

Corn, Grain Sorghum, & Wheat 2016 Planning Budgets



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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 2016 planning decisions. This would be a 1-year short-run decision. Decisions beyond 1 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.

We acknowledge 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.

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2016 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 to provide educational programs to farmers,
- by lenders as a basis for credit,
- to provide basic data for research, and
- to inform nonfarmers 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. You 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 your specific situation.

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. The Mississippi Agricultural Statistics Service conducts a survey of producers of major field crops in Mississippi. Data collected from producers are a part of the information used in selecting the practices included in each budget.

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 survey data from producers and/or 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 2015. (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 that computes the annual capital recovery charge (2, p. 143). When a combination of machines or equipment is required to perform a single operation, the total cost per acre for all equipment used in the operation is estimated. The fixed cost of machinery ownership is calculated by first computing the capital recovery factor and then using it to estimate the annual capital recovery charge.

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

where:

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

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

where:

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

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

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

$$CRCPA = CRCPH \times PR$$

where:

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

Estimates of Returns

It is difficult to estimate crop yields that may be expected 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 committee. 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 2015 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 month of September. The basis is determined by subtracting the average daily cash price for the month of September from the average daily closing price of the near contract month. These average futures prices and the basis adjustments are presented in Appendix Table 7.

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

Irrigation Costs

Estimated costs of various irrigation systems are presented in Appendix Tables 8, 9, and 10. A dryland crop budget may be converted to an irrigated crop budget by adding the appropriate direct and fixed costs to the costs of the dryland crop. Also, adjustments in crop yields and other costs may be required with the addition of supplemental irrigation.

Net Returns

Net returns are generally considered to be the amount left after subtracting all costs from all incomes for a particular enterprise. In these budgets, "RETURNS ABOVE DIRECT EXPENSES" and "RETURNS ABOVE TOTAL SPECIFIED EXPENSES" are used as a proxy for the economic concepts of net returns above variable costs and net returns above variable plus fixed costs, respectively. Some items are intentionally left out of these calculations (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. You should, however, consider these items and factor them into the final budget for your own situation.

Literature Cited

1. Agricultural Engineers Yearbook of Standards. American Society of Agricultural Engineers, St. Joseph, Michigan.
2. Boehlje, M.D. and V.R. Eidman. *Farm Management*. New York: John Wiley and Sons, 1984.
3. Bolton, Bill, J.B. Penn, Fred T. Cooke Jr., and Arthur M. Heagler. "Days Suitable for Fieldwork, Mississippi River Delta Cotton Area." D.A.E. Research Report No. 384, Louisiana State University, November 1968.
4. "Budgets for Major Farm Enterprises in the Mississippi River Delta of Arkansas, Louisiana, and Mississippi." D.A.E. Circular No. 281, Department of Agricultural Economics and Agribusiness, Agricultural Experiment Station, Louisiana State University, June 1961
5. Caillavet, DeWitt F. "An Economic Assessment of Production Alternatives Resulting From Changes in the Machinery Complement of Representative Farms in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, May 1984.
6. Cooke, Fred T. Jr., J.M. Anderson, and Arthur M. Heagler. "Crop Budgets and Planning Data for Major Farm Enterprises in the Yazoo-Mississippi Delta." Mississippi Agricultural and Forestry Experiment Station Bulletin 794, July 1972.
7. Cooke, Fred T. Jr., J.M. Anderson, D.W. Parvin Jr., A.M. Heagler, Kenneth Paxton, Shelby Holders Jr., and James G. Hamill. "Crop Budgets and Planning Data for Major Farm Enterprises in the Mississippi-Louisiana Delta, 1975." Mississippi Agricultural and Forestry Experiment Station Bulletin 834, May 1975.
8. "Corn, Grain Sorghum & Wheat 2014 Planning Budgets." Budget Report No. 2013-03, Department of Agricultural Economics, Mississippi State University, December 2013.
9. "Costs of Producing Selected Crops in the U.S., 1974." Senate Committee Project No. 63-092, Committee on Agriculture and Forestry, U.S. Senate, January 8, 1976.
10. "Cotton 2014 Planning Budgets." Budget Report No. 2013-01, Department of Agricultural Economics, Mississippi State University, December 2013.
11. Cox, Laura Rebecca. "Overhead Labor Cost in the Delta Area of Mississippi." Master of Science Thesis, Department of Agricultural Economics, Mississippi State University, October 1982.
12. "Forage 2012 Planning Budgets." Budget Report No. 2012-01, Department of Agricultural Economics, Mississippi State University, May 2012.
13. Laughlin, David H. and Robert K. Mehrle. "An Economic Evaluation: Straight Versus Contour Levee Rice Production Practices in Mississippi." Mississippi Agricultural and Forestry Experiment Station Bulletin 1063. December 1996.
14. Laughlin, David H. and Stan Spurlock. "User's Guide for the Mississippi State Budget Generator Version 6.0 for Windows." AEC Staff Report No. 2003-01, Department of Agricultural Economics, Mississippi State University, March 2003.
15. "Mississippi Agricultural Statistics." Mississippi Department of Agriculture and Commerce and Department of Agriculture, Mississippi Agriculture Statistical Service, Jackson, Mississippi.
16. "Rice 2015 Planning Budgets." Budget Report No. 2014-04, Department of Agricultural Economics, Mississippi State University, October 2014.
17. "Soybeans 2015 Planning Budgets." Budget Report No. 2014-02, Department of Agricultural Economics, Mississippi State University, October 2014.
18. "Vegetables 2015 Planning Budgets." Budget Report No. 2014-08, Department of Agricultural Economics, Mississippi State University, December 2014.
19. "Peanuts 2015 Planning Budgets." Budget Report No. 2014-07, Department of Agricultural Economics, Mississippi State University, October 2014.

Enterprise Budgets

Table 1.A Estimated costs per acre
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 0.2000 | 1.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.8000 | 50.67 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 1.5000 | 31.91 | _____ |
| Fert 10-34-0 | cwt | 32.50 | 0.5000 | 16.25 | _____ |
| Zinc Plus | pt | 3.00 | 2.0000 | 6.00 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 3.5710 | 58.31 | _____ |
| UAN (32% N) | cwt | 15.95 | 4.3750 | 69.78 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.14 | 32.0000 | 4.48 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Select Max | pt | 12.35 | 1.0000 | 12.35 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.89 | 1.2800 | 1.14 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| Roll-Out Pipe | ft | 0.26 | 33.0000 | 8.58 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed B2RR | thous | 3.27 | 34.0000 | 111.18 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 210.0000 | 48.30 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.4239 | 5.70 | _____ |
| Harvesters | hour | 13.40 | 0.1009 | 1.35 | _____ |
| 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 | 0.1354 | 1.22 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.36 | 0.4017 | 5.37 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 4.6431 | 9.29 | _____ |
| Harvesters | gal | 2.00 | 1.6890 | 3.38 | _____ |
| Roll-Out Pipe Irr. | gal | 2.00 | 10.5901 | 21.20 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.56 | 1.0000 | 7.56 | _____ |
| Tractors | acre | 2.81 | 1.0000 | 2.81 | _____ |
| Harvesters | acre | 3.49 | 1.0000 | 3.49 | _____ |
| Roll-Out Pipe Irr. | acre | 6.36 | 1.0000 | 6.36 | _____ |
| INTEREST ON OP. CAP. | acre | 14.80 | 1.0000 | 14.80 | _____ |
| TOTAL DIRECT EXPENSES | | | | 600.73 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 11.53 | 1.0000 | 11.53 | _____ |
| Tractors | acre | 17.58 | 1.0000 | 17.58 | _____ |
| Harvesters | acre | 13.78 | 1.0000 | 13.78 | _____ |
| Roll-Out Pipe Irr. | acre | 52.50 | 1.0000 | 52.50 | _____ |
| TOTAL FIXED EXPENSES | | | | 95.39 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 696.12 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 210.0000 | 814.80 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 814.80 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 7.50 | 1.0000 | 7.50 | _____ |
| FERTILIZERS | acre | 232.92 | 1.0000 | 232.92 | _____ |
| HERBICIDES | acre | 57.39 | 1.0000 | 57.39 | _____ |
| INSECTICIDES | acre | 1.14 | 1.0000 | 1.14 | _____ |
| IRRIGATION SUPPLIES | acre | 8.58 | 1.0000 | 8.58 | _____ |
| SEED/PLANTS | acre | 111.18 | 1.0000 | 111.18 | _____ |
| CUSTOM FERTILIZE | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | acre | 48.30 | 1.0000 | 48.30 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1354 | 1.22 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.3875 | 3.53 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.5249 | 7.05 | _____ |
| UNALLOCATED LABOR | hour | 13.36 | 0.4017 | 5.37 | _____ |
| DIESEL FUEL | gal | 2.00 | 16.9223 | 33.87 | _____ |
| REPAIR & MAINTENANCE | acre | 20.22 | 1.0000 | 20.22 | _____ |
| INTEREST ON OP. CAP. | acre | 14.80 | 1.0000 | 14.80 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 600.73 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 214.07 | _____ |
| TOTAL FIXED EXPENSES | | | | 95.39 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 696.12 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 118.68 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| 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 |
| DAP | cwt | | | | | 1.8000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| 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 & Pre-Folding | 12R-38 | MFWD 225 | 0.053 | 1.00 | Mar | | 0.05 | 0.05 | 0.10 | 0.04 |
| Corn Seed B2RR | thous | | | | | 34.0000 | | | | |
| Fert 10-34-0 | cwt | | | | | 0.5000 | | | | |
| Zinc Plus | pt | | | | | 2.0000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| UAN + Sulfur (28%) | cwt | | | | | 3.5710 | | | | |
| Spray (Broadcast) | 60' | MFWD 225 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Atrazine 4L | pt | | | | | 4.0000 | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32% N) | cwt | | | | | 4.3750 | | | | |
| App by Air (3 gal) | appl | | | 0.20 | May | 0.2000 | | | | |
| Bifenthrin | oz | | | | | 1.2800 | | | | |
| Header - Corn | 8R-38 | 325 hp | 0.100 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Grain Cart Corn | 700 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 210.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| Roll-Out Pipe Irr. | acre | | | | Jul | 1.0000 | 0.07 | 0.07 | 0.46 | |
| TOTALS | | | | | | | 0.52 | 0.52 | 1.04 | 0.40 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | | |
| -----dollars----- | | | | | | | | | |
| Soil Test | acre | 3.30 | | | | | 0.15 | 3.45 | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | 1.37 | 31.73 | 31.73 |
| Spin Spreader | 5 ton | | 0.97 | 0.59 | 1.45 | | 0.14 | 3.15 | 2.47 5.62 |
| DAP | cwt | 50.67 | | | | | 2.28 | 52.95 | 52.95 |
| Potash (60% K2O) | cwt | 31.91 | | | | | 1.44 | 33.35 | 33.35 |
| Bed/Disk w/roller | 12R-30/40 | | 1.45 | 1.18 | 1.59 | | 0.19 | 4.41 | 4.73 9.14 |
| App by Air (5 gal) | appl | 6.50 | | | | | 0.19 | 6.69 | 6.69 |
| Glyphosate 3lbs a.e | oz | 4.48 | | | | | 0.13 | 4.61 | 4.61 |
| Clarity | pt | 6.45 | | | | | 0.19 | 6.64 | 6.64 |
| Select Max | pt | 12.35 | | | | | 0.37 | 12.72 | 12.72 |
| Plant & Pre-Folding | 12R-38 | | 1.24 | 1.96 | 1.84 | | 0.13 | 5.17 | 5.42 10.59 |
| Corn Seed B2RR | thous | 111.18 | | | | | 2.92 | 114.10 | 114.10 |
| Fert 10-34-0 | cwt | 16.25 | | | | | 0.43 | 16.68 | 16.68 |
| Zinc Plus | pt | 6.00 | | | | | 0.16 | 6.16 | 6.16 |
| Custom Apply Fert | acre | 7.00 | | | | | 0.16 | 7.16 | 7.16 |
| UAN + Sulfur (28%) | cwt | 58.31 | | | | | 1.31 | 59.62 | 59.62 |
| Spray (Broadcast) | 60' | | 0.65 | 0.44 | 0.85 | | 0.04 | 1.98 | 1.56 3.54 |
| Atrazine 4L | pt | 8.12 | | | | | 0.18 | 8.30 | 8.30 |
| Halex GT | pt | 25.99 | | | | | 0.58 | 26.57 | 26.57 |
| Corn Consultant | acre | 7.00 | | | | | 0.13 | 7.13 | 7.13 |
| Fert Appl (Liquid) | 12R-38 | | 1.20 | 0.97 | 1.54 | | 0.07 | 3.78 | 3.00 6.78 |
| UAN (32% N) | cwt | 69.78 | | | | | 1.31 | 71.09 | 71.09 |
| App by Air (3 gal) | appl | 1.00 | | | | | 0.02 | 1.02 | 1.02 |
| Bifenthrin | oz | 1.14 | | | | | 0.02 | 1.16 | 1.16 |
| Header - Corn | 8R-38 | | 3.38 | 4.98 | 2.57 | | 0.04 | 10.97 | 16.03 27.00 |
| Grain Cart Corn | 700 bu | | 0.58 | 0.43 | 0.64 | | 0.01 | 1.66 | 1.55 3.21 |
| Haul Corn | bu | 48.30 | | | | | 0.18 | 48.48 | 48.48 |
| Stalk Shredder Flex | 20' | | 1.91 | 2.77 | 2.10 | | 0.03 | 6.81 | 5.02 11.83 |
| Roll-Out Pipe Irr. | acre | 8.58 | 22.49 | 6.90 | 4.59 | | 0.63 | 43.19 | 55.61 98.80 |
| TOTALS | | 514.67 | 33.87 | 20.22 | 17.17 | 0.00 | 14.80 | 600.73 | 95.39 696.12 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 814.80 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 82.58 | 0.00 | 0.00 | 0.00 | 0.00 | 22.25 | 58.31 | 69.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 23.28 | 0.00 | 34.11 | 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 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| IRRIGATION SUPPLIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.58 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 111.18 | 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 | 7.00 | 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 | 48.30 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 3.55 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 0.85 | 1.77 | 3.03 | 0.23 | 0.59 | 5.31 |
| 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 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.65 | 1.20 | 16.20 | 5.30 | 0.25 | 5.87 |
| REPAIR & MAINTENANCE | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.44 | 0.97 | 5.50 | 0.98 | 0.10 | 8.18 |
| INTEREST ON OP. CAP. | 5.64 | 0.00 | 0.00 | 0.00 | 0.88 | 3.64 | 2.27 | 1.55 | 0.48 | 0.07 | 0.01 | 0.26 |
| TOTAL DIRECT EXPENSES | 130.68 | 0.00 | 0.00 | 0.00 | 30.66 | 142.11 | 103.63 | 84.41 | 33.79 | 6.58 | 0.95 | 67.92 |
| NET INCOME | -130.68 | 0.00 | 0.00 | 0.00 | -30.66 | -142.11 | -103.63 | -84.41 | -33.79 | -6.58 | -0.95 | 746.88 |
| NET INCOME TO DATE | -130.68 | -130.68 | -130.68 | -130.68 | -161.34 | -303.45 | -407.08 | -491.49 | -525.28 | -531.86 | -532.81 | 214.07 |

Note: Cost of production estimates are based on 2015 input prices.

Fertilization decisions should be based on soil tests.

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

Lime cost prorated for application every 3rd year.

* Lease costs are based on hourly usage costs.

Table 1.F Estimated returns for various price/yield combinations, per acre
 Corn, stale seeded, B2RR, 12-row 38", 210 bu yield goal
 Furrow Irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| PRODUCT | PERCENT | | | | | | | | | | PRODUCT PRICE | YIELD | UNIT | dollars |
|---------|---------|------|------|------|------|------|------|------|------|------|---------------|-------|------|---------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | | | | |
| Corn | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | | | |
| 50 | 105.00 | bu | -270 | -250 | -230 | -209 | -189 | -169 | -148 | -128 | -107 | -87 | -67 | -162 |
| | | | -366 | -345 | -325 | -305 | -284 | -264 | -244 | -223 | -203 | -183 | -162 | |
| 60 | 126.00 | bu | -214 | -190 | -165 | -141 | -116 | -92 | -68 | -43 | -19 | 5 | 29 | -65 |
| | | | -310 | -285 | -261 | -236 | -212 | -187 | -163 | -138 | -114 | -90 | -65 | |
| 70 | 147.00 | bu | -158 | -129 | -101 | -72 | -44 | -15 | 12 | 41 | 69 | 98 | 126 | 31 |
| | | | -253 | -225 | -196 | -168 | -139 | -111 | -82 | -54 | -25 | 2 | 31 | |
| 80 | 168.00 | bu | -102 | -69 | -36 | -4 | 28 | 60 | 93 | 125 | 158 | 191 | 223 | 128 |
| | | | -197 | -164 | -132 | -99 | -67 | -34 | -1 | 30 | 63 | 95 | 128 | |
| 90 | 189.00 | bu | -45 | -9 | 27 | 64 | 100 | 137 | 174 | 210 | 247 | 284 | 320 | 225 |
| | | | -141 | -104 | -67 | -31 | 5 | 42 | 78 | 115 | 152 | 188 | 225 | |
| 100 | 210.00 | bu | 10 | 51 | 91 | 132 | 173 | 214 | 254 | 295 | 336 | 377 | 417 | 322 |
| | | | -85 | -44 | -3 | 37 | 77 | 118 | 159 | 200 | 240 | 281 | 322 | |
| 110 | 231.00 | bu | 66 | 111 | 156 | 201 | 245 | 290 | 335 | 380 | 425 | 469 | 514 | 419 |
| | | | -28 | 16 | 60 | 105 | 150 | 195 | 240 | 284 | 329 | 374 | 419 | |
| 120 | 252.00 | bu | 122 | 171 | 220 | 269 | 318 | 367 | 416 | 465 | 513 | 562 | 611 | 516 |
| | | | 27 | 76 | 125 | 174 | 223 | 271 | 320 | 369 | 418 | 467 | 516 | |
| 130 | 273.00 | bu | 179 | 232 | 285 | 338 | 391 | 443 | 496 | 549 | 602 | 655 | 708 | 613 |
| | | | 83 | 136 | 189 | 242 | 295 | 348 | 401 | 454 | 507 | 560 | 613 | |
| 140 | 294.00 | bu | 235 | 292 | 349 | 406 | 463 | 520 | 577 | 634 | 691 | 748 | 805 | 710 |
| | | | 140 | 197 | 254 | 311 | 368 | 425 | 482 | 539 | 596 | 653 | 710 | |
| 150 | 315.00 | bu | 291 | 352 | 413 | 475 | 536 | 597 | 658 | 719 | 780 | 841 | 902 | 807 |
| | | | 196 | 257 | 318 | 379 | 440 | 501 | 562 | 624 | 685 | 746 | 807 | |

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 2015 input prices

Table 2.A Estimated costs per acre
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 0.2000 | 1.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.0870 | 30.60 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 0.8300 | 17.65 | _____ |
| Fert 10-34-0 | cwt | 32.50 | 0.5000 | 16.25 | _____ |
| Zinc Plus | pt | 3.00 | 2.0000 | 6.00 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 2.1430 | 35.00 | _____ |
| UAN (32% N) | cwt | 15.95 | 3.2815 | 52.34 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.14 | 32.0000 | 4.48 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Select Max | pt | 12.35 | 1.0000 | 12.35 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| INSECTICIDES | | | | | |
| Bifenthrin | oz | 0.89 | 1.2800 | 1.14 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed B2RR | thous | 3.27 | 28.0000 | 91.56 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 150.0000 | 34.50 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.3454 | 4.64 | _____ |
| Harvesters | hour | 13.40 | 0.1009 | 1.35 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1354 | 1.22 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.36 | 0.4017 | 5.37 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 4.0005 | 8.00 | _____ |
| Harvesters | gal | 2.00 | 1.3770 | 2.75 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.36 | 1.0000 | 7.36 | _____ |
| Tractors | acre | 2.47 | 1.0000 | 2.47 | _____ |
| Harvesters | acre | 3.31 | 1.0000 | 3.31 | _____ |
| INTEREST ON OP. CAP. | acre | 11.20 | 1.0000 | 11.20 | _____ |
| TOTAL DIRECT EXPENSES | | | | 445.26 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 10.50 | 1.0000 | 10.50 | _____ |
| Tractors | acre | 15.50 | 1.0000 | 15.50 | _____ |
| Harvesters | acre | 13.07 | 1.0000 | 13.07 | _____ |
| TOTAL FIXED EXPENSES | | | | 39.07 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 484.33 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 150.0000 | 582.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 582.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 7.50 | 1.0000 | 7.50 | _____ |
| FERTILIZERS | acre | 157.84 | 1.0000 | 157.84 | _____ |
| HERBICIDES | acre | 57.39 | 1.0000 | 57.39 | _____ |
| INSECTICIDES | acre | 1.14 | 1.0000 | 1.14 | _____ |
| SEED/PLANTS | acre | 91.56 | 1.0000 | 91.56 | _____ |
| CUSTOM FERTILIZE | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | acre | 34.50 | 1.0000 | 34.50 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1354 | 1.22 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.4463 | 5.99 | _____ |
| UNALLOCATED LABOR | hour | 13.36 | 0.4017 | 5.37 | _____ |
| DIESEL FUEL | gal | 2.00 | 5.3776 | 10.75 | _____ |
| REPAIR & MAINTENANCE | acre | 13.14 | 1.0000 | 13.14 | _____ |
| INTEREST ON OP. CAP. | acre | 11.20 | 1.0000 | 11.20 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 445.26 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 136.74 | _____ |
| TOTAL FIXED EXPENSES | | | | 39.07 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 484.33 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 97.67 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| 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 |
| DAP | cwt | | | | | 1.0870 | | | | |
| Potash (60% K2O) | cwt | | | | | 0.8300 | | | | |
| 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 & Pre-Folding | 12R-38 | MFWD 225 | 0.053 | 1.00 | Mar | | 0.05 | 0.05 | 0.10 | 0.04 |
| Corn Seed B2RR | thous | | | | | 28.0000 | | | | |
| Fert 10-34-0 | cwt | | | | | 0.5000 | | | | |
| Zinc Plus | pt | | | | | 2.0000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| UAN + Sulfur (28%) | cwt | | | | | 2.1430 | | | | |
| Spray (Broadcast) | 60' | MFWD 225 | 0.028 | 1.00 | Apr | | 0.02 | 0.02 | 0.04 | 0.02 |
| Atrazine 4L | pt | | | | | 4.0000 | | | | |
| Halex GT | pt | | | | | 3.6000 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32% N) | cwt | | | | | 3.2815 | | | | |
| App by Air (3 gal) | appl | | | 0.20 | May | 0.2000 | | | | |
| Bifenthrin | oz | | | | | 1.2800 | | | | |
| Header - Corn | 8R-38 | 265 hp | 0.100 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Grain Cart Corn | 700 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 150.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.44 | 0.44 | 0.58 | 0.40 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| 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 | | | | | | 0.15 | 3.45 | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | | 1.37 | 31.73 | 31.73 |
| Spin Spreader | 5 ton | | 0.97 | 0.59 | 1.45 | | | 0.14 | 3.15 | 2.47 |
| DAP | cwt | 30.60 | | | | | | 1.38 | 31.98 | 31.98 |
| Potash (60% K2O) | cwt | 17.65 | | | | | | 0.79 | 18.44 | 18.44 |
| Bed/Disk w/roller | 12R-30/40 | | 1.45 | 1.18 | 1.59 | | | 0.19 | 4.41 | 4.73 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | 6.69 |
| Glyphosate 3lbs a.e | oz | 4.48 | | | | | | 0.13 | 4.61 | 4.61 |
| Clarity | pt | 6.45 | | | | | | 0.19 | 6.64 | 6.64 |
| Select Max | pt | 12.35 | | | | | | 0.37 | 12.72 | 12.72 |
| Plant & Pre-Folding | 12R-38 | | 1.24 | 1.96 | 1.84 | | | 0.13 | 5.17 | 5.42 |
| Corn Seed B2RR | thous | 91.56 | | | | | | 2.40 | 93.96 | 93.96 |
| Fert 10-34-0 | cwt | 16.25 | | | | | | 0.43 | 16.68 | 16.68 |
| Zinc Plus | pt | 6.00 | | | | | | 0.16 | 6.16 | 6.16 |
| Custom Apply Fert | acre | 7.00 | | | | | | 0.16 | 7.16 | 7.16 |
| UAN + Sulfur (28%) | cwt | 35.00 | | | | | | 0.79 | 35.79 | 35.79 |
| Spray (Broadcast) | 60' | | 0.65 | 0.44 | 0.85 | | | 0.04 | 1.98 | 1.56 |
| Atrazine 4L | pt | 8.12 | | | | | | 0.18 | 8.30 | 8.30 |
| Halex GT | pt | 25.99 | | | | | | 0.58 | 26.57 | 26.57 |
| Corn Consultant | acre | 7.00 | | | | | | 0.13 | 7.13 | 7.13 |
| Fert Appl (Liquid) | 12R-38 | | 1.20 | 0.97 | 1.54 | | | 0.07 | 3.78 | 3.00 |
| UAN (32% N) | cwt | 52.34 | | | | | | 0.98 | 53.32 | 53.32 |
| App by Air (3 gal) | appl | 1.00 | | | | | | 0.02 | 1.02 | 1.02 |
| Bifenthrin | oz | 1.14 | | | | | | 0.02 | 1.16 | 1.16 |
| Header - Corn | 8R-38 | | 2.75 | 4.80 | 2.57 | | | 0.04 | 10.16 | 15.32 |
| Grain Cart Corn | 700 bu | | 0.58 | 0.43 | 0.64 | | | 0.01 | 1.66 | 1.55 |
| Haul Corn | bu | 34.50 | | | | | | 0.13 | 34.63 | 34.63 |
| Stalk Shredder Flex | 20' | | 1.91 | 2.77 | 2.10 | | | 0.03 | 6.81 | 5.02 |
| TOTALS | | 397.59 | 10.75 | 13.14 | 12.58 | 0.00 | 11.20 | 445.26 | 39.07 | 484.33 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 582.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 48.25 | 0.00 | 0.00 | 0.00 | 0.00 | 22.25 | 35.00 | 52.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 23.28 | 0.00 | 34.11 | 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 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.56 | 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 | 7.00 | 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 | 34.50 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 3.04 | 0.00 | 0.00 | 0.00 | 0.00 | 1.84 | 0.85 | 1.54 | 0.00 | 0.00 | 0.00 | 5.31 |
| 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 | 2.42 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 0.65 | 1.20 | 0.00 | 0.00 | 0.00 | 5.24 |
| REPAIR & MAINTENANCE | 1.77 | 0.00 | 0.00 | 0.00 | 0.00 | 1.96 | 0.44 | 0.97 | 0.00 | 0.00 | 0.00 | 8.00 |
| INTEREST ON OP. CAP. | 4.02 | 0.00 | 0.00 | 0.00 | 0.88 | 3.12 | 1.75 | 1.22 | 0.00 | 0.00 | 0.00 | 0.21 |
| TOTAL DIRECT EXPENSES | 93.16 | 0.00 | 0.00 | 0.00 | 30.66 | 121.97 | 79.80 | 66.41 | 0.00 | 0.00 | 0.00 | 53.26 |
| NET INCOME | -93.16 | 0.00 | 0.00 | 0.00 | -30.66 | -121.97 | -79.80 | -66.41 | 0.00 | 0.00 | 0.00 | 528.74 |
| NET INCOME TO DATE | -93.16 | -93.16 | -93.16 | -93.16 | -123.82 | -245.79 | -325.59 | -392.00 | -392.00 | -392.00 | -392.00 | 136.74 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, B2RR, non-irrigated, 12row 38"
 150 bu yield goal, Delta Area, Mississippi, 2016

| PRODUCT | PERCENT | | | | | | | | | | | | | |
|---------|---------------|------|------|------|------|------|------|------|------|------|------|------|-----|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | | |
| Corn | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | | | |
| PERCENT | YIELD UNIT | | | | | | | | | | | | | |
| | ---dollars--- | | | | | | | | | | | | | |
| 50 | 75.00 | bu | -209 | -195 | -180 | -166 | -151 | -136 | -122 | -107 | -93 | -78 | -64 | -103 |
| | | | -248 | -234 | -219 | -205 | -190 | -176 | -161 | -146 | -132 | -117 | | |
| 60 | 90.00 | bu | -169 | -152 | -134 | -117 | -99 | -82 | -64 | -47 | -29 | -12 | 5 | -33 |
| | | | -208 | -191 | -173 | -156 | -138 | -121 | -103 | -86 | -68 | -51 | | |
| 70 | 105.00 | bu | -129 | -108 | -88 | -68 | -47 | -27 | -7 | 13 | 33 | 54 | 74 | 35 |
| | | | -168 | -148 | -127 | -107 | -86 | -66 | -46 | -25 | -5 | 14 | | |
| 80 | 120.00 | bu | -89 | -65 | -42 | -19 | 3 | 27 | 50 | 73 | 97 | 120 | 143 | 104 |
| | | | -128 | -104 | -81 | -58 | -35 | -11 | 11 | 34 | 58 | 81 | | |
| 90 | 135.00 | bu | -48 | -22 | 3 | 29 | 55 | 82 | 108 | 134 | 160 | 186 | 212 | 173 |
| | | | -88 | -61 | -35 | -9 | 16 | 42 | 69 | 95 | 121 | 147 | | |
| 100 | 150.00 | bu | -8 | 20 | 49 | 78 | 107 | 136 | 165 | 194 | 224 | 253 | 282 | 243 |
| | | | -47 | -18 | 10 | 39 | 68 | 97 | 126 | 155 | 184 | 214 | | |
| 110 | 165.00 | bu | 31 | 63 | 95 | 127 | 159 | 191 | 223 | 255 | 287 | 319 | 351 | 312 |
| | | | -7 | 24 | 56 | 88 | 120 | 152 | 184 | 216 | 248 | 280 | | |
| 120 | 180.00 | bu | 71 | 106 | 141 | 176 | 211 | 246 | 281 | 316 | 350 | 385 | 420 | 381 |
| | | | 32 | 67 | 102 | 137 | 172 | 207 | 242 | 276 | 311 | 346 | | |
| 130 | 195.00 | bu | 111 | 149 | 187 | 225 | 263 | 300 | 338 | 376 | 414 | 452 | 490 | 451 |
| | | | 72 | 110 | 148 | 186 | 224 | 261 | 299 | 337 | 375 | 413 | | |
| 140 | 210.00 | bu | 151 | 192 | 233 | 274 | 314 | 355 | 396 | 437 | 477 | 518 | 559 | 520 |
| | | | 112 | 153 | 194 | 235 | 275 | 316 | 357 | 398 | 438 | 479 | | |
| 150 | 225.00 | bu | 192 | 235 | 279 | 323 | 366 | 410 | 454 | 497 | 541 | 585 | 628 | 589 |
| | | | 153 | 196 | 240 | 284 | 327 | 371 | 415 | 458 | 502 | 545 | | |

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 2015 input prices.

Table 3.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 1.0000 | 5.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.8000 | 50.67 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 1.5000 | 31.91 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 3.5710 | 58.31 | _____ |
| UAN (32% N) | cwt | 15.95 | 4.3750 | 69.78 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | oz | 0.14 | 32.0000 | 4.48 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Select Max | pt | 12.35 | 1.0000 | 12.35 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| INSECTICIDES | | | | | |
| Intrepid 2F | oz | 2.01 | 4.0000 | 8.04 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| Roll-Out Pipe | ft | 0.26 | 33.0000 | 8.58 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed RR2 | thous | 3.02 | 34.0000 | 102.68 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 210.0000 | 48.30 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.6927 | 9.30 | _____ |
| Harvesters | hour | 13.40 | 0.1009 | 1.35 | _____ |
| Self-Propelled | hour | 13.40 | 0.0176 | 0.24 | _____ |
| 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 | 0.1175 | 1.06 | _____ |
| Self-Propelled | hour | 9.06 | 0.0088 | 0.08 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.37 | 0.6595 | 8.82 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 7.7557 | 15.53 | _____ |
| Harvesters | gal | 2.00 | 1.3770 | 2.75 | _____ |
| Self-Propelled | gal | 2.00 | 0.1586 | 0.32 | _____ |
| Roll-Out Pipe Irr. | gal | 2.00 | 10.5901 | 21.20 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.24 | 1.0000 | 9.24 | _____ |
| Tractors | acre | 4.73 | 1.0000 | 4.73 | _____ |
| Harvesters | acre | 3.31 | 1.0000 | 3.31 | _____ |
| Self-Propelled | acre | 0.16 | 1.0000 | 0.16 | _____ |
| Roll-Out Pipe Irr. | acre | 6.36 | 1.0000 | 6.36 | _____ |
| INTEREST ON OP. CAP. | acre | 14.80 | 1.0000 | 14.80 | _____ |
| TOTAL DIRECT EXPENSES | | | | 597.60 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 15.95 | 1.0000 | 15.95 | _____ |
| Tractors | acre | 29.63 | 1.0000 | 29.63 | _____ |
| Harvesters | acre | 13.07 | 1.0000 | 13.07 | _____ |
| Self-Propelled | acre | 1.08 | 1.0000 | 1.08 | _____ |
| Roll-Out Pipe Irr. | acre | 52.50 | 1.0000 | 52.50 | _____ |
| TOTAL FIXED EXPENSES | | | | 112.23 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 709.83 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 210.0000 | 814.80 | _____ |
| TOTAL INCOME | | | | 814.80 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 11.50 | 1.0000 | 11.50 | _____ |
| FERTILIZERS | acre | 210.67 | 1.0000 | 210.67 | _____ |
| HERBICIDES | acre | 57.39 | 1.0000 | 57.39 | _____ |
| INSECTICIDES | acre | 8.04 | 1.0000 | 8.04 | _____ |
| IRRIGATION SUPPLIES | acre | 8.58 | 1.0000 | 8.58 | _____ |
| SEED/PLANTS | acre | 102.68 | 1.0000 | 102.68 | _____ |
| CUSTOM FERTILIZE | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | acre | 48.30 | 1.0000 | 48.30 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1263 | 1.14 | _____ |
| IRRIGATE LABOR | hour | 9.06 | 0.3875 | 3.53 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.8113 | 10.89 | _____ |
| UNALLOCATED LABOR | hour | 13.37 | 0.6595 | 8.82 | _____ |
| DIESEL FUEL | gal | 2.00 | 19.8817 | 39.80 | _____ |
| REPAIR & MAINTENANCE | acre | 23.80 | 1.0000 | 23.80 | _____ |
| INTEREST ON OP. CAP. | acre | 14.80 | 1.0000 | 14.80 | _____ |
| TOTAL DIRECT EXPENSES | | | | 597.60 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 217.20 | _____ |
| TOTAL FIXED EXPENSES | | | | 112.23 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 709.83 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 104.97 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2016

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | POWER IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|--------------------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Subsoiler | 3 shank | MFWD 225 | 0.204 | 0.50 | Oct | | 0.10 | 0.10 | 0.10 | 0.09 |
| Disk Harrow | 24' | MFWD 225 | 0.081 | 1.00 | Oct | | 0.08 | 0.08 | 0.08 | 0.07 |
| 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 |
| DAP | cwt | | | | | 1.8000 | | | | |
| Potash (60% K2O) | cwt | | | | | 1.5000 | | | | |
| 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 | | | | |
| Row Cond./Roll-Fold. | 30' | MFWD 225 | 0.062 | 1.00 | Mar | | 0.06 | 0.06 | 0.06 | 0.05 |
| Plant - Folding | 12R-38 | MFWD 225 | 0.049 | 1.00 | Mar | | 0.04 | 0.04 | 0.09 | 0.04 |
| Corn Seed RR2 | thous | | | | | 34.0000 | | | | |
| Custom Apply Fert | acre | | | 1.00 | Apr | 1.0000 | | | | |
| UAN + Sulfur (28%) | cwt | | | | | 3.5710 | | | | |
| 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 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32% N) | cwt | | | | | 4.3750 | | | | |
| Cultivate | 12R-38 | MFWD 225 | 0.054 | 1.00 | May | | 0.05 | 0.05 | 0.05 | 0.04 |
| App by Air (3 gal) | appl | | | 1.00 | Jun | 1.0000 | | | | |
| Intrepid 2F | oz | | | | | 4.0000 | | | | |
| Header - Corn | 8R-38 | 265 hp | 0.100 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Grain Cart Corn | 700 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 210.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| Roll-Out Pipe Irr. | acre | | | | Jul | 1.0000 | 0.07 | 0.07 | 0.46 | |
| TOTALS | | | | | | | 0.81 | 0.79 | 1.32 | 0.65 |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2016

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | |
| -----dollars----- | | | | | | | | | | |
| Subsoiler | 3 shank | | 2.37 | 0.85 | 2.60 | | 0.26 | 6.08 | 4.88 | 10.96 |
| Disk Harrow | 24' | | 1.90 | 1.59 | 2.09 | | 0.25 | 5.83 | 5.81 | 11.64 |
| Soil Test | acre | 3.30 | | | | | 0.15 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | 1.37 | 31.73 | | 31.73 |
| Spin Spreader | 5 ton | | 0.97 | 0.59 | 1.45 | | 0.14 | 3.15 | 2.47 | 5.62 |
| DAP | cwt | 50.67 | | | | | 2.28 | 52.95 | | 52.95 |
| Potash (60% K2O) | cwt | 31.91 | | | | | 1.44 | 33.35 | | 33.35 |
| Bed/Disk w/roller | 12R-30/40 | | 1.45 | 1.18 | 1.59 | | 0.19 | 4.41 | 4.73 | 9.14 |
| App by Air (5 gal) | appl | 6.50 | | | | | 0.19 | 6.69 | | 6.69 |
| Glyphosate 3lbs a.e | oz | 4.48 | | | | | 0.13 | 4.61 | | 4.61 |
| Clarity | pt | 6.45 | | | | | 0.19 | 6.64 | | 6.64 |
| Select Max | pt | 12.35 | | | | | 0.37 | 12.72 | | 12.72 |
| Row Cond./Roll-Fold. | 30' | | 1.45 | 0.96 | 1.59 | | 0.11 | 4.11 | 4.14 | 8.25 |
| Plant - Folding | 12R-38 | | 1.15 | 1.67 | 1.71 | | 0.12 | 4.65 | 4.76 | 9.41 |
| Corn Seed RR2 | thous | 102.68 | | | | | 2.70 | 105.38 | | 105.38 |
| Custom Apply Fert | acre | 7.00 | | | | | 0.16 | 7.16 | | 7.16 |
| UAN + Sulfur (28%) | cwt | 58.31 | | | | | 1.31 | 59.62 | | 59.62 |
| Sprayer 600-750gal | 60' 175hp | | 0.32 | 0.16 | 0.53 | | 0.02 | 1.03 | 1.08 | 2.11 |
| Atrazine 4L | pt | 8.12 | | | | | 0.18 | 8.30 | | 8.30 |
| Halex GT | pt | 25.99 | | | | | 0.58 | 26.57 | | 26.57 |
| Corn Consultant | acre | 7.00 | | | | | 0.13 | 7.13 | | 7.13 |
| Fert Appl (Liquid) | 12R-38 | | 1.20 | 0.97 | 1.54 | | 0.07 | 3.78 | 3.00 | 6.78 |
| UAN (32% N) | cwt | 69.78 | | | | | 1.31 | 71.09 | | 71.09 |
| Cultivate | 12R-38 | | 1.26 | 0.93 | 1.38 | | 0.07 | 3.64 | 3.86 | 7.50 |
| App by Air (3 gal) | appl | 5.00 | | | | | 0.07 | 5.07 | | 5.07 |
| Intrepid 2F | oz | 8.04 | | | | | 0.12 | 8.16 | | 8.16 |
| Header - Corn | 8R-38 | | 2.75 | 4.80 | 2.57 | | 0.04 | 10.16 | 15.32 | 25.48 |
| Grain Cart Corn | 700 bu | | 0.58 | 0.43 | 0.64 | | 0.01 | 1.66 | 1.55 | 3.21 |
| Haul Corn | bu | 48.30 | | | | | 0.18 | 48.48 | | 48.48 |
| Stalk Shredder Flex | 20' | | 1.91 | 2.77 | 2.10 | | 0.03 | 6.81 | 5.02 | 11.83 |
| Roll-Out Pipe Irr. | acre | 8.58 | 22.49 | 6.90 | 4.59 | | 0.63 | 43.19 | 55.61 | 98.80 |
| TOTALS | | 494.82 | 39.80 | 23.80 | 24.38 | 0.00 | 14.80 | 597.60 | 112.23 | 709.83 |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in., Delta Area, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 814.80 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 82.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 58.31 | 69.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 23.28 | 0.00 | 34.11 | 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 | 8.04 | 0.00 | 0.00 | 0.00 |
| IRRIGATION SUPPLIES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.58 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 102.68 | 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 | 7.00 | 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 | 48.30 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 8.24 | 0.00 | 0.00 | 0.00 | 0.00 | 3.30 | 0.53 | 3.15 | 3.03 | 0.23 | 0.59 | 5.31 |
| 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 | 7.43 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 0.32 | 2.46 | 16.20 | 5.30 | 0.25 | 5.24 |
| REPAIR & MAINTENANCE | 4.53 | 0.00 | 0.00 | 0.00 | 0.00 | 2.63 | 0.16 | 1.90 | 5.50 | 0.98 | 0.10 | 8.00 |
| INTEREST ON OP. CAP. | 6.15 | 0.00 | 0.00 | 0.00 | 0.88 | 2.93 | 2.25 | 1.58 | 0.67 | 0.07 | 0.01 | 0.26 |
| TOTAL DIRECT EXPENSES | 142.59 | 0.00 | 0.00 | 0.00 | 30.66 | 114.14 | 102.68 | 85.87 | 47.02 | 6.58 | 0.95 | 67.11 |
| NET INCOME | -142.59 | 0.00 | 0.00 | 0.00 | -30.66 | -114.14 | -102.68 | -85.87 | -47.02 | -6.58 | -0.95 | 747.69 |
| NET INCOME TO DATE | -142.59 | -142.59 | -142.59 | -142.59 | -173.25 | -287.39 | -390.07 | -475.94 | -522.96 | -529.54 | -530.49 | 217.20 |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38",
 210 bu yld goal, furrow irrigated, 13 ac-in.,Delta Area, Mississippi, 2016

| PRODUCT | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | |
|---------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| Corn | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| PERCENT | YIELD UNIT -----dollars----- | | | | | | | | | | | |
| 50 | 105.00 | bu | -267 | -247 | -227 | -206 | -186 | -165 | -145 | -125 | -104 | -84 |
| | | | -380 | -359 | -339 | -318 | -298 | -278 | -257 | -237 | -217 | -196 |
| 60 | 126.00 | bu | -211 | -187 | -162 | -138 | -113 | -89 | -64 | -40 | -15 | 8 |
| | | | -323 | -299 | -274 | -250 | -226 | -201 | -177 | -152 | -128 | -103 |
| 70 | 147.00 | bu | -155 | -126 | -98 | -69 | -41 | -12 | 15 | 44 | 72 | 101 |
| | | | -267 | -238 | -210 | -181 | -153 | -124 | -96 | -67 | -39 | -10 |
| 80 | 168.00 | bu | -99 | -66 | -33 | -1 | 31 | 63 | 96 | 129 | 161 | 194 |
| | | | -211 | -178 | -146 | -113 | -80 | -48 | -15 | 16 | 49 | 82 |
| 90 | 189.00 | bu | -42 | -6 | 30 | 67 | 103 | 140 | 177 | 213 | 250 | 287 |
| | | | -154 | -118 | -81 | -44 | -8 | 28 | 65 | 101 | 138 | 175 |
| 100 | 210.00 | bu | 13 | 54 | 94 | 135 | 176 | 217 | 257 | 298 | 339 | 380 |
| | | | -98 | -57 | -17 | 23 | 64 | 104 | 145 | 186 | 227 | 267 |
| 110 | 231.00 | bu | 69 | 114 | 159 | 204 | 249 | 293 | 338 | 383 | 428 | 473 |
| | | | -42 | 2 | 47 | 91 | 136 | 181 | 226 | 271 | 316 | 360 |
| 120 | 252.00 | bu | 126 | 174 | 223 | 272 | 321 | 370 | 419 | 468 | 517 | 566 |
| | | | 13 | 62 | 111 | 160 | 209 | 258 | 307 | 356 | 404 | 453 |
| 130 | 273.00 | bu | 182 | 235 | 288 | 341 | 394 | 447 | 500 | 553 | 605 | 658 |
| | | | 70 | 123 | 175 | 228 | 281 | 334 | 387 | 440 | 493 | 546 |
| 140 | 294.00 | bu | 238 | 295 | 352 | 409 | 466 | 523 | 580 | 637 | 694 | 751 |
| | | | 126 | 183 | 240 | 297 | 354 | 411 | 468 | 525 | 582 | 639 |
| 150 | 315.00 | bu | 294 | 355 | 417 | 478 | 539 | 600 | 661 | 722 | 783 | 844 |
| | | | 182 | 243 | 304 | 365 | 427 | 488 | 549 | 610 | 671 | 732 |

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 2015 input prices.

Table 4.A Estimated costs per acre
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 1.0000 | 5.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.0870 | 30.60 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 0.8300 | 17.65 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 2.1430 | 35.00 | _____ |
| UAN (32% N) | cwt | 15.95 | 3.2815 | 52.34 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.26 | 2.0000 | 4.52 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Select Max | pt | 12.35 | 1.0000 | 12.35 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| INSECTICIDES | | | | | |
| Intrepid 2F | oz | 2.01 | 4.0000 | 8.04 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed RR2 | thous | 3.02 | 28.0000 | 84.56 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 150.0000 | 34.50 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.5687 | 7.62 | _____ |
| Harvesters | hour | 13.40 | 0.1009 | 1.35 | _____ |
| Self-Propelled | hour | 13.40 | 0.0176 | 0.24 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1175 | 1.06 | _____ |
| Self-Propelled | hour | 9.06 | 0.0088 | 0.08 | _____ |
| UNALLOCATED LABOR | hour | 13.38 | 0.6186 | 8.28 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 6.5869 | 13.18 | _____ |
| Harvesters | gal | 2.00 | 1.3770 | 2.75 | _____ |
| Self-Propelled | gal | 2.00 | 0.1586 | 0.32 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.82 | 1.0000 | 7.82 | _____ |
| Tractors | acre | 4.06 | 1.0000 | 4.06 | _____ |
| Harvesters | acre | 3.31 | 1.0000 | 3.31 | _____ |
| Self-Propelled | acre | 0.16 | 1.0000 | 0.16 | _____ |
| INTEREST ON OP. CAP. | acre | 11.17 | 1.0000 | 11.17 | _____ |
| TOTAL DIRECT EXPENSES | | | | 440.68 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 12.04 | 1.0000 | 12.04 | _____ |
| Tractors | acre | 25.52 | 1.0000 | 25.52 | _____ |
| Harvesters | acre | 13.07 | 1.0000 | 13.07 | _____ |
| Self-Propelled | acre | 1.08 | 1.0000 | 1.08 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.71 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 492.39 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 150.0000 | 582.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 582.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 11.50 | 1.0000 | 11.50 | _____ |
| FERTILIZERS | acre | 135.59 | 1.0000 | 135.59 | _____ |
| HERBICIDES | acre | 57.43 | 1.0000 | 57.43 | _____ |
| INSECTICIDES | acre | 8.04 | 1.0000 | 8.04 | _____ |
| SEED/PLANTS | acre | 84.56 | 1.0000 | 84.56 | _____ |
| CUSTOM FERTILIZE | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | acre | 34.50 | 1.0000 | 34.50 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1263 | 1.14 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.6873 | 9.21 | _____ |
| UNALLOCATED LABOR | hour | 13.38 | 0.6186 | 8.28 | _____ |
| DIESEL FUEL | gal | 2.00 | 8.1226 | 16.25 | _____ |
| REPAIR & MAINTENANCE | acre | 15.35 | 1.0000 | 15.35 | _____ |
| INTEREST ON OP. CAP. | acre | 11.17 | 1.0000 | 11.17 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 440.68 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 141.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 51.71 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 492.39 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 89.61 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | INPUT AMOUNT | IMPLEMENT | POWER UNIT | ALLOC LABOR | UNALL LABOR |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-----------------|-----------|---------------|----------------|----------------|
| -----hours----- | | | | | | | | | | |
| Subsoiler | 3 shank | MFWD 225 | 0.204 | 0.50 | Oct | | 0.10 | 0.10 | 0.10 | 0.09 |
| Disk Harrow | 24' | MFWD 225 | 0.081 | 1.00 | Oct | | 0.08 | 0.08 | 0.08 | 0.07 |
| 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 |
| DAP | cwt | | | | | 1.0870 | | | | |
| Potash (60% K2O) | cwt | | | | | 0.8300 | | | | |
| Bed/Disk (Hipper)Rd | 8R-38 | MFWD 225 | 0.074 | 1.00 | Oct | | 0.07 | 0.07 | 0.07 | 0.06 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 2.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Row Cond Rigid | 26' | MFWD 225 | 0.059 | 1.00 | Mar | | 0.05 | 0.05 | 0.05 | 0.05 |
| Plant - Folding | 12R-38 | MFWD 225 | 0.049 | 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%) | cwt | | | | | 2.1430 | | | | |
| 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 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 0.051 | 1.00 | May | | 0.05 | 0.05 | 0.07 | 0.04 |
| UAN (32% N) | cwt | | | | | 3.2815 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | Jun | 1.0000 | | | | |
| Intrepid 2F | oz | | | | | 4.0000 | | | | |
| Header - Corn | 8R-38 | 265 hp | 0.100 | 1.00 | Sep | | 0.10 | 0.10 | 0.10 | 0.09 |
| Grain Cart Corn | 700 bu | MFWD 225 | 0.025 | 1.00 | Sep | | 0.02 | 0.02 | 0.02 | 0.02 |
| Haul Corn | bu | | | | | 150.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 225 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.68 | 0.66 | 0.81 | 0.61 |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | -----DIRECT COST----- | | | | | | | FIXED COST | TOTAL COST | |
|-------------------------------|---------------|-----------------------|-------|-------|-------|-------|-------|--------|---------------|---------------|-------|
| | | OP INPUT | FUEL | R&M | LABOR | LEASE | INTER | TOTAL | | | |
| -----dollars----- | | | | | | | | | | | |
| Subsoiler | 3 shank | | 2.37 | 0.85 | 2.60 | | | 0.26 | 6.08 | 4.88 | 10.96 |
| Disk Harrow | 24' | | 1.90 | 1.59 | 2.09 | | | 0.25 | 5.83 | 5.81 | 11.64 |
| Soil Test | acre | 3.30 | | | | | | 0.15 | 3.45 | | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | | 1.37 | 31.73 | | 31.73 |
| Spin Spreader | 5 ton | | 0.97 | 0.59 | 1.45 | | | 0.14 | 3.15 | 2.47 | 5.62 |
| DAP | cwt | 30.60 | | | | | | 1.38 | 31.98 | | 31.98 |
| Potash (60% K2O) | cwt | 17.65 | | | | | | 0.79 | 18.44 | | 18.44 |
| Bed/Disk (Hipper)Rd | 8R-38 | | 1.72 | 0.88 | 1.88 | | | 0.20 | 4.68 | 4.25 | 8.93 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | | 6.69 |
| Glyphosate 3lbs a.e | pt | 4.52 | | | | | | 0.14 | 4.66 | | 4.66 |
| Clarity | pt | 6.45 | | | | | | 0.19 | 6.64 | | 6.64 |
| Select Max | pt | 12.35 | | | | | | 0.37 | 12.72 | | 12.72 |
| Row Cond Rigid | 26' | | 1.38 | 0.64 | 1.52 | | | 0.09 | 3.63 | 3.57 | 7.20 |
| Plant - Folding | 12R-38 | | 1.15 | 1.67 | 1.71 | | | 0.12 | 4.65 | 4.76 | 9.41 |
| Corn Seed RR2 | thous | 84.56 | | | | | | 2.22 | 86.78 | | 86.78 |
| Custom Apply Fert | acre | 7.00 | | | | | | 0.16 | 7.16 | | 7.16 |
| UAN + Sulfur (28%) | cwt | 35.00 | | | | | | 0.79 | 35.79 | | 35.79 |
| Sprayer 600-750gal | 60' 175hp | | 0.32 | 0.16 | 0.53 | | | 0.02 | 1.03 | 1.08 | 2.11 |
| Atrazine 4L | pt | 8.12 | | | | | | 0.18 | 8.30 | | 8.30 |
| Halex GT | pt | 25.99 | | | | | | 0.58 | 26.57 | | 26.57 |
| Corn Consultant | acre | 7.00 | | | | | | 0.13 | 7.13 | | 7.13 |
| Fert Appl (Liquid) | 12R-38 | | 1.20 | 0.97 | 1.54 | | | 0.07 | 3.78 | 3.00 | 6.78 |
| UAN (32% N) | cwt | 52.34 | | | | | | 0.98 | 53.32 | | 53.32 |
| App by Air (3 gal) | appl | 5.00 | | | | | | 0.07 | 5.07 | | 5.07 |
| Intrepid 2F | oz | 8.04 | | | | | | 0.12 | 8.16 | | 8.16 |
| Header - Corn | 8R-38 | | 2.75 | 4.80 | 2.57 | | | 0.04 | 10.16 | 15.32 | 25.48 |
| Grain Cart Corn | 700 bu | | 0.58 | 0.43 | 0.64 | | | 0.01 | 1.66 | 1.55 | 3.21 |
| Haul Corn | bu | 34.50 | | | | | | 0.13 | 34.63 | | 34.63 |
| Stalk Shredder Flex | 20' | | 1.91 | 2.77 | 2.10 | | | 0.03 | 6.81 | 5.02 | 11.83 |
| TOTALS | | 379.28 | 16.25 | 15.35 | 18.63 | 0.00 | 11.17 | 440.68 | 51.71 | 492.39 | |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 582.00 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 48.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.00 | 52.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 23.32 | 0.00 | 34.11 | 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 | 8.04 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 84.56 | 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 | 7.00 | 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 | 34.50 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 8.02 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 0.53 | 1.54 | 0.00 | 0.00 | 0.00 | 5.31 |
| 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 | 6.96 | 0.00 | 0.00 | 0.00 | 0.00 | 2.53 | 0.32 | 1.20 | 0.00 | 0.00 | 0.00 | 5.24 |
| REPAIR & MAINTENANCE | 3.91 | 0.00 | 0.00 | 0.00 | 0.00 | 2.31 | 0.16 | 0.97 | 0.00 | 0.00 | 0.00 | 8.00 |
| INTEREST ON OP. CAP. | 4.54 | 0.00 | 0.00 | 0.00 | 0.89 | 2.43 | 1.73 | 1.18 | 0.19 | 0.00 | 0.00 | 0.21 |
| TOTAL DIRECT EXPENSES | 105.34 | 0.00 | 0.00 | 0.00 | 30.71 | 95.06 | 78.85 | 64.23 | 13.23 | 0.00 | 0.00 | 53.26 |
| NET INCOME | -105.34 | 0.00 | 0.00 | 0.00 | -30.71 | -95.06 | -78.85 | -64.23 | -13.23 | 0.00 | 0.00 | 528.74 |
| NET INCOME TO DATE | -105.34 | -105.34 | -105.34 | -105.34 | -136.05 | -231.11 | -309.96 | -374.19 | -387.42 | -387.42 | -387.42 | 141.32 |

Note: Cost of production estimates are based on 2015 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
 Corn, conventional tillage, RR seed, 12-row 38"
 150 bu yield goal, non-irrigated, Delta Area, Mississippi, 2016

| PRODUCT | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
|---------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Corn | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | | |
| PERCENT | YIELD UNIT -----dollars----- | | | | | | | | | | | | |
| 50 | 75.00 | bu | -205 | -190 | -176 | -161 | -146 | -132 | -117 | -103 | -88 | -74 | -59 |
| | | | -256 | -242 | -227 | -213 | -198 | -184 | -169 | -154 | -140 | -125 | -111 |
| 60 | 90.00 | bu | -164 | -147 | -130 | -112 | -95 | -77 | -60 | -42 | -25 | -7 | 9 |
| | | | -216 | -199 | -181 | -164 | -146 | -129 | -111 | -94 | -76 | -59 | -42 |
| 70 | 105.00 | bu | -124 | -104 | -84 | -63 | -43 | -22 | -2 | 17 | 38 | 58 | 78 |
| | | | -176 | -156 | -135 | -115 | -94 | -74 | -54 | -33 | -13 | 6 | 27 |
| 80 | 120.00 | bu | -84 | -61 | -37 | -14 | 8 | 31 | 55 | 78 | 101 | 124 | 148 |
| | | | -136 | -112 | -89 | -66 | -43 | -19 | 3 | 26 | 49 | 73 | 96 |
| 90 | 135.00 | bu | -44 | -18 | 8 | 34 | 60 | 86 | 112 | 138 | 165 | 191 | 217 |
| | | | -96 | -69 | -43 | -17 | 8 | 34 | 61 | 87 | 113 | 139 | 165 |
| 100 | 150.00 | bu | -4 | 24 | 54 | 83 | 112 | 141 | 170 | 199 | 228 | 257 | 286 |
| | | | -55 | -26 | 2 | 31 | 60 | 89 | 118 | 147 | 176 | 206 | 235 |
| 110 | 165.00 | bu | 36 | 68 | 100 | 132 | 164 | 196 | 228 | 260 | 292 | 324 | 356 |
| | | | -15 | 16 | 48 | 80 | 112 | 144 | 176 | 208 | 240 | 272 | 304 |
| 120 | 180.00 | bu | 76 | 111 | 146 | 180 | 215 | 250 | 285 | 320 | 355 | 390 | 425 |
| | | | 24 | 59 | 94 | 129 | 164 | 199 | 234 | 268 | 303 | 338 | 373 |
| 130 | 195.00 | bu | 116 | 154 | 192 | 229 | 267 | 305 | 343 | 381 | 419 | 456 | 494 |
| | | | 64 | 102 | 140 | 178 | 215 | 253 | 291 | 329 | 367 | 405 | 442 |
| 140 | 210.00 | bu | 156 | 197 | 238 | 278 | 319 | 360 | 401 | 441 | 482 | 523 | 563 |
| | | | 104 | 145 | 186 | 227 | 267 | 308 | 349 | 390 | 430 | 471 | 512 |
| 150 | 225.00 | bu | 196 | 240 | 284 | 327 | 371 | 415 | 458 | 502 | 545 | 589 | 633 |
| | | | 145 | 188 | 232 | 275 | 319 | 363 | 406 | 450 | 494 | 537 | 581 |

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 2015 input prices.

Table 5.A Estimated costs per acre
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 1.0000 | 5.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.0870 | 30.60 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 0.8300 | 17.65 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 5.3930 | 88.07 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.26 | 2.0000 | 4.52 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Select Max | pt | 12.35 | 1.0000 | 12.35 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| INSECTICIDES | | | | | |
| Intrepid 2F | oz | 2.01 | 4.0000 | 8.04 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed RR2 | thous | 3.02 | 28.0000 | 84.56 | _____ |
| CUSTOM FERTILIZE | | | | | |
| Custom Apply Fert | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 135.0000 | 31.05 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.4889 | 6.55 | _____ |
| Harvesters | hour | 13.40 | 0.1277 | 1.71 | _____ |
| Self-Propelled | hour | 13.40 | 0.0176 | 0.24 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1442 | 1.31 | _____ |
| Self-Propelled | hour | 9.06 | 0.0088 | 0.08 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.39 | 0.5709 | 7.65 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 4.2788 | 8.56 | _____ |
| Harvesters | gal | 2.00 | 1.7419 | 3.48 | _____ |
| Self-Propelled | gal | 2.00 | 0.1586 | 0.32 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 8.52 | 1.0000 | 8.52 | _____ |
| Tractors | acre | 2.55 | 1.0000 | 2.55 | _____ |
| Harvesters | acre | 4.19 | 1.0000 | 4.19 | _____ |
| Self-Propelled | acre | 0.16 | 1.0000 | 0.16 | _____ |
| INTEREST ON OP. CAP. | acre | 10.85 | 1.0000 | 10.85 | _____ |
| TOTAL DIRECT EXPENSES | | | | 432.73 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 12.67 | 1.0000 | 12.67 | _____ |
| Tractors | acre | 15.96 | 1.0000 | 15.96 | _____ |
| Harvesters | acre | 16.53 | 1.0000 | 16.53 | _____ |
| Self-Propelled | acre | 1.08 | 1.0000 | 1.08 | _____ |
| TOTAL FIXED EXPENSES | | | | 46.24 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 478.97 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 135.0000 | 523.80 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 523.80 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 11.50 | 1.0000 | 11.50 | _____ |
| FERTILIZERS | acre | 136.32 | 1.0000 | 136.32 | _____ |
| HERBICIDES | acre | 57.43 | 1.0000 | 57.43 | _____ |
| INSECTICIDES | acre | 8.04 | 1.0000 | 8.04 | _____ |
| SEED/PLANTS | acre | 84.56 | 1.0000 | 84.56 | _____ |
| CUSTOM FERTILIZE | acre | 7.00 | 1.0000 | 7.00 | _____ |
| HAULING | acre | 31.05 | 1.0000 | 31.05 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1530 | 1.39 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.6343 | 8.50 | _____ |
| UNALLOCATED LABOR | hour | 13.39 | 0.5709 | 7.65 | _____ |
| DIESEL FUEL | gal | 2.00 | 6.1795 | 12.36 | _____ |
| REPAIR & MAINTENANCE | acre | 15.42 | 1.0000 | 15.42 | _____ |
| INTEREST ON OP. CAP. | acre | 10.85 | 1.0000 | 10.85 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 432.73 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 91.07 | _____ |
| TOTAL FIXED EXPENSES | | | | 46.24 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 478.97 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 44.83 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| 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 170 | 0.042 | 1.00 | Oct | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.0870 | | | | |
| Potash (60% K2O) | cwt | | | | | 0.8300 | | | | |
| Disk Heavy | 20' | MFWD 170 | 0.097 | 1.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| Bed/Disk w/roller | 8R-30/40 | MFWD 170 | 0.093 | 1.00 | Oct | | 0.09 | 0.09 | 0.09 | 0.08 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 2.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Select Max | pt | | | | | 1.0000 | | | | |
| Plant - Rigid | 12R-30 | MFWD 170 | 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%) | cwt | | | | | 1.6430 | | | | |
| 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 170 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN + Sulfur (28%) | cwt | | | | | 3.7500 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| 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 170 | 0.031 | 1.00 | Sep | | 0.03 | 0.03 | 0.03 | 0.02 |
| Haul Corn | bu | | | | | 135.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 170 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.63 | 0.61 | 0.78 | 0.57 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| 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 | | | | | | 0.15 | 3.45 | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | | 1.37 | 31.73 | 31.73 |
| Spin Spreader | 5 ton | | 0.74 | 0.51 | 1.45 | | | 0.12 | 2.82 | 4.77 |
| DAP | cwt | 30.60 | | | | | | 1.38 | 31.98 | 31.98 |
| Potash (60% K2O) | cwt | 17.65 | | | | | | 0.79 | 18.44 | 18.44 |
| Disk Heavy | 20' | | 1.70 | 1.57 | 2.47 | | | 0.26 | 6.00 | 11.44 |
| Bed/Disk w/roller | 8R-30/40 | | 1.64 | 1.16 | 2.39 | | | 0.23 | 5.42 | 10.25 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | 6.69 |
| Glyphosate 3lbs a.e | pt | 4.52 | | | | | | 0.14 | 4.66 | 4.66 |
| Clarity | pt | 6.45 | | | | | | 0.19 | 6.64 | 6.64 |
| Select Max | pt | 12.35 | | | | | | 0.37 | 12.72 | 12.72 |
| Plant - Rigid | 12R-30 | | 1.10 | 1.65 | 2.17 | | | 0.13 | 5.05 | 9.63 |
| Corn Seed RR2 | thous | 84.56 | | | | | | 2.22 | 86.78 | 86.78 |
| Custom Apply Fert | acre | 7.00 | | | | | | 0.16 | 7.16 | 7.16 |
| UAN + Sulfur (28%) | cwt | 26.83 | | | | | | 0.60 | 27.43 | 27.43 |
| Sprayer 600-750gal | 60' 175hp | | 0.32 | 0.16 | 0.53 | | | 0.02 | 1.03 | 2.11 |
| Atrazine 4L | pt | 8.12 | | | | | | 0.18 | 8.30 | 8.30 |
| Halex GT | pt | 25.99 | | | | | | 0.58 | 26.57 | 26.57 |
| Fert Appl (Liquid) | 12R-30 | | 1.38 | 1.35 | 2.36 | | | 0.10 | 5.19 | 8.82 |
| UAN + Sulfur (28%) | cwt | 61.24 | | | | | | 1.15 | 62.39 | 62.39 |
| Corn Consultant | acre | 7.00 | | | | | | 0.13 | 7.13 | 7.13 |
| App by Air (3 gal) | appl | 5.00 | | | | | | 0.07 | 5.07 | 5.07 |
| Intrepid 2F | oz | 8.04 | | | | | | 0.12 | 8.16 | 8.16 |
| Header - Corn | 8R-30 | | 3.48 | 6.04 | 3.25 | | | 0.05 | 12.82 | 19.32 |
| Grain Cart Corn | 500 bu | | 0.56 | 0.37 | 0.82 | | | 0.01 | 1.76 | 3.16 |
| Haul Corn | bu | 31.05 | | | | | | 0.12 | 31.17 | 31.17 |
| Stalk Shredder Flex | 20' | | 1.44 | 2.61 | 2.10 | | | 0.02 | 6.17 | 10.18 |
| TOTALS | | 376.56 | 12.36 | 15.42 | 17.54 | 0.00 | 10.85 | 432.73 | 46.24 | 478.97 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 523.80 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 0.00 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| FERTILIZERS | 48.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.83 | 61.24 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 23.32 | 0.00 | 34.11 | 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 | 8.04 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 84.56 | 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 | 7.00 | 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 | 31.05 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 6.31 | 0.00 | 0.00 | 0.00 | 0.00 | 2.17 | 0.53 | 2.36 | 0.00 | 0.00 | 0.00 | 6.17 |
| 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 | 4.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.10 | 0.32 | 1.38 | 0.00 | 0.00 | 0.00 | 5.48 |
| REPAIR & MAINTENANCE | 3.24 | 0.00 | 0.00 | 0.00 | 0.00 | 1.65 | 0.16 | 1.35 | 0.00 | 0.00 | 0.00 | 9.02 |
| INTEREST ON OP. CAP. | 4.30 | 0.00 | 0.00 | 0.00 | 0.89 | 2.35 | 1.54 | 1.38 | 0.19 | 0.00 | 0.00 | 0.20 |
| TOTAL DIRECT EXPENSES | 99.84 | 0.00 | 0.00 | 0.00 | 30.71 | 91.83 | 70.49 | 74.71 | 13.23 | 0.00 | 0.00 | 51.92 |
| NET INCOME | -99.84 | 0.00 | 0.00 | 0.00 | -30.71 | -91.83 | -70.49 | -74.71 | -13.23 | 0.00 | 0.00 | 471.88 |
| NET INCOME TO DATE | -99.84 | -99.84 | -99.84 | -99.84 | -130.55 | -222.38 | -292.87 | -367.58 | -380.81 | -380.81 | -380.81 | 91.07 |

Note: Cost of production estimates are based on 2015 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
 Corn, stale seedbed, RR seed, 12-row 30",
 135 bu yield goal, All Areas, Mississippi, 2016

| PRODUCT | PERCENT | | | | | | | | | | PRODUCT PRICE | YIELD UNIT | |
|---------|-------------------|------|------|------|------|------|------|------|------|------|---------------|------------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | | | 125 |
| Corn | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | | |
| | -----dollars----- | | | | | | | | | | | | |
| 50 | 67.50 | bu | -220 | -207 | -194 | -181 | -168 | -155 | -142 | -129 | -115 | -102 | -89 |
| | | | -266 | -253 | -240 | -227 | -214 | -201 | -188 | -175 | -162 | -149 | -136 |
| 60 | 81.00 | bu | -184 | -168 | -153 | -137 | -121 | -105 | -90 | -74 | -58 | -43 | -27 |
| | | | -230 | -215 | -199 | -183 | -167 | -152 | -136 | -120 | -105 | -89 | -73 |
| 70 | 94.50 | bu | -148 | -130 | -111 | -93 | -75 | -56 | -38 | -20 | -1 | 16 | 34 |
| | | | -194 | -176 | -157 | -139 | -121 | -102 | -84 | -66 | -47 | -29 | -11 |
| 80 | 108.00 | bu | -112 | -91 | -70 | -49 | -28 | -7 | 13 | 34 | 55 | 76 | 97 |
| | | | -158 | -137 | -116 | -95 | -74 | -53 | -32 | -11 | 9 | 30 | 51 |
| 90 | 121.50 | bu | -76 | -52 | -28 | -5 | 18 | 41 | 65 | 88 | 112 | 136 | 159 |
| | | | -122 | -98 | -75 | -51 | -28 | -4 | 19 | 42 | 66 | 89 | 113 |
| 100 | 135.00 | bu | -39 | -13 | 12 | 38 | 64 | 91 | 117 | 143 | 169 | 195 | 222 |
| | | | -86 | -59 | -33 | -7 | 18 | 44 | 71 | 97 | 123 | 149 | 175 |
| 110 | 148.50 | bu | -3 | 25 | 53 | 82 | 111 | 140 | 169 | 197 | 226 | 255 | 284 |
| | | | -49 | -21 | 7 | 36 | 65 | 94 | 122 | 151 | 180 | 209 | 238 |
| 120 | 162.00 | bu | 32 | 63 | 95 | 126 | 158 | 189 | 221 | 252 | 283 | 315 | 346 |
| | | | -13 | 17 | 49 | 80 | 111 | 143 | 174 | 206 | 237 | 269 | 300 |
| 130 | 175.50 | bu | 68 | 102 | 136 | 170 | 204 | 238 | 272 | 306 | 341 | 375 | 409 |
| | | | 22 | 56 | 90 | 124 | 158 | 192 | 226 | 260 | 294 | 328 | 362 |
| 140 | 189.00 | bu | 104 | 141 | 178 | 214 | 251 | 288 | 324 | 361 | 398 | 434 | 471 |
| | | | 58 | 95 | 131 | 168 | 205 | 241 | 278 | 315 | 351 | 388 | 425 |
| 150 | 202.50 | bu | 140 | 180 | 219 | 258 | 298 | 337 | 376 | 415 | 455 | 494 | 533 |
| | | | 94 | 134 | 173 | 212 | 251 | 291 | 330 | 369 | 409 | 448 | 487 |

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 2015 input prices.

Table 6.A Estimated costs per acre
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.0870 | 30.60 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 0.8300 | 17.65 | _____ |
| Fert 10-34-0 | cwt | 32.50 | 0.5000 | 16.25 | _____ |
| UAN (32% N) | cwt | 15.95 | 5.0000 | 79.75 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.26 | 2.0000 | 4.52 | _____ |
| Clarity | pt | 12.89 | 0.5000 | 6.45 | _____ |
| Atrazine 4L | pt | 2.03 | 4.0000 | 8.12 | _____ |
| Halex GT | pt | 7.22 | 3.6000 | 25.99 | _____ |
| SEED/PLANTS | | | | | |
| Corn Seed B2RR | thous | 3.27 | 28.0000 | 91.56 | _____ |
| HAULING | | | | | |
| Haul Corn | bu | 0.23 | 135.0000 | 31.05 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.4231 | 5.68 | _____ |
| Harvesters | hour | 13.40 | 0.1277 | 1.71 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.2283 | 2.06 | _____ |
| UNALLOCATED LABOR | hour | 13.41 | 0.4957 | 6.65 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 3.7029 | 7.41 | _____ |
| Harvesters | gal | 2.00 | 1.7419 | 3.48 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.21 | 1.0000 | 7.21 | _____ |
| Tractors | acre | 2.21 | 1.0000 | 2.21 | _____ |
| Harvesters | acre | 4.19 | 1.0000 | 4.19 | _____ |
| INTEREST ON OP. CAP. | acre | 9.49 | 1.0000 | 9.49 | _____ |
| TOTAL DIRECT EXPENSES | | | | 409.19 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 9.45 | 1.0000 | 9.45 | _____ |
| Tractors | acre | 13.82 | 1.0000 | 13.82 | _____ |
| Harvesters | acre | 16.53 | 1.0000 | 16.53 | _____ |
| TOTAL FIXED EXPENSES | | | | 39.80 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 448.99 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Corn | bu | 3.88 | 135.0000 | 523.80 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 523.80 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 6.50 | 1.0000 | 6.50 | _____ |
| FERTILIZERS | acre | 144.25 | 1.0000 | 144.25 | _____ |
| HERBICIDES | acre | 45.08 | 1.0000 | 45.08 | _____ |
| SEED/PLANTS | acre | 91.56 | 1.0000 | 91.56 | _____ |
| HAULING | acre | 31.05 | 1.0000 | 31.05 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.2283 | 2.06 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.5508 | 7.39 | _____ |
| UNALLOCATED LABOR | hour | 13.41 | 0.4957 | 6.65 | _____ |
| DIESEL FUEL | gal | 2.00 | 5.4448 | 10.89 | _____ |
| REPAIR & MAINTENANCE | acre | 13.61 | 1.0000 | 13.61 | _____ |
| INTEREST ON OP. CAP. | acre | 9.49 | 1.0000 | 9.49 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 409.19 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 114.61 | _____ |
| TOTAL FIXED EXPENSES | | | | 39.80 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 448.99 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | 74.81 | _____ |

Note: Cost of production estimates are based on 2015 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
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| 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 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 2.0000 | | | | |
| Clarity | pt | | | | | 0.5000 | | | | |
| Spin Spreader | 5 ton | MFWD 170 | 0.042 | 1.00 | Mar | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.0870 | | | | |
| Potash (60% K2O) | cwt | | | | | 0.8300 | | | | |
| NT Plant&Pre-Rigid | 8R-30 | MFWD 170 | 0.105 | 1.00 | Mar | | 0.10 | 0.10 | 0.21 | 0.09 |
| Corn Seed B2RR | thous | | | | | 28.0000 | | | | |
| Fert 10-34-0 | cwt | | | | | 0.5000 | | | | |
| Spray (Broadcast) | 27' | MFWD 170 | 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) | 8R-30 | MFWD 170 | 0.098 | 1.00 | Apr | | 0.09 | 0.09 | 0.14 | 0.08 |
| UAN (32% N) | cwt | | | | | 5.0000 | | | | |
| Corn Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| 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 170 | 0.031 | 1.00 | Sep | | 0.03 | 0.03 | 0.03 | 0.02 |
| Haul Corn | bu | | | | | 135.0000 | | | | |
| Stalk Shredder Flex | 20' | MFWD 170 | 0.082 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.07 |
| TOTALS | | | | | | | 0.55 | 0.55 | 0.77 | 0.49 |

Note: Cost of production estimates are based on 2015 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
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| 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 | | | | | | 0.15 | 3.45 | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | | 1.37 | 31.73 | 31.73 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | 6.69 |
| Glyphosate 3lbs a.e | pt | 4.52 | | | | | | 0.14 | 4.66 | 4.66 |
| Clarity | pt | 6.45 | | | | | | 0.19 | 6.64 | 6.64 |
| Spin Spreader | 5 ton | | 0.74 | 0.51 | 1.45 | | | 0.07 | 2.77 | 1.95 4.72 |
| DAP | cwt | 30.60 | | | | | | 0.80 | 31.40 | 31.40 |
| Potash (60% K2O) | cwt | 17.65 | | | | | | 0.46 | 18.11 | 18.11 |
| NT Plant&Pre-Rigid | 8R-30 | | 1.85 | 2.28 | 3.66 | | | 0.20 | 7.99 | 6.77 14.76 |
| Corn Seed B2RR | thous | 91.56 | | | | | | 2.40 | 93.96 | 93.96 |
| Fert 10-34-0 | cwt | 16.25 | | | | | | 0.43 | 16.68 | 16.68 |
| Spray (Broadcast) | 27' | | 1.10 | 0.49 | 1.88 | | | 0.08 | 3.55 | 2.24 5.79 |
| Atrazine 4L | pt | 8.12 | | | | | | 0.18 | 8.30 | 8.30 |
| Halex GT | pt | 25.99 | | | | | | 0.58 | 26.57 | 26.57 |
| Fert Appl (Liquid) | 8R-30 | | 1.72 | 1.31 | 2.94 | | | 0.13 | 6.10 | 4.11 10.21 |
| UAN (32% N) | cwt | 79.75 | | | | | | 1.79 | 81.54 | 81.54 |
| Corn Consultant | acre | 7.00 | | | | | | 0.13 | 7.13 | 7.13 |
| Header - Corn | 8R-30 | | 3.48 | 6.04 | 3.25 | | | 0.05 | 12.82 | 19.32 32.14 |
| Grain Cart Corn | 500 bu | | 0.56 | 0.37 | 0.82 | | | 0.01 | 1.76 | 1.40 3.16 |
| Haul Corn | bu | 31.05 | | | | | | 0.12 | 31.17 | 31.17 |
| Stalk Shredder Flex | 20' | | 1.44 | 2.61 | 2.10 | | | 0.02 | 6.17 | 4.01 10.18 |
| TOTALS | | 359.10 | 10.89 | 13.61 | 16.10 | 0.00 | 9.49 | 409.19 | 39.80 | 448.99 |

Note: Cost of production estimates are based on 2015 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
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 523.80 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 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 | 64.50 | 79.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 10.97 | 0.00 | 34.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.56 | 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 | 31.05 |
| CUSTOM LIME | 30.36 | 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 | 7.00 | 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.11 | 4.82 | 0.00 | 0.00 | 0.00 | 0.00 | 6.17 |
| 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 | 2.59 | 2.82 | 0.00 | 0.00 | 0.00 | 0.00 | 5.48 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.79 | 1.80 | 0.00 | 0.00 | 0.00 | 0.00 | 9.02 |
| INTEREST ON OP. CAP. | 1.52 | 0.00 | 0.00 | 0.00 | 0.52 | 4.36 | 2.76 | 0.13 | 0.00 | 0.00 | 0.00 | 0.20 |
| TOTAL DIRECT EXPENSES | 35.18 | 0.00 | 0.00 | 0.00 | 17.99 | 170.91 | 126.06 | 7.13 | 0.00 | 0.00 | 0.00 | 51.92 |
| NET INCOME | -35.18 | 0.00 | 0.00 | 0.00 | -17.99 | -170.91 | -126.06 | -7.13 | 0.00 | 0.00 | 0.00 | 471.88 |
| NET INCOME TO DATE | -35.18 | -35.18 | -35.18 | -35.18 | -53.17 | -224.08 | -350.14 | -357.27 | -357.27 | -357.27 | -357.27 | 114.61 |

Note: Cost of production estimates are based on 2015 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
 Corn, no-tillage, BtRR, 12-row 30", 135 bu yield goal
 Non-Delta Areas, Mississippi, 2016

| PRODUCT | ---PERCENT--- | | | | | | | | | | ---PRODUCT PRICE--- | | | | | | | | | | | | | |
|---------|--------------------------|----|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 2.91 | 3.10 | 3.29 | 3.49 | 3.68 | 3.88 | 4.07 | 4.26 | 4.46 | 4.65 | 4.85 | | |
| Corn | | | | | | | | | | | | | | | | | | | | | | | | |
| PERCENT | YIELD UNIT ---dollars--- | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 67.50 | bu | -197 | -184 | -170 | -157 | -144 | -131 | -118 | -105 | -92 | -79 | -66 | -236 | -223 | -210 | -197 | -184 | -171 | -158 | -145 | -132 | -119 | -106 |
| 60 | 81.00 | bu | -161 | -145 | -129 | -113 | -98 | -82 | -66 | -51 | -35 | -19 | -3 | -200 | -185 | -169 | -153 | -137 | -122 | -106 | -90 | -75 | -59 | -43 |
| 70 | 94.50 | bu | -124 | -106 | -88 | -69 | -51 | -33 | -14 | 3 | 21 | 40 | 58 | -164 | -146 | -127 | -109 | -91 | -72 | -54 | -36 | -17 | 0 | 18 |
| 80 | 108.00 | bu | -88 | -67 | -46 | -25 | -4 | 16 | 37 | 57 | 78 | 99 | 120 | -128 | -107 | -86 | -65 | -44 | -23 | -2 | 18 | 39 | 60 | 81 |
| 90 | 121.50 | bu | -52 | -28 | -5 | 18 | 41 | 65 | 88 | 112 | 136 | 159 | 183 | -92 | -68 | -45 | -21 | 1 | 25 | 49 | 72 | 96 | 119 | 143 |
| 100 | 135.00 | bu | -16 | 9 | 36 | 62 | 88 | 114 | 140 | 166 | 193 | 219 | 245 | -56 | -29 | -3 | 22 | 48 | 74 | 101 | 127 | 153 | 179 | 205 |
| 110 | 148.50 | bu | 19 | 48 | 77 | 106 | 135 | 163 | 192 | 221 | 250 | 279 | 307 | -19 | 8 | 37 | 66 | 95 | 124 | 152 | 181 | 210 | 239 | 268 |
| 120 | 162.00 | bu | 55 | 87 | 118 | 150 | 181 | 213 | 244 | 275 | 307 | 338 | 370 | 16 | 47 | 79 | 110 | 141 | 173 | 204 | 236 | 267 | 299 | 330 |
| 130 | 175.50 | bu | 92 | 126 | 160 | 194 | 228 | 262 | 296 | 330 | 364 | 398 | 432 | 52 | 86 | 120 | 154 | 188 | 222 | 256 | 290 | 324 | 358 | 392 |
| 140 | 189.00 | bu | 128 | 164 | 201 | 238 | 274 | 311 | 348 | 384 | 421 | 458 | 494 | 88 | 125 | 161 | 198 | 235 | 271 | 308 | 345 | 381 | 418 | 455 |
| 150 | 202.50 | bu | 164 | 203 | 243 | 282 | 321 | 360 | 400 | 439 | 478 | 518 | 557 | 124 | 163 | 203 | 242 | 281 | 321 | 360 | 399 | 438 | 478 | 517 |

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 2015 input prices.

Table 7.A Estimated costs per acre
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 1.0000 | 6.50 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.3000 | 36.60 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 1.0000 | 21.27 | _____ |
| UAN + Sulfur (28%) | cwt | 16.33 | 4.2500 | 69.40 | _____ |
| HERBICIDES | | | | | |
| Glyphosate 3lbs a.e | pt | 2.26 | 2.0000 | 4.52 | _____ |
| 2,4-D Amine 4 | pt | 2.44 | 2.0000 | 4.88 | _____ |
| Lexar | pt | 7.56 | 6.0000 | 45.36 | _____ |
| INSECTICIDES | | | | | |
| Sivanto | oz | 2.40 | 4.0000 | 9.60 | _____ |
| Karate Z | oz | 2.80 | 1.5000 | 4.20 | _____ |
| Prevathon | oz | 1.25 | 14.0000 | 17.50 | _____ |
| Transform WG | oz | 7.74 | 1.0000 | 7.74 | _____ |
| SEED/PLANTS | | | | | |
| Sorghum Concept+ Po | lb | 3.60 | 6.0000 | 21.60 | _____ |
| ADJUVANTS | | | | | |
| Surfactant | pt | 5.35 | 0.3000 | 1.60 | _____ |
| HAULING | | | | | |
| Haul Sorghum | bu | 0.25 | 100.0000 | 25.00 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Soybeans Consultant | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.3120 | 4.18 | _____ |
| Harvesters | hour | 13.40 | 0.1021 | 1.37 | _____ |
| Self-Propelled | hour | 13.40 | 0.0661 | 0.90 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1442 | 1.31 | _____ |
| Self-Propelled | hour | 9.06 | 0.0330 | 0.30 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.41 | 0.4322 | 5.80 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 2.7303 | 5.47 | _____ |
| Harvesters | gal | 2.00 | 1.3935 | 2.79 | _____ |
| Self-Propelled | gal | 2.00 | 0.8505 | 1.70 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 4.90 | 1.0000 | 4.90 | _____ |
| Tractors | acre | 1.62 | 1.0000 | 1.62 | _____ |
| Harvesters | acre | 3.35 | 1.0000 | 3.35 | _____ |
| Self-Propelled | acre | 0.75 | 1.0000 | 0.75 | _____ |
| INTEREST ON OP. CAP. | acre | 7.49 | 1.0000 | 7.49 | _____ |
| TOTAL DIRECT EXPENSES | | | | 358.36 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 9.62 | 1.0000 | 9.62 | _____ |
| Tractors | acre | 10.18 | 1.0000 | 10.18 | _____ |
| Harvesters | acre | 13.23 | 1.0000 | 13.23 | _____ |
| Self-Propelled | acre | 4.95 | 1.0000 | 4.95 | _____ |
| TOTAL FIXED EXPENSES | | | | 37.98 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 396.34 | _____ |

Note: Cost of production estimates are based on 2015 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Grain Sorghum | bu | 3.69 | 100.0000 | 369.00 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 369.00 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 6.50 | 1.0000 | 6.50 | _____ |
| FERTILIZERS | acre | 127.27 | 1.0000 | 127.27 | _____ |
| HERBICIDES | acre | 54.76 | 1.0000 | 54.76 | _____ |
| INSECTICIDES | acre | 39.04 | 1.0000 | 39.04 | _____ |
| SEED/PLANTS | acre | 21.60 | 1.0000 | 21.60 | _____ |
| ADJUVANTS | acre | 1.60 | 1.0000 | 1.60 | _____ |
| HAULING | acre | 25.00 | 1.0000 | 25.00 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 7.00 | 1.0000 | 7.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1772 | 1.61 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.4803 | 6.45 | _____ |
| UNALLOCATED LABOR | hour | 13.41 | 0.4322 | 5.80 | _____ |
| DIESEL FUEL | gal | 2.00 | 4.9745 | 9.96 | _____ |
| REPAIR & MAINTENANCE | acre | 10.62 | 1.0000 | 10.62 | _____ |
| INTEREST ON OP. CAP. | acre | 7.49 | 1.0000 | 7.49 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 358.36 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | 10.64 | _____ |
| TOTAL FIXED EXPENSES | | | | 37.98 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 396.34 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | -27.34 | _____ |

Note: Cost of production estimates are based on 2015 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| 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 | | | | |
| Disk Harrow | 24' | MFWD 170 | 0.081 | 1.00 | Nov | | 0.08 | 0.08 | 0.08 | 0.07 |
| App by Air (5 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Glyphosate 3lbs a.e | pt | | | | | 2.0000 | | | | |
| 2,4-D Amine 4 | pt | | | | | 2.0000 | | | | |
| Surfactant | pt | | | | | 0.3000 | | | | |
| Spin Spreader | 5 ton | MFWD 170 | 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 170 | 0.046 | 1.00 | Apr | | 0.04 | 0.04 | 0.04 | 0.04 |
| Plant - Folding | 12R-30 | MFWD 170 | 0.062 | 1.00 | Apr | | 0.06 | 0.06 | 0.12 | 0.05 |
| Sorghum Concept+ Po | lb | | | | | 6.0000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Apr | | | 0.01 | 0.01 | 0.01 |
| Lexar | pt | | | | | 6.0000 | | | | |
| Soybeans Consultant | acre | | | 1.00 | May | 1.0000 | | | | |
| Fert Appl (Liquid) | 12R-30 | MFWD 170 | 0.078 | 1.00 | May | | 0.07 | 0.07 | 0.11 | 0.07 |
| UAN + Sulfur (28%) | cwt | | | | | 4.2500 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jun | | | 0.01 | 0.01 | 0.01 |
| Sivanto | oz | | | | | 4.0000 | | | | |
| Sprayer 800gal | 80' 250hp | | 0.013 | 1.00 | Jul | | | 0.01 | 0.01 | 0.01 |
| Karate Z | 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 |
| Transform WG | oz | | | | | 1.0000 | | | | |
| 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 | | | | | | | 0.48 | 0.41 | 0.65 | 0.43 |

Note: Cost of production estimates are based on 2015 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| 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 | | | | | | 0.15 | 3.45 | 3.45 |
| Lime (Spread) | ton | 30.36 | | | | | | 1.37 | 31.73 | 31.73 |
| Disk Harrow | 24' | | 1.43 | 1.43 | 2.09 | | | 0.20 | 5.15 | 4.81 9.96 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | 6.69 |
| Glyphosate 3lbs a.e | pt | 4.52 | | | | | | 0.14 | 4.66 | 4.66 |
| 2,4-D Amine 4 | pt | 4.88 | | | | | | 0.15 | 5.03 | 5.03 |
| Surfactant | pt | 1.60 | | | | | | 0.05 | 1.65 | 1.65 |
| Spin Spreader | 5 ton | | 0.74 | 0.51 | 1.45 | | | 0.06 | 2.76 | 1.95 4.71 |
| DAP | cwt | 36.60 | | | | | | 0.82 | 37.42 | 37.42 |
| Potash (60% K2O) | cwt | 21.27 | | | | | | 0.48 | 21.75 | 21.75 |
| Field Cultivate Fld | 32' | | 0.82 | 0.70 | 1.19 | | | 0.06 | 2.77 | 3.45 6.22 |
| Plant - Folding | 12R-30 | | 1.10 | 1.81 | 2.17 | | | 0.11 | 5.19 | 4.88 10.07 |
| Sorghum Concept+ Po | lb | 21.60 | | | | | | 0.49 | 22.09 | 22.09 |
| Sprayer 800gal | 80' 250hp | | 0.34 | 0.15 | 0.40 | | | 0.02 | 0.91 | 0.99 1.90 |
| Lexar | pt | 45.36 | | | | | | 1.02 | 46.38 | 46.38 |
| Soybeans Consultant | acre | 7.00 | | | | | | 0.13 | 7.13 | 7.13 |
| Fert Appl (Liquid) | 12R-30 | | 1.38 | 1.35 | 2.36 | | | 0.10 | 5.19 | 3.63 8.82 |
| UAN + Sulfur (28%) | cwt | 69.40 | | | | | | 1.30 | 70.70 | 70.70 |
| Sprayer 800gal | 80' 250hp | | 0.34 | 0.15 | 0.40 | | | 0.01 | 0.90 | 0.99 1.89 |
| Sivanto | oz | 9.60 | | | | | | 0.14 | 9.74 | 9.74 |
| Sprayer 800gal | 80' 250hp | | 0.34 | 0.15 | 0.40 | | | 0.01 | 0.90 | 0.99 1.89 |
| Karate Z | oz | 4.20 | | | | | | 0.05 | 4.25 | 4.25 |
| Sprayer 800gal | 80' 250hp | | 0.34 | 0.15 | 0.40 | | | 0.01 | 0.90 | 0.99 1.89 |
| Prevathon | oz | 17.50 | | | | | | 0.20 | 17.70 | 17.70 |
| Sprayer 800gal | 80' 250hp | | 0.34 | 0.15 | 0.40 | | | 0.01 | 0.90 | 0.99 1.89 |
| Transform WG | oz | 7.74 | | | | | | 0.09 | 7.83 | 7.83 |
| Header Wheat/Sorghum | 25' Rigid | | 2.79 | 4.07 | 2.60 | | | 0.04 | 9.50 | 14.31 23.81 |
| Haul Sorghum | bu | 25.00 | | | | | | 0.09 | 25.09 | 25.09 |
| TOTALS | | 316.43 | 9.96 | 10.62 | 13.86 | 0.00 | 7.49 | 358.36 | 37.98 | 396.34 |

Note: Cost of production estimates are based on 2015 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| ITEM | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 369.00 |
| -----dollars----- | | | | | | | | | | | | |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 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 | 57.87 | 69.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 9.40 | 0.00 | 45.36 | 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 | 9.60 | 29.44 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ADJUVANTS | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 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 | 30.36 | 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 | 7.00 | 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 | 0.00 | 2.09 | 0.00 | 0.00 | 0.00 | 0.00 | 5.21 | 2.36 | 0.40 | 1.20 | 0.00 | 2.60 |
| 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 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 1.38 | 0.34 | 1.02 | 0.00 | 2.79 |
| REPAIR & MAINTENANCE | 0.00 | 1.43 | 0.00 | 0.00 | 0.00 | 0.00 | 3.17 | 1.35 | 0.15 | 0.45 | 0.00 | 4.07 |
| INTEREST ON OP. CAP. | 1.52 | 0.20 | 0.00 | 0.00 | 0.53 | 0.00 | 3.06 | 1.53 | 0.15 | 0.37 | 0.00 | 0.13 |
| TOTAL DIRECT EXPENSES | 35.18 | 5.15 | 0.00 | 0.00 | 18.03 | 0.00 | 139.27 | 83.02 | 10.64 | 32.48 | 0.00 | 34.59 |
| NET INCOME | -35.18 | -5.15 | 0.00 | 0.00 | -18.03 | 0.00 | -139.27 | -83.02 | -10.64 | -32.48 | 0.00 | 334.41 |
| NET INCOME TO DATE | -35.18 | -40.33 | -40.33 | -40.33 | -58.36 | -58.36 | -197.63 | -280.65 | -291.29 | -323.77 | -323.77 | 10.64 |

Note: Cost of production estimates are based on 2015 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
 Grain sorghum, 12-row 30", 100 bu yield goal
 All Areas, Mississippi, 2016

| PRODUCT | PERCENT | | | | | | | | | | PRODUCT PRICE | | | |
|---------------|------------|------|------|------|------|------|------|------|------|------|---------------|------|------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | | | | |
| Grain Sorghum | 2.76 | 2.95 | 3.13 | 3.32 | 3.50 | 3.69 | 3.87 | 4.05 | 4.24 | 4.42 | 4.61 | | | |
| PERCENT | YIELD UNIT | | | | | | | | | | | | | |
| 50 | 50.00 | bu | -207 | -198 | -188 | -179 | -170 | -161 | -152 | -142 | -133 | -124 | -115 | -109 |
| | | | -245 | -236 | -226 | -217 | -208 | -199 | -190 | -180 | -171 | -162 | -153 | -146 |
| 60 | 60.00 | bu | -182 | -171 | -160 | -149 | -137 | -126 | -115 | -104 | -93 | -82 | -71 | -65 |
| | | | -220 | -209 | -198 | -187 | -175 | -164 | -153 | -142 | -131 | -120 | -109 | -102 |
| 70 | 70.00 | bu | -157 | -144 | -131 | -118 | -105 | -92 | -79 | -66 | -53 | -40 | -27 | -21 |
| | | | -195 | -182 | -169 | -156 | -143 | -130 | -117 | -104 | -91 | -78 | -65 | -58 |
| 80 | 80.00 | bu | -131 | -117 | -102 | -87 | -72 | -58 | -43 | -28 | -13 | 0 | 15 | 21 |
| | | | -169 | -155 | -140 | -125 | -110 | -96 | -81 | -66 | -51 | -37 | -22 | -15 |
| 90 | 90.00 | bu | -106 | -90 | -73 | -56 | -40 | -23 | -7 | 9 | 26 | 42 | 59 | 64 |
| | | | -144 | -128 | -111 | -94 | -78 | -61 | -45 | -28 | -11 | 4 | 21 | 28 |
| 100 | 100.00 | bu | -81 | -63 | -44 | -26 | -7 | 10 | 29 | 47 | 65 | 84 | 102 | 108 |
| | | | -119 | -101 | -82 | -64 | -45 | -27 | -8 | 9 | 28 | 46 | 64 | 71 |
| 110 | 110.00 | bu | -56 | -36 | -15 | 4 | 24 | 45 | 65 | 85 | 105 | 126 | 146 | 152 |
| | | | -94 | -74 | -53 | -33 | -13 | 7 | 27 | 47 | 67 | 88 | 108 | 115 |
| 120 | 120.00 | bu | -31 | -9 | 13 | 35 | 57 | 79 | 101 | 123 | 145 | 167 | 190 | 195 |
| | | | -69 | -47 | -24 | -2 | 19 | 41 | 63 | 85 | 107 | 130 | 152 | 159 |
| 130 | 130.00 | bu | -6 | 17 | 41 | 65 | 89 | 113 | 137 | 161 | 185 | 209 | 233 | 239 |
| | | | -44 | -20 | 3 | 27 | 51 | 75 | 99 | 123 | 147 | 171 | 195 | 202 |
| 140 | 140.00 | bu | 19 | 44 | 70 | 96 | 122 | 148 | 174 | 199 | 225 | 251 | 277 | 282 |
| | | | -18 | 6 | 32 | 58 | 84 | 110 | 136 | 161 | 187 | 213 | 239 | 246 |
| 150 | 150.00 | bu | 44 | 71 | 99 | 127 | 154 | 182 | 210 | 237 | 265 | 293 | 320 | 325 |
| | | | 6 | 33 | 61 | 89 | 116 | 144 | 172 | 199 | 227 | 255 | 282 | 289 |

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 2015 input prices.

Table 8.A Estimated costs per acre
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | | | | | |
| App by Air (5 gal) | appl | 6.50 | 3.0000 | 19.50 | _____ |
| App by Air (3 gal) | appl | 5.00 | 1.0000 | 5.00 | _____ |
| FERTILIZERS | | | | | |
| DAP | cwt | 28.15 | 1.0000 | 28.15 | _____ |
| Potash (60% K2O) | cwt | 21.27 | 0.7500 | 15.95 | _____ |
| Fert 41-0-0-4 | cwt | 20.50 | 2.8000 | 57.40 | _____ |
| FUNGICIDES | | | | | |
| CruiserMaxx | oz | 4.44 | 4.5000 | 19.98 | _____ |
| Prosaro | oz | 2.77 | 8.0000 | 22.16 | _____ |
| HERBICIDES | | | | | |
| Axiom 68DF | oz | 0.23 | 10.0000 | 2.30 | _____ |
| Harmony Extra SG TS | oz | 29.95 | 0.7500 | 22.46 | _____ |
| Axial XL | oz | 1.10 | 16.4000 | 18.04 | _____ |
| INSECTICIDES | | | | | |
| Karate Z | oz | 2.80 | 1.5000 | 4.20 | _____ |
| SEED/PLANTS | | | | | |
| Wheat Seed Private | lb | 0.38 | 90.0000 | 34.20 | _____ |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | 2.8000 | 19.60 | _____ |
| HAULING | | | | | |
| Haul Wheat | bu | 0.26 | 70.0000 | 18.20 | _____ |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | 0.6600 | 30.36 | _____ |
| CROP CONSULTANT | | | | | |
| Wheat Consultant | acre | 5.00 | 1.0000 | 5.00 | _____ |
| SOIL TEST | | | | | |
| Soil Test | acre | 10.00 | 0.3300 | 3.30 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 13.40 | 0.2648 | 3.55 | _____ |
| Harvesters | hour | 13.40 | 0.1021 | 1.37 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 9.06 | 0.1363 | 1.23 | _____ |
| UNALLOCATED LABOR | | | | | |
| | hour | 13.41 | 0.2936 | 3.94 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.00 | 2.3178 | 4.64 | _____ |
| Harvesters | gal | 2.00 | 1.3935 | 2.79 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 3.84 | 1.0000 | 3.84 | _____ |
| Tractors | acre | 1.37 | 1.0000 | 1.37 | _____ |
| Harvesters | acre | 3.35 | 1.0000 | 3.35 | _____ |
| INTEREST ON OP. CAP. | acre | 8.89 | 1.0000 | 8.89 | _____ |
| TOTAL DIRECT EXPENSES | | | | 360.77 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 8.34 | 1.0000 | 8.34 | _____ |
| Tractors | acre | 8.64 | 1.0000 | 8.64 | _____ |
| Harvesters | acre | 13.23 | 1.0000 | 13.23 | _____ |
| TOTAL FIXED EXPENSES | | | | 30.21 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 390.98 | _____ |

Note: Cost of production estimates are based on 2015 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
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--|------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| INCOME | | | | | |
| Wheat | bu | 5.11 | 70.0000 | 357.70 | _____ |
| | | | | ----- | |
| TOTAL INCOME | | | | 357.70 | _____ |
| DIRECT EXPENSES | | | | | |
| CUSTOM SPRAY | acre | 24.50 | 1.0000 | 24.50 | _____ |
| FERTILIZERS | acre | 101.50 | 1.0000 | 101.50 | _____ |
| FUNGICIDES | acre | 42.14 | 1.0000 | 42.14 | _____ |
| HERBICIDES | acre | 42.80 | 1.0000 | 42.80 | _____ |
| INSECTICIDES | acre | 4.20 | 1.0000 | 4.20 | _____ |
| SEED/PLANTS | acre | 34.20 | 1.0000 | 34.20 | _____ |
| CUSTOM FERTILIZE | acre | 19.60 | 1.0000 | 19.60 | _____ |
| HAULING | acre | 18.20 | 1.0000 | 18.20 | _____ |
| CUSTOM LIME | acre | 30.36 | 1.0000 | 30.36 | _____ |
| CROP CONSULTANT | acre | 5.00 | 1.0000 | 5.00 | _____ |
| SOIL TEST | acre | 3.30 | 1.0000 | 3.30 | _____ |
| HAND LABOR | hour | 9.06 | 0.1363 | 1.23 | _____ |
| OPERATOR LABOR | hour | 13.40 | 0.3670 | 4.92 | _____ |
| UNALLOCATED LABOR | hour | 13.41 | 0.2936 | 3.94 | _____ |
| DIESEL FUEL | gal | 2.00 | 3.7114 | 7.43 | _____ |
| REPAIR & MAINTENANCE | acre | 8.56 | 1.0000 | 8.56 | _____ |
| INTEREST ON OP. CAP. | acre | 8.89 | 1.0000 | 8.89 | _____ |
| | | | | ----- | |
| TOTAL DIRECT EXPENSES | | | | 360.77 | _____ |
| RETURNS ABOVE DIRECT EXPENSES | | | | -3.07 | _____ |
| TOTAL FIXED EXPENSES | | | | 30.21 | _____ |
| | | | | ----- | |
| TOTAL SPECIFIED EXPENSES | | | | 390.98 | _____ |
| RETURNS ABOVE TOTAL SPECIFIED EXPENSES | | | | -33.28 | _____ |

Note: Cost of production estimates are based on 2015 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
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

| 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 | 0.3300 | | | | |
| Lime (Spread) | ton | | | 0.33 | Sep | 0.6600 | | | | |
| Disk Harrow | 24' | MFWD 170 | 0.081 | 1.00 | Sep | | 0.08 | 0.08 | 0.08 | 0.06 |
| Spin Spreader | 5 ton | MFWD 170 | 0.042 | 1.00 | Sep | | 0.04 | 0.04 | 0.08 | 0.03 |
| DAP | cwt | | | | | 1.0000 | | | | |
| Potash (60% K2O) | cwt | | | | | 0.7500 | | | | |
| Field Cultivate Fld | 32' | MFWD 170 | 0.046 | 1.00 | Sep | | 0.04 | 0.04 | 0.04 | 0.03 |
| Grain Drill | 20' | MFWD 170 | 0.094 | 1.00 | Oct | | 0.09 | 0.09 | 0.18 | 0.07 |
| Wheat Seed Private | lb | | | | | 90.0000 | | | | |
| CruiserMaxx | oz | | | | | 4.5000 | | | | |
| Wheat Consultant | acre | | | 1.00 | Oct | 1.0000 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Nov | 1.0000 | | | | |
| Axiom 68DF | oz | | | | | 10.0000 | | | | |
| Harmony Extra SG TS | oz | | | | | 0.7500 | | | | |
| App by Air (5 gal) | appl | | | 1.00 | Jan | 1.0000 | | | | |
| Axial XL | oz | | | | | 16.4000 | | | | |
| App by Air (3 gal) | appl | | | 1.00 | Feb | 1.0000 | | | | |
| Karate Z | oz | | | | | 1.5000 | | | | |
| App Fert by Air | cwt | | | 1.00 | Feb | 1.4000 | | | | |
| Fert 41-0-0-4 | cwt | | | | | 1.4000 | | | | |
| App Fert by Air | cwt | | | 1.00 | Mar | 1.4000 | | | | |
| Fert 41-0-0-4 | cwt | | | | | 1.4000 | | | | |
| 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 | | | | | | | 0.36 | 0.36 | 0.50 | 0.29 |

Note: Cost of production estimates are based on 2015 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
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

| 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 | 30.36 | | | | | | 1.14 | 31.50 | | 31.50 |
| Disk Harrow | 24' | | 1.43 | 1.43 | 1.98 | | | 0.18 | 5.02 | 4.81 | 9.83 |
| Spin Spreader | 5 ton | | 0.74 | 0.51 | 1.39 | | | 0.10 | 2.74 | 1.95 | 4.69 |
| DAP | cwt | 28.15 | | | | | | 1.06 | 29.21 | | 29.21 |
| Potash (60% K2O) | cwt | 15.95 | | | | | | 0.60 | 16.55 | | 16.55 |
| Field Cultivate Fld | 32' | | 0.82 | 0.70 | 1.13 | | | 0.10 | 2.75 | 3.45 | 6.20 |
| Grain Drill | 20' | | 1.65 | 1.85 | 3.12 | | | 0.22 | 6.84 | 5.69 | 12.53 |
| Wheat Seed Private | lb | 34.20 | | | | | | 1.15 | 35.35 | | 35.35 |
| CruiserMaxx | oz | 19.98 | | | | | | 0.67 | 20.65 | | 20.65 |
| Wheat Consultant | acre | 5.00 | | | | | | 0.17 | 5.17 | | 5.17 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.19 | 6.69 | | 6.69 |
| Axiom 68DF | oz | 2.30 | | | | | | 0.07 | 2.37 | | 2.37 |
| Harmony Extra SG TS | oz | 22.46 | | | | | | 0.67 | 23.13 | | 23.13 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.15 | 6.65 | | 6.65 |
| Axial XL | oz | 18.04 | | | | | | 0.41 | 18.45 | | 18.45 |
| App by Air (3 gal) | appl | 5.00 | | | | | | 0.09 | 5.09 | | 5.09 |
| Karate Z | oz | 4.20 | | | | | | 0.08 | 4.28 | | 4.28 |
| App Fert by Air | cwt | 9.80 | | | | | | 0.18 | 9.98 | | 9.98 |
| Fert 41-0-0-4 | cwt | 28.70 | | | | | | 0.54 | 29.24 | | 29.24 |
| App Fert by Air | cwt | 9.80 | | | | | | 0.15 | 9.95 | | 9.95 |
| Fert 41-0-0-4 | cwt | 28.70 | | | | | | 0.43 | 29.13 | | 29.13 |
| App by Air (5 gal) | appl | 6.50 | | | | | | 0.07 | 6.57 | | 6.57 |
| Prosaro | oz | 22.16 | | | | | | 0.25 | 22.41 | | 22.41 |
| Header Wheat/Sorghum | 25' Rigid | | 2.79 | 4.07 | 2.47 | | | 0.03 | 9.36 | 14.31 | 23.67 |
| Haul Wheat | bu | 18.20 | | | | | | 0.07 | 18.27 | | 18.27 |
| TOTALS | | 325.80 | 7.43 | 8.56 | 10.09 | 0.00 | 8.89 | 360.77 | 30.21 | 390.98 | |

Note: Cost of production estimates are based on 2015 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
 Wheat followed by soybeans, 70 bu yield goal
 All Areas, Mississippi, 2016

| ITEM | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|-----------------------|------|------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| TOTAL INCOME | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 357.70 |
| DIRECT EXPENSES | | | | | | | | | | | | |
| CUSTOM SPRAY | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 0.00 | 6.50 | 5.00 | 0.00 | 6.50 | 0.00 | 0.00 |
| FERTILIZERS | 0.00 | 0.00 | 44.10 | 0.00 | 0.00 | 0.00 | 0.00 | 28.70 | 28.70 | 0.00 | 0.00 | 0.00 |
| FUNGICIDES | 0.00 | 0.00 | 0.00 | 19.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.16 | 0.00 | 0.00 |
| HERBICIDES | 0.00 | 0.00 | 0.00 | 0.00 | 24.76 | 0.00 | 18.04 | 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 | 4.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| SEED/PLANTS | 0.00 | 0.00 | 0.00 | 34.20 | 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 | 9.80 | 9.80 | 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 | 30.36 | 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 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOIL TEST | 0.00 | 0.00 | 3.30 | 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 | 3.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.47 |
| LEASE * | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL | 0.00 | 0.00 | 2.99 | 1.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.79 |
| REPAIR & MAINTENANCE | 0.00 | 0.00 | 2.64 | 1.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.07 |
| INTEREST ON OP. CAP. | 0.00 | 0.00 | 3.30 | 2.21 | 0.93 | 0.00 | 0.56 | 0.89 | 0.58 | 0.32 | 0.00 | 0.10 |
| TOTAL DIRECT EXPENSES | 0.00 | 0.00 | 91.19 | 68.01 | 32.19 | 0.00 | 25.10 | 48.59 | 39.08 | 28.98 | 0.00 | 27.63 |
| NET INCOME | 0.00 | 0.00 | -91.19 | -68.01 | -32.19 | 0.00 | -25.10 | -48.59 | -39.08 | -28.98 | 0.00 | 330.07 |
| NET INCOME TO DATE | 0.00 | 0.00 | -91.19 | -159.20 | -191.39 | -191.39 | -216.49 | -265.08 | -304.16 | -333.14 | -333.14 | -3.07 |

Note: Cost of production estimates are based on 2015 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
Wheat followed by soybeans, 70 bu yield goal
All Areas, Mississippi, 2016

| PRODUCT | ---PERCENT--- | | | | | | | | | | ---PRODUCT PRICE--- | | | | | | | | | | | | | |
|---------|--------------------------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | | |
| Wheat | 3.83 | 4.08 | 4.34 | 4.59 | 4.85 | 5.11 | 5.36 | 5.62 | 5.87 | 6.13 | 6.38 | | | | | | | | | | | | | |
| PERCENT | YIELD UNIT ---dollars--- | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 35.00 | bu | -217 | -208 | -199 | -190 | -181 | -172 | -163 | -154 | -145 | -137 | -128 | -247 | -238 | -229 | -220 | -211 | -202 | -194 | -185 | -176 | -167 | -158 |
| 60 | 42.00 | bu | -192 | -181 | -171 | -160 | -149 | -138 | -128 | -117 | -106 | -95 | -85 | -222 | -211 | -201 | -190 | -179 | -169 | -158 | -147 | -136 | -126 | -115 |
| 70 | 49.00 | bu | -167 | -154 | -142 | -129 | -117 | -104 | -92 | -79 | -67 | -54 | -42 | -197 | -185 | -172 | -160 | -147 | -135 | -122 | -110 | -97 | -85 | -72 |
| 80 | 56.00 | bu | -142 | -128 | -113 | -99 | -85 | -70 | -56 | -42 | -28 | -13 | 0 | -172 | -158 | -144 | -129 | -115 | -101 | -86 | -72 | -58 | -43 | -29 |
| 90 | 63.00 | bu | -117 | -101 | -85 | -69 | -53 | -37 | -20 | -4 | 11 | 27 | 43 | -147 | -131 | -115 | -99 | -83 | -67 | -51 | -35 | -18 | -2 | 13 |
| 100 | 70.00 | bu | -92 | -74 | -56 | -38 | -20 | -3 | 14 | 32 | 50 | 68 | 86 | -122 | -104 | -86 | -69 | -51 | -33 | -15 | 2 | 20 | 38 | 56 |
| 110 | 77.00 | bu | -67 | -47 | -28 | -8 | 11 | 30 | 50 | 70 | 89 | 109 | 129 | -97 | -78 | -58 | -38 | -19 | 0 | 20 | 40 | 59 | 79 | 99 |
| 120 | 84.00 | bu | -42 | -21 | 0 | 21 | 43 | 64 | 86 | 107 | 129 | 150 | 172 | -72 | -51 | -29 | -8 | 13 | 34 | 56 | 77 | 98 | 120 | 141 |
| 130 | 91.00 | bu | -17 | 5 | 29 | 52 | 75 | 98 | 122 | 145 | 168 | 191 | 215 | -47 | -24 | -1 | 22 | 45 | 68 | 91 | 115 | 138 | 161 | 184 |
| 140 | 98.00 | bu | 7 | 32 | 57 | 82 | 107 | 132 | 157 | 182 | 207 | 232 | 257 | -22 | 2 | 27 | 52 | 77 | 102 | 127 | 152 | 177 | 202 | 227 |
| 150 | 105.00 | bu | 32 | 59 | 86 | 112 | 139 | 166 | 193 | 220 | 247 | 273 | 300 | 2 | 29 | 55 | 82 | 109 | 136 | 163 | 190 | 216 | 243 | 270 |

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 2015 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, 2016

| 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 | 315,000 | 300 | 8 | 13.64 | 13.40 | 27.28 | 32.81 | 73.49 | 129.47 | 202.96 |
| Combine (300-349 hp) | 325 hp | 332,000 | 300 | 8 | 16.73 | 13.40 | 33.46 | 34.58 | 81.44 | 136.45 | 217.90 |
| Combine (350-399 hp) | 355 hp | 332,000 | 300 | 8 | 18.27 | 13.40 | 36.54 | 34.58 | 84.52 | 136.45 | 220.98 |
| Combine (400-449 hp) | 425 hp | 407,000 | 300 | 8 | 21.87 | 13.40 | 43.75 | 42.39 | 99.54 | 167.28 | 266.83 |
| Combine (450-499hp) | 475 hp | 414,000 | 300 | 8 | 24.44 | 13.40 | 48.89 | 43.12 | 105.42 | 170.16 | 275.58 |
| Tractor(20-39hp)CB | MFWD 30 | 31,000 | 600 | 8 | 1.54 | 13.40 | 3.08 | 0.96 | 17.45 | 5.82 | 23.28 |
| Tractor(20-39hp)RB | MFWD 30 | 19,900 | 600 | 8 | 1.54 | 13.40 | 3.08 | 0.62 | 17.10 | 3.74 | 20.85 |
| Tractor(40-59hp)CB | 2WD 50 | 31,100 | 600 | 8 | 2.57 | 13.40 | 5.14 | 0.97 | 19.51 | 5.84 | 25.36 |
| Tractor(40-59hp)CB | MFWD 50 | 38,100 | 600 | 8 | 2.57 | 13.40 | 5.14 | 1.19 | 19.73 | 7.16 | 26.90 |
| Tractor(40-59hp)RB | 2WD 50 | 18,500 | 600 | 8 | 2.57 | 13.40 | 5.14 | 0.57 | 19.12 | 3.47 | 22.60 |
| Tractor(40-59hp)RB | MFWD 50 | 23,600 | 600 | 8 | 2.57 | 13.40 | 5.14 | 0.73 | 19.28 | 4.43 | 23.72 |
| Tractor(60-89hp)CB | 2WD 75 | 47,700 | 600 | 8 | 3.86 | 13.40 | 7.72 | 1.49 | 22.61 | 8.97 | 31.58 |
| Tractor(60-89hp)CB | MFWD 75 | 49,300 | 600 | 8 | 3.86 | 13.40 | 7.72 | 1.54 | 22.66 | 9.27 | 31.93 |
| Tractor(60-89hp)RB | 2WD 75 | 37,000 | 600 | 8 | 3.86 | 13.40 | 7.72 | 1.15 | 22.27 | 6.95 | 29.23 |
| Tractor(60-89hp)RB | MFWD 75 | 37,800 | 600 | 8 | 3.86 | 13.40 | 7.72 | 1.18 | 22.30 | 7.10 | 29.41 |
| Tractor(90-119hp)CB | 2WD 105 | 65,300 | 600 | 8 | 5.40 | 13.40 | 10.80 | 2.04 | 26.24 | 12.28 | 38.52 |
| Tractor(90-119hp)CB | MFWD 105 | 78,300 | 600 | 8 | 5.40 | 13.40 | 10.80 | 2.44 | 26.65 | 14.72 | 41.38 |
| Tractor(90-119hp)RB | 2WD 105 | 59,900 | 600 | 8 | 5.40 | 13.40 | 10.80 | 1.87 | 26.08 | 11.26 | 37.34 |
| Tractor(90-119hp)RB | MFWD 105 | 60,300 | 600 | 8 | 5.40 | 13.40 | 10.80 | 1.88 | 26.09 | 11.33 | 37.43 |
| Tractor(120-139hp)CB | 2WD 130 | 96,300 | 600 | 8 | 6.69 | 13.40 | 13.38 | 3.00 | 29.79 | 18.10 | 47.90 |
| Tractor(120-139hp)CB | MFWD 130 | 116,000 | 600 | 8 | 6.69 | 13.40 | 13.38 | 3.62 | 30.40 | 21.81 | 52.22 |
| Tractor(140-159hp)CB | 2WD 150 | 108,000 | 600 | 8 | 7.72 | 13.40 | 15.44 | 3.37 | 32.21 | 20.30 | 52.52 |
| Tractor(140-159hp)CB | MFWD 150 | 149,000 | 600 | 8 | 7.72 | 13.40 | 15.44 | 4.65 | 33.49 | 28.02 | 61.51 |
| Tractor(160-179hp)CB | MFWD 170 | 166,000 | 600 | 8 | 8.75 | 13.40 | 17.50 | 5.18 | 36.08 | 32.66 | 68.75 |
| Tractor(180-199hp)CB | MFWD 190 | 180,000 | 600 | 8 | 9.77 | 13.40 | 19.55 | 5.62 | 38.58 | 35.42 | 74.00 |
| Tractor(200-249hp)CB | MFWD 225 | 228,000 | 600 | 8 | 11.58 | 13.40 | 23.16 | 7.12 | 43.68 | 44.86 | 88.55 |
| Tractor(200-249hp)CB | Track 225 | 277,000 | 600 | 8 | 11.58 | 13.40 | 23.16 | 8.65 | 45.21 | 54.50 | 99.72 |
| Tractor(250-349hp)CB | 4WD 300 | 282,000 | 600 | 8 | 15.44 | 13.40 | 30.88 | 8.81 | 53.09 | 55.49 | 108.58 |
| Tractor(250-349hp)CB | MFWD 300 | 287,000 | 600 | 8 | 15.44 | 13.40 | 30.88 | 8.96 | 53.25 | 56.47 | 109.72 |
| Tractor(250-349hp)CB | Track 300 | 289,000 | 600 | 8 | 15.44 | 13.40 | 30.88 | 9.03 | 53.31 | 56.86 | 110.18 |
| Tractor(350-449hp)CB | 4WD 400 | 341,000 | 600 | 8 | 20.58 | 13.40 | 41.17 | 10.65 | 65.23 | 67.10 | 132.33 |
| Tractor(350-449hp)CB | Track 400 | 364,000 | 600 | 8 | 20.58 | 13.40 | 41.17 | 11.37 | 65.95 | 71.62 | 137.58 |
| Tractor(450-550hp)CB | 4WD 500 | 383,000 | 600 | 8 | 25.73 | 13.40 | 51.47 | 11.96 | 76.84 | 75.36 | 152.20 |
| Tractor(450-550hp)CB | Track 500 | 423,000 | 600 | 8 | 25.73 | 13.40 | 51.47 | 13.21 | 78.09 | 83.23 | 161.32 |
| Utility Vehicle | 900 CC | 12,200 | 200 | 8 | 1.00 | 13.40 | 2.25 | 1.90 | 17.55 | 7.52 | 25.07 |
| Utility Vehicle | 800 CC | 9,900 | 200 | 8 | 0.70 | 13.40 | 1.57 | 1.54 | 16.52 | 6.10 | 22.62 |
| Utility Vehicle-mule | 600 CC | 7,000 | 200 | 8 | 0.50 | 13.40 | 1.12 | 1.09 | 15.61 | 4.31 | 19.93 |

Notes:

Labor: Includes allocated labor from power unit.

Total Direct: Does not include interest on operating capital.

CB = Cab, RB = Roll Bar

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, 2016

| 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 | 5.78 | 6.63 | 10.79 | 23.21 | 42.59 | 65.81 |
| Cotton Picker | 4R-38(350) | 351,000 | 200 | 8 | 18.01 | 0.257 | 5.78 | 9.28 | 14.13 | 29.21 | 55.78 | 84.99 |
| Cotton Picker | 4R2x1(350) | 357,000 | 200 | 8 | 18.01 | 0.172 | 3.87 | 6.20 | 9.61 | 19.69 | 37.92 | 57.61 |
| Cotton Picker | 6R-30(355) | 465,000 | 200 | 8 | 18.27 | 0.218 | 4.90 | 7.97 | 15.85 | 28.73 | 62.56 | 91.30 |
| Cotton Picker | 6R-38(355) | 465,000 | 200 | 8 | 18.27 | 0.172 | 3.87 | 6.29 | 12.51 | 22.68 | 49.39 | 72.08 |
| Cotton Picker/Modu | 4R-38(365) | 536,000 | 200 | 8 | 20.58 | 0.257 | 5.78 | 10.61 | 21.58 | 37.99 | 85.18 | 123.17 |
| Cotton Picker/Modu | 6R-30(500) | 727,000 | 200 | 8 | 25.73 | 0.218 | 4.90 | 11.23 | 24.79 | 40.92 | 97.82 | 138.75 |
| Cotton Picker/Modu | 6R-38(365) | 536,000 | 200 | 8 | 20.58 | 0.172 | 3.87 | 7.09 | 14.43 | 25.39 | 56.94 | 82.33 |
| Cotton Picker/Module | 6R-38(500) | 727,000 | 200 | 8 | 25.73 | 0.172 | 3.87 | 8.86 | 19.57 | 32.31 | 77.23 | 109.54 |
| Dry Applicator SP | 70'300cuft | 293,000 | 350 | 8 | 16.98 | 0.015 | 0.27 | 0.51 | 0.23 | 1.02 | 1.55 | 2.58 |
| Sprayer 600-750gal | 60' 175hp | 174,000 | 350 | 8 | 9.00 | 0.017 | 0.31 | 0.31 | 0.16 | 0.79 | 1.08 | 1.87 |
| Sprayer 600-825gal | 80' 175hp | 180,000 | 350 | 8 | 11.81 | 0.013 | 0.23 | 0.31 | 0.12 | 0.67 | 0.83 | 1.51 |
| Sprayer 600-825gal | 90' 250hp | 255,000 | 350 | 8 | 12.73 | 0.011 | 0.21 | 0.29 | 0.16 | 0.67 | 1.05 | 1.72 |
| Sprayer 800gal | 100' 250hp | 257,000 | 350 | 8 | 14.15 | 0.010 | 0.18 | 0.29 | 0.14 | 0.63 | 0.95 | 1.59 |
| Sprayer 800gal | 80' 250hp | 212,000 | 350 | 8 | 12.86 | 0.013 | 0.23 | 0.34 | 0.15 | 0.72 | 0.98 | 1.71 |
| Sprayer 1000-1400gal | 90' 275hp | 297,000 | 350 | 8 | 14.15 | 0.010 | 0.18 | 0.29 | 0.16 | 0.65 | 1.10 | 1.76 |
| Sprayer 1000gal | 100' 300hp | 301,000 | 350 | 8 | 15.44 | 0.010 | 0.18 | 0.32 | 0.17 | 0.68 | 1.12 | 1.80 |
| Sprayer 1200+gal | 120' 300hp | 336,000 | 350 | 8 | 15.44 | 0.008 | 0.15 | 0.27 | 0.15 | 0.58 | 1.04 | 1.63 |

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, 2016

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- Imp. | P.U. | Total Direct | --Fixed-- Imp. | P.U. | Total Cost | |
|----------------------|-------|------------|----------------|------------|-------------|-----------|-------------------|------|----------------|------|--------------|----------------|------|------------|-------|
| | | | dollars | hours | years | hr/ac | -----\$/acre----- | | | | | | | | |
| Bed-Paratill | Fold | 8R-38 | MFWD 225 | 54,400 | 150 | 12 | 0.080 | 1.08 | 1.87 | 1.58 | 0.57 | 5.11 | 2.75 | 3.62 | 11.49 |
| Bed-Paratill | Fold | 8R-38 2x1 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.72 | 1.24 | 1.34 | 0.38 | 3.69 | 2.32 | 2.41 | 8.43 |
| Bed-Paratill | Fold | 12R-38 | MFWD 225 | 69,100 | 150 | 12 | 0.053 | 0.72 | 1.24 | 1.34 | 0.38 | 3.69 | 2.32 | 2.41 | 8.43 |
| Bed-Paratill | Rigid | 4R-30 | MFWD 225 | 16,600 | 150 | 12 | 0.204 | 2.73 | 4.73 | 1.22 | 1.45 | 10.15 | 2.12 | 9.16 | 21.44 |
| Bed-Paratill | Rigid | 4R-38 | MFWD 225 | 13,500 | 150 | 12 | 0.160 | 2.15 | 3.72 | 0.78 | 1.14 | 7.81 | 1.36 | 7.21 | 16.39 |
| Bed-Paratill | Rigid | 6R-30 | MFWD 225 | 19,900 | 150 | 12 | 0.136 | 1.82 | 3.15 | 0.97 | 0.97 | 6.93 | 1.69 | 6.11 | 14.74 |
| Bed-Paratill | Rigid | 6R-38 | MFWD 225 | 18,800 | 150 | 12 | 0.107 | 1.44 | 2.49 | 0.73 | 0.76 | 5.42 | 1.26 | 4.82 | 11.51 |
| Bed-Paratill | Rigid | 8R-30 | MFWD 225 | 24,900 | 150 | 12 | 0.102 | 1.36 | 2.36 | 0.91 | 0.72 | 5.38 | 1.59 | 4.58 | 11.56 |
| Bed-Paratill | Rigid | 8R-38 | MFWD 225 | 24,900 | 150 | 12 | 0.080 | 1.08 | 1.87 | 0.72 | 0.57 | 4.25 | 1.25 | 3.62 | 9.13 |
| Bed-Paratill | w/rol | 4R-30 | MFWD 225 | 17,900 | 150 | 12 | 0.204 | 2.73 | 4.73 | 1.32 | 1.45 | 10.24 | 2.29 | 9.16 | 21.70 |
| Bed-Paratill | w/rol | 4R-38 | MFWD 225 | 17,900 | 150 | 12 | 0.160 | 2.15 | 3.72 | 1.03 | 1.14 | 8.06 | 1.80 | 7.21 | 17.09 |
| Bed-Paratill | w/rol | 6R-38 | MFWD 225 | 24,700 | 150 | 12 | 0.107 | 1.44 | 2.49 | 0.95 | 0.76 | 5.65 | 1.66 | 4.82 | 12.14 |
| Bed-Rip/Disk | Fold. | 8R-38 | MFWD 190 | 36,900 | 300 | 20 | 0.073 | 0.97 | 1.42 | 0.13 | 0.41 | 2.95 | 0.63 | 2.58 | 6.18 |
| Bed-Rip/Disk | Fold. | 12R-30 | MFWD 225 | 54,400 | 300 | 20 | 0.061 | 0.82 | 1.42 | 0.16 | 0.43 | 2.85 | 0.79 | 2.76 | 6.41 |
| Bed-Rip/Disk | Fold. | 12R-38 | MFWD 225 | 54,400 | 300 | 20 | 0.046 | 0.61 | 1.07 | 0.12 | 0.32 | 2.14 | 0.59 | 2.07 | 4.81 |
| Bed-Rip/Disk | Rigid | 4R-30 | MFWD 190 | 17,300 | 300 | 20 | 0.184 | 2.47 | 3.61 | 0.15 | 1.03 | 7.29 | 0.75 | 6.54 | 14.60 |
| Bed-Rip/Disk | Rigid | 4R-38 | MFWD 190 | 17,300 | 300 | 20 | 0.146 | 1.96 | 2.86 | 0.12 | 0.82 | 5.78 | 0.60 | 5.19 | 11.58 |
| Bed-Rip/Disk | Rigid | 6R-38 | MFWD 190 | 23,900 | 300 | 20 | 0.097 | 1.30 | 1.90 | 0.11 | 0.54 | 3.87 | 0.55 | 3.44 | 7.86 |
| Bed-Rip/Disk | Rigid | 8R-30 | MFWD 190 | 31,300 | 300 | 20 | 0.139 | 1.86 | 2.71 | 0.21 | 0.78 | 5.58 | 1.03 | 4.92 | 11.53 |
| Bed-Rip/Disk | Rigid | 8R-38 | MFWD 190 | 31,300 | 300 | 20 | 0.073 | 0.97 | 1.42 | 0.11 | 0.41 | 2.93 | 0.54 | 2.58 | 6.06 |
| Bed-Rip/Disk | Rigid | 6R-30 | MFWD 190 | 23,900 | 300 | 20 | 0.123 | 1.65 | 2.41 | 0.14 | 0.69 | 4.90 | 0.69 | 4.36 | 9.96 |
| Bed-Rip/Disk/Cond. | | 6-Row | MFWD 225 | 20,100 | 150 | 12 | 0.107 | 1.44 | 2.49 | 0.78 | 0.76 | 5.47 | 1.35 | 4.82 | 11.65 |
| Bed-Rip/Disk/Cond. | | 8-Row | MFWD 225 | 28,700 | 150 | 12 | 0.080 | 1.08 | 1.87 | 0.83 | 0.57 | 4.36 | 1.45 | 3.62 | 9.44 |
| Bed/Disk (Hipper) | | 4R-38 | MFWD 150 | 8,380 | 160 | 10 | 0.147 | 1.97 | 2.27 | 0.30 | 0.68 | 5.25 | 0.81 | 4.13 | 10.20 |
| Bed/Disk (Hipper) | | 6R-30 | MFWD 170 | 15,100 | 160 | 10 | 0.125 | 1.67 | 2.18 | 0.47 | 0.64 | 4.98 | 1.24 | 4.08 | 10.31 |
| Bed/Disk (Hipper) | | 6R-38 | MFWD 170 | 15,100 | 160 | 10 | 0.098 | 1.32 | 1.72 | 0.37 | 0.51 | 3.93 | 0.98 | 3.22 | 8.14 |
| Bed/Disk (Hipper) | | 8R-30 | MFWD 190 | 18,100 | 160 | 10 | 0.093 | 1.25 | 1.83 | 0.42 | 0.52 | 4.04 | 1.12 | 3.32 | 8.48 |
| Bed/Disk (Hipper) | | 8R-38 2x1 | MFWD 190 | 31,200 | 160 | 10 | 0.049 | 0.66 | 0.96 | 0.38 | 0.27 | 2.28 | 1.01 | 1.74 | 5.05 |
| Bed/Disk (Hipper) | | 12R-30 | MFWD 225 | 31,300 | 160 | 10 | 0.062 | 0.83 | 1.44 | 0.48 | 0.44 | 3.21 | 1.29 | 2.80 | 7.31 |
| Bed/Disk (Hipper) | | 12R-38 | MFWD 225 | 34,200 | 160 | 10 | 0.049 | 0.66 | 1.14 | 0.42 | 0.35 | 2.57 | 1.11 | 2.21 | 5.90 |
| Bed/Disk (Hipper) | | 16R40 | MFWD 300 | 42,700 | 160 | 10 | 0.035 | 0.47 | 1.09 | 0.37 | 0.31 | 2.26 | 0.99 | 1.99 | 5.25 |
| Bed/Disk (Hipper) Fl | | 8R-38 | MFWD 190 | 20,000 | 160 | 10 | 0.074 | 0.99 | 1.44 | 0.37 | 0.41 | 3.23 | 0.97 | 2.62 | 6.83 |
| Bed/Disk (Hipper) Rd | | 8R-38 | MFWD 190 | 18,700 | 160 | 10 | 0.074 | 0.99 | 1.44 | 0.34 | 0.41 | 3.20 | 0.91 | 2.62 | 6.74 |
| Bed/Disk w/roller | | 8R-30/40 | MFWD 190 | 28,600 | 160 | 10 | 0.093 | 1.25 | 1.83 | 0.67 | 0.52 | 4.28 | 1.77 | 3.32 | 9.37 |
| Bed/Disk w/roller | | 12R-30/40 | MFWD 225 | 46,700 | 160 | 10 | 0.062 | 0.83 | 1.44 | 0.72 | 0.44 | 3.46 | 1.92 | 2.80 | 8.19 |
| Bed/Disk w/roller | | 8R-38 | MFWD 190 | 28,600 | 160 | 10 | 0.074 | 0.99 | 1.44 | 0.52 | 0.41 | 3.38 | 1.39 | 2.62 | 7.41 |
| Bed/Lister | | 4R-38 | MFWD 150 | 18,200 | 160 | 8 | 0.228 | 3.06 | 3.52 | 0.97 | 1.06 | 8.62 | 3.06 | 6.39 | 18.09 |
| Bed/Lister | | 6R-38 | MFWD 150 | 19,600 | 160 | 8 | 0.120 | 1.61 | 1.85 | 0.55 | 0.55 | 4.57 | 1.73 | 3.36 | 9.68 |
| Bed/Lister | | 8R-30 | MFWD 190 | 22,100 | 160 | 8 | 0.114 | 1.53 | 2.23 | 0.59 | 0.64 | 4.99 | 1.86 | 4.04 | 10.90 |
| Bed/Lister | | 8R-38 | MFWD 190 | 27,000 | 160 | 8 | 0.090 | 1.20 | 1.76 | 0.57 | 0.50 | 4.05 | 1.79 | 3.19 | 9.05 |
| Bed/Lister | | 8R-38 2x1 | MFWD 190 | 42,300 | 160 | 8 | 0.060 | 0.80 | 1.17 | 0.59 | 0.33 | 2.91 | 1.87 | 2.12 | 6.91 |
| Bed/Lister | | 12R-38 | MFWD 225 | 42,300 | 160 | 8 | 0.060 | 0.80 | 1.39 | 0.59 | 0.42 | 3.22 | 1.87 | 2.69 | 7.79 |
| Bed/Lister | | 16R-30 | MFWD 225 | 53,900 | 160 | 8 | 0.035 | 0.47 | 0.81 | 0.44 | 0.25 | 1.97 | 1.39 | 1.57 | 4.95 |
| Bed/Lister | | 16R40 | MFWD 300 | 53,600 | 160 | 8 | 0.043 | 0.57 | 1.33 | 0.54 | 0.38 | 2.83 | 1.70 | 2.43 | 6.97 |
| Bed/Lister-Roll-Fold | | 8R-38 | MFWD 190 | 24,400 | 160 | 10 | 0.074 | 0.99 | 1.44 | 0.45 | 0.41 | 3.31 | 1.19 | 2.62 | 7.13 |
| Bed/Lister-Roll-Fold | | 12R-30 | MFWD 225 | 29,600 | 160 | 10 | 0.062 | 0.83 | 1.44 | 0.46 | 0.44 | 3.19 | 1.22 | 2.80 | 7.21 |
| Bed/Lister-Roll-Fold | | 12R-38 | MFWD 225 | 33,800 | 160 | 10 | 0.049 | 0.66 | 1.14 | 0.41 | 0.35 | 2.57 | 1.10 | 2.21 | 5.88 |
| Bed/Lister-Roll-Fold | | 16R-30 | MFWD 225 | 34,300 | 160 | 10 | 0.046 | 0.62 | 1.08 | 0.40 | 0.33 | 2.45 | 1.06 | 2.10 | 5.61 |
| Bed/Lister-Roll-Rig. | | 8R-38 | MFWD 190 | 21,300 | 160 | 10 | 0.074 | 0.99 | 1.44 | 0.39 | 0.41 | 3.25 | 1.04 | 2.62 | 6.92 |
| Blade-Box | | 6'-7' | MFWD 105 | 1,100 | 200 | 20 | 0.020 | 0.26 | 0.21 | 0.01 | 0.03 | 0.53 | 0.00 | 0.22 | 0.76 |
| Blade-Box | | 8'-10' | MFWD 105 | 4,200 | 200 | 20 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Blade-Box | | 12'-16' | MFWD 105 | 7,060 | 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 | 1,150 | 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 | 3,340 | 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 | 6,700 | 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 | 3.45 | 5.04 | 1.96 | 1.45 | 11.91 | 3.99 | 9.13 | 25.03 |
| Boll Buggy | | 4R-38(350) | MFWD 190 | 30,500 | 200 | 10 | 0.257 | 3.45 | 5.04 | 1.96 | 1.45 | 11.91 | 3.99 | 9.13 | 25.03 |
| Boll Buggy | | 4R2x1(350) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.30 | 3.37 | 1.31 | 0.96 | 7.96 | 2.67 | 6.10 | 16.73 |
| Boll Buggy | | 6R-30(355) | MFWD 190 | 30,500 | 200 | 10 | 0.218 | 2.92 | 4.26 | 1.66 | 1.22 | 10.08 | 3.38 | 7.73 | 21.19 |
| Boll Buggy | | 6R-38(355) | MFWD 190 | 30,500 | 200 | 10 | 0.172 | 2.30 | 3.37 | 1.31 | 0.96 | 7.96 | 2.67 | 6.10 | 16.73 |
| Chisel Plow-Folding | | 24' | MFWD 190 | 38,100 | 150 | 12 | 0.076 | 1.02 | 1.49 | 1.05 | 0.43 | 4.00 | 1.82 | 2.70 | 8.53 |
| Chisel Plow-Folding | | 32' | MFWD 225 | 49,100 | 150 | 12 | 0.057 | 0.77 | 1.33 | 1.02 | 0.41 | 3.54 | 1.77 | 2.59 | 7.91 |
| Chisel Plow-Folding | | 42' | MFWD 225 | 55,700 | 150 | 12 | 0.044 | 0.58 | 1.01 | 0.88 | 0.31 | 2.80 | 1.53 | 1.97 | 6.31 |
| Chisel Plow-Folding | | 50' | MFWD 225 | 78,400 | 150 | 10 | 0.036 | 0.49 | 0.85 | 1.25 | 0.26 | 2.87 | 2.04 | 1.65 | 6.57 |
| Chisel Plow-Folding | | 61' | MFWD 225 | 86,600 | 150 | 12 | 0.030 | 0.40 | 0.70 | 0.94 | 0.21 | 2.27 | 1.64 | 1.35 | 5.27 |
| Chisel Plow-Rigid | | 10' | MFWD 170 | 6,420 | 150 | 12 | 0.184 | 2.47 | 3.23 | 0.42 | 0.95 | 7.10 | 0.74 | 6.03 | 13.88 |
| Chisel Plow-Rigid | | 15' | 2WD 130 | 11,400 | 150 | 12 | 0.123 | 1.65 | 1.64 | 0.50 | 0.37 | 4.17 | 0.88 | 2.23 | 7.29 |
| Chisel Plow-Rigid | | 20' | MFWD 225 | 13,400 | 150 | 12 | 0.102 | 1.37 | 2.37 | 0.49 | 0.73 | 4.98 | 0.86 | 4.60 | 10.45 |
| Chisel Plow-Rigid | | 24' | MFWD 190 | 13,200 | 150 | 12 | 0.077 | 1.03 | 1.50 | 0.36 | 0.43 | 3.33 | 0.63 | 2.72 | 6.70 |
| Cultivate | | 4R-30 | 2WD 105 | 11,700 | 150 | 10 | 0.206 | 2.76 | 2.22 | 0.64 | 0.42 | 6.05 | 1.69 | 2.53 | 10.28 |
| Cultivate | | 4R-38 | 2WD 105 | 11,800 | 150 | 10 | 0.162 | 2.17 | 1.75 | 0.51 | 0.30 | 4.74 | 1.34 | 1.82 | 7.92 |
| Cultivate | | 6R-30 | MFWD 150 | 16,200 | 150 | 10 | 0.137 | 1.84 | 2.12 | 0.59 | 0.64 | 5.19 | 1.56 | 3.85 | 10.62 |
| Cultivate | | 6R-38 | MFWD 150 | 16,500 | 150 | 10 | 0.108 | 1.45 | 1.67 | 0.47 | 0.50 | 4.11 | 1.26 | 3.04 | 8.41 |
| Cultivate | | 8R-30 | MFWD 190 | 20,500 | 150 | 10 | 0.103 | 1.38 | 2.01 | 0.56 | 0.58 | 4.54 | 1.48 | 3.65 | 9.68 |
| Cultivate | | 8R-38 | MFWD 190 | 21,200 | 150 | 10 | 0.073 | 0.98 | 1.44 | 0.41 | 0.41 | 3.25 | 1.09 | 2.60 | 6.96 |
| Cultivate | | 8R-38 2x1 | MFWD 190 | 37,100 | 150 | 10 | 0.054 | 0.72 | 1.06 | 0.53 | 0.30 | 2.63 | 1.41 | 1.92 | 5.97 |
| Cultivate | | 12R-30 | MFWD 225 | 35,300 | 150 | 10 | 0.068 | 0.92 | 1.59 | 0.64 | 0.48 | 3.65 | 1.70 | 3.08 | 8.44 |
| Cultivate | | 12R-38 | MFWD 225 | 37,100 | 150 | 10 | 0.054 | 0.72 | 1.25 | 0.53 | 0.38 | 2.90 | 1.41 | 2.43 | 6.76 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2016 (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 | 16R-30 | MFWD 225 | 46,600 | 150 | 10 | 0.051 | 0.69 | 1.19 | 0.64 | 0.36 | 2.89 | 1.69 | 2.31 | 6.89 |
| Cultivate & Post | 4R-30 | 2WD 105 | 17,100 | 150 | 10 | 0.220 | 3.94 | 2.37 | 1.00 | 0.41 | 7.73 | 2.64 | 2.47 | 12.86 |
| Cultivate & Post | 4R-38 | 2WD 105 | 17,200 | 150 | 10 | 0.173 | 3.10 | 1.87 | 0.79 | 0.32 | 6.09 | 2.09 | 1.95 | 10.14 |
| Cultivate & Post | 6R-30 | MFWD 150 | 21,600 | 150 | 10 | 0.146 | 2.62 | 2.26 | 0.84 | 0.68 | 6.42 | 2.23 | 4.10 | 12.76 |
| Cultivate & Post | 6R-38 | MFWD 150 | 21,900 | 150 | 10 | 0.115 | 2.07 | 1.78 | 0.67 | 0.53 | 5.07 | 1.78 | 3.24 | 10.11 |
| Cultivate & Post | 8R-30 | MFWD 190 | 25,900 | 150 | 10 | 0.110 | 1.97 | 2.15 | 0.75 | 0.61 | 5.50 | 2.00 | 3.89 | 11.40 |
| Cultivate & Post | 8R-38 | MFWD 190 | 26,600 | 150 | 10 | 0.086 | 1.55 | 1.70 | 0.61 | 0.48 | 4.36 | 1.62 | 3.08 | 9.07 |
| Cultivate & Post | 8R-38 2x1 | MFWD 190 | 37,900 | 150 | 10 | 0.057 | 1.03 | 1.13 | 0.58 | 0.32 | 3.08 | 1.54 | 2.05 | 6.67 |
| Cultivate & Post | 10R-30 | MFWD 225 | 31,400 | 150 | 10 | 0.088 | 1.57 | 2.03 | 0.73 | 0.62 | 4.98 | 1.94 | 3.94 | 10.87 |
| Cultivate & Post | 12R-30 | MFWD 225 | 40,700 | 150 | 10 | 0.073 | 1.31 | 1.69 | 0.79 | 0.52 | 4.33 | 2.10 | 3.29 | 9.72 |
| Cultivate & Post | 12R-38 | MFWD 225 | 44,800 | 150 | 10 | 0.057 | 1.03 | 1.34 | 0.69 | 0.41 | 3.48 | 1.82 | 2.59 | 7.90 |
| Cultivate & Post | 16R-30 | MFWD 225 | 54,300 | 150 | 10 | 0.055 | 0.98 | 1.27 | 0.79 | 0.39 | 3.44 | 2.10 | 2.46 | 8.01 |
| Disk & Incorporate | 14' | 2WD 130 | 29,500 | 200 | 10 | 0.149 | 2.68 | 2.00 | 1.32 | 0.45 | 6.46 | 2.33 | 2.71 | 11.50 |
| Disk & Incorporate | 20' | MFWD 190 | 45,000 | 180 | 10 | 0.092 | 1.23 | 1.80 | 1.38 | 0.51 | 4.95 | 2.44 | 3.27 | 10.66 |
| Disk & Incorporate | 24' | MFWD 190 | 44,500 | 200 | 10 | 0.087 | 1.56 | 1.70 | 1.16 | 0.49 | 4.92 | 2.05 | 3.09 | 10.07 |
| Disk & Incorporate | 28' | MFWD 225 | 55,200 | 200 | 10 | 0.074 | 1.34 | 1.73 | 1.23 | 0.53 | 4.84 | 2.18 | 3.35 | 10.38 |
| Disk & Incorporate | 32' | MFWD 225 | 58,900 | 200 | 10 | 0.065 | 1.17 | 1.51 | 1.15 | 0.46 | 4.31 | 2.03 | 2.93 | 9.28 |
| Disk Harrow | 14' | 2WD 130 | 24,100 | 180 | 10 | 0.140 | 1.88 | 1.87 | 0.93 | 0.42 | 5.11 | 1.98 | 2.54 | 9.64 |
| Disk Harrow | 20' | MFWD 190 | 39,600 | 180 | 10 | 0.098 | 1.31 | 1.92 | 1.08 | 0.55 | 4.86 | 2.28 | 3.47 | 10.63 |
| Disk Harrow | 24' | MFWD 190 | 44,500 | 180 | 10 | 0.081 | 1.09 | 1.60 | 1.01 | 0.46 | 4.16 | 2.13 | 2.89 | 9.20 |
| Disk Harrow | 28' | MFWD 225 | 49,800 | 180 | 10 | 0.070 | 0.94 | 1.62 | 0.97 | 0.49 | 4.03 | 2.05 | 3.14 | 9.23 |
| Disk Harrow | 32' | MFWD 225 | 53,500 | 180 | 10 | 0.061 | 0.82 | 1.42 | 0.91 | 0.43 | 3.59 | 1.92 | 2.75 | 8.27 |
| Disk Harrow | 42' | MFWD 225 | 98,500 | 180 | 10 | 0.046 | 0.62 | 1.08 | 1.27 | 0.33 | 3.32 | 2.70 | 2.09 | 8.12 |
| Disk Harrow 40-100hp | 14' | 2WD 75 | 14,600 | 180 | 10 | 0.140 | 1.88 | 1.08 | 0.56 | 0.16 | 3.69 | 1.20 | 0.97 | 5.87 |
| Disk Heavy | 14' | MFWD 150 | 24,100 | 180 | 10 | 0.145 | 1.95 | 2.25 | 0.97 | 0.67 | 5.86 | 2.06 | 4.08 | 12.02 |
| Disk Heavy | 20' | MFWD 170 | 39,600 | 180 | 10 | 0.097 | 1.30 | 1.70 | 1.07 | 0.50 | 4.58 | 2.26 | 3.17 | 10.02 |
| Disk Heavy | 28' | MFWD 190 | 49,800 | 180 | 10 | 0.075 | 1.01 | 1.48 | 1.04 | 0.42 | 3.96 | 2.21 | 2.68 | 8.85 |
| Disk Ripper | 15' | MFWD 225 | 41,000 | 180 | 10 | 0.136 | 1.82 | 3.15 | 1.55 | 0.97 | 7.50 | 3.27 | 6.11 | 16.89 |
| Ditcher | | 2WD 130 | 4,900 | 200 | 10 | 0.020 | 0.26 | 0.26 | 0.03 | 0.06 | 0.63 | 0.05 | 0.36 | 1.04 |
| Ditcher (1m/160a) | | 2WD 130 | 4,900 | 200 | 10 | 0.009 | 0.12 | 0.12 | 0.01 | 0.02 | 0.29 | 0.02 | 0.16 | 0.49 |
| Fert Appl (Liquid) | 4R-38 | MFWD 150 | 13,500 | 150 | 8 | 0.154 | 2.77 | 2.38 | 1.39 | 0.72 | 7.27 | 1.57 | 4.33 | 13.17 |
| Fert Appl (Liquid) | 6R-30 | MFWD 170 | 11,200 | 150 | 8 | 0.130 | 2.34 | 2.29 | 0.97 | 0.67 | 6.29 | 1.10 | 4.27 | 11.67 |
| Fert Appl (Liquid) | 6R-38 | MFWD 170 | 12,200 | 150 | 8 | 0.103 | 1.85 | 1.80 | 0.84 | 0.53 | 5.03 | 0.94 | 3.37 | 9.36 |
| Fert Appl (Liquid) | 8R-30 | MFWD 190 | 12,200 | 150 | 8 | 0.098 | 1.76 | 1.92 | 0.79 | 0.55 | 5.03 | 0.90 | 3.47 | 9.41 |
| Fert Appl (Liquid) | 8R-38 | MFWD 190 | 14,900 | 150 | 8 | 0.077 | 1.39 | 1.51 | 0.77 | 0.43 | 4.11 | 0.87 | 2.75 | 7.73 |
| Fert Appl (Liquid) | 8R-38 2x1 | MFWD 190 | 17,500 | 150 | 8 | 0.051 | 0.92 | 1.01 | 0.60 | 0.29 | 2.83 | 0.68 | 1.83 | 5.34 |
| Fert Appl (Liquid) | 12R-30 | MFWD 225 | 17,900 | 150 | 8 | 0.078 | 1.40 | 1.81 | 0.93 | 0.55 | 4.72 | 1.05 | 3.52 | 9.30 |
| Fert Appl (Liquid) | 12R-38 | MFWD 225 | 17,500 | 150 | 8 | 0.051 | 0.92 | 1.19 | 0.60 | 0.36 | 3.09 | 0.68 | 2.31 | 6.09 |
| Field Cult & Inc | 42' | MFWD 225 | 63,000 | 100 | 10 | 0.037 | 0.67 | 0.87 | 0.59 | 0.26 | 2.41 | 2.51 | 1.69 | 6.62 |
| Field Cult & Inc | 50' | MFWD 225 | 73,600 | 100 | 10 | 0.031 | 0.56 | 0.73 | 0.58 | 0.22 | 2.11 | 2.46 | 1.42 | 6.00 |
| Field Cult & Inc Fld | 24' | MFWD 170 | 32,100 | 100 | 10 | 0.066 | 1.18 | 1.15 | 0.53 | 0.34 | 3.21 | 2.24 | 2.15 | 7.61 |
| Field Cult & Inc Fld | 32' | MFWD 190 | 44,500 | 100 | 10 | 0.049 | 0.88 | 0.96 | 0.55 | 0.27 | 2.68 | 2.33 | 1.75 | 6.77 |
| Field Cult & Inc Rdg | 12' | 2WD 150 | 17,500 | 100 | 10 | 0.132 | 2.37 | 2.04 | 0.57 | 0.44 | 5.43 | 2.44 | 2.68 | 10.56 |
| Field Cultivate Fld | 24' | MFWD 170 | 26,700 | 100 | 10 | 0.062 | 0.83 | 1.08 | 0.41 | 0.32 | 2.66 | 1.75 | 2.03 | 6.44 |
| Field Cultivate Fld | 32' | MFWD 190 | 39,100 | 100 | 10 | 0.046 | 0.62 | 0.91 | 0.45 | 0.26 | 2.25 | 1.92 | 1.65 | 5.83 |
| Field Cultivate Fld | 42' | MFWD 225 | 55,300 | 100 | 10 | 0.035 | 0.47 | 0.82 | 0.49 | 0.25 | 2.04 | 2.07 | 1.59 | 5.71 |
| Field Cultivate Fld | 50' | MFWD 225 | 64,300 | 100 | 10 | 0.029 | 0.40 | 0.69 | 0.48 | 0.21 | 1.78 | 2.02 | 1.33 | 5.15 |
| Field Cultivate Rdg | 12' | 2WD 150 | 12,100 | 100 | 10 | 0.124 | 1.66 | 1.92 | 0.37 | 0.41 | 4.38 | 1.59 | 2.52 | 8.50 |
| Grain Cart Corn | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.031 | 0.42 | 0.62 | 0.20 | 0.17 | 1.43 | 0.35 | 1.13 | 2.92 |
| Grain Cart Corn | 700 bu | MFWD 190 | 36,600 | 200 | 12 | 0.025 | 0.33 | 0.48 | 0.24 | 0.14 | 1.21 | 0.42 | 0.88 | 2.52 |
| Grain Cart Corn | 1000 bu | MFWD 225 | 48,600 | 200 | 12 | 0.025 | 0.33 | 0.57 | 0.32 | 0.17 | 1.42 | 0.57 | 1.12 | 3.11 |
| Grain Cart Rice | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.062 | 0.83 | 1.22 | 0.40 | 0.35 | 2.81 | 0.69 | 2.21 | 5.72 |
| Grain Cart Rice | 700 bu | MFWD 190 | 36,600 | 200 | 12 | 0.055 | 0.73 | 1.07 | 0.54 | 0.30 | 2.66 | 0.94 | 1.94 | 5.56 |
| Grain Cart Rice | 1000 bu | MFWD 190 | 48,600 | 200 | 12 | 0.045 | 0.61 | 0.89 | 0.60 | 0.25 | 2.37 | 1.04 | 1.62 | 5.04 |
| Grain Cart Soybean | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.025 | 0.34 | 0.49 | 0.16 | 0.14 | 1.14 | 0.28 | 0.90 | 2.33 |
| Grain Cart Soybean | 700 bu | MFWD 190 | 36,600 | 200 | 12 | 0.021 | 0.28 | 0.41 | 0.21 | 0.11 | 1.03 | 0.36 | 0.75 | 2.14 |
| Grain Cart Soybean | 1000 bu | MFWD 190 | 48,600 | 200 | 12 | 0.021 | 0.28 | 0.41 | 0.27 | 0.11 | 1.09 | 0.48 | 0.75 | 2.33 |
| Grain Cart Wht/Sor | 500 bu | MFWD 190 | 23,700 | 200 | 12 | 0.025 | 0.34 | 0.49 | 0.16 | 0.14 | 1.14 | 0.28 | 0.90 | 2.33 |
| Grain Cart Wht/Sor | 700 bu | MFWD 190 | 36,600 | 200 | 12 | 0.021 | 0.28 | 0.41 | 0.21 | 0.11 | 1.03 | 0.36 | 0.75 | 2.14 |
| Grain Cart Wht/Sor | 1000 bu | MFWD 190 | 48,600 | 200 | 12 | 0.021 | 0.28 | 0.41 | 0.27 | 0.11 | 1.09 | 0.48 | 0.75 | 2.33 |
| Grain Drill | 10' | 2WD 130 | 26,500 | 150 | 8 | 0.188 | 4.23 | 2.52 | 1.87 | 0.56 | 9.20 | 3.58 | 3.41 | 16.19 |
| Grain Drill | 12' | 2WD 130 | 23,500 | 150 | 8 | 0.157 | 3.52 | 2.10 | 1.38 | 0.47 | 7.49 | 2.64 | 2.84 | 12.98 |
| Grain Drill | 15' | MFWD 150 | 32,000 | 150 | 8 | 0.125 | 2.82 | 1.94 | 1.50 | 0.58 | 6.85 | 2.88 | 3.52 | 13.26 |
| Grain Drill | 20' | MFWD 170 | 38,600 | 150 | 8 | 0.094 | 2.11 | 1.65 | 1.36 | 0.48 | 5.62 | 2.61 | 3.08 | 11.31 |
| Grain Drill | 24' | MFWD 190 | 62,200 | 150 | 8 | 0.078 | 1.76 | 1.53 | 1.83 | 0.44 | 5.57 | 3.50 | 2.78 | 11.86 |
| Grain Drill | 30' | MFWD 225 | 70,300 | 150 | 8 | 0.062 | 1.41 | 1.45 | 1.65 | 0.44 | 4.97 | 3.16 | 2.82 | 10.96 |
| Grain Drill | 35' | MFWD 225 | 86,900 | 150 | 8 | 0.053 | 1.21 | 1.24 | 1.75 | 0.38 | 4.59 | 3.35 | 2.41 | 10.37 |
| Grain Drill & Pre | 10' | 2WD 130 | 31,900 | 150 | 8 | 0.203 | 4.56 | 2.71 | 2.42 | 0.61 | 10.31 | 4.64 | 3.67 | 18.64 |
| Grain Drill & Pre | 12' | 2WD 130 | 28,900 | 150 | 8 | 0.169 | 3.80 | 2.26 | 1.83 | 0.50 | 8.40 | 3.50 | 3.06 | 14.98 |
| Grain Drill & Pre | 15' | MFWD 150 | 37,400 | 150 | 8 | 0.135 | 3.04 | 2.09 | 1.89 | 0.63 | 7.66 | 3.63 | 3.79 | 15.08 |
| Grain Drill & Pre | 20' | MFWD 170 | 44,000 | 150 | 8 | 0.101 | 2.28 | 1.77 | 1.67 | 0.52 | 6.25 | 3.20 | 3.31 | 12.78 |
| Grain Drill & Pre | 24' | MFWD 190 | 67,600 | 150 | 8 | 0.084 | 1.90 | 1.65 | 2.14 | 0.47 | 6.17 | 4.10 | 2.99 | 13.27 |
| Grain Drill & Pre | 30' | MFWD 225 | 78,000 | 150 | 8 | 0.067 | 1.52 | 1.56 | 1.97 | 0.48 | 5.55 | 3.78 | 3.03 | 12.37 |
| Grain Drill & Pre | 35' | MFWD 225 | 94,600 | 150 | 8 | 0.058 | 1.30 | 1.34 | 2.05 | 0.41 | 5.11 | 3.93 | 2.60 | 11.65 |
| Grain Drill & Pre T | 8R-38 | MFWD 225 | 45,000 | 150 | 8 | 0.062 | 1.41 | 1.45 | 1.06 | 0.44 | 4.37 | 2.02 | 2.82 | 9.22 |
| Harrow - Rigid | 21' | 2WD 150 | 6,390 | 200 | 10 | 0.073 | 0.99 | 1.14 | 0.16 | 0.24 | 2.54 | 0.24 | 1.50 | 4.29 |
| Harrow - Folding | 24' | MFWD 190 | 12,400 | 200 | 10 | 0.064 | 0.86 | 1.26 | 0.28 | 0.36 | 2.77 | 0.42 | 2.29 | 5.49 |
| Harrow - Folding | 30' | MFWD 190 | 14,900 | 200 | 10 | 0.051 | 0.69 | 1.01 | 0.26 | 0.29 | 2.26 | 0.40 | 1.83 | 4.50 |
| Harrow - Folding | 40' | MFWD 190 | 17,000 | 200 | 10 | 0.038 | 0.52 | 0.75 | 0.23 | 0.21 | 1.72 | 0.34 | 1.37 | 3.45 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2016 (continued)

| Item Name | Size | Power Unit | Purchase Price | Annual Use | Useful Life | Perf Rate | Labor | Fuel | ---R&M--- | Total | --Fixed-- | Total | | |
|-----------------------|------------|------------|----------------|------------|-------------|-----------|-------|------|-----------|--------|-----------|-------|-------|-------|
| | | | dollars | hours | years | hr/ac | | | Imp. P.U. | Direct | Imp. P.U. | Cost | | |
| -----\$/acre----- | | | | | | | | | | | | | | |
| Harrow - Folding | 48' | MFWD 225 | 22,600 | 200 | 10 | 0.032 | 0.43 | 0.74 | 0.25 | 0.23 | 1.66 | 0.38 | 1.45 | 3.50 |
| Harrow - Rigid | 13' | 2WD 130 | 4,680 | 200 | 10 | 0.119 | 1.60 | 1.59 | 0.19 | 0.35 | 3.75 | 0.29 | 2.16 | 6.21 |
| Header - Corn | 6R-30 | 265 hp | 45,500 | 300 | 8 | 0.170 | 2.28 | 4.64 | 1.93 | 5.58 | 14.45 | 2.91 | 22.04 | 39.41 |
| Header - Corn | 6R-38 | 265 hp | 46,300 | 300 | 8 | 0.134 | 1.80 | 3.66 | 1.55 | 4.41 | 11.43 | 2.34 | 17.40 | 31.18 |
| Header - Corn | 8R-30 | 265 hp | 58,100 | 300 | 8 | 0.127 | 1.71 | 3.48 | 1.85 | 4.19 | 11.24 | 2.79 | 16.53 | 30.56 |
| Header - Corn | 8R-38 | 325 hp | 59,200 | 300 | 8 | 0.100 | 1.35 | 3.37 | 1.49 | 3.49 | 9.71 | 2.24 | 13.77 | 25.74 |
| Header - Corn | 12R-20 | 325 hp | 77,300 | 300 | 8 | 0.127 | 1.71 | 4.27 | 2.46 | 4.41 | 12.86 | 3.71 | 17.42 | 34.00 |
| Header - Corn | 12R-30 | 325 hp | 90,900 | 300 | 8 | 0.085 | 1.14 | 2.84 | 1.93 | 2.94 | 8.86 | 2.91 | 11.61 | 23.39 |
| Header - Draper (CL) | 25' Rigid | 265 hp | 57,700 | 300 | 8 | 0.203 | 2.72 | 5.54 | 2.68 | 6.66 | 17.61 | 4.20 | 26.29 | 48.10 |
| Header - Draper (CL) | 30' Rigid | 325 hp | 66,300 | 300 | 8 | 0.169 | 2.26 | 5.66 | 2.57 | 5.85 | 16.35 | 4.02 | 23.09 | 43.47 |
| Header - Draper (CL) | 36' Rigid | 355 hp | 70,400 | 300 | 8 | 0.141 | 1.88 | 5.15 | 2.27 | 4.87 | 14.19 | 3.56 | 19.24 | 37.00 |
| Header - Draper (SL) | 25' Rigid | 325 hp | 57,700 | 300 | 8 | 0.176 | 2.35 | 5.88 | 2.32 | 6.08 | 16.66 | 3.64 | 24.01 | 44.32 |
| Header - Draper (SL) | 30' Rigid | 325 hp | 66,300 | 300 | 8 | 0.146 | 1.96 | 4.90 | 2.22 | 5.07 | 14.17 | 3.48 | 20.01 | 37.67 |
| Header - Draper (SL) | 36' Rigid | 325 hp | 70,400 | 300 | 8 | 0.122 | 1.63 | 4.46 | 1.97 | 4.22 | 12.30 | 3.08 | 16.67 | 32.06 |
| Header - Rice (CL) | 25' Rigid | 325 hp | 64,400 | 300 | 8 | 0.253 | 3.40 | 8.49 | 4.08 | 8.77 | 24.76 | 6.14 | 34.63 | 65.54 |
| Header - Rice (CL) | 30' Rigid | 325 hp | 74,100 | 300 | 8 | 0.211 | 2.83 | 7.07 | 3.91 | 7.31 | 21.14 | 5.89 | 28.86 | 55.90 |
| Header - Rice (SL) | 25' Rigid | 325 hp | 64,400 | 300 | 8 | 0.220 | 2.94 | 7.36 | 3.54 | 7.60 | 21.45 | 5.32 | 30.02 | 56.80 |
| Header - Rice (SL) | 30' Rigid | 325 hp | 74,100 | 300 | 8 | 0.183 | 2.45 | 6.13 | 3.39 | 6.34 | 18.32 | 5.10 | 25.01 | 48.45 |
| Header -RiceStrp(CL) | 20' | 265 hp | 48,600 | 300 | 8 | 0.253 | 3.40 | 6.92 | 3.08 | 8.32 | 21.74 | 4.64 | 32.86 | 59.24 |
| Header -RiceStrp(CL) | 24' | 325 hp | 53,300 | 300 | 8 | 0.211 | 2.83 | 7.07 | 2.81 | 7.31 | 20.04 | 4.24 | 28.86 | 53.15 |
| Header -RiceStrp(CL) | 32' | 325 hp | 58,900 | 300 | 8 | 0.158 | 2.12 | 5.30 | 2.33 | 5.48 | 15.25 | 3.51 | 21.64 | 40.42 |
| Header -RiceStrp(SL) | 20' | 265 hp | 48,600 | 300 | 8 | 0.220 | 2.94 | 6.00 | 2.67 | 7.21 | 18.84 | 4.02 | 28.48 | 51.34 |
| Header -RiceStrp(SL) | 24' | 325 hp | 53,300 | 300 | 8 | 0.183 | 2.45 | 6.13 | 2.44 | 6.34 | 17.37 | 3.67 | 25.01 | 46.06 |
| Header -RiceStrp(SL) | 32' | 325 hp | 58,700 | 300 | 8 | 0.137 | 1.84 | 4.60 | 2.01 | 4.75 | 13.21 | 3.03 | 18.76 | 35.01 |
| Header -Soybean | 22' Flex | 265 hp | 31,300 | 300 | 8 | 0.116 | 1.55 | 3.16 | 0.90 | 3.80 | 9.44 | 1.36 | 15.03 | 25.83 |
| Header -Soybean | 25' Flex | 325 hp | 34,400 | 300 | 8 | 0.102 | 1.36 | 3.41 | 0.87 | 3.53 | 9.19 | 1.32 | 13.94 | 24.46 |
| Header -Soybean | 30' Flex | 325 hp | 30,200 | 300 | 8 | 0.085 | 1.14 | 2.84 | 0.64 | 2.94 | 7.57 | 0.96 | 11.61 | 20.16 |
| Header -Soybean | 35' Flex | 355 hp | 46,400 | 300 | 8 | 0.072 | 0.97 | 2.66 | 0.84 | 2.52 | 7.01 | 1.27 | 9.95 | 18.24 |
| Header Wheat/Sorghum | 22' Rigid | 265 hp | 18,200 | 300 | 8 | 0.116 | 1.55 | 3.16 | 0.52 | 3.80 | 9.06 | 0.79 | 15.03 | 24.88 |
| Header Wheat/Sorghum | 25' Rigid | 325 hp | 28,100 | 300 | 8 | 0.102 | 1.36 | 3.41 | 0.71 | 3.53 | 9.03 | 1.07 | 13.94 | 24.06 |
| Header Wheat/Sorghum | 30' Rigid | 325 hp | 31,000 | 300 | 8 | 0.085 | 1.14 | 2.84 | 0.65 | 2.94 | 7.59 | 0.99 | 11.61 | 20.20 |
| Land Plane | 50'x16' | MFWD 190 | 14,600 | 200 | 10 | 0.151 | 2.03 | 2.96 | 0.44 | 0.85 | 6.29 | 1.16 | 5.37 | 12.83 |
| Levee Pull & Seed | 8 Blade | MFWD 170 | 10,400 | 100 | 10 | 0.003 | 0.04 | 0.06 | 0.00 | 0.01 | 0.13 | 0.03 | 0.11 | 0.29 |
| Levee Pull (1m/80a) | 8 blade | MFWD 170 | 7,180 | 100 | 10 | 0.003 | 0.04 | 0.06 | 0.00 | 0.01 | 0.13 | 0.02 | 0.11 | 0.27 |
| Levee Splitter (1/80) | 32" | MFWD 150 | 7,180 | 100 | 10 | 0.004 | 0.05 | 0.06 | 0.00 | 0.01 | 0.14 | 0.03 | 0.11 | 0.29 |
| Module Builder | 4R-38(250) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 5.78 | 5.04 | 2.23 | 1.45 | 14.51 | 4.54 | 9.13 | 28.19 |
| Module Builder | 4R-38(350) | MFWD 190 | 34,700 | 200 | 10 | 0.257 | 5.78 | 5.04 | 2.23 | 1.45 | 14.51 | 4.54 | 9.13 | 28.19 |
| Module Builder | 4R2x1(350) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 3.87 | 3.37 | 1.49 | 0.96 | 9.70 | 3.03 | 6.10 | 18.84 |
| Module Builder | 6R-30(355) | MFWD 190 | 34,700 | 200 | 10 | 0.218 | 4.90 | 4.26 | 1.89 | 1.22 | 12.29 | 3.85 | 7.73 | 23.87 |
| Module Builder | 6R-38(355) | MFWD 190 | 34,700 | 200 | 10 | 0.172 | 3.87 | 3.37 | 1.49 | 0.96 | 9.70 | 3.03 | 6.10 | 18.84 |
| NT Grain Drill | 10' | 2WD 130 | 34,200 | 150 | 8 | 0.235 | 5.29 | 3.15 | 3.02 | 0.70 | 12.18 | 5.78 | 4.26 | 22.23 |
| NT Grain Drill | 12' | 2WD 130 | 41,600 | 150 | 8 | 0.163 | 3.67 | 2.19 | 2.55 | 0.49 | 8.91 | 4.88 | 2.96 | 16.76 |
| NT Grain Drill | 15' | MFWD 150 | 49,000 | 150 | 8 | 0.130 | 2.94 | 2.02 | 2.40 | 0.60 | 7.97 | 4.60 | 3.66 | 16.25 |
| NT Grain Drill | 20' | MFWD 170 | 65,200 | 150 | 8 | 0.098 | 2.20 | 1.71 | 2.40 | 0.50 | 6.83 | 4.59 | 3.20 | 14.63 |
| NT Grain Drill | 24' | MFWD 190 | 82,400 | 150 | 8 | 0.081 | 1.83 | 1.60 | 2.52 | 0.46 | 6.42 | 4.83 | 2.89 | 14.16 |
| NT Grain Drill | 30' | MFWD 225 | 94,200 | 150 | 8 | 0.065 | 1.47 | 1.51 | 2.31 | 0.46 | 5.76 | 4.42 | 2.93 | 13.12 |
| NT Grain Drill & Pre | 10' | 2WD 130 | 39,600 | 150 | 8 | 0.211 | 4.75 | 2.83 | 3.14 | 0.63 | 11.36 | 6.00 | 3.83 | 21.20 |
| NT Grain Drill & Pre | 12' | 2WD 130 | 47,000 | 150 | 8 | 0.176 | 3.95 | 2.35 | 3.10 | 0.53 | 9.95 | 5.94 | 3.19 | 19.09 |
| NT Grain Drill & Pre | 15' | MFWD 150 | 54,400 | 150 | 8 | 0.141 | 3.16 | 2.17 | 2.87 | 0.65 | 8.87 | 5.50 | 3.95 | 18.33 |
| NT Grain Drill & Pre | 20' | MFWD 170 | 70,600 | 150 | 8 | 0.105 | 2.37 | 1.85 | 2.80 | 0.54 | 7.57 | 5.35 | 3.45 | 16.38 |
| NT Grain Drill & Pre | 24' | MFWD 190 | 87,800 | 150 | 8 | 0.088 | 1.97 | 1.72 | 2.90 | 0.49 | 7.10 | 5.55 | 3.12 | 15.77 |
| NT Grain Drill & Pre | 30' | MFWD 225 | 102,000 | 150 | 8 | 0.070 | 1.58 | 1.63 | 2.69 | 0.50 | 6.41 | 5.15 | 3.16 | 14.73 |
| NT Plant&Pre-Folding | 8R-38 | MFWD 170 | 51,600 | 150 | 8 | 0.083 | 1.87 | 1.46 | 1.61 | 0.43 | 5.39 | 3.09 | 2.73 | 11.21 |
| NT Plant&Pre-Folding | 8R-38 2x1 | MFWD 170 | 84,200 | 150 | 8 | 0.055 | 1.25 | 0.97 | 1.75 | 0.28 | 4.27 | 3.36 | 1.81 | 9.45 |
| NT Plant&Pre-Folding | 12R-20 | MFWD 190 | 73,000 | 150 | 8 | 0.105 | 2.37 | 2.06 | 2.89 | 0.59 | 7.93 | 5.53 | 3.74 | 17.21 |
| NT Plant&Pre-Folding | 12R-30 | MFWD 190 | 75,900 | 150 | 8 | 0.070 | 1.58 | 1.37 | 2.00 | 0.39 | 5.36 | 3.83 | 2.49 | 11.70 |
| NT Plant&Pre-Folding | 12R-38 | MFWD 190 | 84,200 | 150 | 8 | 0.055 | 1.25 | 1.08 | 1.75 | 0.31 | 4.41 | 3.36 | 1.97 | 9.74 |
| NT Plant&Pre-Folding | 16R-30 | MFWD 190 | 102,000 | 150 | 8 | 0.052 | 1.18 | 1.03 | 2.02 | 0.29 | 4.54 | 3.86 | 1.87 | 10.28 |
| NT Plant&Pre-Folding | 23R-15 | MFWD 190 | 136,000 | 150 | 8 | 0.073 | 1.64 | 1.43 | 3.74 | 0.41 | 7.24 | 7.16 | 2.60 | 17.01 |
| NT Plant&Pre-Folding | 24R-15 | MFWD 225 | 143,000 | 150 | 8 | 0.070 | 1.58 | 1.63 | 3.78 | 0.50 | 7.50 | 7.23 | 3.16 | 17.89 |
| NT Plant&Pre-Folding | 24R-20 | MFWD 190 | 158,000 | 150 | 8 | 0.052 | 1.18 | 1.03 | 3.13 | 0.29 | 5.65 | 5.99 | 1.87 | 13.51 |
| NT Plant&Pre-Folding | 24R-30 | MFWD 190 | 185,000 | 150 | 8 | 0.035 | 0.79 | 0.68 | 2.44 | 0.19 | 4.12 | 4.67 | 1.24 | 10.05 |
| NT Plant&Pre-Folding | 31R-15 | MFWD 225 | 156,000 | 150 | 8 | 0.054 | 1.22 | 1.26 | 3.19 | 0.38 | 6.08 | 6.11 | 2.45 | 14.64 |
| NT Plant&Pre-Folding | 32R-15 | MFWD 225 | 175,000 | 150 | 8 | 0.052 | 1.18 | 1.22 | 3.47 | 0.37 | 6.25 | 6.63 | 2.37 | 15.27 |
| NT Plant&Pre-Rigid | 4R-30 | 2WD 130 | 27,100 | 150 | 8 | 0.211 | 4.75 | 2.83 | 2.14 | 0.63 | 10.36 | 4.11 | 3.83 | 18.31 |
| NT Plant&Pre-Rigid | 4R-38 | 2WD 130 | 29,700 | 150 | 8 | 0.166 | 3.74 | 2.22 | 1.85 | 0.50 | 8.32 | 3.54 | 3.01 | 14.89 |
| NT Plant&Pre-Rigid | 6R-30 | MFWD 150 | 38,200 | 150 | 8 | 0.141 | 3.16 | 2.17 | 2.02 | 0.65 | 8.02 | 3.86 | 3.95 | 15.83 |
| NT Plant&Pre-Rigid | 6R-38 | MFWD 150 | 34,200 | 150 | 8 | 0.111 | 2.50 | 1.71 | 1.42 | 0.51 | 6.16 | 2.73 | 3.11 | 12.01 |
| NT Plant&Pre-Rigid | 8R-30 | MFWD 170 | 43,600 | 150 | 8 | 0.105 | 2.37 | 1.85 | 1.72 | 0.54 | 6.50 | 3.30 | 3.45 | 13.26 |
| NT Plant&Pre-Rigid | 8R-38 | MFWD 170 | 41,300 | 150 | 8 | 0.083 | 1.87 | 1.46 | 1.29 | 0.43 | 5.06 | 2.47 | 2.73 | 10.27 |
| NT Plant&Pre-Rigid | 10R-30 | MFWD 190 | 49,000 | 150 | 8 | 0.084 | 1.90 | 1.65 | 1.55 | 0.47 | 5.58 | 2.97 | 2.99 | 11.55 |
| NT Plant&Pre-Rigid | 11R-15 | MFWD 170 | 53,000 | 150 | 8 | 0.143 | 3.23 | 2.51 | 2.86 | 0.74 | 9.35 | 5.47 | 4.70 | 19.52 |
| NT Plant&Pre-Rigid | 11R-20 | MFWD 170 | 48,400 | 150 | 8 | 0.115 | 2.59 | 2.02 | 2.09 | 0.59 | 7.31 | 4.01 | 3.77 | 15.10 |
| NT Plant&Pre-Rigid | 12R-20 | MFWD 190 | 53,000 | 150 | 8 | 0.105 | 2.37 | 2.06 | 2.10 | 0.59 | 7.14 | 4.02 | 3.74 | 14.90 |
| NT Plant&Pre-Rigid | 12R-30 | MFWD 190 | 69,300 | 150 | 8 | 0.070 | 1.58 | 1.37 | 1.83 | 0.39 | 5.19 | 3.50 | 2.49 | 11.19 |
| NT Plant&Pre-Rigid | 13R-18/20 | MFWD 225 | 59,300 | 150 | 8 | 0.097 | 2.18 | 2.25 | 2.16 | 0.69 | 7.30 | 4.14 | 4.37 | 15.82 |
| NT Plant&Pre-Rigid | 15R-15 | MFWD 190 | 65,600 | 150 | 8 | 0.113 | 2.54 | 2.21 | 2.78 | 0.63 | 8.17 | 5.32 | 4.00 | 17.50 |
| NT Plant&Pre-TwinRow | 12R-30/40 | MFWD 225 | 143,000 | 150 | 8 | 0.055 | 1.25 | 1.28 | 2.98 | 0.39 | 5.92 | 5.71 | 2.49 | 14.12 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2016 (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&Pre-TwinRow | 8R-30/40 | MFWD 225 | 123,000 | 150 | 8 | 0.083 | 1.87 | 1.93 | 3.85 | 0.59 | 8.26 | 7.37 | 3.75 | 19.39 |
| NT Plant-Folding | 8R-38 | MFWD 170 | 42,600 | 150 | 8 | 0.077 | 1.74 | 1.35 | 1.24 | 0.40 | 4.74 | 2.37 | 2.53 | 9.65 |
| NT Plant-Folding | 8R-38 2x1 | MFWD 170 | 71,100 | 150 | 8 | 0.051 | 1.16 | 0.90 | 1.37 | 0.26 | 3.71 | 2.63 | 1.68 | 8.03 |
| NT Plant-Folding | 12R-20 | MFWD 190 | 62,200 | 150 | 8 | 0.098 | 2.20 | 1.92 | 2.29 | 0.55 | 6.96 | 4.38 | 3.47 | 14.83 |
| NT Plant-Folding | 12R-30 | MFWD 190 | 62,800 | 150 | 8 | 0.065 | 1.47 | 1.28 | 1.54 | 0.36 | 4.66 | 2.94 | 2.31 | 9.93 |
| NT Plant-Folding | 12R-38 | MFWD 190 | 71,100 | 150 | 8 | 0.051 | 1.16 | 1.01 | 1.37 | 0.29 | 3.84 | 2.63 | 1.83 | 8.30 |
| NT Plant-Folding | 16R-30 | MFWD 190 | 87,400 | 150 | 8 | 0.049 | 1.10 | 0.96 | 1.60 | 0.27 | 3.94 | 3.07 | 1.73 | 8.76 |
| NT Plant-Folding | 23R-15 | MFWD 190 | 118,000 | 150 | 8 | 0.068 | 1.53 | 1.33 | 3.01 | 0.38 | 6.26 | 5.77 | 2.41 | 14.45 |
| NT Plant-Folding | 24R-15 | MFWD 225 | 124,000 | 150 | 8 | 0.065 | 1.47 | 1.51 | 3.04 | 0.46 | 6.49 | 5.82 | 2.93 | 15.26 |
| NT Plant-Folding | 24R-20 | MFWD 190 | 140,000 | 150 | 8 | 0.049 | 1.10 | 0.96 | 2.57 | 0.27 | 4.91 | 4.93 | 1.73 | 11.58 |
| NT Plant-Folding | 24R-30 | MFWD 190 | 165,000 | 150 | 8 | 0.032 | 0.73 | 0.64 | 2.02 | 0.18 | 3.58 | 3.87 | 1.15 | 8.62 |
| NT Plant-Folding | 31R-15 | MFWD 225 | 135,000 | 150 | 8 | 0.050 | 1.14 | 1.17 | 2.56 | 0.36 | 5.24 | 4.91 | 2.27 | 12.44 |
| NT Plant-Folding | 32R-15 | MFWD 225 | 152,000 | 150 | 8 | 0.049 | 1.10 | 1.13 | 2.79 | 0.34 | 5.38 | 5.35 | 2.20 | 12.94 |
| NT Plant-Rigid | 4R-30 | 2WD 130 | 21,700 | 150 | 8 | 0.196 | 4.41 | 2.62 | 1.59 | 0.59 | 9.23 | 3.05 | 3.55 | 15.84 |
| NT Plant-Rigid | 4R-38 | 2WD 130 | 22,500 | 150 | 8 | 0.154 | 3.47 | 2.06 | 1.30 | 0.46 | 7.31 | 2.49 | 2.80 | 12.61 |
| NT Plant-Rigid | 6R-30 | MFWD 150 | 30,100 | 150 | 8 | 0.130 | 2.94 | 2.02 | 1.47 | 0.60 | 7.05 | 2.82 | 3.66 | 13.54 |
| NT Plant-Rigid | 6R-38 | MFWD 150 | 26,200 | 150 | 8 | 0.103 | 2.32 | 1.59 | 1.01 | 0.48 | 5.41 | 1.94 | 2.89 | 10.25 |
| NT Plant-Rigid | 8R-30 | MFWD 170 | 34,600 | 150 | 8 | 0.098 | 2.20 | 1.71 | 1.27 | 0.50 | 5.70 | 2.43 | 3.20 | 11.35 |
| NT Plant-Rigid | 8R-38 | MFWD 170 | 32,300 | 150 | 8 | 0.077 | 1.74 | 1.35 | 0.94 | 0.40 | 4.44 | 1.79 | 2.53 | 8.78 |
| NT Plant-Rigid | 10R-30 | MFWD 190 | 39,100 | 150 | 8 | 0.078 | 1.76 | 1.53 | 1.15 | 0.44 | 4.89 | 2.20 | 2.78 | 9.88 |
| NT Plant-Rigid | 11R-15 | MFWD 170 | 42,600 | 150 | 8 | 0.133 | 3.00 | 2.33 | 2.13 | 0.69 | 8.16 | 4.08 | 4.36 | 16.61 |
| NT Plant-Rigid | 11R-20 | MFWD 170 | 38,100 | 150 | 8 | 0.107 | 2.41 | 1.87 | 1.53 | 0.55 | 6.37 | 2.93 | 3.50 | 12.81 |
| NT Plant-Rigid | 12R-20 | MFWD 190 | 42,200 | 150 | 8 | 0.098 | 2.20 | 1.92 | 1.55 | 0.55 | 6.23 | 2.97 | 3.47 | 12.68 |
| NT Plant-Rigid | 12R-30 | MFWD 190 | 56,200 | 150 | 8 | 0.065 | 1.47 | 1.28 | 1.37 | 0.36 | 4.49 | 2.63 | 2.31 | 9.45 |
| NT Plant-Rigid | 13R-18/20 | MFWD 225 | 48,100 | 150 | 8 | 0.090 | 2.04 | 2.10 | 1.64 | 0.64 | 6.43 | 3.13 | 4.08 | 13.65 |
| NT Plant-Rigid | 15R-15 | MFWD 190 | 53,500 | 150 | 8 | 0.105 | 2.35 | 2.05 | 2.10 | 0.59 | 7.11 | 4.03 | 3.72 | 14.86 |
| NT Plant-TwinRow | 12R-30/40 | MFWD 225 | 124,000 | 150 | 8 | 0.051 | 1.16 | 1.19 | 2.40 | 0.36 | 5.13 | 4.59 | 2.31 | 12.04 |
| NT Plant-TwinRow | 8R-30/40 | MFWD 225 | 110,000 | 150 | 8 | 0.077 | 1.74 | 1.79 | 3.20 | 0.55 | 7.29 | 6.12 | 3.48 | 16.90 |
| Peanut Cond. & Lifter | 6-Row | MFWD 190 | 12,900 | 300 | 20 | 0.100 | 1.34 | 1.95 | 0.21 | 0.56 | 4.07 | 0.31 | 3.54 | 7.93 |
| Peanut Conditioner | 6-Row | MFWD 190 | 14,900 | 300 | 20 | 0.100 | 1.34 | 1.95 | 0.29 | 0.56 | 4.15 | 0.32 | 3.54 | 8.02 |
| Peanut Dig/Invertor | 4R-30 | MFWD 190 | 28,900 | 300 | 15 | 0.235 | 3.16 | 4.61 | 1.69 | 1.32 | 10.79 | 2.03 | 8.35 | 21.18 |
| Peanut Dig/Invertor | 4R-38 | MFWD 190 | 28,900 | 300 | 15 | 0.186 | 2.49 | 3.64 | 1.33 | 1.04 | 8.52 | 1.60 | 6.59 | 16.72 |
| Peanut Dig/Invertor | 6R-38 | MFWD 190 | 42,100 | 300 | 15 | 0.124 | 1.66 | 2.42 | 0.91 | 0.69 | 5.70 | 1.55 | 4.39 | 11.65 |
| Peanut Dump Cart | 6-Row | MFWD 190 | 46,900 | 300 | 20 | 0.310 | 4.15 | 6.06 | 0.84 | 1.74 | 12.80 | 3.44 | 10.98 | 27.23 |
| Peanut Harvester | 4R-30 | MFWD 225 | 130,000 | 300 | 20 | 0.849 | 11.38 | 19.68 | 6.26 | 6.05 | 43.39 | 23.98 | 38.13 | 105.51 |
| Peanut Harvester | 4R-38 | MFWD 225 | 130,000 | 300 | 20 | 0.934 | 12.52 | 21.64 | 6.88 | 6.65 | 47.71 | 27.59 | 41.93 | 117.24 |
| Peanut Harvester | 6R-38 | MFWD 225 | 143,000 | 300 | 20 | 0.625 | 8.37 | 14.47 | 4.31 | 4.45 | 31.62 | 20.30 | 28.04 | 79.96 |
| Peanut Lifter | 6-Row | MFWD 225 | 6,300 | 300 | 20 | 0.100 | 1.34 | 2.31 | 0.13 | 0.71 | 4.49 | 0.13 | 4.48 | 9.12 |
| Peanut Plt&Pre Fold. | 12R-38 | MFWD 190 | 78,800 | 150 | 8 | 0.080 | 1.80 | 1.57 | 2.37 | 0.45 | 6.20 | 4.54 | 2.84 | 13.60 |
| Peanut Plt&Pre Rigid | 8R-30 | MFWD 190 | 40,000 | 150 | 8 | 0.152 | 3.43 | 2.98 | 2.29 | 0.85 | 9.57 | 4.38 | 5.41 | 19.36 |
| Peanut Plt&Pre Rigid | 8R-38 | MFWD 190 | 37,700 | 150 | 8 | 0.120 | 2.71 | 2.36 | 1.70 | 0.67 | 7.46 | 3.26 | 4.27 | 15.00 |
| Pipe Spool 160ac | 1/4m roll | 2WD 130 | 3,640 | 15 | 12 | 0.003 | 0.09 | 0.04 | 0.00 | 0.00 | 0.15 | 0.07 | 0.05 | 0.28 |
| Pipe Trailer 1m/160a | 30' | 2WD 130 | 1,380 | 100 | 15 | 0.003 | 0.18 | 0.05 | 0.00 | 0.01 | 0.24 | 0.00 | 0.06 | 0.32 |
| Plant & Pre-Folding | 8R-38 | MFWD 170 | 48,000 | 150 | 8 | 0.080 | 1.80 | 1.40 | 1.44 | 0.41 | 5.06 | 2.76 | 2.62 | 10.45 |
| Plant & Pre-Folding | 8R-38 2x1 | MFWD 170 | 78,800 | 150 | 8 | 0.053 | 1.20 | 0.93 | 1.57 | 0.27 | 3.99 | 3.02 | 1.74 | 8.75 |
| Plant & Pre-Folding | 12R-20 | MFWD 190 | 67,600 | 150 | 8 | 0.101 | 2.28 | 1.98 | 2.57 | 0.57 | 7.41 | 4.92 | 3.59 | 15.93 |
| Plant & Pre-Folding | 12R-30 | MFWD 190 | 70,500 | 150 | 8 | 0.067 | 1.52 | 1.32 | 1.78 | 0.38 | 5.01 | 3.42 | 2.39 | 10.83 |
| Plant & Pre-Folding | 12R-38 | MFWD 190 | 78,800 | 150 | 8 | 0.053 | 1.20 | 1.04 | 1.57 | 0.30 | 4.12 | 3.02 | 1.89 | 9.03 |
| Plant & Pre-Folding | 16R-30 | MFWD 190 | 95,100 | 150 | 8 | 0.050 | 1.14 | 0.99 | 1.81 | 0.28 | 4.22 | 3.46 | 1.79 | 9.49 |
| Plant & Pre-Folding | 23R-15 | MFWD 190 | 126,000 | 150 | 8 | 0.070 | 1.58 | 1.37 | 3.33 | 0.39 | 6.69 | 6.37 | 2.49 | 15.56 |
| Plant & Pre-Folding | 24R-15 | MFWD 225 | 132,000 | 150 | 8 | 0.067 | 1.52 | 1.56 | 3.35 | 0.48 | 6.92 | 6.40 | 3.03 | 16.36 |
| Plant & Pre-Folding | 24R-20 | MFWD 190 | 147,000 | 150 | 8 | 0.050 | 1.14 | 0.99 | 2.79 | 0.28 | 5.21 | 5.35 | 1.79 | 12.36 |
| Plant & Pre-Folding | 24R-30 | MFWD 190 | 175,000 | 150 | 8 | 0.033 | 0.76 | 0.66 | 2.22 | 0.19 | 3.83 | 4.24 | 1.19 | 9.28 |
| Plant & Pre-Folding | 31R-15 | MFWD 225 | 142,000 | 150 | 8 | 0.052 | 1.17 | 1.21 | 2.79 | 0.37 | 5.56 | 5.34 | 2.35 | 13.26 |
| Plant & Pre-Folding | 32R-15 | MFWD 225 | 160,000 | 150 | 8 | 0.050 | 1.14 | 1.17 | 3.04 | 0.36 | 5.72 | 5.82 | 2.27 | 13.82 |
| Plant & Pre-Rigid | 4R-30 | 2WD 130 | 25,300 | 150 | 8 | 0.203 | 4.56 | 2.71 | 1.92 | 0.61 | 9.81 | 3.68 | 3.67 | 17.18 |
| Plant & Pre-Rigid | 4R-38 | 2WD 130 | 27,900 | 150 | 8 | 0.159 | 3.59 | 2.13 | 1.67 | 0.48 | 7.88 | 3.20 | 2.89 | 13.98 |
| Plant & Pre-Rigid | 6R-30 | MFWD 150 | 35,500 | 150 | 8 | 0.135 | 3.04 | 2.09 | 1.80 | 0.63 | 7.56 | 3.44 | 3.79 | 14.80 |
| Plant & Pre-Rigid | 6R-38 | MFWD 150 | 31,500 | 150 | 8 | 0.106 | 2.40 | 1.65 | 1.26 | 0.49 | 5.81 | 2.41 | 2.99 | 11.22 |
| Plant & Pre-Rigid | 8R-30 | MFWD 170 | 40,000 | 150 | 8 | 0.101 | 2.28 | 1.77 | 1.52 | 0.52 | 6.10 | 2.91 | 3.31 | 12.33 |
| Plant & Pre-Rigid | 8R-38 | MFWD 170 | 37,700 | 150 | 8 | 0.080 | 1.80 | 1.40 | 1.13 | 0.41 | 4.75 | 2.17 | 2.62 | 9.55 |
| Plant & Pre-Rigid | 10R-30 | MFWD 190 | 44,500 | 150 | 8 | 0.081 | 1.82 | 1.58 | 1.35 | 0.45 | 5.22 | 2.59 | 2.87 | 10.69 |
| Plant & Pre-Rigid | 11R-15 | MFWD 170 | 48,000 | 150 | 8 | 0.148 | 3.32 | 2.59 | 2.66 | 0.76 | 9.36 | 5.10 | 4.84 | 19.30 |
| Plant & Pre-Rigid | 11R-20 | MFWD 170 | 43,500 | 150 | 8 | 0.110 | 2.49 | 1.94 | 1.81 | 0.57 | 6.82 | 3.46 | 3.62 | 13.90 |
| Plant & Pre-Rigid | 12R-20 | MFWD 190 | 47,600 | 150 | 8 | 0.101 | 2.28 | 1.98 | 1.81 | 0.57 | 6.65 | 3.46 | 3.59 | 13.71 |
| Plant & Pre-Rigid | 12R-30 | MFWD 190 | 63,900 | 150 | 8 | 0.067 | 1.52 | 1.32 | 1.62 | 0.38 | 4.84 | 3.10 | 2.39 | 10.34 |
| Plant & Pre-Rigid | 13R-18/20 | MFWD 225 | 53,500 | 150 | 8 | 0.093 | 2.10 | 2.16 | 1.87 | 0.66 | 6.81 | 3.59 | 4.19 | 14.60 |
| Plant & Pre-Rigid | 15R-15 | MFWD 190 | 58,900 | 150 | 8 | 0.108 | 2.43 | 2.12 | 2.39 | 0.61 | 7.57 | 4.58 | 3.84 | 16.00 |
| Plant & Pre-TwinRow | 12R-30/40 | MFWD 225 | 132,000 | 150 | 8 | 0.053 | 1.20 | 1.23 | 2.64 | 0.38 | 5.46 | 5.05 | 2.39 | 12.92 |
| Plant & Pre-TwinRow | 8R-30/40 | MFWD 225 | 116,000 | 150 | 8 | 0.080 | 1.80 | 1.85 | 3.49 | 0.57 | 7.72 | 6.67 | 3.60 | 18.00 |
| Plant - Folding | 8R-38 | MFWD 170 | 42,600 | 150 | 8 | 0.074 | 1.67 | 1.30 | 1.19 | 0.38 | 4.55 | 2.27 | 2.43 | 9.26 |
| Plant - Folding | 8R-38 2x1 | MFWD 170 | 71,100 | 150 | 8 | 0.049 | 1.11 | 0.86 | 1.32 | 0.25 | 3.56 | 2.53 | 1.62 | 7.71 |
| Plant - Folding | 12R-20 | MFWD 190 | 62,200 | 150 | 8 | 0.094 | 2.11 | 1.84 | 2.19 | 0.53 | 6.69 | 4.20 | 3.33 | 14.23 |
| Plant - Folding | 12R-30 | MFWD 190 | 62,800 | 150 | 8 | 0.062 | 1.41 | 1.22 | 1.48 | 0.35 | 4.47 | 2.83 | 2.22 | 9.53 |
| Plant - Folding | 12R-38 | MFWD 190 | 71,100 | 150 | 8 | 0.049 | 1.11 | 0.97 | 1.32 | 0.27 | 3.68 | 2.53 | 1.75 | 7.97 |
| Plant - Folding | 16R-30 | MFWD 190 | 87,400 | 150 | 8 | 0.047 | 1.05 | 0.92 | 1.54 | 0.26 | 3.79 | 2.95 | 1.66 | 8.41 |
| Plant - Folding | 23R-15 | MFWD 190 | 118,000 | 150 | 8 | 0.065 | 1.47 | 1.28 | 2.89 | 0.36 | 6.01 | 5.54 | 2.31 | 13.87 |
| Plant - Folding | 24R-15 | MFWD 225 | 124,000 | 150 | 8 | 0.062 | 1.41 | 1.45 | 2.92 | 0.44 | 6.23 | 5.59 | 2.82 | 14.65 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2016 (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. | |
| | | | | | | | -----\$/acre----- | | | | | | | |
| Plant - Folding | 24R-20 | MFWD 190 | 140,000 | 150 | 8 | 0.047 | 1.05 | 0.92 | 2.47 | 0.26 | 4.72 | 4.73 | 1.66 | 11.12 |
| Plant - Folding | 24R-30 | MFWD 190 | 165,000 | 150 | 8 | 0.031 | 0.70 | 0.61 | 1.94 | 0.17 | 3.44 | 3.71 | 1.11 | 8.27 |
| Plant - Folding | 31R-15 | MFWD 225 | 135,000 | 150 | 8 | 0.048 | 1.09 | 1.12 | 2.46 | 0.34 | 5.03 | 4.71 | 2.18 | 11.94 |
| Plant - Folding | 32R-15 | MFWD 225 | 152,000 | 150 | 8 | 0.047 | 1.05 | 1.09 | 2.68 | 0.33 | 5.17 | 5.13 | 2.11 | 12.42 |
| Plant - Rigid | 4R-30 | 2WD 130 | 19,900 | 150 | 8 | 0.188 | 4.23 | 2.52 | 1.40 | 0.56 | 8.73 | 2.69 | 3.41 | 14.84 |
| Plant - Rigid | 4R-38 | 2WD 130 | 22,500 | 150 | 8 | 0.148 | 3.33 | 1.98 | 1.25 | 0.44 | 7.02 | 2.39 | 2.68 | 12.10 |
| Plant - Rigid | 6R-30 | MFWD 150 | 30,100 | 150 | 8 | 0.125 | 2.82 | 1.94 | 1.41 | 0.58 | 6.76 | 2.71 | 3.52 | 13.00 |
| Plant - Rigid | 6R-38 | MFWD 150 | 26,200 | 150 | 8 | 0.099 | 2.22 | 1.53 | 0.97 | 0.46 | 5.19 | 1.86 | 2.78 | 9.84 |
| Plant - Rigid | 8R-30 | MFWD 170 | 34,600 | 150 | 8 | 0.094 | 2.11 | 1.65 | 1.22 | 0.48 | 5.48 | 2.34 | 3.08 | 10.90 |
| Plant - Rigid | 8R-38 | MFWD 170 | 32,300 | 150 | 8 | 0.074 | 1.67 | 1.30 | 0.90 | 0.38 | 4.26 | 1.72 | 2.43 | 8.42 |
| Plant - Rigid | 10R-30 | MFWD 190 | 39,100 | 150 | 8 | 0.075 | 1.69 | 1.47 | 1.10 | 0.42 | 4.69 | 2.11 | 2.67 | 9.48 |
| Plant - Rigid | 11R-15 | MFWD 170 | 42,600 | 150 | 8 | 0.137 | 3.09 | 2.40 | 2.19 | 0.71 | 8.41 | 4.20 | 4.49 | 17.11 |
| Plant - Rigid | 11R-20 | MFWD 170 | 38,100 | 150 | 8 | 0.103 | 2.31 | 1.80 | 1.47 | 0.53 | 6.12 | 2.81 | 3.36 | 12.30 |
| Plant - Rigid | 12R-20 | MFWD 190 | 42,200 | 150 | 8 | 0.094 | 2.11 | 1.84 | 1.49 | 0.53 | 5.98 | 2.85 | 3.33 | 12.17 |
| Plant - Rigid | 12R-30 | MFWD 190 | 56,200 | 150 | 8 | 0.062 | 1.41 | 1.22 | 1.32 | 0.35 | 4.31 | 2.53 | 2.22 | 9.08 |
| Plant - Rigid | 13R-18/20 | MFWD 225 | 48,100 | 150 | 8 | 0.086 | 1.95 | 2.01 | 1.56 | 0.61 | 6.15 | 2.99 | 3.89 | 13.04 |
| Plant - Rigid | 15R-15 | 2WD 150 | 53,500 | 150 | 8 | 0.094 | 2.11 | 1.45 | 1.89 | 0.31 | 5.78 | 3.61 | 1.91 | 11.31 |
| Plant - TwinRow | 12R-30/40 | MFWD 225 | 124,000 | 150 | 8 | 0.049 | 1.11 | 1.14 | 2.30 | 0.35 | 4.92 | 4.41 | 2.22 | 11.56 |
| Plant - TwinRow | 8R-30/40 | MFWD 225 | 110,000 | 150 | 8 | 0.074 | 1.67 | 1.72 | 3.07 | 0.53 | 7.00 | 5.88 | 3.34 | 16.23 |
| Roller/Cultipacker | 12' | 2WD 130 | 6,520 | 300 | 12 | 0.124 | 1.66 | 1.66 | 0.19 | 0.37 | 3.89 | 0.26 | 2.25 | 6.41 |
| Roller/Cultipacker | 20' | MFWD 150 | 17,000 | 300 | 12 | 0.074 | 1.00 | 1.15 | 0.29 | 0.34 | 2.80 | 0.41 | 2.09 | 5.30 |
| Roller/Cultipacker | 30' | MFWD 170 | 18,600 | 300 | 12 | 0.049 | 0.66 | 0.87 | 0.21 | 0.25 | 2.01 | 0.29 | 1.62 | 3.94 |
| Roller/Cultipacker | 38' | MFWD 225 | 19,700 | 300 | 12 | 0.039 | 0.52 | 0.91 | 0.18 | 0.28 | 1.89 | 0.25 | 1.76 | 3.91 |
| Roller/Stubble | 20' | 2WD 50 | 13,500 | 300 | 12 | 0.074 | 1.00 | 0.38 | 0.23 | 0.04 | 1.66 | 0.32 | 0.25 | 2.25 |
| Roller/Stubble | 32' | MFWD 225 | 22,800 | 300 | 12 | 0.046 | 0.62 | 1.08 | 0.25 | 0.33 | 2.28 | 0.34 | 2.09 | 4.72 |
| Rotary Cutter | 7' | MFWD 130 | 4,100 | 185 | 10 | 0.168 | 2.25 | 2.25 | 0.55 | 0.61 | 5.67 | 0.39 | 3.67 | 9.74 |
| Rotary Cutter | 12' | 2WD 150 | 12,000 | 185 | 10 | 0.098 | 1.31 | 1.51 | 0.95 | 0.33 | 4.11 | 0.67 | 1.99 | 6.78 |
| Rotary Cutter-Flex | 15' | MFWD 150 | 14,900 | 185 | 10 | 0.078 | 1.05 | 1.21 | 0.94 | 0.36 | 3.58 | 0.66 | 2.20 | 6.45 |
| Rotary Cutter-Flex | 20' | MFWD 150 | 19,300 | 185 | 10 | 0.058 | 0.78 | 0.90 | 0.92 | 0.27 | 2.89 | 0.64 | 1.65 | 5.19 |
| Row Cond & Inc-Fold. | 26' | MFWD 190 | 24,700 | 100 | 10 | 0.063 | 1.13 | 1.24 | 0.39 | 0.35 | 3.12 | 1.65 | 2.24 | 7.03 |
| Row Cond & Inc-Fold. | 38' | MFWD 225 | 32,200 | 100 | 10 | 0.043 | 0.77 | 1.00 | 0.34 | 0.30 | 2.44 | 1.47 | 1.94 | 5.86 |
| Row Cond & Inc-Rigid | 13' | 2WD 130 | 13,100 | 100 | 10 | 0.126 | 2.27 | 1.69 | 0.41 | 0.38 | 4.77 | 1.75 | 2.29 | 8.82 |
| Row Cond & Inc-Rigid | 21' | 2WD 170 | 16,500 | 100 | 10 | 0.078 | 1.40 | 1.37 | 0.32 | 0.29 | 3.40 | 1.36 | 1.83 | 6.60 |
| Row Cond & Inc-Rigid | 26' | MFWD 190 | 19,400 | 100 | 10 | 0.026 | 0.47 | 0.52 | 0.12 | 0.14 | 1.27 | 0.54 | 0.94 | 2.76 |
| Row Cond Folding | 26' | MFWD 225 | 19,300 | 100 | 10 | 0.059 | 0.80 | 1.38 | 0.28 | 0.42 | 2.89 | 1.21 | 2.67 | 6.79 |
| Row Cond Folding | 38' | MFWD 225 | 24,500 | 100 | 10 | 0.040 | 0.54 | 0.94 | 0.25 | 0.29 | 2.03 | 1.05 | 1.83 | 4.92 |
| Row Cond Rigid | 13' | 2WD 130 | 7,700 | 100 | 10 | 0.119 | 1.60 | 1.59 | 0.22 | 0.35 | 3.78 | 0.97 | 2.16 | 6.92 |
| Row Cond Rigid | 21' | 2WD 170 | 11,100 | 100 | 10 | 0.073 | 0.99 | 1.29 | 0.20 | 0.27 | 2.76 | 0.86 | 1.73 | 5.36 |
| Row Cond Rigid | 26' | MFWD 190 | 14,100 | 100 | 10 | 0.059 | 0.80 | 1.16 | 0.21 | 0.33 | 2.51 | 0.88 | 2.11 | 5.52 |
| Row Cond./Roll-Fold. | 26' | MFWD 190 | 28,200 | 160 | 10 | 0.072 | 0.96 | 1.41 | 0.50 | 0.40 | 3.29 | 1.34 | 2.55 | 7.18 |
| Row Cond./Roll-Fold. | 30' | MFWD 190 | 32,500 | 160 | 10 | 0.062 | 0.83 | 1.22 | 0.50 | 0.35 | 2.91 | 1.34 | 2.21 | 6.47 |
| Row Cond./Roll-Fold. | 40' | MFWD 225 | 33,800 | 160 | 10 | 0.046 | 0.62 | 1.08 | 0.39 | 0.33 | 2.44 | 1.04 | 2.10 | 5.59 |
| Row Cond./Roll-Rigid | 21' | MFWD 190 | 24,300 | 160 | 10 | 0.089 | 1.19 | 1.74 | 0.54 | 0.50 | 3.98 | 1.43 | 3.16 | 8.58 |
| Row Cond./Roll-Rigid | 26' | MFWD 190 | 25,100 | 160 | 10 | 0.072 | 0.96 | 1.41 | 0.45 | 0.40 | 3.23 | 1.19 | 2.55 | 6.98 |
| Spin Spreader | 5 ton | MFWD 190 | 12,200 | 100 | 8 | 0.042 | 0.94 | 0.82 | 0.28 | 0.23 | 2.29 | 0.57 | 1.49 | 4.36 |
| Spray (ATV Ropewick) | 75' | 800 CC | 660 | 200 | 8 | 0.260 | 4.66 | 0.41 | 0.08 | 0.40 | 5.56 | 0.09 | 1.58 | 7.24 |
| Spray (ATV) | 12'/17' | 800 CC | 2,210 | 200 | 8 | 0.112 | 2.02 | 0.17 | 0.11 | 0.17 | 2.49 | 0.14 | 0.68 | 3.32 |
| Spray (ATV) | 20' | 800 CC | 1,920 | 200 | 8 | 0.084 | 1.51 | 0.13 | 0.07 | 0.13 | 1.85 | 0.09 | 0.51 | 2.46 |
| Spray (Band) | 27' Fold | MFWD 170 | 5,390 | 200 | 8 | 0.062 | 1.12 | 1.09 | 0.15 | 0.32 | 2.70 | 0.19 | 2.04 | 4.94 |
| Spray (Band) | 40' Fold | MFWD 170 | 7,700 | 200 | 8 | 0.042 | 0.75 | 0.74 | 0.15 | 0.21 | 1.87 | 0.18 | 1.38 | 3.43 |
| Spray (Band) | 50' Fold | MFWD 170 | 6,800 | 200 | 8 | 0.033 | 0.60 | 0.59 | 0.10 | 0.17 | 1.48 | 0.12 | 1.10 | 2.71 |
| Spray (Band) | 53' Fold | MFWD 170 | 9,300 | 200 | 8 | 0.031 | 0.57 | 0.55 | 0.13 | 0.16 | 1.43 | 0.16 | 1.04 | 2.64 |
| Spray (Band) | 60' Fold | MFWD 170 | 18,400 | 200 | 8 | 0.028 | 0.50 | 0.49 | 0.24 | 0.14 | 1.38 | 0.29 | 0.92 | 2.60 |
| Spray (Bcast/HB) | 13' Rigid | MFWD 150 | 5,380 | 200 | 8 | 0.130 | 2.33 | 2.01 | 0.32 | 0.60 | 5.27 | 0.39 | 3.64 | 9.32 |
| Spray (Bcast/HB) | 20' Rigid | MFWD 150 | 6,340 | 200 | 8 | 0.084 | 1.51 | 1.30 | 0.25 | 0.39 | 3.46 | 0.30 | 2.37 | 6.14 |
| Spray (Bcast/HB) | 27' Fold | MFWD 170 | 13,200 | 200 | 8 | 0.062 | 1.12 | 1.09 | 0.38 | 0.32 | 2.93 | 0.46 | 2.04 | 5.44 |
| Spray (Bcast/HB) | 27' Rigid | MFWD 170 | 7,680 | 200 | 8 | 0.062 | 1.12 | 1.09 | 0.22 | 0.32 | 2.77 | 0.27 | 2.04 | 5.09 |
| Spray (Bcast/HB) | 30' Fold | MFWD 170 | 20,300 | 200 | 8 | 0.056 | 1.01 | 0.98 | 0.53 | 0.29 | 2.82 | 0.64 | 1.84 | 5.31 |
| Spray (Bcast/HB) | 40' Fold | MFWD 170 | 21,000 | 200 | 8 | 0.042 | 0.75 | 0.74 | 0.41 | 0.21 | 2.13 | 0.50 | 1.38 | 4.01 |
| Spray (Broadcast) | 27' | MFWD 170 | 5,390 | 200 | 8 | 0.062 | 1.12 | 1.09 | 0.15 | 0.32 | 2.70 | 0.19 | 2.04 | 4.94 |
| Spray (Broadcast) | 40' | MFWD 170 | 7,700 | 200 | 8 | 0.042 | 0.75 | 0.74 | 0.15 | 0.21 | 1.87 | 0.18 | 1.38 | 3.43 |
| Spray (Broadcast) | 50' | MFWD 170 | 6,800 | 200 | 8 | 0.033 | 0.60 | 0.59 | 0.10 | 0.17 | 1.48 | 0.12 | 1.10 | 2.71 |
| Spray (Broadcast) | 53' | MFWD 170 | 9,300 | 200 | 8 | 0.031 | 0.57 | 0.55 | 0.13 | 0.16 | 1.43 | 0.16 | 1.04 | 2.64 |
| Spray (Broadcast) | 60' | MFWD 170 | 18,400 | 200 | 8 | 0.028 | 0.50 | 0.49 | 0.24 | 0.14 | 1.38 | 0.29 | 0.92 | 2.60 |
| Spray (Direct/Hood) | 8R-30 | MFWD 170 | 18,000 | 200 | 8 | 0.084 | 1.51 | 1.48 | 0.71 | 0.43 | 4.15 | 0.85 | 2.76 | 7.77 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 24,900 | 200 | 8 | 0.066 | 1.19 | 1.17 | 0.78 | 0.34 | 3.49 | 0.93 | 2.18 | 6.62 |
| Spray (Direct/Hood) | 12R-30 | MFWD 170 | 26,100 | 200 | 8 | 0.056 | 1.01 | 0.98 | 0.69 | 0.29 | 2.98 | 0.83 | 1.84 | 5.65 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 26,600 | 200 | 8 | 0.044 | 0.79 | 0.77 | 0.55 | 0.23 | 2.36 | 0.66 | 1.45 | 4.48 |
| Spray (Direct/Layby) | 8R-30 | MFWD 170 | 9,000 | 200 | 8 | 0.084 | 1.51 | 1.48 | 0.35 | 0.43 | 3.79 | 0.42 | 2.76 | 6.98 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 9,000 | 200 | 8 | 0.066 | 1.19 | 1.17 | 0.28 | 0.34 | 2.99 | 0.33 | 2.18 | 5.52 |
| Spray (Direct/Layby) | 8R-38 2x1 | MFWD 170 | 12,400 | 200 | 8 | 0.044 | 0.79 | 0.77 | 0.25 | 0.23 | 2.06 | 0.31 | 1.45 | 3.83 |
| Spray (Direct/Layby) | 12R-30 | MFWD 170 | 12,500 | 200 | 8 | 0.056 | 1.01 | 0.98 | 0.33 | 0.29 | 2.62 | 0.39 | 1.84 | 4.86 |
| Spray (Direct/Layby) | 12R-38 | MFWD 170 | 12,400 | 200 | 8 | 0.044 | 0.79 | 0.77 | 0.25 | 0.23 | 2.06 | 0.31 | 1.45 | 3.83 |
| Spray (Direct/Layby) | 16R-20 | 2WD 50 | 10,000 | 200 | 8 | 0.062 | 1.12 | 0.32 | 0.29 | 0.03 | 1.77 | 0.35 | 0.21 | 2.34 |
| Spray (Levee Leaper) | 50' | MFWD 225 | 13,500 | 200 | 8 | 0.033 | 0.60 | 0.78 | 0.21 | 0.24 | 1.84 | 0.25 | 1.51 | 3.62 |
| Spray (Pull Type) | 60' | MFWD 225 | 36,400 | 200 | 8 | 0.028 | 0.50 | 0.65 | 0.48 | 0.20 | 1.84 | 0.57 | 1.26 | 3.68 |
| Spray (Pull Type) | 80' | MFWD 225 | 50,100 | 200 | 8 | 0.021 | 0.37 | 0.48 | 0.49 | 0.15 | 1.51 | 0.59 | 0.94 | 3.06 |
| Spray (Pull Type) | 90' | 2WD 50 | 50,800 | 200 | 8 | 0.018 | 0.33 | 0.09 | 0.44 | 0.01 | 0.89 | 0.53 | 0.06 | 1.49 |

(continued)

Appendix Table 3. Towed equipment: estimated purchase price, annual use, useful life, performance rate, and direct and fixed cost per acre, Mississippi, 2016 (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----- | | | | | | | |
| Spray (Pull Type) | 120' | MFWD 225 | 75,800 | 200 | 8 | 0.014 | 0.25 | 0.32 | 0.50 | 0.10 | 1.18 | 0.60 | 0.63 | 2.41 |
| Spray (Ropewick) | 20' | MFWD 190 | 3,440 | 200 | 8 | 0.084 | 1.51 | 1.65 | 0.13 | 0.47 | 3.78 | 0.16 | 2.99 | 6.94 |
| Spray (Spot) | 27' | MFWD 170 | 5,390 | 200 | 8 | 0.062 | 1.12 | 1.09 | 0.15 | 0.32 | 2.70 | 0.19 | 2.04 | 4.94 |
| Spray (Spot) | 40' | MFWD 170 | 7,700 | 200 | 8 | 0.042 | 0.75 | 0.74 | 0.15 | 0.21 | 1.87 | 0.18 | 1.38 | 3.43 |
| Spray (Spot) | 50' | MFWD 170 | 6,800 | 200 | 8 | 0.033 | 0.60 | 0.59 | 0.10 | 0.17 | 1.48 | 0.12 | 1.10 | 2.71 |
| Spray (Spot) | 53' | MFWD 170 | 9,300 | 200 | 8 | 0.031 | 0.57 | 0.55 | 0.13 | 0.16 | 1.43 | 0.16 | 1.04 | 2.64 |
| Spray (Spot) | 60' | MFWD 225 | 18,400 | 200 | 8 | 0.028 | 0.50 | 0.65 | 0.24 | 0.20 | 1.60 | 0.29 | 1.26 | 3.16 |
| Stalk Shredder | 14' | MFWD 150 | 13,100 | 200 | 10 | 0.117 | 1.57 | 1.81 | 1.35 | 0.54 | 5.29 | 0.81 | 3.30 | 9.41 |
| Stalk Shredder Flex | 20' | MFWD 150 | 30,200 | 200 | 10 | 0.082 | 1.10 | 1.27 | 2.18 | 0.38 | 4.94 | 1.31 | 2.31 | 8.57 |
| Stalk Shredder-Flail | 12' | MFWD 150 | 15,100 | 200 | 10 | 0.137 | 1.84 | 2.12 | 1.81 | 0.64 | 6.42 | 1.09 | 3.85 | 11.37 |
| Stalk Shredder-Flail | 15' | MFWD 150 | 20,200 | 200 | 10 | 0.110 | 1.47 | 1.69 | 1.94 | 0.51 | 5.62 | 1.17 | 3.08 | 9.88 |
| Stalk Shredder-Flail | 18' | MFWD 150 | 25,800 | 200 | 10 | 0.091 | 1.22 | 1.41 | 2.06 | 0.42 | 5.14 | 1.24 | 2.56 | 8.95 |
| Stalk Shredder-Flail | 20' | MFWD 150 | 27,300 | 200 | 10 | 0.082 | 1.10 | 1.27 | 1.97 | 0.38 | 4.73 | 1.18 | 2.31 | 8.23 |
| Stalk Shredder-Flail | 25' | MFWD 150 | 38,700 | 200 | 10 | 0.066 | 0.88 | 1.01 | 2.23 | 0.30 | 4.44 | 1.34 | 1.84 | 7.64 |
| Strip Till | 8R-38 | MFWD 225 | 27,200 | 150 | 10 | 0.061 | 0.82 | 1.42 | 0.72 | 0.43 | 3.41 | 1.18 | 2.76 | 7.36 |
| Strip Till | 12R-30 | MFWD 225 | 47,500 | 150 | 10 | 0.061 | 0.82 | 1.42 | 1.26 | 0.43 | 3.96 | 2.06 | 2.76 | 8.78 |
| Strip Till | 12R-40 | MFWD 225 | 58,500 | 150 | 10 | 0.046 | 0.61 | 1.07 | 1.17 | 0.32 | 3.19 | 1.90 | 2.07 | 7.16 |
| Subsoiler | 3 shank | MFWD 190 | 3,550 | 100 | 15 | 0.204 | 2.73 | 3.99 | 0.24 | 1.14 | 8.12 | 0.59 | 7.23 | 15.96 |
| Subsoiler | 4 shank | MFWD 225 | 8,330 | 100 | 15 | 0.153 | 2.05 | 3.55 | 0.42 | 1.09 | 7.13 | 1.05 | 6.89 | 15.08 |
| Subsoiler | 5 shank | MFWD 225 | 13,800 | 100 | 15 | 0.122 | 1.63 | 2.83 | 0.56 | 0.87 | 5.90 | 1.39 | 5.48 | 12.79 |
| Subsoiler low-till | 4 shank | MFWD 225 | 12,000 | 100 | 15 | 0.153 | 2.05 | 3.55 | 0.61 | 1.09 | 7.32 | 1.51 | 6.89 | 15.73 |
| Subsoiler low-till | 6 shank | MFWD 225 | 16,600 | 100 | 15 | 0.102 | 1.36 | 2.36 | 0.56 | 0.72 | 5.02 | 1.39 | 4.58 | 11.01 |
| Subsoiler low-till | 8 shank | MFWD 225 | 22,200 | 100 | 15 | 0.076 | 1.02 | 1.77 | 0.56 | 0.54 | 3.90 | 1.40 | 3.43 | 8.74 |

Notes:

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

Total Direct: Does not include interest on operating capital.

HB = Hooded Boom, HD = Hooded Direct

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016 (continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|-----------------------|------|---------|--------------------|------|---------|
| | | dollars | | | dollars |
| ADJUVANTS | | | | | |
| Crop Oil Conc. (Pet.) | pt | 3.86 | Dithane F-45 | qt | 8.52 |
| Crop Oil Conc. (Veg.) | pt | 4.44 | Dithane Rainshield | pt | 3.96 |
| Drift/Defoamer | pt | 2.13 | Enable 2F | oz | 2.02 |
| Dyne-A-Pak | pt | 5.51 | Headline EC | oz | 3.79 |
| MSO | pt | 3.00 | Headline SC | oz | 3.69 |
| Spreader Sticker | pt | 3.54 | Manzate 75 DF | lb | 4.81 |
| Surfactant | pt | 5.35 | Moncut 70 DF | lb | 33.30 |
| CLEANING | | | | | |
| Cleaning Peanuts | ton | 18.00 | Prevail | lb | 28.50 |
| CROP CONSULTANT | | | | | |
| Corn Consultant | acre | 7.00 | Propimax EC | pt | 11.94 |
| Cotton Consultant | acre | 8.00 | Prosaro | oz | 2.77 |
| Rice Consultant | acre | 8.00 | Provost | oz | 2.34 |
| Soybeans Consultant | acre | 7.00 | Quadris | oz | 3.05 |
| Wheat Consultant | acre | 5.00 | Quadris Top | oz | 2.16 |
| CUSTOM FERTILIZE | | | | | |
| App Fert by Air | cwt | 7.00 | Quilt | pt | 23.79 |
| App Fert by Air (Mi) | appl | 7.00 | Quilt XCEL | pt | 31.47 |
| Custom Apply Fert | acre | 7.00 | Ridomil Gold | oz | 6.41 |
| CUSTOM LIME | | | | | |
| Lime (Spread) | ton | 46.00 | Ridomil Gold PC GR | lb | 5.30 |
| CUSTOM PLANT | | | | | |
| Custom Plant | acre | 13.00 | Rovral 4F | pt | 11.14 |
| Custom Plant Air | cwt | 7.00 | Stiletto | oz | 0.58 |
| CUSTOM SPRAY | | | | | |
| App by Air (2 gal) | appl | 4.00 | Stratego 250EC | pt | 25.58 |
| App by Air (3 gal) | appl | 5.00 | Stratego YLD | oz | 5.04 |
| App by Air (5 gal) | appl | 6.50 | Tilt 3.6 EC | oz | 0.86 |
| App by Air (10 gal) | appl | 8.75 | Tilt/ Bravo SE | oz | 0.38 |
| Custom Spray Ground | acre | 7.50 | Uniform | oz | 4.89 |
| Custom Spray Self Pr | acre | 6.25 | Vitavax RTU-Thiram | oz | 0.40 |
| Custom Spray Tractor | acre | 7.75 | GINNING | | |
| DRYING | | | | | |
| Dry Corn | bu | 0.19 | Gin & Haul | lb | 0.11 |
| Dry Grain Sorghum | cwt | 0.25 | GROWTH REGULATORS | | |
| Dry Peanuts | ton | 24.00 | Early Harvest PGR | oz | 1.55 |
| Dry Rice | bu | 0.40 | Mepex | oz | 0.10 |
| ERADICATION FEE | | | | | |
| Eradication | acre | 1.00 | Mepex Gin Out | oz | 0.12 |
| FERTILIZERS | | | | | |
| Amm Sulfate (21% N) | cwt | 17.25 | Mepichlor 4.2% | oz | 0.11 |
| Boron Plus | pt | 4.24 | Mepiquat | oz | 0.11 |
| Fert 10-34-0 | cwt | 32.50 | Mepiquat Extra | oz | 0.11 |
| Fert 41-0-0-4 | cwt | 20.50 | Pentia | pt | 5.94 |
| Lime | ton | 36.00 | Pix Plus | oz | 0.19 |
| NBPT | pt | 9.88 | Stance | oz | 1.18 |
| Phosphorus (46% P2O5) | cwt | 25.00 | HARVEST AIDS | | |
| Potash (60% K2O) | cwt | 21.27 | Adios | oz | 1.27 |
| Sulfur 90% | lb | 0.34 | Aim 2EC | oz | 5.46 |
| Sulfur Plus | pt | 2.62 | Ammonium Sulfate | lb | 0.24 |
| SuperMax AMS | pt | 2.67 | CottonQuik | pt | 5.01 |
| UAN (32% N) | cwt | 15.95 | Def 6 | pt | 8.25 |
| UAN + Sulfur (28%) | cwt | 16.33 | Def/Folex | pt | 9.99 |
| UAN 1% | pt | 0.00 | Defol 3 | gal | 3.45 |
| Urea, Solid (46% N) | cwt | 20.83 | Defol 5 | gal | 6.55 |
| Zinc Plus | pt | 3.00 | Dropp SC | oz | 1.60 |
| FUNGICIDES | | | | | |
| Abound | pt | 32.53 | ET | pt | 23.98 |
| Alfa Guard | lb | 1.62 | Ethephon 6E | pt | 4.69 |
| Allegiance Flowable | pt | 55.70 | Finish 6 | pt | 8.93 |
| Apron Maxx RTA | oz | 0.86 | First Pick | pt | 3.99 |
| Apron Maxx RTA+Moly | pt | 16.84 | Flash | pt | 4.68 |
| Apron XL LS | oz | 6.98 | Folex 6EC | pt | 9.92 |
| Artisan | oz | 1.02 | Freefall SC | oz | 1.30 |
| Bravo Ultrex | lb | 6.93 | Ginstar EC | pt | 30.60 |
| Bravo Weather Stick | pt | 5.27 | Gramoxone SL | oz | 0.31 |
| Captan 50 WP | lb | 4.03 | Paraquat | oz | 0.27 |
| Cotton Seed Trt. | acre | 20.00 | Prep | pt | 3.32 |
| CruiserMaxx | oz | 4.44 | Sharpen | oz | 6.23 |
| | | | Sodium Chlorate 3L | gal | 3.50 |
| | | | Sodium Chlorate 5L | gal | 5.57 |
| | | | TDZ SC | oz | 0.79 |
| | | | Thidiazuron 4lb | oz | 0.79 |
| | | | Tribufos 6lb | pt | 9.90 |
| | | | Vacate | oz | 1.17 |
| | | | HAULING | | |
| | | | Haul Corn | bu | 0.23 |

(continued)

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016(continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|----------------------|------|---------|----------------------|------|-------------|
| | | dollars | | | dollars |
| Haul Peanuts | ton | 14.50 | Guardsman Max | pt | 7.22 |
| Haul Rice | bu | 0.35 | Halex GT | pt | 7.22 |
| Haul Sorghum | bu | 0.25 | Halomax | oz | 19.26 |
| Haul Soybeans | bu | 0.27 | Harmony Extra SG TS | oz | 29.95 |
| Haul Wheat | bu | 0.26 | Harmony Extra TotSol | oz | 13.51 |
| HERBICIDES | | | Harness XTRA | pt | 6.59 |
| 2,4-D Amine 4 | pt | 2.44 | Ignite 280 | pt | 8.93 |
| 2,4-D Weedar 64 | pt | 2.44 | Impact | oz | 23.92 |
| AAtrex 4L | pt | 2.46 | Karmex XP | lb | 6.05 |
| AAtrex NINE-O | lb | 3.60 | Lariat | qt | 7.58 |
| Accent Q | oz | 32.40 | Laudis | oz | 5.74 |
| Aim 2EC | oz | 5.46 | Layby Pro | qt | 14.18 |
| Assure II | oz | 0.75 | Leadoff | oz | 5.73 |
| Atrazine 4L | pt | 2.03 | Lexar | pt | 7.56 |
| Atrazine 90DF | lb | 3.60 | Liberty 280 | oz | 0.68 |
| Axial XL | oz | 1.10 | Linex 4L | pt | 10.56 |
| Axiom 68DF | oz | 0.23 | Londax 60DF | oz | 17.13 |
| Banvel | pt | 11.98 | Lorox 50DF | lb | 23.52 |
| Basagran | pt | 12.90 | Metribuzin 75 | lb | 13.38 |
| Basis | oz | 12.93 | MSMA 6.6 | pt | 3.38 |
| Beyond | oz | 4.43 | MSMA6 Plus | pt | 3.23 |
| Bicep II Magnum | qt | 10.37 | Newpath 2SL | oz | 3.68 |
| Bicep Lite Magnum | pt | 6.88 | Osprey | oz | 3.47 |
| Blazer Ultra | pt | 9.79 | Outlook | pt | 16.80 |
| Bolero 8EC | pt | 7.67 | Paraquat | oz | 0.31 |
| Boundary 6.5 EC | pt | 10.18 | Parazone 3SL | oz | 0.28 |
| Bullet | pt | 3.79 | Parrot 4L | pt | 2.74 |
| Butyrac 175 (2,4-D) | pt | 3.11 | Peak Accu Pak | oz | 15.75 |
| Butyrac 200 (2,4-DB) | pt | 4.05 | Permit 75 DF | oz | 20.73 |
| Cadre | oz | 4.21 | Poast 1.53 | pt | 12.41 |
| Callisto 4SC | oz | 6.02 | Poast Plus | pt | 8.60 |
| Canopy 75% | oz | 2.70 | PowerFlex HL | lb | 115.78 |
| Canopy EX | oz | 7.97 | Prefix | pt | 5.81 |
| Caparol 4L | pt | 4.02 | Prowl 3.3 EC | pt | 5.62 |
| Capreno | oz | 6.73 | Prowl H20 | pt | 5.95 |
| Clarity | pt | 12.89 | Pursuit 2S | oz | 3.40 |
| Classic | oz | 16.85 | Python WDG | oz | 13.56 |
| Clearpath | lb | 55.90 | Quinstar | lb | 49.16 |
| Clincher SF | oz | 2.34 | Raptor | oz | 4.37 |
| Cobra 2EC | oz | 1.68 | RealmQ | oz | 5.00 |
| Command 3ME | pt | 19.38 | Reflex 2LC | pt | 6.30 |
| Corvus | oz | 6.82 | Regiment 80WP | oz | 43.75 |
| Cotoran 4L | pt | 5.99 | Remedy Ultra | pt | 9.10 |
| Cotton Pro | pt | 3.53 | Resolve SG | oz | 8.58 |
| Credit Extra | pt | 2.07 | Resource .86EC | pt | 29.40 |
| Dicamba | pt | 10.83 | Ricebeaux | pt | 5.53 |
| Direx 4L | pt | 4.41 | RicePro | pt | 4.87 |
| Diuron 4L | pt | 4.15 | Riceshot | pt | 4.14 |
| Diuron 80 DF | lb | 6.20 | Ricestar HT | pt | 23.54 |
| Diuron 80% | lb | 6.20 | Roundup Power Max | oz | 0.19 |
| Dual II Magnum | pt | 13.99 | Roundup PowerMax | pt | 2.99 |
| Dual Magnum | pt | 13.49 | Roundup WeatherMax | oz | 0.27 |
| Duet | pt | 5.09 | Roundup WeatherMax | pt | 4.33 |
| Envoke | oz | 96.59 | Salvo | pt | 5.13 |
| Evik DF 80W | lb | 11.22 | Scepter 70 DG | oz | 4.52 |
| Expert | pt | 4.19 | Select Max | pt | 12.35 |
| Facet L | pt | 14.60 | Sequence | pt | 5.87 |
| Finesse | oz | 15.66 | Sharpen | oz | 6.07 |
| First Rate | oz | 41.50 | Simazine 4L | pt | 3.17 |
| Flexstar | pt | 8.30 | Stalwart | pt | 6.39 |
| Fultime | pt | 5.25 | Stam 80 EDF | lb | 9.50 |
| Fusilade DX | oz | 1.08 | Stam M4 | qt | 7.78 |
| Fusion | pt | 26.89 | Staple LX | oz | 8.83 |
| Glyfos | pt | 1.80 | Steadfast | oz | 12.32 |
| Glyfos Xtra | pt | 2.25 | Storm | pt | 11.88 |
| Glyphosate 3lbs a.e | pt | 2.26 | Strada WG | oz | 6.91 |
| Glyphosate 3lbs a.e | oz | 0.14 | Strongarm | oz | 51.19 |
| Glystar Plus | pt | 2.45 | Superwham | qt | 9.18 |
| Goal 2XL | pt | 9.83 | Suprend | lb | 13.49 |
| Gramoxone SL 2.0 | oz | 0.31 | Surpass EC | qt | 28.06 |
| Grandstand R | qt | 29.47 | | | (continued) |

Appendix Table 4. Operating inputs: estimated prices, Mississippi, 2016 (continued)

| ITEM NAME | UNIT | PRICE | ITEM NAME | UNIT | PRICE |
|---------------------|--------|---------|----------------------|--------|---------|
| | | dollars | | | dollars |
| Synchrony XP | oz | 12.49 | Montana | oz | 1.00 |
| Touchdown Total | qt | 7.13 | Mustang Max | oz | 1.45 |
| Treflan 4D | pt | 3.40 | Nuprid 4F | oz | 0.51 |
| Tricor DF | lb | 15.55 | Oberon 4 SC | pt | 59.84 |
| Trifluralin 4EC | pt | 3.60 | Orthene 97S | lb | 9.10 |
| Valor SX | oz | 7.10 | Penncap-M | pt | 6.71 |
| Valor XLT | oz | 5.11 | Pounce 25WP | lb | 15.16 |
| Verdict | oz | 1.77 | Prevathon | oz | 1.25 |
| Zorial Rapid 80DF | lb | 14.10 | Prolex | oz | 2.62 |
| INOCULANT | | | Provoke | oz | 1.75 |
| Optimize LIFT | oz | 0.54 | Radiant | oz | 6.73 |
| Vault | oz | 1.73 | Respect .8EC | pt | 34.00 |
| INSECTICIDES | | | Sevin 4F | pt | 5.89 |
| Abamectin .15EC | oz | 0.72 | Sevin 80S | lb | 7.40 |
| Acephate 90% | lb | 7.45 | Sevin XLR Plus | qt | 12.50 |
| Acephate 90SP | lb | 7.45 | Sivanto | oz | 2.40 |
| Acramite-4SC | oz | 1.88 | Steward | pt | 36.33 |
| Admire Pro | oz | 2.95 | Thimet 20-G Lock N L | lb | 3.65 |
| Asana .66 XL | oz | 0.57 | Thionex 3 EC | pt | 4.17 |
| Aztec 2.1% G | lb | 3.77 | Thionex 50W | lb | 10.45 |
| Baythroid XL | oz | 2.55 | Tracer 4SC | oz | 9.73 |
| Bidrin 8WM | oz | 1.09 | Transform WG | oz | 7.74 |
| Bidrin XP | oz | 1.05 | Vydate C-LV | oz | 0.93 |
| Bifenthrin | oz | 0.89 | Zeal Miticid I | oz | 15.89 |
| Bifenture 2EC | pt | 16.10 | Zephyr | oz | 0.85 |
| Brigade EC | pt | 16.12 | IRRIGATION SUPPLIES | | |
| Brigade WSB | lb | 22.47 | Roll-Out Pipe | ft | 0.26 |
| Capture LFR | oz | 2.53 | SEED/PLANTS | | |
| Carbaryl 4L | pt | 5.28 | Corn Seed B2RR | thous | 3.27 |
| Carbine 50WG | oz | 5.93 | Corn Seed Conv. | thous | 2.61 |
| Centric 40WG | oz | 4.95 | Corn Seed LLRRBT | thous | 3.64 |
| Comite 1l | pt | 8.98 | Corn Seed RR2 | thous | 3.02 |
| Confirm 2F | oz | 2.11 | Corn Seed VT3 | thous | 3.52 |
| Counter 15G | lb | 4.51 | Corn Seed VT3Pro | thous | 3.52 |
| Cruiser Maxx Rice | lbseed | 0.13 | Cotton Seed B2RF | thous | 0.72 |
| Curacron 8E | pt | 10.75 | Cotton Seed LLB2 | thous | 1.25 |
| Cypermethrin | oz | 0.55 | Cotton Seed W | thous | 0.74 |
| Denim 0.16 EC | pt | 32.63 | Cotton Seed WRF | thous | 0.86 |
| Diamond .83EC | pt | 21.28 | Peanut Seed | lb | 0.70 |
| Diamond .83EC | oz | 1.33 | Rice Clearfield | lb | 1.05 |
| Dimethoate 4E | pt | 6.51 | Rice Clearfield Hyb | lb | 5.82 |
| Dimilin 2L | oz | 2.22 | Rice Conv. Hybrid | lb | 5.91 |
| Dipel DF | lb | 15.09 | Rice Seed (Levees) | lb | 0.43 |
| Dipel ES | pt | 5.42 | Rice Seed CF(Levees) | lb | 1.05 |
| Discipline 2 EC | oz | 0.98 | Rice Seed CFH(Levee) | lb | 5.82 |
| Endigo ZC | pt | 27.76 | Rice Seed Conv. | lb | 0.43 |
| Epi-Mek | pt | 15.41 | Sorghum Concept | lb | 2.29 |
| Fanfare 2EC | oz | 0.93 | Sorghum Concept+ Po | lb | 3.60 |
| Force 3G | lb | 6.90 | Soybean Seed LL | lb | 1.15 |
| Gaucho 600 | oz | 5.26 | Soybean Seed RR2 | lb | 1.13 |
| Hero | pt | 25.34 | Wheat Seed Private | lb | 0.38 |
| Imidan 70 WSB | oz | 0.75 | SOIL TEST | | |
| Incidental Pest Trt | acre | 12.00 | Soil Test | acre | 10.00 |
| Incidental Pest Trt | acre | 8.00 | SURVEY & MARK LEVEES | | |
| Intrepid 2F | oz | 2.01 | Survey & Mark Levees | acre | 4.50 |
| Intruder 70WSP | oz | 9.83 | TECHNOLOGY FEE | | |
| Karate Z | oz | 2.80 | B2 Cot Tech Fee | thous | 0.76 |
| Kelthane MF 4EC | pt | 5.00 | B2 Cot Tech Fee | cap/ac | 31.91 |
| Lambda | oz | 1.13 | B2EF Cot Tech Fee | thous | 1.63 |
| Lannate LV | pt | 11.08 | B2EF Cot Tech Fee | cap/ac | 68.62 |
| Lannate SP | oz | 2.13 | B2RF Cot Tech Fee | thous | 1.49 |
| Larvin 3.2 | oz | 0.63 | B2RF Cot Tech Fee | cap/ac | 62.69 |
| Leverage 2.7 | oz | 2.12 | LLB2 Cot Tech Fee | thous | 0.76 |
| Lorsban 15G | lb | 2.35 | RF Cot Tech Fee | thous | 1.04 |
| Lorsban 4E | pt | 6.02 | RF Cot Tech Fee | cap/ac | 43.66 |
| Macho | oz | 1.03 | WRF Cot Tech Fee | thous | 1.45 |
| Malathion 5E | pt | 4.54 | WS Cot Tech Fee | thous | 0.41 |
| Malathion 8E | pt | 5.33 | WS Cotton Tech Fee | cap/ac | 24.00 |
| Monitor 4 | pt | 16.50 | | | |

Appendix Table 5. Estimated fuel prices
and interest rates, Mississippi, 2016

| ITEM NAME | UNIT | PRICE |
|--|-----------|---------|
| | | dollars |
| Diesel Fuel (DI) Price | (\$/gal): | 2.00 |
| Gasoline (GA) Price. | (\$/gal): | 2.25 |
| LP Gas (LP) Price. | (\$/gal): | 1.70 |
| Short-term Interest Rate | (%): | 4.50 |
| Intermediate-term Interest Rate. | (%): | 5.00 |

Appendix Table 6. Labor types, wage rates and unallocated labor
multipliers for crop enterprises, Mississippi, 2016

| Item name | Unit | Wage Rate |
|---------------------|-----------------------------------|-----------|
| OPERATOR LABOR | hour | 13.40 |
| 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, 2016

| Crop | uni | Futures Contract Month | Futures Contract Price ^a | Basis ^b | Forward Contract Price | Loan Rate ^d | Budget Price ^e |
|---------------|-----|------------------------|-------------------------------------|--------------------|------------------------|------------------------|---------------------------|
| Corn | bu | Dec '16 | 4.15 | -0.27 | 3.88 | 2.10 | 3.88 |
| Cotton Lint | lb | Dec '16 | 0.6198 | -0.0233 | 0.596 ^e | 0.52 | 0.60 |
| Cottonseed | lb | | | | | | 0.114 ^f |
| Grain Sorghum | bu | | | | 3.69 | 2.02 | 3.69 |
| Peanuts | ton | | | | 375.00 | 355.00 | 375.00 |
| Soybeans | bu | Nov '16 | 8.91 | +0.07 | 8.98 | 5.21 | 8.98 |
| Rice | bu | Nov '16 | 5.94 | -0.54 | 5.40 | 2.98 | 5.40 |
| Wheat | bu | Jul '16 | 5.31 | -0.20 | 5.11 | 2.72 | 5.11 |

^aAverage of the daily closing futures contract prices during first six trading days in October 2015 for the stated contract months.

^bBasis is the mid-week Greenville, MS, cash price minus the futures contract price for the stated contract. The reported basis is a daily average from 2009 to 2015. All basis values are composed of the typical harvest timeframe for each crop according to USDA, NASS crop progress reports. Sources: Arkansas Farm Bureau Commodity Report and Daily Grain Report, Mississippi Department of Ag-USA Market News.

^cThe forward contract price for cotton, soybeans, corn, wheat, and rice 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 estimated from a poll of industry peanut buyers.

^dAverage Mississippi loan rate for the 2015 crop year for soybeans, corn, grain sorghum, and wheat. 2015 national average loan rate for cotton. 2015 Mississippi farm stored loan rate for long grain rice. 2015 national average loan rate for peanuts.

^ePrice used in the 2016 MAFES Planning Budgets.

^fCottonseed price is the marketing year average price averaged over the years 2011–2015.

Appendix Table 8. 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, 2016

| 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 | | 0.01 | 0.28 | | 0.28 | |
| 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 | | | 11.23 | | | 0.21 | 11.44 | 45.07 | 56.51 | |
| Well & Pump, 1/4 CP | each | | | 2.89 | | | 0.05 | 2.94 | 8.54 | 11.48 | |
| Engine, 1/4 CP, 65 | each | | | | | | | | 9.93 | 9.93 | |
| June Irr. 3app@.75" | ac-in | | 6.72 | 1.39 | | | 0.15 | 8.26 | | 8.26 | |
| July Irr. 4app@.75" | ac-in | | 8.96 | 1.86 | | | 0.16 | 10.98 | | 10.98 | |
| Aug Irr. 3app@.75" | ac-in | | 6.72 | 1.39 | | | 0.09 | 8.20 | | 8.20 | |
| TOTALS | | | 0.00 | 22.40 | 18.76 | 1.84 | 0.00 | 0.69 | 43.69 | 63.54 | 107.23 |

Note: Cost of production estimates are based on 2015 input prices.

Appendix Table 9. Estimated costs for field operations, per acre
 Corn irrigated with roll-out pipe
 160-acre system, 13 ac-in., Delta Area, Mississippi, 2016

| 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' | | 0.74 | 0.32 | 0.51 | | | 0.07 | 1.64 | 1.63 | 3.27 |
| Set Up Engine | | | | | | | | | | | |
| IRRIGATE LABOR | hour | | | | 0.23 | | | | 0.23 | | 0.23 |
| Ditcher (1m/160a) | | | 0.13 | 0.05 | 0.13 | | | | 0.31 | 0.19 | 0.50 |
| Roll-Out Pipe | ft | 8.58 | | | | | | 0.13 | 8.71 | | 8.71 |
| Lay Roll-out Pipe | | | | | | | | | | | |
| Pipe Spool 160ac | 1/4m roll | | 0.17 | 0.07 | 0.40 | | | 0.01 | 0.65 | 0.52 | 1.17 |
| 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 | | 0.25 | 0.10 | 0.59 | | | 0.01 | 0.95 | 0.77 | 1.72 |
| Land Forming (\$390) | each | | | | | | | | | 31.93 | 31.93 |
| Well & Pump, Furrow | each | | | 2.44 | | | | 0.04 | 2.48 | 7.21 | 9.69 |
| Main Line Pipe | each | | | | | | | | | 4.98 | 4.98 |
| Engine, RPF, Corn | each | | | | | | | | | 8.38 | 8.38 |
| 1st June Irrigation | ac-in | | 5.30 | 0.98 | | | | 0.09 | 6.37 | | 6.37 |
| 2nd June Irrigation | ac-in | | 5.30 | 0.98 | | | | 0.09 | 6.37 | | 6.37 |
| 3rd June Irrigation | ac-in | | 5.30 | 0.98 | | | | 0.09 | 6.37 | | 6.37 |
| July Irrigation | ac-in | | 5.30 | 0.98 | | | | 0.07 | 6.35 | | 6.35 |
| TOTALS | | 8.58 | 22.49 | 6.90 | 4.59 | 0.00 | | 0.63 | 43.19 | 55.61 | 98.80 |

Note: Cost of production estimates are based on 2015 input prices.

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Publication 2924 (12-15)

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Extension Service of Mississippi State University, cooperating with U.S. Department of Agriculture. Published in furtherance of Acts of Congress, May 8 and June 30, 1914. GARY B. JACKSON, Director