 1.88 | 0.58 | 8.03 | 3.33 | 3.28 | 14.65 |
| NT Plant-Rigid | 6R-38 | MFWD 150 | 37,300 | 150 | 8 | 0.103 | 2.51 | 1.88 | 1.44 | 0.46 | 6.30 | 2.56 | 2.58 | 11.45 |
| NT Plant-Rigid | 8R-30 | MFWD 170 | 48,900 | 150 | 8 | 0.098 | 2.38 | 2.02 | 1.80 | 0.50 | 6.72 | 3.19 | 2.96 | 12.88 |
| NT Plant-Rigid | 8R-38 | MFWD 170 | 46,800 | 150 | 8 | 0.077 | 1.88 | 1.60 | 1.36 | 0.39 | 5.25 | 2.41 | 2.34 | 10.01 |
| NT Plant-Rigid | 11R-15 | MFWD 170 | 59,700 | 150 | 8 | 0.133 | 3.25 | 2.75 | 2.99 | 0.68 | 9.68 | 5.30 | 4.03 | 19.02 |
| NT Plant-Rigid | 11R-20 | MFWD 170 | 59,000 | 150 | 8 | 0.107 | 2.61 | 2.21 | 2.37 | 0.55 | 7.75 | 4.20 | 3.24 | 15.20 |
| NT Plant-Rigid | 12R-20 | MFWD 190 | 61,200 | 150 | 8 | 0.098 | 2.38 | 2.26 | 2.25 | 0.63 | 7.54 | 3.99 | 3.72 | 15.26 |
| NT Plant-Rigid | 12R-30 | MFWD 190 | 76,200 | 150 | 8 | 0.065 | 1.59 | 1.51 | 1.87 | 0.42 | 5.39 | 3.31 | 2.48 | 11.19 |
| NT Plant-Rigid | 15R-15 | MFWD 190 | 77,000 | 150 | 8 | 0.105 | 2.55 | 2.42 | 3.03 | 0.67 | 8.68 | 5.37 | 3.98 | 18.05 |
| NT Plant-TwinRow | 12R-30/40 | MFWD 225 | 163,000 | 150 | 8 | 0.051 | 1.25 | 1.41 | 3.15 | 0.40 | 6.23 | 5.59 | 2.36 | 14.19 |
| NT Plant-TwinRow | 8R-30/40 | MFWD 225 | 130,000 | 150 | 8 | 0.077 | 1.88 | 2.12 | 3.78 | 0.60 | 8.39 | 6.70 | 3.54 | 18.65 |
| Peanut Cond. & Lifter | 6-Row | MFWD 190 | 15,200 | 300 | 20 | 0.100 | 1.52 | 2.30 | 0.25 | 0.64 | 4.73 | 0.33 | 3.79 | 8.86 |
| Peanut Conditioner | 6-Row | MFWD 190 | 18,500 | 300 | 20 | 0.100 | 1.52 | 2.30 | 0.37 | 0.64 | 4.84 | 0.35 | 3.79 | 8.99 |
| Peanut Dig/Invertor | 4R-30 | MFWD 190 | 38,600 | 300 | 15 | 0.235 | 3.60 | 5.44 | 2.26 | 1.51 | 12.82 | 2.50 | 8.95 | 24.28 |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 38,600 | 300 | 15 | 0.186 | 2.84 | 4.29 | 1.78 | 1.19 | 10.12 | 1.97 | 7.06 | 19.17 |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 54,700 | 300 | 15 | 0.124 | 1.89 | 2.86 | 1.19 | 0.79 | 6.74 | 1.86 | 4.70 | 13.32 |
| Peanut Dump Cart | 6-Row | MFWD 190 | 57,400 | 300 | 20 | 0.310 | 4.73 | 7.15 | 1.03 | 1.99 | 14.92 | 3.76 | 11.76 | 30.45 |
| Peanut Harvester | 4R-30 | MFWD 225 | 160,000 | 300 | 20 | 0.849 | 12.97 | 23.23 | 7.70 | 6.58 | 50.50 | 25.74 | 38.83 | 115.08 |
| Peanut Harvester | 4R-38 | MFWD 225 | 160,000 | 300 | 20 | 0.934 | 14.27 | 25.54 | 8.47 | 7.24 | 55.53 | 29.98 | 42.70 | 128.21 |
| Peanut Harvester | 6R-38 | MFWD 225 | 175,000 | 300 | 20 | 0.625 | 9.54 | 17.08 | 5.28 | 4.84 | 36.75 | 21.92 | 28.55 | 87.24 |
| Peanut Lifter | 6-Row | MFWD 225 | 7,440 | 300 | 20 | 0.100 | 1.52 | 2.73 | 0.15 | 0.77 | 5.18 | 0.14 | 4.56 | 9.89 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 190 | 94,300 | 150 | 8 | 0.080 | 1.95 | 1.85 | 2.84 | 0.51 | 7.17 | 5.03 | 3.05 | 15.26 |
| Peanut Plt&Pre Rigid | 8R-30 | MFWD 190 | 46,000 | 150 | 8 | 0.152 | 3.71 | 3.52 | 2.63 | 0.98 | 10.86 | 4.67 | 5.79 | 21.33 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 190 | 43,900 | 150 | 8 | 0.120 | 2.93 | 2.78 | 1.98 | 0.77 | 8.49 | 3.52 | 4.58 | 16.59 |
| Peanut Ptl&PreTwin | 8R-30/40 | MFWD 190 | 127,000 | 150 | 8 | 0.120 | 2.93 | 2.78 | 5.75 | 0.77 | 12.25 | 10.19 | 4.58 | 27.03 |
| Pipe Spool 160ac | 1/4m roll | 2WD 130 | 6,500 | 15 | 12 | 0.003 | 0.10 | 0.04 | 0.01 | 0.01 | 0.17 | 0.11 | 0.06 | 0.35 |
| Pipe Trailer 1m/160a | 30' | 2WD 130 | 1,980 | 100 | 15 | 0.003 | 0.19 | 0.05 | 0.00 | 0.01 | 0.26 | 0.00 | 0.07 | 0.35 |
| Plant & Pre-Folding | 8R-38 | MFWD 170 | 59,600 | 150 | 8 | 0.080 | 1.95 | 1.65 | 1.79 | 0.41 | 5.81 | 3.17 | 2.42 | 11.42 |
| Plant & Pre-Folding | 8R-38 2x1 | MFWD 170 | 94,300 | 150 | 8 | 0.053 | 1.30 | 1.10 | 1.88 | 0.27 | 4.56 | 3.34 | 1.61 | 9.53 |
| Plant & Pre-Folding | 12R-20 | MFWD 190 | 70,600 | 150 | 8 | 0.101 | 2.47 | 2.34 | 2.68 | 0.65 | 8.15 | 4.76 | 3.85 | 16.77 |
| Plant & Pre-Folding | 12R-30 | MFWD 190 | 82,400 | 150 | 8 | 0.067 | 1.64 | 1.56 | 2.09 | 0.43 | 5.73 | 3.70 | 2.56 | 12.01 |
| Plant & Pre-Folding | 12R-38 | MFWD 190 | 94,300 | 150 | 8 | 0.053 | 1.30 | 1.23 | 1.88 | 0.34 | 4.76 | 3.34 | 2.02 | 10.14 |
| Plant & Pre-Folding | 16R-30 | MFWD 190 | 126,000 | 150 | 8 | 0.050 | 1.23 | 1.17 | 2.39 | 0.32 | 5.13 | 4.25 | 1.92 | 11.31 |
| Plant & Pre-Folding | 23R-15 | MFWD 190 | 169,000 | 150 | 8 | 0.070 | 1.71 | 1.62 | 4.46 | 0.45 | 8.26 | 7.91 | 2.67 | 18.86 |
| Plant & Pre-Folding | 24R-20 | MFWD 190 | 190,000 | 150 | 8 | 0.050 | 1.23 | 1.17 | 3.61 | 0.32 | 6.35 | 6.41 | 1.92 | 14.68 |
| Plant & Pre-Folding | 24R-30 | MFWD 190 | 198,000 | 150 | 8 | 0.033 | 0.82 | 0.78 | 2.51 | 0.21 | 4.33 | 4.45 | 1.28 | 10.07 |
| Plant & Pre-Folding | 31R-15 | MFWD 225 | 200,000 | 150 | 8 | 0.052 | 1.27 | 1.43 | 3.93 | 0.40 | 7.05 | 6.97 | 2.39 | 16.42 |
| Plant & Pre-Folding | 32R-15 | MFWD 225 | 197,000 | 150 | 8 | 0.050 | 1.23 | 1.38 | 3.75 | 0.39 | 6.76 | 6.64 | 2.31 | 15.73 |
| Plant & Pre-Rigid | 4R-30 | 2WD 130 | 29,700 | 150 | 8 | 0.203 | 4.94 | 3.20 | 2.26 | 0.74 | 11.15 | 4.00 | 4.17 | 19.34 |
| Plant & Pre-Rigid | 4R-38 | 2WD 130 | 30,800 | 150 | 8 | 0.159 | 3.89 | 2.52 | 1.84 | 0.58 | 8.84 | 3.27 | 3.28 | 15.41 |
| Plant & Pre-Rigid | 6R-30 | MFWD 150 | 37,500 | 150 | 8 | 0.135 | 3.29 | 2.46 | 1.90 | 0.60 | 8.26 | 3.37 | 3.39 | 15.03 |
| Plant & Pre-Rigid | 6R-38 | MFWD 150 | 36,600 | 150 | 8 | 0.106 | 2.60 | 1.94 | 1.46 | 0.47 | 6.49 | 2.59 | 2.67 | 11.76 |
| Plant & Pre-Rigid | 8R-30 | MFWD 170 | 46,000 | 150 | 8 | 0.101 | 2.47 | 2.09 | 1.75 | 0.52 | 6.83 | 3.10 | 3.06 | 13.01 |
| Plant & Pre-Rigid | 8R-38 | MFWD 170 | 43,900 | 150 | 8 | 0.080 | 1.95 | 1.65 | 1.32 | 0.41 | 5.34 | 2.34 | 2.42 | 10.11 |
| Plant & Pre-Rigid | 11R-15 | MFWD 170 | 53,900 | 150 | 8 | 0.148 | 3.60 | 3.06 | 2.99 | 0.75 | 10.42 | 5.30 | 4.47 | 20.21 |
| Plant & Pre-Rigid | 11R-20 | MFWD 170 | 53,100 | 150 | 8 | 0.110 | 2.69 | 2.29 | 2.20 | 0.56 | 7.76 | 3.91 | 3.35 | 15.03 |
| Plant & Pre-Rigid | 12R-20 | MFWD 190 | 54,300 | 150 | 8 | 0.101 | 2.47 | 2.34 | 2.06 | 0.65 | 7.53 | 3.66 | 3.85 | 15.05 |
| Plant & Pre-Rigid | 12R-30 | MFWD 190 | 74,200 | 150 | 8 | 0.067 | 1.64 | 1.56 | 1.88 | 0.43 | 5.52 | 3.33 | 2.56 | 11.43 |
| Plant & Pre-Rigid | 15R-15 | MFWD 190 | 72,000 | 150 | 8 | 0.108 | 2.64 | 2.50 | 2.93 | 0.69 | 8.78 | 5.19 | 4.12 | 18.09 |
| Plant & Pre-TwinRow | 12R-30/40 | MFWD 225 | 160,700 | 150 | 8 | 0.053 | 1.30 | 1.46 | 3.22 | 0.41 | 6.39 | 5.70 | 2.44 | 14.54 |
| Plant & Pre-TwinRow | 8R-30/40 | MFWD 225 | 127,000 | 150 | 8 | 0.080 | 1.95 | 2.19 | 3.82 | 0.62 | 8.59 | 6.77 | 3.66 | 19.03 |
| Plant - Folding | 8R-38 | MFWD 170 | 54,300 | 150 | 8 | 0.074 | 1.81 | 1.53 | 1.51 | 0.38 | 5.25 | 2.68 | 2.25 | 10.19 |
| Plant - Folding | 8R-38 2x1 | MFWD 170 | 84,000 | 150 | 8 | 0.049 | 1.20 | 1.02 | 1.56 | 0.25 | 4.04 | 2.77 | 1.49 | 8.31 |
| Plant - Folding | 12R-20 | MFWD 190 | 65,200 | 150 | 8 | 0.094 | 2.29 | 2.17 | 2.30 | 0.60 | 7.38 | 4.08 | 3.57 | 15.04 |
| Plant - Folding | 12R-30 | MFWD 190 | 72,100 | 150 | 8 | 0.062 | 1.52 | 1.45 | 1.69 | 0.40 | 5.08 | 3.01 | 2.38 | 10.48 |
| Plant - Folding | 12R-38 | MFWD 190 | 84,000 | 150 | 8 | 0.049 | 1.20 | 1.14 | 1.56 | 0.31 | 4.23 | 2.77 | 1.88 | 8.88 |
| Plant - Folding | 16R-30 | MFWD 190 | 115,000 | 150 | 8 | 0.047 | 1.14 | 1.08 | 2.03 | 0.30 | 4.57 | 3.60 | 1.78 | 9.96 |
| Plant - Folding | 23R-15 | MFWD 190 | 158,000 | 150 | 8 | 0.065 | 1.59 | 1.51 | 3.87 | 0.42 | 7.40 | 6.87 | 2.48 | 16.76 |
| Plant - Folding | 24R-20 | MFWD 190 | 179,000 | 150 | 8 | 0.047 | 1.14 | 1.08 | 3.16 | 0.30 | 5.70 | 5.60 | 1.78 | 13.09 |
| Plant - Folding | 24R-30 | MFWD 190 | 184,000 | 150 | 8 | 0.031 | 0.76 | 0.72 | 2.16 | 0.20 | 3.86 | 3.84 | 1.19 | 8.89 |
| Plant - Folding | 31R-15 | MFWD 225 | 190,000 | 150 | 8 | 0.048 | 1.18 | 1.33 | 3.47 | 0.37 | 6.36 | 6.15 | 2.22 | 14.74 |
| Plant - Folding | 32R-15 | MFWD 225 | 187,000 | 150 | 8 | 0.047 | 1.14 | 1.28 | 3.30 | 0.36 | 6.10 | 5.85 | 2.15 | 14.11 |
| Plant - Rigid | 4R-30 | 2WD 130 | 24,400 | 150 | 8 | 0.188 | 4.58 | 2.97 | 1.72 | 0.69 | 9.98 | 3.05 | 3.87 | 16.91 |
| Plant - Rigid | 4R-38 | 2WD 130 | 25,400 | 150 | 8 | 0.148 | 3.61 | 2.34 | 1.41 | 0.54 | 7.91 | 2.50 | 3.05 | 13.47 |
| Plant - Rigid | 6R-30 | MFWD 150 | 32,200 | 150 | 8 | 0.125 | 3.05 | 2.29 | 1.51 | 0.56 | 7.42 | 2.69 | 3.14 | 13.26 |
| Plant - Rigid | 6R-38 | MFWD 150 | 31,200 | 150 | 8 | 0.099 | 2.41 | 1.80 | 1.16 | 0.44 | 5.82 | 2.05 | 2.48 | 10.37 |
| Plant - Rigid | 8R-30 | MFWD 170 | 40,700 | 150 | 8 | 0.094 | 2.29 | 1.94 | 1.43 | 0.48 | 6.16 | 2.55 | 2.84 | 11.56 |
| Plant - Rigid | 8R-38 | MFWD 170 | 38,600 | 150 | 8 | 0.074 | 1.81 | 1.53 | 1.07 | 0.38 | 4.81 | 1.91 | 2.25 | 8.97 |
| Plant - Rigid | 11R-15 | MFWD 170 | 48,500 | 150 | 8 | 0.137 | 3.34 | 2.84 | 2.50 | 0.70 | 9.39 | 4.43 | 4.15 | 17.99 |
| Plant - Rigid | 11R-20 | MFWD 170 | 47,800 | 150 | 8 | 0.103 | 2.50 | 2.12 | 1.84 | 0.52 | 7.00 | 3.27 | 3.11 | 13.39 |
| Plant - Rigid | 12R-20 | MFWD 190 | 49,000 | 150 | 8 | 0.094 | 2.29 | 2.17 | 1.73 | 0.60 | 6.80 | 3.07 | 3.57 | 13.45 |
| Plant - Rigid | 12R-30 | MFWD 190 | 64,000 | 150 | 8 | 0.062 | 1.52 | 1.45 | 1.50 | 0.40 | 4.89 | 2.67 | 2.38 | 9.95 |
| Plant - Rigid | 15R-15 | 2WD 150 | 61,700 | 150 | 8 | 0.094 | 2.29 | 1.71 | 2.18 | 0.34 | 6.53 | 3.86 | 1.91 | 12.32 |
| Plant - TwinRow | 12R-30/40 | MFWD 225 | 150,000 | 150 | 8 | 0.049 | 1.20 | 1.35 | 2.79 | 0.38 | 5.73 | 4.94 | 2.26 | 12.95 |
| Plant - TwinRow | 8R-30/40 | MFWD 225 | 121,000 | 150 | 8 | 0.074 | 1.81 | 2.03 | 3.38 | 0.57 | 7.80 | 5.99 | 3.40 | 17.20 |
| Roller/Cultipacker | 12' | 2WD 130 | 7,470 | 300 | 12 | 0.124 | 1.90 | 1.96 | 0.21 | 0.45 | 4.54 | 0.27 | 2.55 | 7.37 |

(continued)

Appendix Table 3. Towed Equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2022 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | | Total Direct | --Fixed-- | | Total Cost |
|----------------------|-----------|------------|----------------|------------|-------------|-----------|-------------------|------|-----------|------|--------------|-----------|------|------------|
| | | | | | | | | | Imp. | P.U. | | Imp. | P.U. | |
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | |
| Roller/Cultipacker | 20' | MFWD 150 | 12,500 | 300 | 12 | 0.074 | 1.14 | 1.36 | 0.22 | 0.33 | 3.05 | 0.27 | 1.87 | 5.20 |
| Roller/Cultipacker | 30' | MFWD 170 | 16,900 | 300 | 12 | 0.049 | 0.75 | 1.02 | 0.19 | 0.25 | 2.24 | 0.25 | 1.50 | 3.99 |
| Roller/Cultipacker | 38' | MFWD 225 | 24,200 | 300 | 12 | 0.039 | 0.60 | 1.07 | 0.22 | 0.30 | 2.20 | 0.28 | 1.79 | 4.28 |
| Roller/Stubble | 20' | 2WD 50 | 14,600 | 300 | 12 | 0.074 | 1.14 | 0.45 | 0.25 | 0.05 | 1.90 | 0.32 | 0.30 | 2.53 |
| Roller/Stubble | 32' | MFWD 225 | 24,500 | 300 | 12 | 0.046 | 0.71 | 1.27 | 0.26 | 0.36 | 2.61 | 0.34 | 2.13 | 5.09 |
| Rotary Cutter | 7' | MFWD 130 | 0 | 185 | 10 | 0.168 | 2.57 | 2.65 | 0.00 | 0.68 | 5.91 | 0.00 | 3.86 | 9.78 |
| Rotary Cutter | 12' | 2WD 150 | 14,100 | 185 | 10 | 0.098 | 1.49 | 1.78 | 1.12 | 0.35 | 4.76 | 0.73 | 1.99 | 7.50 |
| Rotary Cutter-Flex | 15' | MFWD 150 | 21,800 | 185 | 10 | 0.078 | 1.19 | 1.43 | 1.38 | 0.35 | 4.37 | 0.91 | 1.96 | 7.24 |
| Rotary Cutter-Flex | 20' | MFWD 150 | 30,100 | 185 | 10 | 0.058 | 0.89 | 1.07 | 1.43 | 0.26 | 3.67 | 0.94 | 1.47 | 6.09 |
| Row Cond & Inc-Fold. | 26' | MFWD 190 | 29,200 | 100 | 10 | 0.063 | 1.25 | 1.46 | 0.46 | 0.40 | 3.59 | 1.82 | 2.40 | 7.82 |
| Row Cond & Inc-Fold. | 38' | MFWD 225 | 41,800 | 100 | 10 | 0.043 | 0.85 | 1.18 | 0.45 | 0.33 | 2.83 | 1.78 | 1.98 | 6.60 |
| Row Cond & Inc-Rigid | 13' | 2WD 130 | 13,400 | 100 | 10 | 0.126 | 2.51 | 2.00 | 0.42 | 0.46 | 5.40 | 1.67 | 2.61 | 9.69 |
| Row Cond & Inc-Rigid | 21' | 2WD 170 | 19,500 | 100 | 10 | 0.078 | 1.55 | 1.62 | 0.38 | 0.29 | 3.85 | 1.50 | 1.72 | 7.08 |
| Row Cond & Inc-Rigid | 26' | MFWD 190 | 23,900 | 100 | 10 | 0.026 | 0.52 | 0.61 | 0.15 | 0.17 | 1.47 | 0.62 | 1.00 | 3.10 |
| Row Cond Folding | 26' | MFWD 225 | 23,900 | 100 | 10 | 0.059 | 0.91 | 1.63 | 0.35 | 0.46 | 3.36 | 1.40 | 2.72 | 7.49 |
| Row Cond Folding | 38' | MFWD 225 | 31,500 | 100 | 10 | 0.040 | 0.62 | 1.11 | 0.32 | 0.31 | 2.37 | 1.26 | 1.86 | 5.51 |
| Row Cond Rigid | 13' | 2WD 130 | 8,670 | 100 | 10 | 0.119 | 1.82 | 1.88 | 0.25 | 0.43 | 4.40 | 1.01 | 2.45 | 7.88 |
| Row Cond Rigid | 21' | 2WD 170 | 14,200 | 100 | 10 | 0.073 | 1.12 | 1.52 | 0.26 | 0.27 | 3.19 | 1.03 | 1.62 | 5.84 |
| Row Cond Rigid | 26' | MFWD 190 | 18,600 | 100 | 10 | 0.059 | 0.91 | 1.37 | 0.27 | 0.38 | 2.95 | 1.09 | 2.26 | 6.31 |
| Row Cond./Roll-Fol | 30' | MFWD 190 | 46,200 | 160 | 10 | 0.062 | 0.95 | 1.44 | 0.72 | 0.40 | 3.52 | 1.77 | 2.37 | 7.66 |
| Row Cond./Roll-Fold. | 26' | MFWD 190 | 26,500 | 160 | 10 | 0.072 | 1.10 | 1.66 | 0.47 | 0.46 | 3.70 | 1.17 | 2.73 | 7.61 |
| Row Cond./Roll-Fold. | 40' | MFWD 225 | 34,000 | 160 | 10 | 0.046 | 0.71 | 1.28 | 0.39 | 0.36 | 2.75 | 0.97 | 2.14 | 5.88 |
| Row Cond./Roll-Rig | 21' | MFWD 190 | 25,800 | 160 | 10 | 0.089 | 1.36 | 2.06 | 0.57 | 0.57 | 4.57 | 1.41 | 3.38 | 9.37 |
| Row Cond./Roll-Rig | 26' | MFWD 190 | 28,400 | 160 | 10 | 0.072 | 1.10 | 1.66 | 0.51 | 0.46 | 3.74 | 1.25 | 2.73 | 7.73 |
| Spin Spreader | 5 ton | MFWD 190 | 14,500 | 100 | 8 | 0.042 | 1.02 | 0.97 | 0.34 | 0.27 | 2.60 | 0.64 | 1.59 | 4.84 |
| Spray (ATV Ropewick) | 75" | 800 CC | 720 | 200 | 8 | 0.260 | 5.15 | 0.51 | 0.08 | 0.49 | 6.25 | 0.09 | 1.84 | 8.19 |
| Spray (ATV) | 20' | 800 CC | 1,690 | 200 | 8 | 0.084 | 1.67 | 0.16 | 0.06 | 0.16 | 2.07 | 0.07 | 0.59 | 2.74 |
| Spray (Band) | 27' Fold | MFWD 170 | 5,300 | 200 | 8 | 0.062 | 1.24 | 1.29 | 0.15 | 0.32 | 3.01 | 0.17 | 1.89 | 5.08 |
| Spray (Band) | 40' Fold | MFWD 170 | 10,200 | 200 | 8 | 0.042 | 0.83 | 0.87 | 0.20 | 0.21 | 2.13 | 0.22 | 1.27 | 3.63 |
| Spray (Band) | 50' Fold | MFWD 170 | 9,160 | 200 | 8 | 0.033 | 0.67 | 0.69 | 0.14 | 0.17 | 1.68 | 0.16 | 1.02 | 2.87 |
| Spray (Band) | 60' Fold | MFWD 170 | 14,700 | 200 | 8 | 0.028 | 0.55 | 0.58 | 0.19 | 0.14 | 1.48 | 0.21 | 0.85 | 2.55 |
| Spray (Bcast/HB) | 13' Rigid | MFWD 150 | 8,500 | 200 | 8 | 0.130 | 2.57 | 2.37 | 0.51 | 0.58 | 6.05 | 0.58 | 3.26 | 9.89 |
| Spray (Bcast/HB) | 20' Rigid | MFWD 150 | 9,960 | 200 | 8 | 0.084 | 1.67 | 1.54 | 0.39 | 0.37 | 3.99 | 0.44 | 2.11 | 6.55 |
| Spray (Bcast/HB) | 27' Fold | MFWD 170 | 16,100 | 200 | 8 | 0.062 | 1.24 | 1.29 | 0.47 | 0.32 | 3.32 | 0.53 | 1.89 | 5.75 |
| Spray (Bcast/HB) | 27' Rigid | MFWD 170 | 11,700 | 200 | 8 | 0.062 | 1.24 | 1.29 | 0.34 | 0.32 | 3.20 | 0.38 | 1.89 | 5.47 |
| Spray (Bcast/HB) | 30' Fold | MFWD 170 | 17,100 | 200 | 8 | 0.056 | 1.11 | 1.16 | 0.45 | 0.28 | 3.02 | 0.50 | 1.70 | 5.23 |
| Spray (Bcast/HB) | 40' Fold | MFWD 170 | 19,900 | 200 | 8 | 0.042 | 0.83 | 0.87 | 0.39 | 0.21 | 2.32 | 0.44 | 1.27 | 4.04 |
| Spray (Broadcast) | 27' | MFWD 170 | 5,300 | 200 | 8 | 0.062 | 1.24 | 1.29 | 0.15 | 0.32 | 3.01 | 0.17 | 1.89 | 5.08 |
| Spray (Broadcast) | 40' | MFWD 170 | 10,200 | 200 | 8 | 0.042 | 0.83 | 0.87 | 0.20 | 0.21 | 2.13 | 0.22 | 1.27 | 3.63 |
| Spray (Broadcast) | 50' | MFWD 170 | 9,200 | 200 | 8 | 0.033 | 0.67 | 0.69 | 0.14 | 0.17 | 1.68 | 0.16 | 1.02 | 2.87 |
| Spray (Broadcast) | 60' | MFWD 170 | 14,700 | 200 | 8 | 0.028 | 0.55 | 0.58 | 0.19 | 0.14 | 1.48 | 0.21 | 0.85 | 2.55 |
| Spray (Direct/Hood) | 8R-30 | MFWD 170 | 17,800 | 200 | 8 | 0.084 | 1.67 | 1.74 | 0.70 | 0.43 | 4.56 | 0.79 | 2.55 | 7.91 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 18,700 | 200 | 8 | 0.066 | 1.32 | 1.38 | 0.58 | 0.34 | 3.63 | 0.65 | 2.02 | 6.31 |
| Spray (Direct/Hood) | 12R-30 | MFWD 170 | 24,900 | 200 | 8 | 0.056 | 1.11 | 1.16 | 0.65 | 0.28 | 3.22 | 0.73 | 1.70 | 5.67 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 26,100 | 200 | 8 | 0.044 | 0.88 | 0.91 | 0.54 | 0.22 | 2.57 | 0.61 | 1.34 | 4.53 |
| Spray (Direct/Layby) | 8R-30 | MFWD 170 | 15,500 | 200 | 8 | 0.084 | 1.67 | 1.74 | 0.61 | 0.43 | 4.47 | 0.68 | 2.55 | 7.71 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 15,500 | 200 | 8 | 0.066 | 1.32 | 1.38 | 0.48 | 0.34 | 3.53 | 0.54 | 2.02 | 6.10 |
| Spray (Direct/Layby) | 8R-38 2x1 | MFWD 170 | 22,900 | 200 | 8 | 0.044 | 0.88 | 0.91 | 0.47 | 0.22 | 2.50 | 0.53 | 1.34 | 4.38 |
| Spray (Direct/Layby) | 12R-30 | MFWD 170 | 22,900 | 200 | 8 | 0.056 | 1.11 | 1.16 | 0.60 | 0.28 | 3.17 | 0.67 | 1.70 | 5.55 |
| Spray (Direct/Layby) | 12R-38 | MFWD 170 | 22,900 | 200 | 8 | 0.044 | 0.88 | 0.91 | 0.47 | 0.22 | 2.50 | 0.53 | 1.34 | 4.38 |
| Spray (Direct/Layby) | 16R-20/30 | MFWD 225 | 26,700 | 200 | 8 | 0.062 | 1.24 | 1.71 | 0.78 | 0.48 | 4.22 | 0.87 | 2.86 | 7.96 |
| Spray (Levee Leaper) | 50' | MFWD 225 | 13,400 | 200 | 8 | 0.033 | 0.67 | 0.92 | 0.21 | 0.26 | 2.07 | 0.23 | 1.54 | 3.85 |
| Spray (Pull Type) | 60' | MFWD 225 | 49,600 | 200 | 8 | 0.028 | 0.55 | 0.77 | 0.65 | 0.21 | 2.20 | 0.73 | 1.28 | 4.22 |
| Spray (Pull Type) | 80' | MFWD 225 | 53,300 | 200 | 8 | 0.021 | 0.41 | 0.57 | 0.52 | 0.16 | 1.68 | 0.59 | 0.96 | 3.24 |
| Spray (Pull Type) | 90' | MFWD 225 | 54,200 | 200 | 8 | 0.018 | 0.37 | 0.51 | 0.47 | 0.14 | 1.50 | 0.53 | 0.85 | 2.90 |
| Spray (Pull Type) | 120' | MFWD 225 | 84,300 | 200 | 8 | 0.014 | 0.27 | 0.38 | 0.55 | 0.10 | 1.33 | 0.62 | 0.64 | 2.59 |
| Spray (Ropewick) | 20' | MFWD 190 | 4,100 | 200 | 8 | 0.084 | 1.67 | 1.95 | 0.16 | 0.54 | 4.33 | 0.18 | 3.21 | 7.72 |
| Spray (Spot) | 27' | MFWD 170 | 5,300 | 200 | 8 | 0.062 | 1.24 | 1.29 | 0.15 | 0.32 | 3.01 | 0.17 | 1.89 | 5.08 |
| Spray (Spot) | 40' | MFWD 170 | 10,200 | 200 | 8 | 0.042 | 0.83 | 0.87 | 0.20 | 0.21 | 2.13 | 0.22 | 1.27 | 3.63 |
| Spray (Spot) | 50' | MFWD 170 | 9,200 | 200 | 8 | 0.033 | 0.67 | 0.69 | 0.14 | 0.17 | 1.68 | 0.16 | 1.02 | 2.87 |
| Spray (Spot) | 60' | MFWD 225 | 14,700 | 200 | 8 | 0.028 | 0.55 | 0.77 | 0.19 | 0.21 | 1.74 | 0.21 | 1.28 | 3.24 |
| Stalk Shredder | 14' | MFWD 150 | 18,400 | 200 | 10 | 0.117 | 1.79 | 2.14 | 1.89 | 0.52 | 6.37 | 1.06 | 2.95 | 10.39 |
| Stalk Shredder Flex | 20' | MFWD 150 | 33,100 | 200 | 10 | 0.082 | 1.25 | 1.50 | 2.38 | 0.36 | 5.52 | 1.34 | 2.06 | 8.93 |
| Stalk Shredder-Flail | 12' | MFWD 150 | 25,900 | 200 | 10 | 0.137 | 2.09 | 2.50 | 3.11 | 0.61 | 8.33 | 1.75 | 3.44 | 13.53 |
| Stalk Shredder-Flail | 15' | MFWD 150 | 26,000 | 200 | 10 | 0.110 | 1.67 | 2.00 | 2.50 | 0.49 | 6.67 | 1.40 | 2.75 | 10.83 |
| Stalk Shredder-Flail | 18' | MFWD 150 | 29,600 | 200 | 10 | 0.091 | 1.39 | 1.67 | 2.37 | 0.40 | 5.85 | 1.33 | 2.29 | 9.48 |
| Stalk Shredder-Flail | 20' | MFWD 150 | 31,700 | 200 | 10 | 0.082 | 1.25 | 1.50 | 2.28 | 0.36 | 5.42 | 1.28 | 2.06 | 8.77 |
| Stalk Shredder-Flail | 25' | MFWD 150 | 46,900 | 200 | 10 | 0.066 | 1.00 | 1.20 | 2.70 | 0.29 | 5.21 | 1.52 | 1.65 | 8.38 |
| Strip Till | 8R-38 | MFWD 225 | 43,000 | 150 | 10 | 0.061 | 0.94 | 1.68 | 1.14 | 0.47 | 4.25 | 1.73 | 2.81 | 8.80 |
| Strip Till | 12R-30 | MFWD 225 | 69,600 | 150 | 10 | 0.061 | 0.94 | 1.68 | 1.85 | 0.47 | 4.96 | 2.81 | 2.81 | 10.58 |
| Strip Till | 12R-40 | MFWD 225 | 75,400 | 150 | 10 | 0.046 | 0.70 | 1.26 | 1.51 | 0.35 | 3.83 | 2.28 | 2.11 | 8.23 |
| Subsoiler | 3 shank | MFWD 190 | 6,500 | 100 | 15 | 0.204 | 3.12 | 4.71 | 0.44 | 1.31 | 9.59 | 0.99 | 7.75 | 18.34 |
| Subsoiler | 4 shank | MFWD 225 | 11,430 | 100 | 15 | 0.153 | 2.34 | 4.19 | 0.58 | 1.19 | 8.32 | 1.31 | 7.01 | 16.65 |
| Subsoiler | 5 shank | MFWD 225 | 14,630 | 100 | 15 | 0.122 | 1.86 | 3.34 | 0.59 | 0.94 | 6.75 | 1.34 | 5.59 | 13.69 |
| Subsoiler low-till | 6 shank | MFWD 225 | 20,000 | 100 | 15 | 0.102 | 1.56 | 2.79 | 0.68 | 0.79 | 5.82 | 1.53 | 4.66 | 12.02 |
| Subsoiler low-till | 8 shank | MFWD 225 | 21,400 | 100 | 15 | 0.076 | 1.16 | 2.09 | 0.54 | 0.59 | 4.39 | 1.22 | 3.49 | 9.12 |

Notes:

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

Total Direct: Does not include interest on operating capital.

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|-----------------------|------|---------|----------------------|------|---------|
| | | dollars | | | dollars |
| ADJUVANTS | | | Apron Maxx RTA | oz | 0.84 |
| Agri-Dex | pt | 1.75 | Artisan | oz | 0.23 |
| AMS SuperMax | pt | 3.81 | Avaris | oz | 1.68 |
| Class Act NG | pt | 4.75 | Avicta Complete Bean | oz | 0.26 |
| Crop Oil Conc. (Pet.) | pt | 2.86 | Bravo Weather Stick | pt | 4.12 |
| Crop Oil Conc. (Veg.) | pt | 2.90 | Captan 50 WP | lb | 6.59 |
| Dyne-A-Pak | pt | 4.13 | Convoy | oz | 1.17 |
| Fire-Zone | pt | 2.87 | Cotton Seed Trt. | acre | 20.00 |
| Herbimax | pt | 4.00 | CruiserMaxx Vibrance | oz | 4.60 |
| Induce | pt | 3.00 | Elatus | oz | 3.31 |
| MSO | pt | 4.38 | Flint Extra | oz | 8.75 |
| Penetrator Plus | pt | 2.58 | Headline EC | oz | 4.44 |
| Surfactant | pt | 3.30 | Miravis Top | oz | 1.34 |
| CLEANING | | | Prior Xemium | oz | 3.91 |
| Cleaning Peanuts | ton | 18.00 | Propimax EC | pt | 12.50 |
| CROP CONSULTANT | | | Prosaro | oz | 2.36 |
| Corn Consultant | acre | 6.00 | Provost Optimum | oz | 219.44 |
| Cotton Consultant | acre | 8.00 | Quadris | oz | 1.56 |
| Peanut Consultant | acre | 9.25 | Quadris Top | oz | 2.59 |
| Rice Consultant | acre | 8.00 | Quadris Top SBX | oz | 2.77 |
| Sorghum Consultant | acre | 6.00 | Quilt | pt | 20.23 |
| Soybeans Consultant | acre | 6.50 | Quilt XCEL | pt | 24.10 |
| Wheat Consultant | acre | 5.50 | Stratego | pt | 23.93 |
| CUSTOM FERTILIZE | | | Stratego YLD | oz | 3.46 |
| App Fert by Air | cwt | 7.50 | Tilt 3.6 EC | oz | 0.90 |
| App Fert by Air (Mi) | appl | 7.50 | Tilt/ Bravo SE | oz | 0.72 |
| Custom Apply Fert | acre | 7.50 | Trivapro | oz | 1.50 |
| CUSTOM LIME | | | GINNING | | |
| Lime (Spread) | ton | 59.00 | Gin & Haul | lb | 0.11 |
| CUSTOM PLANT | | | GROWTH REGULATORS | | |
| Custom Plant | acre | 7.50 | Mepex | oz | 0.09 |
| Custom Plant Air | cwt | 7.50 | Mepichlor 4.2% | oz | 0.09 |
| CUSTOM SPRAY | | | Mepiquat | oz | 0.21 |
| App by Air (3 gal) | appl | 5.60 | Mepstar 6 | oz | 0.08 |
| App by Air (5 gal) | appl | 7.00 | Palisade | oz | 1.20 |
| App by Air (10 gal) | appl | 9.30 | Pentia | oz | 0.41 |
| Custom Spray Ground | acre | 7.00 | Pix WSB | oz | 1.32 |
| DRYING | | | Stance | oz | 1.27 |
| Dry Corn | bu | 0.19 | Veto | oz | 0.06 |
| Dry Grain Sorghum | cwt | 0.25 | HARVEST AIDS | | |
| Dry Peanuts | ton | 24.00 | Adios | oz | 1.00 |
| Dry Rice | bu | 0.40 | Boll Buster | oz | 0.34 |
| ERADICATION FEE | | | Def/Folex | pt | 11.73 |
| Eradication | acre | 1.00 | Defol 5 | gal | 8.54 |
| FERTILIZERS | | | Display | oz | 10.23 |
| Agrotain Ultra | pt | 11.30 | Ethephon 6E | pt | 3.89 |
| Amm Sulfate (21% N) | cwt | 19.88 | Finish 6 | pt | 11.74 |
| Boron Plus | pt | 4.64 | Folex 6EC | pt | 11.74 |
| DAP | cwt | 35.88 | Freefall SC | oz | 1.63 |
| Fert 10-34-0 | cwt | 31.55 | Ginstar EC | pt | 27.59 |
| Fert 10-34-0 | gal | 3.68 | Gramoxone SL | oz | 0.19 |
| Fert 11-37-0 | cwt | 26.26 | Sharpen | oz | 5.99 |
| Fert 41-0-0-4 | cwt | 18.22 | Sodium Chlorate 5L | gal | 8.54 |
| Lime | ton | 49.00 | SuperBoll | oz | 0.24 |
| NBPT | pt | 12.93 | Thidiazuron 4lb | oz | 2.07 |
| Phosphorus (46% P2O5) | cwt | 27.75 | Tribufos 6lb | pt | 11.74 |
| Potash (60% K2O) | cwt | 26.30 | Vacate | oz | 1.39 |
| Sulfur Plus | pt | 2.62 | HAULING | | |
| UAN (32% N) | cwt | 19.00 | Haul Corn | bu | 0.23 |
| UAN (32%) | gal | 2.10 | Haul Peanuts | ton | 14.50 |
| UAN + Sulfur (28%) | cwt | 18.45 | Haul Rice | bu | 0.35 |
| UAN + Sulfur (28%) | gal | 2.05 | Haul Sorghum | bu | 0.25 |
| Urea, Solid (46% N) | cwt | 28.63 | Haul Soybeans | bu | 0.27 |
| Zinc Plus | pt | 3.40 | Haul Wheat | bu | 0.26 |
| FUNGICIDES | | | HERBICIDES | | |
| Abound | oz | 1.96 | 2,4-D Amine 4 | pt | 2.64 |
| Alfa Guard | lb | 1.26 | 2,4-D Ester | pt | 2.41 |
| Allegiance Flowabl | oz | 3.35 | AAtrex 4L | pt | 1.90 |
| Ameristar Top | oz | 2.51 | Accent Q | oz | 18.15 |
| Approach Prima | pt | 28.00 | Acuron | oz | 0.51 |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022 (continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|----------------------|------|---------|----------------------|------|---------|
| | | dollars | | | dollars |
| Aim | oz | 5.79 | Harmony Extra SG | oz | 10.86 |
| Anthem Flex | oz | 3.57 | Helmet | oz | 0.41 |
| Anthem Maxx | oz | 5.38 | Huskie | oz | 0.82 |
| Armezon Pro | oz | 0.92 | Impact | oz | 15.32 |
| Atrazine 4L | pt | 1.67 | Intimidator | oz | 0.64 |
| Atrazine 90DF | lb | 3.36 | Leadoff | oz | 6.00 |
| Authority First | lb | 68.23 | League | oz | 4.39 |
| Authority Elite | pt | 13.75 | Lexar | pt | 6.79 |
| Authority Maxx | lb | 68.82 | Liberty 280 | oz | 0.59 |
| Authority MTZ | lb | 20.63 | Loyant | oz | 2.29 |
| Avatar | pt | 9.62 | Makaze | oz | 0.21 |
| Avenger | pt | 11.75 | Metolachlor | pt | 5.02 |
| Axial XL | oz | 1.10 | Metribuzin 4L | pt | 8.25 |
| Axiom | oz | 2.06 | Metribuzin 75 | lb | 14.73 |
| Banvel | pt | 4.81 | MSMA | pt | 3.42 |
| Barrage | pt | 5.36 | Newpath | oz | 3.84 |
| Basagran | pt | 5.43 | Obey | oz | 1.01 |
| Boundary | pt | 10.45 | Osprey | oz | 4.00 |
| Brake | oz | 1.48 | Outlook | pt | 13.88 |
| Broadaxe | pt | 13.95 | Panther Pro | oz | 6.61 |
| Broadhead | lb | 58.21 | Parallel | pt | 4.01 |
| Buccaneer Plus | pt | 2.97 | Paraquat | oz | 0.16 |
| Bucril | pt | 4.28 | Parazone 3SL | oz | 0.18 |
| Butyrac 200 (2,4-DB) | pt | 2.90 | Permit | oz | 21.96 |
| Cadre | oz | 3.33 | Permit Plus | oz | 21.96 |
| Canopy | oz | 2.91 | PowerFlex | oz | 7.00 |
| Caparol | pt | 4.87 | Preface | oz | 4.99 |
| Capreno | oz | 3.96 | Prefix | pt | 6.17 |
| Cinch | pt | 14.18 | Provisia | oz | 0.76 |
| Cinch ATZ | pt | 5.96 | Prowl 3.3 EC | pt | 5.69 |
| Clarity | pt | 11.00 | Quelex | oz | 7.42 |
| Classic | oz | 12.00 | RealmQ | oz | 5.34 |
| Clearpath | oz | 4.06 | RebelEx | oz | 2.00 |
| Clethodim 2E | oz | 0.50 | Reflex | pt | 6.71 |
| Clincher SF | oz | 2.56 | Regiment | oz | 45.50 |
| Cobra | oz | 1.23 | Resicore | oz | 0.60 |
| Command 3ME | pt | 18.00 | Resource | oz | 2.11 |
| Corvus | oz | 4.69 | RiceBeaux | pt | 5.38 |
| Cotoran | pt | 5.79 | Riceshot | pt | 4.92 |
| Cotton Pro | pt | 3.45 | Ricestar HT | pt | 26.88 |
| Dicamba | pt | 6.35 | Ringside | pt | 5.63 |
| Direx | pt | 2.44 | Roundup Power Max | oz | 0.20 |
| Diuron | pt | 3.50 | Roundup PowerMax | pt | 3.24 |
| Dual II Magnum | pt | 11.15 | Roundup PowerMax ii | oz | 0.19 |
| Dual Magnum | pt | 10.02 | Roundup Pro | pt | 0.20 |
| Duet | pt | 6.22 | Scepter 70 DG | oz | 4.64 |
| Engenia | oz | 0.83 | Select Max | pt | 12.73 |
| Envive | oz | 4.06 | Sencor/Tricor.Metrib | lb | 23.95 |
| Envoke | oz | 0.80 | Sequence | pt | 5.72 |
| Facet L | pt | 14.83 | Sharpen | oz | 5.99 |
| Fierce | oz | 6.50 | Sinister | pt | 13.77 |
| Fierce XLT | oz | 3.91 | Sonic | oz | 4.04 |
| Finesse | oz | 12.45 | Stalwart | pt | 3.82 |
| Firestorm | pt | 3.44 | Stam 80 EDF | lb | 9.45 |
| First Rate | oz | 37.79 | Stam M4 | qt | 10.83 |
| Flexstar | pt | 7.34 | Staple LX | oz | 7.89 |
| Flexstar GT | pt | 4.73 | Storm | pt | 11.16 |
| Fusilade DX | oz | 0.88 | Strada | oz | 5.88 |
| Gambit | oz | 16.50 | Strada Pro | oz | 6.56 |
| Glyphosate 3lbs a.e | pt | 1.81 | Strada XT2 | pt | 3.26 |
| Glyphosate 3lbs a.e | oz | 0.11 | Superwham | qt | 10.07 |
| Goal 2XL | pt | 8.69 | Suprend | lb | 13.52 |
| Gramoxone SL 2.0 | oz | 0.19 | SureStart II | oz | 0.39 |
| Grandstand R | pt | 17.79 | Surveil | oz | 6.70 |
| Grasp | oz | 12.07 | Synchrony XP | oz | 11.26 |
| Grasp Xtra | oz | 1.61 | Tempest | pt | 19.50 |
| Halex GT | pt | 5.82 | Touchdown Total | qt | 10.21 |
| Halomax | oz | 21.11 | Treflan | pt | 2.50 |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2022 (continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|-----------------------|------|---------|----------------------|--------|---------|
| | | dollars | | | dollars |
| Trifluralin | pt | 3.73 | Malathion 8E | pt | 9.84 |
| Triflurex | pt | 3.47 | Mustang Max | oz | 0.97 |
| Ultra Blazer | pt | 5.25 | Nuprid 4F | oz | 0.94 |
| Valor EZ | oz | 4.71 | Oberon | oz | 2.78 |
| Valor SX | oz | 3.60 | Orthene 90 | lb | 11.15 |
| Valor XLT | oz | 3.45 | Permethrin | oz | 0.40 |
| Vamos | pt | 6.49 | Portal XLO | oz | 0.74 |
| Verdict | oz | 1.54 | Pounce 25WP | lb | 19.52 |
| Veritas | pt | 7.49 | Prevathon | oz | 1.05 |
| Villain | pt | 5.24 | Python WDG | oz | 19.80 |
| Volunteer | pt | 10.63 | Radiant | oz | 8.28 |
| Warrant | pt | 3.97 | Sevin 4F | pt | 56.11 |
| XtendiMax | oz | 0.42 | Sevin XLR Plus | qt | 16.01 |
| Zidua DF | oz | 8.76 | Sivanto Prime | oz | 3.24 |
| Zidua SC | oz | 4.93 | Tempest | oz | 1.70 |
| INOCULANT | | | Transform WG | oz | 7.63 |
| Inoculant-Soybean | acre | 1.55 | Up-Cyde | oz | 0.36 |
| Optimize LIFT | oz | 0.50 | Warrior ZT | oz | 2.74 |
| INSECTICIDES | | | Zeal | oz | 8.42 |
| Abamectin .15EC | oz | 1.75 | IRRIGATION SUPPLIES | | |
| Acephate 90% | lb | 9.87 | Roll-Out Pipe | ft | 0.24 |
| Acephate 90SP | lb | 8.58 | SEED/PLANTS | | |
| Admire Pro | oz | 1.57 | Corn Seed BtRR | thous | 3.75 |
| Agri-Mek | oz | 2.66 | Corn Seed Conv. | thous | 1.93 |
| Asana .66 XL | oz | 0.63 | Corn Seed Op Leptra | thous | 3.66 |
| Avenger | oz | 0.28 | Corn Seed RR2 | thous | 3.25 |
| Baythroid XL | oz | 1.04 | Corn Seed VT2P | thous | 3.63 |
| Belt | oz | 6.80 | Cot. Seed B3XF/W3FE | thous | 2.59 |
| Besiege | oz | 2.38 | Cotton Seed B3XF | thous | 2.59 |
| Bidrin 8EC | oz | 1.34 | Cotton Seed GLB2 | thous | 2.05 |
| Bifenthrin | oz | 0.86 | Cotton Seed W3FE | thous | 2.59 |
| Bifenture 2EC | oz | 0.51 | Cotton Seed W3RF | thous | 1.98 |
| Brigade EC | pt | 18.77 | Peanut Seed | lb | 0.84 |
| Capture LFR | oz | 1.37 | Rice Conv Hyb Trt | lb | 6.60 |
| Centric 40WG | oz | 4.97 | Rice Fullpage Hyb Tr | lb | 7.37 |
| Cypermethrin | oz | 1.31 | Rice Seed CF(Levees) | lb | 1.03 |
| Declare | oz | 1.95 | Rice Seed Clearfield | lb | 1.03 |
| Diamond .83EC | oz | 1.28 | Rice Seed Conv. | lb | 0.32 |
| Dimethoate 4E | pt | 5.65 | Rice Seed Cv(Levees) | lb | 0.32 |
| Dimilin 2L | oz | 1.70 | Rice Seed CvH(Levee) | lb | 1.93 |
| Endigo | oz | 1.53 | Rice Seed FPH(Levee) | lb | 2.67 |
| Force 3G | lb | 7.28 | Rice Seed Provisia | lb | 1.25 |
| Hero | oz | 1.09 | Rice Seed Trt/Insect | lbseed | 0.29 |
| Imidacloprid 4F | oz | 0.78 | Sorghum Concept | lb | 3.10 |
| Imidan 70 WSB | oz | 0.79 | Sorghum Concept+ Po | lb | 3.72 |
| IncidentalPestTrt \$8 | acre | 8.00 | Soybean Enlist E3 | lb | 1.20 |
| IncidentalPestTrt\$15 | acre | 15.00 | Soybean Seed LL | lb | 1.16 |
| IncidentalPestTrt\$22 | acre | 22.00 | Soybean Seed RR2 | lb | 1.16 |
| IncidentalPestTrt\$30 | acre | 30.00 | Soybean Seed RR2X | lb | 1.34 |
| Intrepid 2F | oz | 1.91 | Wheat Seed Private | lb | 0.28 |
| Intruder 70WSP | oz | 1.13 | SOIL TEST | | |
| Lambda | oz | 1.88 | Soil Test | acre | 10.00 |
| Lannate LV | pt | 9.30 | SURVEY & MARK LEVEES | | |
| Macho | oz | 0.47 | Survey & Mark Levees | acre | 4.50 |
| | | | Survey & Mark Levees | acre | 4.50 |

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2022

| ITEM NAME | UNIT | PRICE |
|-------------------|------|-------|
| dollars | | |
| FUEL TYPES | | |
| Diesel Fuel | gal | 2.36 |
| Gasoline | gal | 2.81 |
| INTEREST RATES | | |
| Short-term | % | 3.50 |
| Intermediate-term | % | 4.00 |

Appendix Table 6. Labor types, wage rates and unallocated labor
Multipliers for crop enterprises, Mississippi, 2022

| Item name | Unit | Wage Rate |
|---------------------|-----------------------------------|-----------|
| OPERATOR LABOR | hour | 15.27 |
| IRRIGATE LABOR | hour | 9.06 |
| HAND LABOR | hour | 9.06 |
| HAND. & STOR. LABOR | hour | 9.06 |
| RICE MGT. LABOR | hour | 9.06 |
| CROP ENTERPRISE | UNALLOCATED LABOR MULTIPLIERS (%) | |
| Corn | | 90 |
| Cotton | | 80 |
| Grain Sorghum | | 90 |
| Peanuts | | 80 |
| Rice | | 90 |
| Soybeans | | 90 |
| Wheat | | 80 |

Appendix Table 7. Futures contract prices, basis levels,
forward contract prices, and loan rates
used in row crop budgets, Mississippi, 2022

| Crop | unit | Futures Contract Month | Futures Contract Price ^a | Basis ^b | Forward Contract Price ^c | Loan Rate ^d | Budget Price ^e |
|---------------|------|------------------------------|---|--------------------|---|------------------------|------------------------------|
| Corn | bu | Dec '22 | 5.31 | -0.14 | 5.17 | 2.35 | 5.17 |
| Cotton Lint | lb | Dec '22 | 0.87 | -0.016 | 0.8544 | 0.52 | 0.8544 |
| Cottonseed | lb | | | | | | 0.11 ^f |
| Grain Sorghum | bu | | | | 4.91 | 4.09 | 4.91 |
| Peanuts | ton | | | | 430.00 | 354.895 | 430.00 |
| Soybeans | bu | Nov '22 | 12.45 | 0.01 | 12.46 | 6.41 | 12.46 |
| Rice | bu | Nov '22 | 6.16 | -0.36 | 5.80 | 3.21 | 5.80 |
| Wheat | bu | Jul '22 | 7.44 | 0.16 | 7.28 | 3.60 | 7.28 |

^a Average of the daily closing futures contract prices during the first 5 trading days in October 2021 for the stated contract months.

^b Basis is the cash price minus the futures contract price for the stated contract month. The reported basis is a daily average from 2009 to 2020 for corn, soybeans and wheat at Greenville, MS. Rice basis is a weekly average price for river point delivery. June harvest delivery for wheat. September harvest delivery for corn, rice and soybeans. October harvest delivery for cotton.

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

^d Average Mississippi County CCC Loan Rate for 2021 crop year for corn, grain sorghum, soybeans and wheat. Mississippi CCC 2021 Farm-stored Loan Rate for long grain rough rice. National 2021 Upland Cotton Marketing Assistance Loan Base Rate for cotton lint.

^e Price used in MSU Extension Service Planning Budgets.

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

Appendix Table 8 Estimated costs for field operations, per acre
 Cotton irrigated with center pivot
 135-acre 1/4-mile pivot system, 7.5 ac-in., Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|-------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Set Up Engine | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.27 | | | | 0.27 | 0.27 |
| Maintenance | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.07 | | 0.02 | | 1.09 | 1.09 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.15 | | | | 0.15 | 0.15 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.20 | | | | 0.20 | 0.20 |
| Apply Water | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.15 | | | | 0.15 | 0.15 |
| Pivot, 1/4 CP | each | | | 13.48 | | | | 0.20 | 13.68 | 49.60 |
| Well & Pump, 1/4 CP | each | | | 3.50 | | | | 0.05 | 3.55 | 9.34 |
| Engine, 1/4 CP, 65 | each | | | | | | | | | 9.76 |
| June Irr. 3app@.75" | ac-in | | 7.93 | 1.49 | | | | 0.14 | 9.56 | 9.56 |
| July Irr. 4app@.75" | ac-in | | 10.57 | 1.99 | | | | 0.15 | 12.71 | 12.71 |
| Aug Irr. 3app@.75" | ac-in | | 7.93 | 1.49 | | | | 0.08 | 9.50 | 9.50 |
| TOTALS | | 0.00 | 26.43 | 21.95 | 1.84 | 0.00 | 0.64 | | 50.86 | 68.70 |

Note: Cost of production estimates are based on 2021 input prices.

Appendix Table 9 Estimated costs for field operations, per acre
 Irrigation with a 1/4-mile center pivot system
 135-acre system, 7.5 ac-in., Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | | |
| -----dollars----- | | | | | | | | | |
| Set Up Engine | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.27 | | | 0.27 | 0.27 |
| Maintenance | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 1.07 | | 0.02 | 1.09 | 1.09 |
| Apply Water | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.15 | | | 0.15 | 0.15 |
| Apply Water | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.20 | | | 0.20 | 0.20 |
| Apply Water | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.15 | | | 0.15 | 0.15 |
| Pivot, 1/4 CP | each | | | 13.48 | | | 0.20 | 13.68 | 49.60 |
| Well & Pump, 1/4 CP | each | | | 3.50 | | | 0.05 | 3.55 | 9.34 |
| Engine, 1/4 CP, 65 | each | | | | | | | | 9.76 |
| June Irr. 3app@.75" | ac-in | | 7.93 | 1.49 | | | 0.14 | 9.56 | 9.56 |
| July Irr. 4app@.75" | ac-in | | 10.57 | 1.99 | | | 0.15 | 12.71 | 12.71 |
| Aug Irr. 3app@.75" | ac-in | | 7.93 | 1.49 | | | 0.08 | 9.50 | 9.50 |
| TOTALS | | 0.00 | 26.43 | 21.95 | 1.84 | 0.00 | 0.64 | 50.86 | 68.70 |

Note: Cost of production estimates are based on 2021 input prices.

Appendix Table 10 Estimated costs for field operations, per acre
 Peanuts irrigated with roll-out pipe
 160-acre system, 12 ac-in., Delta Area, Mississippi, 2022

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|------|-------|-------|-------|-------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Land Plane | 50'x16' | | 0.88 | 0.32 | 0.58 | | | 0.06 | 1.84 | 1.65 | 3.49 |
| Set Up Engine | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Ditcher (1m/160a) | | | 0.19 | 0.07 | 0.14 | | | 0.01 | 0.41 | 0.31 | 0.72 |
| Roll-Out Pipe | ft | 7.92 | | | | | | 0.12 | 8.04 | | 8.04 |
| Lay Roll-out Pipe | | | | | | | | | | | |
| Pipe Spool 160ac | 1/4m roll | | 0.26 | 0.11 | 0.42 | | | 0.01 | 0.80 | 0.85 | 1.65 |
| IRRIGATE LABOR | hour | | | | 1.81 | | | 0.03 | 1.84 | | 1.84 |
| Apply Water | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Apply Water | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Apply Water | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Apply Water | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Pick Up Pipe | | | | | | | | | | | |
| Pipe Spool 160ac | 1/4m roll | | 0.39 | 0.17 | 0.63 | | | 0.01 | 1.20 | 1.27 | 2.47 |
| Land Forming (\$450) | each | | | | | | | | | 28.81 | 28.81 |
| Well & Pump, Furrow | each | | | 2.96 | | | | 0.04 | 3.00 | 7.88 | 10.88 |
| Main Line Pipe | each | | | | | | | | | 4.36 | 4.36 |
| Engine, RPF, PNUT | each | | | | | | | | | 8.23 | 8.23 |
| 1st July Irrigation | ac-in | | 5.77 | 1.05 | | | | 0.08 | 6.90 | | 6.90 |
| 1st Aug Irrigation | ac-in | | 5.77 | 1.05 | | | | 0.06 | 6.88 | | 6.88 |
| 2nd Aug Irrigation | ac-in | | 5.77 | 1.05 | | | | 0.06 | 6.88 | | 6.88 |
| 1st Sep Irrigation | ac-in | | 5.77 | 1.05 | | | | 0.04 | 6.86 | | 6.86 |
| TOTALS | | 7.92 | 24.80 | 7.83 | 4.73 | 0.00 | | 0.52 | 45.80 | 53.36 | 99.16 |

Note: Cost of production estimates are based on 2021 input prices.

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